

Bioassays of

Yara North America, Inc., Port Sutton Terminal

Hillsborough County

NPDES #FL0038652

Sampled October 11, 2004

December 2004

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Yara North America, Inc., Port Sutton Terminal, 3421 Port Sutton Rd., Tampa, Hillsborough County, Florida, NPDES #FL0038652. Effluent samples for this facility were collected on October 11, 2004.

Introduction

Yara North America, Inc. currently operates a bulk ammonia storage and transfer facility at the Port Sutton Ammonia Terminal complex. The facility has a design flow of 10 million gallons per day (MGD), and had a mean flow from 8/03 through 8/04 of 1.61 MGD. Effluent was sampled from outfall 001, which receives cooling tower blowdown and stormwater.

Liquid ammonia is off-loaded from ships via pipeline into the facility's two storage tanks. Prior to transfer off site, liquid ammonia is warmed to 45°F in four parallel heat exchangers. The heat exchangers utilize a maximum of 2.6 million gallons per day (MGD) of once-through warming water, obtained from the Tampa Electric Company (TECO) Gannon Power Plant discharge flume, which discharges into Port Sutton Channel (Class III Marine Waters). Intake Monitoring Station 001A monitors the intake water. After use, the cooled water is discharged through Outfall 001, via a 24-inch diameter pipe, back into Port Sutton Channel and then flows into the marine waters of Hillsborough Bay.

Condensers are utilized to trap, liquefy and return to the storage tanks any ammonia vapors that escape from the storage tanks. Potable municipal water utilized in the condensers is treated with additives to prevent scaling, inhibit corrosion and to provide protection from biological action and slime. Bromine is used to inhibit algae growth, and sulfuric acid is used to control increases in pH. During blowdown, condenser cooling water is discharged into the facility's 50,000 gallon stormwater retention pond via an underground pipe that connects to the perforated drain built into the concrete bed, which surrounds the four condensers.

Effluent from the stormwater retention pond, consisting of condenser blowdown and stormwater, is discharged as needed through internal monitoring station IMS-002 into Outfall 001. A fully automatic differential pH detection and control system, consisting of pH detectors before and after the ammonia heaters and a triple redundant pH controller upstream of the IMS-002 insertion point into Outfall 001, is also provided to detect contamination in the stormwater retention pond effluent (facility information provided by Jacki Champion of FDEP Southwest District office).

Methods

Samples were collected from the NPDES sampling point, outfall 001, by Brian Irsch and Jacki Champion (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 toxicity tests and algal growth potential test were performed following internal DEP SOP's TA07_03,TA07_04, 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. The 96-hr static renewal acute screening toxicity tests were performed, per permit conditions.

Toxicity Test Results

Tests were performed October 12-16, 2004.

Americamysis bahia 96-hr acute screening bioassay –	LC_{50} > 100%, 5% mortality in 100% sample at 96 hours
Menidia beryllina 96-hr acute screening bioassay –	LC_{50} > 100%, 5% mortality in 100% sample at 96 hours

Bioassay samples did not show toxicity to the test organisms.

See Appendix 1 for bioassay bench sheets.

Algal Growth Potential

The effluent Algal Growth Potential (AGP) was 20.7 mg dry wt/L of *Dunaliella tertiolecta.* Raschke and Shultz found that AGP values above 10.0 mg dry weight/L represent a “problem” threshold for marine receiving waters, implying nutrient enrichment (personal communication with Ron Raschke USEPA Region 4 1987). The analytical chemistry suggests that the effluent is nitrogen-limited (Table 1).

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 0.15 mg/L. Based on the pH, salinity and temperature of the effluent as collected, the calculated unionized ammonia concentration was < 0.02mg/L.

Aluminum and iron were detected in the effluent at levels that comply with Class III marine water quality criteria. Lead was detected between the laboratory minimum detection limit (MDL) and practical quantitation limit (PQL).

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 outfall 001 for this facility on October 11, 2004, did not show acute toxicity to either test species during the 96-hour bioassays. The effluent AGP result exceeded the "problem” threshold for fresh receiving waters. Effluent water quality samples did not exceed any applicable water quality standards or violate any permit conditions.

Table 1. Algal growth potential (AGP) of Dunaliella tertiolecta *for samples from Yara North America, Inc. - Port Sutton Terminal, on October 11, 2004.*

Location	AGP (measured)	Inorganic N:P ratio	Total N:P ratio
Effluent Samples	20.7 A	0.88	0.36

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

Table 2. Effluent limits, Class III Criteria, and chemical data for samples from Yara North America, Inc. - Port Sutton Terminal, on October 11, 2004.

