

Bioassays of

The Minute Maid Company-Dunedin Plant

Dunedin, Pinellas County, Florida

NPDES #FL0000477

Sampled 8/12/02

April 2003

Biology Section

Division of Resource Assessment & Management

Comprehensive Quality Assurance Plan #870346G

Bioassays of

The Minute Maid Company-Dunedin Plant

Dunedin, Pinellas County, Florida

NPDES #FL0000477

Biology Section
Bureau of Laboratories
April 2003

The Minute Maid Company-Dunedin Plant, 427 San Christopher Drive, Dunedin, Pinellas County, Florida, NPDES #FL0000477, tests performed on 13 to 20 August 2002.

Introduction

This fruit juice blending and packaging facility has a design flow of 0.45 MGD and an average daily flow of 0.194 MGD (June 2001-May 2002). The wastewater of this facility consists of spilled product, boiler blowdown, defrost water, water used for cleaning processing equipment, well water used for cleaning the activated sludge treatment plant, and contaminated storm water. Wastewater treatment at this facility includes flow equalization, aeration, settling in a pond, and filtration prior to discharge into the Class III marine waters of St. Joseph Sound. A 20.2 meter mixing zone for chronic toxicity is present radially from the outfall (facility information provided by Andrea Grainger, FDEP, Tampa).

Methods

Samples were collected by Eli Landrau, and Melissa Gunter 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 discussed in this report were performed following FDEP Biology Section internal SOP's TA07-14 and TA07-15. All internal DEP SOP's are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp

For toxicity testing the effluent samples were diluted to 3.12% and salted to 10ppt using 40 fathoms artificial sea salts.

Toxicity Test Results

Americamysis bahia chronic screen – Not Toxic at 3.12% effluent dilution
Menidia beryllina chronic screen – Not Toxic at 3.12 % effluent dilution

See Table 1 and Table 2 for bioassay bench sheets.

Chemistry Results

Total residual chlorine was detected in the bioassay samples in the laboratory at concentrations of 0.05 mg/L in sample 1 collected on 8/12/02, 0.06 mg/L in sample 2 collected on 8/14/02, and 0.05 mg/L in sample 3 collected 8/16/02.

Total ammonia was not detected in the bioassay samples in the laboratory.

See Table 3 for chemicals detected in the analytical chemistry samples. The concentration of copper was detected at 3.0 ug/L, which exceeds the Class III Marine surface water quality criteria of 2.9 ug/L (62-302.530, Criteria for Surface Water Quality Classifications).

See Table 4 for a complete list of chemical analyses performed.

Conclusion

The samples of effluent collected from this facility on August 12, 14, and 16, 2002, did not show chronic toxicity to either test species during the chronic bioassay tests. The concentration of copper, 3.0 ug/L, detected in the chemistry samples exceeded the surface water quality criteria of 2.9 ug/L.

Table 1. Data recorded during the 48-hour acute screening bioassays of a sample of effluent from The Minute Maid Company-Dunedin Plant, 427 San Christopher Drive, Dunedin, Pinellas County, Florida, NPDES# FL0000477, performed from 13 to 20 August 2002.

Facility: **The Minute Maid Company-Dunedin Plant** | **NPDES # FL0000477** | Facility Type: **Fruit Juice blending and packaging** | **Analysts:** Marshall Faircloth
Location: 427 Christopher Drive, Dunedin | Contact/District: Grainger/SW | Joshua Ayres
County: Pinellas | Test type: chronic renewal screen | Gary Hardie
Sample #1 Collection Date: 8/12/2002 Time: 1025 | # tests: 2 | Receiving Water: St. Joseph Sound | Jacquelyn Brynda
Sample #2 Collection Date: 8/14/2002 Time: 1010 | Chlorination Type: non-chlorinated | Class III Marine waters
Sample #3 Collection Date: 8/16/2002 Time: 0941
Test Beginning Date: 8/13/2002 Time: 1510 | **Page 1 of 2**
Test Ending Date: 8/20/2002 Time: 1630 | **Reviewer:** David Whiting

Organism: ***Americamysis bahia*** Life stage: 7 days

	Sample/Diluent			Survival # Alive					
Concentrations	Volume(mL)	0 hr	24 hr	48 hr	72 hr	96 hr	120 hr	144 hr	168 hr
Control A	0/500	5	5	5	5	5	5	5	5
Control B	0/500	5	5	5	5	5	5	5	5
Control C	0/500	5	5	5	5	5	5	5	5
Control D	0/500	5	5	5	5	5	5	5	5
Control E	0/500	5	5	5	5	5	5	5	5
Control F	0/500	5	5	5	5	5	5	5	5
Control G	0/500	5	5	5	5	5	5	5	5
Control H	0/500	5	5	5	5	5	5	5	5
3.12% A	15/485	5	5	5	5	5	5	5	5
3.12% B	15/485	5	5	5	5	5	5	5	5
3.12% C	15/485	5	5	5	5	5	5	5	5
3.12% D	15/485	5	5	5	5	5	5	5	5
3.12% E	15/485	5	5	5	5	5	5	5	5
3.12% F	15/485	5	5	5	5	5	3	3	3
3.12% G	15/485	5	5	5	5	5	5	5	5
3.12% H	15/485	5	5	5	5	5	5	5	5

Concentrations	Mean Dry Weight
Control A	0.336
Control B	0.394
Control C	0.366
Control D	0.386
Control E	0.368
Control F	0.344
Control G	0.404
Control H	0.370
3.12% A	0.410
3.12% B	0.336
3.12% C	0.376
3.12% D	0.416
3.12% E	0.360
3.12% F	0.192
3.12% G	0.360
3.12% H	0.346

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 23.5-27.5°C.
Incubator #3 temperature range for the test period was 24.5-26.0°C.