Yara North America, Inc. - Port Sutton Terminal	Class III Marine Stds	Effluent Limits	Effluent Samples
Organic Constituents (µg/L)			
None Detected	-	-	-
Metals (µg/L unless otherwise noted)			
Aluminum	≤ 1500	-	130
Arsenic	≤ 50	-	12 U
Cadmium	≤ 9.3	-	0.37 U
Calcium (mg/L)	-	-	253
Chromium-III	-	-	4 U
Copper	≤ 3.7	-	7.5 U
Iron	≤ 300	-	124
Lead	≤ 8.5	-	0.42 I
Magnesium (mg/L)	-	-	769
Nickel	≤ 8.3	-	4 U
Selenium	≤ 71	-	2.5 U
Silver	≤ 2.3	-	0.1 U
Zinc	≤ 86	-	6 U
Nutrients (mg/L)			
Ortho-phosphate	-	-	0.33
Total Phosphorus	-	-	0.39
Ammonia	-	Report	0.15
Unionized Ammonia	-	Report	< 0.02 c
Nitrate+Nitrite	-	-	0.14
Total Kjeldahl Nitrogen	-	-	0.68
Organic Nitrogen	-	-	0.53 c
Total Nitrogen	-	Report	0.82 c
General Physical and Chemical Parameters			
Alpha, Total (pCi/L)	≤ 15	-	71.6 U
Alpha-Counting Error (pCi/L)	-	-	43.2
Radium 226 (pCi/L)	-	-	0.9
Radium 226-Counting Error (pCi/L)	-	-	0.2
Radium 228 (pCi/L)	-	-	1 U
Radium 228-Counting Error (pCi/L)	-	-	0.6
Radium 226 + 228 (pCi/L)	≤ 5	-	1.4 c
Salinity (PPTh)	-	-	20.91
Dissolved Oxygen (mg/L)	≥ 5	-	6.6
pH (S.U.)	6.5 - 8.5	6.5 - 8.5	7.3
Temperature (C)	-	Report	24.6
Chloride (mg/L)	-	-	11,000
Total dissolved solids (mg/L)	-	-	20,500
Total suspended solids (mg/L)	-	-	24
Color (PTU)	-	-	50
Turbidity (NTU)	≤ 29 t	-	2.1
Fluoride (mg F/L)	≤ 5	-	0.83
Sulfate (mg SO_4/L)	-	-	1,600
Oil and Grease (mg/L)	≤ 5	-	2.5 I

Value exceeds the Class III Marine Water Quality Criteria (62-302, F.A.C.)

c - calculated value

t - Shall not exceed 29 NTUs above background

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.

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

Appendix 1. Bench Sheets

FDEP Biology Section - Acute
Bioassay Bench Sheets

Facility: Yara North America Inc - Port Sutton
Address: 3421 Port Sutton Rd.
City: Tampa County: Hillsborough
Contact/District: Jacki Champion / SW
NPDES Permit #: FL0038652
LIMS Job #: TLH 2004-10-12-35 LIMS Sample #: TBL0212C

Sample Collection: Date: 10/11/04 Time: 1000
Hold time Start: Date: 10/11/04 Time: 1000

Comments:

Lims Data Entry: 10-21-04 MF Data Entry Verification: 10/21/04 SM
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:
PH adjustment : yes (no) Initial pH NaOH N HCl N Drops mL Final pH
Aeration : yes (no) Initial DO: mg/L Final DO: mg/L Duration: minutes Rate: ~ bubbles/min
Salinity adjusted (Test 1): yes (no) Initial Salinity: Final Salinity: Salts Hypersaline brine
Salinity adjusted (Test 2): yes (no) Initial Salinity: Final Salinity: Salts Hypersaline brine
Dechlorination: yes (no) mL of 0.025N Sodium Thiosulfate per liter of sample. Final TRC
Sample Validation:
Temperature: Shipped ≤6°C (Yes) No Hand Delivered: Cooling (received °C < collected °C) Yes No
Holding Time: ≤36 Hours (Yes) No (Composite-end of collection; grab-when collected; 4 in 24 - time last sample collected)

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

Temperature Range °C
Incubator # 3 Range 24.3 - 24.7
Room B246: 24.2 - 24.6
Waterbath: N/A

Water Quality Parameters	20% DMW	Well Water	Salt Water (ASW) NSW Test 1	Salt Water (ASW) NSW Test 2	Moderately Hard Water	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl2 (mg/L):	N/A	N/A	N/A	N/A	N/A	Not Measured	ECK		DN
Lab Total Residual Cl2 (mg/L):			<0.03	<0.03		<0.05	HACH	MF	DN
Alkalinity (mg/L as $CaCO_3$):			24.2	24.2		19.2	HACH	MF	DN
Hardness (mg/L as $CaCO_3$):							HACH	MF	DN
Total Ammonia (mg/L as N):			<0.051	<0.051		<0.051	HACH	MF	DN
Salinity (ppt):			21.3	21.3		21.8	DENVER (YSI)	MF	DN

Investigators' Signatures
Deepak Michaelson
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REVIEWER

V2 2/26/04

Page (1) Monitor Salinity Frequ...

FDEP Biology Section - - Bioassay Bench Sheet

Survival

LIMS Sample #: 786260 **Test #:** 1 **Test Started: Date** 10/12/04 **Time:** 1300

Organism: A. bahia **Test Ended: Date** 10-16-04 **Time:** 1130

Organism Batch: 277 **Diluent/ Batch:** ASW1 47

Organism Age: 9 d-y 5 **Food:** YCT *P. subcapitata* *Artemia* 019404256

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

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	E9	5	5	5	5	5	4m
	B	E10	5	5	5	5	5	5
	C	E11	5	5	4m	4	4	4
	D	E12	5	5	5	5	5	5
100%	A	E13	5	5	5	5	5	5
	B	E14	5	5	5	5	5	5
	C	E15	5	4d	4	4	4	4
	D	E16	5	5	5	5	5	5
Organisms loaded by: JD		Checked by:	JD	JD	JD	DN	DN	MF
Loading Verified by: DN		(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).

V.1 2/23/04

FDEP Biology Section - - Bioassay Bench Sheet

Survival

LIMS Sample #: 7862260 **Test #:** 2 **Test Started: Date** 10/17/04 **Time:** 1300

Organism: M. beryllina **Test Ended: Date** 10-18-04 **Time:** 1130

Organism Batch: 31 **Diluent/ Batch:** ASO / 47

Organism Age: 13 day 5 **Food:** YCT *P. subcapitata* *Artemia*

Chamber Size 1000 mL **Batch:** ___ ___ 01940256

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	E17	5	5	5	5	5	5
	B	E18	5	5	5	5	5	5
	C	E19	5	5	5	5	5	5
	D	E20	5	5	5	5	5	5
100%	A	E21	5	5	5	5	5	5
	B	E22	5	5	4D	4	4	4
	C	E23	5	5	5	5	5	5
	D	E24	5	5	5	5	5	5
Organisms loaded by: JD		Checked by:	JD	JD	JD	DN	DN	MF
Loading Verified by: DN		(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).

V.1 2/23/04

Bioassay Parameters

LIMS Sample # : 786260 **Test # :** 1 **of** 2

TEST SOP: TA07_ 03 **Test Species:** *Ceriodaphnia dubia Cyprinella leedsi Pimephales promelas* (*Americamysis bahia*) *Menidia beryllina* Other:_____

V.1 2/24/04

Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	8.4	8.3	8.2	8.4	8.3	8.2
Temperature °C	24.2	24.2	24.5	24.3	24.4	25.0
Dissolved Oxygen mg/L	6.7	6.9	6.2	7.3	6.0	6.0
Conductivity µmhos (mmhos)	30.7	31.6	31.8	32.9	32.9	34.9
(initials) Measured by:	DN	DN	DN	DN	JD	MF
(initials) Recorded by:	DN	DN	DN	DN	JD	MF

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	7.8	7.7	7.6	7.4	7.8	7.9
Temperature °C	24.5	24.0	24.2	24.5	24.8	24.0
Dissolved Oxygen mg/L	7.5	6.7	6.1	7.6	5.9	6.1
Conductivity µmhos (mmhos)	34.7	35.1	35.8	34.3	36.0	35.7
(initials) Measured by:	DN	DN	DN	DN	JD	MF
(initials) Recorded by:	DN	DN	DN	DN	JD	MF

Comments:

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

Comments:

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

Comments:

V.1 2/24/04

Bioassay Parameters

LIMS Sample # : 786260 **Test # :** 2 **of** 2

TEST SOP: TA07_ 04 **Test Species:** *Ceriodaphnia dubia Cyprinella leedsi Pimephales promelas Americamysis bahia* (*Menidia beryllina*) Other:_____

V.1 2/24/04

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	8.4	(A) ~~8.3~~	8.4	8.4	8.3	8.3
Temperature °C	24.0	24.0	24.2	24.3	24.4	24.4
Dissolved Oxygen mg/L	6.9	7.3	7.1	7.4	5.9	4.2
Conductivity µmhos (mmhos)	31.2	31.3	31.8	32.8	34.0	35.1
(initials) Measured by:	DN	DN	DN	DN	JD	MF
(initials) Recorded by:	DN	DN	DN	DN	JD	MF

Comments: (A) pH = 8.4, measured wrong sample cup. DN 10/13/04.

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	7.8	8.0	8.0	7.6	7.9	7.9
Temperature °C	24.4	24.0	24.1	(B) ~~24.0~~	24.3	25.1
Dissolved Oxygen mg/L	7.3	7.6	7.4	(C) ~~7.4~~	6.0	4.2
Conductivity µmhos (mmhos)	34.9	34.9	35.2	34.3	35.3	36.4
(initials) Measured by:	DN	DN	DN	DN	JD	MF
(initials) Recorded by:	DN	DN	DN	DN	JD	MF

Comments:
(B) T = 24.3 measured wrong sample DN 10/14/04
(C) D.O. = 7.5 measured wrong sample DN. 10/14/04

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

Comments:

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

Comments:

V.1 2/24/04

Appendix 2. Chemical Analyses performed on the effluent from the Yara North America, Inc., Port Sutton Terminal, Outfall 001, sampled on October 11, 2004.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/11/2004 10:00	OUTFALL 001	Bio-AGP/LimNut	Algal Growth Potential	20.7	mg DryWt/L	A	0.3	0.9
10/11/2004 10:00	OUTFALL 001	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	1.7	ug/L	U	1.7	5.1
10/11/2004 10:00	OUTFALL 001	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	1.7	ug/L	U	1.7	5.1
10/11/2004 10:00	OUTFALL 001	Bio-Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	100	LC50	L		
10/11/2004 10:00	OUTFALL 001	Bio-Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	100	LC50	L		
10/11/2004 10:00	OUTFALL 001	BNA-Water	1,2,4-Trichlorobenzene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	1,2-Dichlorobenzene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	1,3-Dichlorobenzene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	1,4-Dichlorobenzene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	2,4,6-Trichlorophenol	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	2,4-Dichlorophenol	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	2,4-Dimethylphenol	57	ug/L	U	57	230
10/11/2004 10:00	OUTFALL 001	BNA-Water	2,4-Dinitrophenol	17	ug/L	U	17	68
10/11/2004 10:00	OUTFALL 001	BNA-Water	2,4-Dinitrotoluene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	2,6-Dinitrotoluene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	2-Chloronaphthalene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	2-Chlorophenol	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	2-Methyl-4,6-dinitrophenol	3.4	ug/L	U	3.4	14
10/11/2004 10:00	OUTFALL 001	BNA-Water	2-Nitrophenol	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	3,3'-Dichlorobenzidine	45	ug/L	U	45	180
10/11/2004 10:00	OUTFALL 001	BNA-Water	4,4'-DDD	1.7	ug/L	U	1.7	6.8
10/11/2004 10:00	OUTFALL 001	BNA-Water	4,4'-DDE	1.7	ug/L	U	1.7	6.8
10/11/2004 10:00	OUTFALL 001	BNA-Water	4,4'-DDT	1.7	ug/L	UJ	1.7	6.8
10/11/2004 10:00	OUTFALL 001	BNA-Water	4-Bromophenyl phenyl ether	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	4-Chloro-3-methylphenol	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	4-Chlorophenyl phenyl ether	2.3	ug/L	U	2.3	9.1
10/11/2004 10:00	OUTFALL 001	BNA-Water	4-Nitrophenol	17	ug/L	U	17	68
10/11/2004 10:00	OUTFALL 001	BNA-Water	Acenaphthene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Acenaphthylene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Aldrin	1.7	ug/L	U	1.7	6.8
10/11/2004 10:00	OUTFALL 001	BNA-Water	Anthracene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Benzidine	110	ug/L	U	110	450
10/11/2004 10:00	OUTFALL 001	BNA-Water	Benzo(a)anthracene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Benzo(a)pyrene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Benzo(b)fluoranthene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Benzo(g,h,i)perylene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Benzo(k)fluoranthene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Bis(2-chloroethoxy)methane	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Bis(2-chloroethyl)ether	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Bis(2-chloroisopropyl)ether	3.4	ug/L	U	3.4	14
10/11/2004 10:00	OUTFALL 001	BNA-Water	Bis(2-ethylhexyl)phthalate	17	ug/L	U	17	68
10/11/2004 10:00	OUTFALL 001	BNA-Water	Butyl benzyl phthalate	5.7	ug/L	U	5.7	23
10/11/2004 10:00	OUTFALL 001	BNA-Water	Chrysene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Di-n-butyl phthalate	5.7	ug/L	U	5.7	23
10/11/2004 10:00	OUTFALL 001	BNA-Water	Di-n-octyl phthalate	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Dibenzo(a,h)anthracene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Dieldrin	1.7	ug/L	U	1.7	6.8
10/11/2004 10:00	OUTFALL 001	BNA-Water	Diethyl phthalate	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Dimethyl phthalate	57	ug/L	U	57	230
10/11/2004 10:00	OUTFALL 001	BNA-Water	Endosulfan I	4.5	ug/L	U	4.5	18
10/11/2004 10:00	OUTFALL 001	BNA-Water	Endosulfan II	4.5	ug/L	U	4.5	18
10/11/2004 10:00	OUTFALL 001	BNA-Water	Endosulfan sulfate	1.7	ug/L	U	1.7	6.8
10/11/2004 10:00	OUTFALL 001	BNA-Water	Endrin	1.7	ug/L	U	1.7	6.8
10/11/2004 10:00	OUTFALL 001	BNA-Water	Endrin aldehyde	4.5	ug/L	U	4.5	18
10/11/2004 10:00	OUTFALL 001	BNA-Water	Fluoranthene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Fluorene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Heptachlor	1.7	ug/L	U	1.7	6.8

10/11/2004 10:00	OUTFALL 001	BNA-Water	Heptachlor epoxide	1.7	ug/L	U	1.7	6.8
10/11/2004 10:00	OUTFALL 001	BNA-Water	Hexachlorobenzene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Hexachlorobutadiene	3.4	ug/L	U	3.4	14
10/11/2004 10:00	OUTFALL 001	BNA-Water	Hexachlorocyclopentadiene	3.4	ug/L	UJ	3.4	14
10/11/2004 10:00	OUTFALL 001	BNA-Water	Hexachloroethane	3.4	ug/L	U	3.4	14
10/11/2004 10:00	OUTFALL 001	BNA-Water	Indeno(1,2,3-cd)pyrene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Isophorone	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	N-Nitrosodi-n-propylamine	2.3	ug/L	U	2.3	9.1
10/11/2004 10:00	OUTFALL 001	BNA-Water	N-Nitrosodimethylamine	2.3	ug/L	U	2.3	9.1
10/11/2004 10:00	OUTFALL 001	BNA-Water	N-Nitrosodiphenylamine	3.4	ug/L	U	3.4	14
10/11/2004 10:00	OUTFALL 001	BNA-Water	Naphthalene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Nitrobenzene	2.3	ug/L	U	2.3	9.1
10/11/2004 10:00	OUTFALL 001	BNA-Water	Pentachlorophenol	3.4	ug/L	U	3.4	14
10/11/2004 10:00	OUTFALL 001	BNA-Water	Phenanthrene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Phenol	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	Pyrene	1.1	ug/L	U	1.1	4.5
10/11/2004 10:00	OUTFALL 001	BNA-Water	alpha-BHC	1.7	ug/L	U	1.7	6.8
10/11/2004 10:00	OUTFALL 001	BNA-Water	beta-BHC	1.7	ug/L	U	1.7	6.8
10/11/2004 10:00	OUTFALL 001	BNA-Water	delta-BHC	1.7	ug/L	UJ	1.7	6.8
10/11/2004 10:00	OUTFALL 001	BNA-Water	gamma-BHC	1.7	ug/L	U	1.7	6.8
10/11/2004 10:35	FIELD BLANK	BNA-Water	1,2,4-Trichlorobenzene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	1,2-Dichlorobenzene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	1,3-Dichlorobenzene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	1,4-Dichlorobenzene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	2,4,6-Trichlorophenol	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	2,4-Dichlorophenol	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	2,4-Dimethylphenol	69	ug/L	U	69	280
10/11/2004 10:35	FIELD BLANK	BNA-Water	2,4-Dinitrophenol	21	ug/L	U	21	83
10/11/2004 10:35	FIELD BLANK	BNA-Water	2,4-Dinitrotoluene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	2,6-Dinitrotoluene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	2-Chloronaphthalene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	2-Chlorophenol	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	2-Methyl-4,6-dinitrophenol	4.2	ug/L	U	4.2	17
10/11/2004 10:35	FIELD BLANK	BNA-Water	2-Nitrophenol	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	3,3'-Dichlorobenzidine	56	ug/L	U	56	220
10/11/2004 10:35	FIELD BLANK	BNA-Water	4,4'-DDD	2.1	ug/L	U	2.1	8.3
10/11/2004 10:35	FIELD BLANK	BNA-Water	4,4'-DDE	2.1	ug/L	U	2.1	8.3
10/11/2004 10:35	FIELD BLANK	BNA-Water	4,4'-DDT	2.1	ug/L	UJ	2.1	8.3
10/11/2004 10:35	FIELD BLANK	BNA-Water	4-Bromophenyl phenyl ether	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	4-Chloro-3-methylphenol	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	4-Chlorophenyl phenyl ether	2.8	ug/L	U	2.8	11
10/11/2004 10:35	FIELD BLANK	BNA-Water	4-Nitrophenol	21	ug/L	U	21	83
10/11/2004 10:35	FIELD BLANK	BNA-Water	Acenaphthene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Acenaphthylene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Aldrin	2.1	ug/L	U	2.1	8.3
10/11/2004 10:35	FIELD BLANK	BNA-Water	Anthracene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Benzidine	140	ug/L	U	140	560
10/11/2004 10:35	FIELD BLANK	BNA-Water	Benzo(a)anthracene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Benzo(a)pyrene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Benzo(b)fluoranthene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Benzo(g,h,i)perylene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Benzo(k)fluoranthene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Bis(2-chloroethoxy)methane	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Bis(2-chloroethyl)ether	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Bis(2-chloroisopropyl)ether	4.2	ug/L	U	4.2	17
10/11/2004 10:35	FIELD BLANK	BNA-Water	Bis(2-ethylhexyl)phthalate	21	ug/L	U	21	83
10/11/2004 10:35	FIELD BLANK	BNA-Water	Butyl benzyl phthalate	6.9	ug/L	U	6.9	28
10/11/2004 10:35	FIELD BLANK	BNA-Water	Chrysene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Di-n-butyl phthalate	6.9	ug/L	U	6.9	28
10/11/2004 10:35	FIELD BLANK	BNA-Water	Di-n-octyl phthalate	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Dibenzo(a,h)anthracene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Dieldrin	2.1	ug/L	U	2.1	8.3

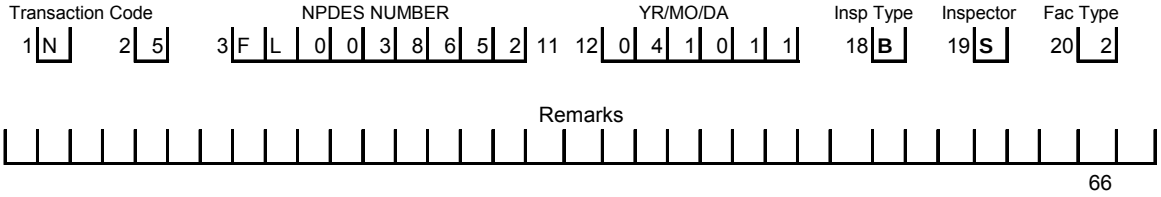
10/11/2004 10:35	FIELD BLANK	BNA-Water	Diethyl phthalate	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Dimethyl phthalate	69	ug/L	U	69	280
10/11/2004 10:35	FIELD BLANK	BNA-Water	Endosulfan I	5.6	ug/L	U	5.6	22
10/11/2004 10:35	FIELD BLANK	BNA-Water	Endosulfan II	5.6	ug/L	U	5.6	22
10/11/2004 10:35	FIELD BLANK	BNA-Water	Endosulfan sulfate	2.1	ug/L	U	2.1	8.3
10/11/2004 10:35	FIELD BLANK	BNA-Water	Endrin	2.1	ug/L	U	2.1	8.3
10/11/2004 10:35	FIELD BLANK	BNA-Water	Endrin aldehyde	5.6	ug/L	U	5.6	22
10/11/2004 10:35	FIELD BLANK	BNA-Water	Fluoranthene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Fluorene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Heptachlor	2.1	ug/L	U	2.1	8.3
10/11/2004 10:35	FIELD BLANK	BNA-Water	Heptachlor epoxide	2.1	ug/L	U	2.1	8.3
10/11/2004 10:35	FIELD BLANK	BNA-Water	Hexachlorobenzene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Hexachlorobutadiene	4.2	ug/L	U	4.2	17
10/11/2004 10:35	FIELD BLANK	BNA-Water	Hexachlorocyclopentadiene	4.2	ug/L	UJ	4.2	17
10/11/2004 10:35	FIELD BLANK	BNA-Water	Hexachloroethane	4.2	ug/L	U	4.2	17
10/11/2004 10:35	FIELD BLANK	BNA-Water	Indeno(1,2,3-cd)pyrene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Isophorone	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	N-Nitrosodi-n-propylamine	2.8	ug/L	U	2.8	11
10/11/2004 10:35	FIELD BLANK	BNA-Water	N-Nitrosodimethylamine	2.8	ug/L	U	2.8	11
10/11/2004 10:35	FIELD BLANK	BNA-Water	N-Nitrosodiphenylamine	4.2	ug/L	U	4.2	17
10/11/2004 10:35	FIELD BLANK	BNA-Water	Naphthalene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Nitrobenzene	2.8	ug/L	U	2.8	11
10/11/2004 10:35	FIELD BLANK	BNA-Water	Pentachlorophenol	4.2	ug/L	U	4.2	17
10/11/2004 10:35	FIELD BLANK	BNA-Water	Phenanthrene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Phenol	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	Pyrene	1.4	ug/L	U	1.4	5.6
10/11/2004 10:35	FIELD BLANK	BNA-Water	alpha-BHC	2.1	ug/L	U	2.1	8.3
10/11/2004 10:35	FIELD BLANK	BNA-Water	beta-BHC	2.1	ug/L	U	2.1	8.3
10/11/2004 10:35	FIELD BLANK	BNA-Water	delta-BHC	2.1	ug/L	UJ	2.1	8.3
10/11/2004 10:35	FIELD BLANK	BNA-Water	gamma-BHC	2.1	ug/L	U	2.1	8.3
10/11/2004 10:00	OUTFALL 001	GC-Water	Alachlor	0.6	ug/L	U	0.6	2.4
10/11/2004 10:00	OUTFALL 001	GC-Water	Ametryn	0.05	ug/L	U	0.05	0.2
10/11/2004 10:00	OUTFALL 001	GC-Water	Atrazine	0.05	ug/L	U	0.05	0.2
10/11/2004 10:00	OUTFALL 001	GC-Water	Azinphos Methyl	0.05	ug/L	U	0.05	0.2
10/11/2004 10:00	OUTFALL 001	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
10/11/2004 10:00	OUTFALL 001	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
10/11/2004 10:00	OUTFALL 001	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.05	0.2
10/11/2004 10:00	OUTFALL 001	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
10/11/2004 10:00	OUTFALL 001	GC-Water	Diazinon	0.05	ug/L	UJ	0.05	0.2
10/11/2004 10:00	OUTFALL 001	GC-Water	Ethion	0.05	ug/L	U	0.05	0.2
10/11/2004 10:00	OUTFALL 001	GC-Water	Ethoprop	0.1	ug/L	U	0.1	0.4
10/11/2004 10:00	OUTFALL 001	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
10/11/2004 10:00	OUTFALL 001	GC-Water	Fonofos	0.1	ug/L	U	0.1	0.4
10/11/2004 10:00	OUTFALL 001	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4
10/11/2004 10:00	OUTFALL 001	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
10/11/2004 10:00	OUTFALL 001	GC-Water	Metalaxyl	0.25	ug/L	U	0.25	1
10/11/2004 10:00	OUTFALL 001	GC-Water	Metolachlor	0.5	ug/L	U	0.5	2
10/11/2004 10:00	OUTFALL 001	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4
10/11/2004 10:00	OUTFALL 001	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
10/11/2004 10:00	OUTFALL 001	GC-Water	Naled	0.8	ug/L	UJ	0.8	3.2
10/11/2004 10:00	OUTFALL 001	GC-Water	Norflurazon	0.1	ug/L	U	0.1	0.4
10/11/2004 10:00	OUTFALL 001	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
10/11/2004 10:00	OUTFALL 001	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
10/11/2004 10:00	OUTFALL 001	GC-Water	Phorate	0.05	ug/L	U	0.05	0.2
10/11/2004 10:00	OUTFALL 001	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
10/11/2004 10:00	OUTFALL 001	GC-Water	Simazine	0.05	ug/L	U	0.05	0.2
10/11/2004 10:35	FIELD BLANK	GC-Water	Alachlor	0.78	ug/L	U	0.78	3.1
10/11/2004 10:35	FIELD BLANK	GC-Water	Ametryn	0.065	ug/L	U	0.065	0.26
10/11/2004 10:35	FIELD BLANK	GC-Water	Atrazine	0.065	ug/L	U	0.065	0.26
10/11/2004 10:35	FIELD BLANK	GC-Water	Azinphos Methyl	0.065	ug/L	U	0.065	0.26
10/11/2004 10:35	FIELD BLANK	GC-Water	Bromacil	0.26	ug/L	U	0.26	1
10/11/2004 10:35	FIELD BLANK	GC-Water	Butylate	0.26	ug/L	U	0.26	1

10/11/2004 10:35	FIELD BLANK	GC-Water	Chlorpyrifos Ethyl	0.065	ug/L	U	0.065	0.26
10/11/2004 10:35	FIELD BLANK	GC-Water	Chlorpyrifos Methyl	0.13	ug/L	U	0.13	0.52
10/11/2004 10:35	FIELD BLANK	GC-Water	Diazinon	0.065	ug/L	UJ	0.065	0.26
10/11/2004 10:35	FIELD BLANK	GC-Water	Ethion	0.065	ug/L	U	0.065	0.26
10/11/2004 10:35	FIELD BLANK	GC-Water	Ethoprop	0.13	ug/L	U	0.13	0.52
10/11/2004 10:35	FIELD BLANK	GC-Water	Fenamiphos	0.26	ug/L	U	0.26	1
10/11/2004 10:35	FIELD BLANK	GC-Water	Fonofos	0.13	ug/L	U	0.13	0.52
10/11/2004 10:35	FIELD BLANK	GC-Water	Hexazinone	0.13	ug/L	U	0.13	0.52
10/11/2004 10:35	FIELD BLANK	GC-Water	Malathion	0.19	ug/L	U	0.19	0.76
10/11/2004 10:35	FIELD BLANK	GC-Water	Metalaxyl	0.32	ug/L	U	0.32	1.3
10/11/2004 10:35	FIELD BLANK	GC-Water	Metolachlor	0.65	ug/L	U	0.65	2.6
10/11/2004 10:35	FIELD BLANK	GC-Water	Metribuzin	0.13	ug/L	U	0.13	0.52
10/11/2004 10:35	FIELD BLANK	GC-Water	Mevinphos	0.26	ug/L	U	0.26	1
10/11/2004 10:35	FIELD BLANK	GC-Water	Naled	1	ug/L	UJ	1	4
10/11/2004 10:35	FIELD BLANK	GC-Water	Norflurazon	0.13	ug/L	U	0.13	0.52
10/11/2004 10:35	FIELD BLANK	GC-Water	Parathion Ethyl	0.19	ug/L	U	0.19	0.76
10/11/2004 10:35	FIELD BLANK	GC-Water	Parathion Methyl	0.13	ug/L	U	0.13	0.52
10/11/2004 10:35	FIELD BLANK	GC-Water	Phorate	0.065	ug/L	U	0.065	0.26
10/11/2004 10:35	FIELD BLANK	GC-Water	Prometryn	0.19	ug/L	U	0.19	0.76
10/11/2004 10:35	FIELD BLANK	GC-Water	Simazine	0.065	ug/L	U	0.065	0.26
10/11/2004 10:00	OUTFALL 001	Metals-Water	Aluminum	130	ug/L		10	40
10/11/2004 10:00	OUTFALL 001	Metals-Water	Arsenic	12	ug/L	U	12	48
10/11/2004 10:00	OUTFALL 001	Metals-Water	Cadmium	0.37	ug/L	U	0.37	1.5
10/11/2004 10:00	OUTFALL 001	Metals-Water	Calcium	253	mg/L		0.1	0.4
10/11/2004 10:00	OUTFALL 001	Metals-Water	Chromium	4	ug/L	U	4	16
10/11/2004 10:00	OUTFALL 001	Metals-Water	Copper	7.5	ug/L	U	7.5	30
10/11/2004 10:00	OUTFALL 001	Metals-Water	Iron	124	ug/L		20	80
10/11/2004 10:00	OUTFALL 001	Metals-Water	Lead	0.42	ug/L	I	0.37	1.5
10/11/2004 10:00	OUTFALL 001	Metals-Water	Magnesium	769	mg/L		0.2	0.8
10/11/2004 10:00	OUTFALL 001	Metals-Water	Nickel	4	ug/L	U	4	16
10/11/2004 10:00	OUTFALL 001	Metals-Water	Selenium	2.5	ug/L	U	2.5	10
10/11/2004 10:00	OUTFALL 001	Metals-Water	Silver	0.1	ug/L	U	0.1	0.4
10/11/2004 10:00	OUTFALL 001	Metals-Water	Zinc	6	ug/L	U	6	24
10/11/2004 10:35	FIELD BLANK	Metals-Water	Aluminum	5	ug/L	U	5	20
10/11/2004 10:35	FIELD BLANK	Metals-Water	Arsenic	6	ug/L	U	6	24
10/11/2004 10:35	FIELD BLANK	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
10/11/2004 10:35	FIELD BLANK	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
10/11/2004 10:35	FIELD BLANK	Metals-Water	Chromium	2	ug/L	U	2	8
10/11/2004 10:35	FIELD BLANK	Metals-Water	Copper	1	ug/L	U	1	4
10/11/2004 10:35	FIELD BLANK	Metals-Water	Iron	10	ug/L	U	10	40
10/11/2004 10:35	FIELD BLANK	Metals-Water	Lead	0.05	ug/L	U	0.05	0.2
10/11/2004 10:35	FIELD BLANK	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
10/11/2004 10:35	FIELD BLANK	Metals-Water	Nickel	2	ug/L	U	2	8
10/11/2004 10:35	FIELD BLANK	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
10/11/2004 10:35	FIELD BLANK	Metals-Water	Silver	0.01	ug/L	U	0.01	0.04
10/11/2004 10:35	FIELD BLANK	Metals-Water	Zinc	3	ug/L	U	3	12
10/11/2004 10:00	OUTFALL 001	Nutrients-Liquid	Ammonia-N	0.15	mg N/L		0.01	0.02
10/11/2004 10:00	OUTFALL 001	Nutrients-Liquid	Chloride	11,000	mg Cl/L		80	200
10/11/2004 10:00	OUTFALL 001	Nutrients-Liquid	Color	50	PCU		5	5
10/11/2004 10:00	OUTFALL 001	Nutrients-Liquid	Fluoride	0.83	mg F/L		0.05	0.1
10/11/2004 10:00	OUTFALL 001	Nutrients-Liquid	Kjeldahl Nitrogen	0.68	mg N/L		0.12	0.4
10/11/2004 10:00	OUTFALL 001	Nutrients-Liquid	NO2NO3-N	0.14	mg N/L		0.004	0.01
10/11/2004 10:00	OUTFALL 001	Nutrients-Liquid	O-Phosphate-P	0.33	mg P/L		0.04	0.1
10/11/2004 10:00	OUTFALL 001	Nutrients-Liquid	Sulfate	1,600	mg SO4/L		80	200
10/11/2004 10:00	OUTFALL 001	Nutrients-Liquid	TDS	20,500	mg/L		15	60
10/11/2004 10:00	OUTFALL 001	Nutrients-Liquid	TSS	24	mg/L		4	16
10/11/2004 10:00	OUTFALL 001	Nutrients-Liquid	Total-P	0.39	mg P/L		0.02	0.06
10/11/2004 10:00	OUTFALL 001	Nutrients-Liquid	Turbidity	2.1	NTU		0.05	0.05
10/11/2004 10:35	FIELD BLANK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
10/11/2004 10:35	FIELD BLANK	Nutrients-Liquid	Fluoride	0.05	mg F/L	U	0.05	0.1
10/11/2004 10:35	FIELD BLANK	Nutrients-Liquid	Kjeldahl Nitrogen	0.06	mg N/L	U	0.06	0.2
10/11/2004 10:35	FIELD BLANK	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01

10/11/2004 10:35	FIELD BLANK	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
10/11/2004 10:35	FIELD BLANK	Nutrients-Liquid	Sulfate	0.2	mg SO4/L	U	0.2	0.5
10/11/2004 10:35	FIELD BLANK	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06
10/11/2004 10:00	OUTFALL 001	Overflow	Alpha, Total	71.6	pCi/L	U		
10/11/2004 10:00	OUTFALL 001	Overflow	Alpha-Counting Error	43.2	pCi/L			
10/11/2004 10:00	OUTFALL 001	Overflow	Oil and Grease	2.5	mg/L	I		
10/11/2004 10:00	OUTFALL 001	Overflow	Radium 226	0.9	pCi/L			
10/11/2004 10:00	OUTFALL 001	Overflow	Radium 226-Counting Error	0.2	pCi/L			
10/11/2004 10:00	OUTFALL 001	Overflow	Radium 228	1	pCi/L	U		
10/11/2004 10:00	OUTFALL 001	Overflow	Radium 228-Counting Error	0.6	pCi/L			
10/11/2004 10:35	FIELD BLANK	Overflow	Alpha, Total	0.3	pCi/L	U		
10/11/2004 10:35	FIELD BLANK	Overflow	Alpha-Counting Error	0.2	pCi/L			
10/11/2004 10:35	FIELD BLANK	Overflow	Oil and Grease	3.4	mg/L	I		
10/11/2004 10:35	FIELD BLANK	Overflow	Radium 226	0.2	pCi/L			
10/11/2004 10:35	FIELD BLANK	Overflow	Radium 226-Counting Error	0.1	pCi/L			
10/11/2004 10:35	FIELD BLANK	Overflow	Radium 228	1.1	pCi/L	U		
10/11/2004 10:35	FIELD BLANK	Overflow	Radium 228-Counting Error	0.7	pCi/L			

The Bioassay of Yara North America, Inc., Port Sutton Terminal, effluent sampled on October 11, 2004, NPDES #FL0038652.

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



The Priority Pollutants Analysis for Bioassay of Yara North America, Inc., Port Sutton Terminal, effluent sampled on October 11, 2004, NPDES #FL0038652.

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