Salinity [B]	ppt
unadjusted 100% sample:	1.47
[C]adjusted 3.12% sample:	10
Mysid control:	10

[B] Salinity based on conductivity and temperature.
[C] 3.12% sample was adjusted with 40 fathoms sea salts to 10ppt.

LIMS	
Job number 1:	TLH-2002-08-13-39
sample number 1:	613951
Job number 2:	TLH-2002-08-15-08
sample number 2:	614752
Job number 3:	TLH-2002-08-20-03
sample number 3:	615590

Data Transcription Verification	
date:	1/10/2003
by:	James Daniels
	Christa Pierini

Total Residual CL2 [D]	mg/L	Method
Field:	-	-
Lab Sample 1:	0.05	Hach
Lab Sample 2:	0.06	Hach
Lab Sample 3:	0.05	Hach

Ammonia [D]	Total (mg/L)	Unionized (mg/L)
Control water :	<0.017	<0.017
100% Sample 1:	<0.017	<0.017
100% Sample 2:	<0.017	<0.017
100% Sample 3:	<0.017	<0.017

Alk & Hardness [D]	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	180	-
100% Sample 1:	1400	45
100% Sample 2:	1242	42
100% Sample 3:	1350	40

[D] Measurements taken before salinity adjustment.

Continued

Table 1. Concluded

Data recorded during the 48-hour acute screening bioassays of a sample of effluent from The Minute Maid Company-Dunedin Plant, 427 San Christopher Drive, Dunedin, Pinellas County, Florida, NPDES# FL0000477, performed from 13 to 20 August 2002.

Facility:	**The Minute Maid Company-Dunedin Plant**		**NPDES # FL0000477**	Facility Type:	**Fruit Juice blending and packaging**	**Analysts:**	Marshall Faircloth
Location:	427 Christopher Drive, Dunedin		Contact/District:	Grainger/SW			Joshua Ayres
County:	Pinellas		Test type:	chronic renewal screen			Gary Hardie
Sample #1 Collection Date:	8/12/2002	Time: 1025	# tests:	2	Receiving Water:	St. Joseph Sound	Jacquelyn Brynda
Sample #2 Collection Date:	8/14/2002	Time: 1010	Chlorination Type:	non-chlorinated		Class III Marine waters	
Sample #3 Collection Date:	8/16/2002	Time: 0941					
Test Beginning Date:	8/13/2002	Time: 1510			**Page 2 of 2**		
Test Ending Date:	8/20/2002	Time: 1630				**Reviewer:**	David Whiting

Americamysis bahia			**Before Renewal**			Conductivity Uncorrected	**After Renewal[A]**			Conductivity Uncorrected
Concentrations	Replicate	Hour	pH	Temperature	Dissolved Oxygen	mmhos/cm	pH	Temperature	Dissolved Oxygen	mmhos/cm
Control	A	0	8.2	24.1	7.0	16.7	-	-	-	-
3.12%			8.2	24.1	7.0	16.5	-	-	-	-
Control	B	24	7.8	24.1	5.9	16.9	8.2	24.1	6.8	16.7
3.12%			7.9	24.0	6.0	16.9	8.2	24.1	6.8	16.6
Control	C	48	7.8	23.6	4.5	16.3	8.2	23.5	6.6	16.2
3.12%			7.9	23.6	4.3	16.5	8.2	23.9	6.7	16.0
Control	D	72	7.9	23.8	5.4	16.5	8.2	24.3	7.4	15.9
3.12%			8.0	23.7	5.4	16.1	8.2	24.2	6.8	15.8
Control	E	96	8.1	24.3	5.9	16.4	8.2	24.3	7.0	16.1
3.12%			8.1	24.1	5.9	16.0	8.2	24.4	7.1	16.0
Control	F	120	7.7	23.9	4.3	17.4	8.0	24.9	6.6	17.2
3.12%			7.7	24.4	3.6	16.4	8.1	24.9	6.6	17.1
Control	G	144	7.8	25.3	5.2	17.9	8.1	25.3	6.9	17.4
3.12%			7.9	24.8	5.0	17.7	8.2	25.1	6.8	17.3
Control	H	168	8.0	24.4	5.9	17.6	-	-	-	-
3.12%			8.1	24.5	5.5	17.8	-	-	-	-

[A] There was no renewal at the start of the test or the end of the test.

Data Transcription Verification	
date:	1/10/2003
by:	Christa Pierini
	James Daniels

Table 2. Data recorded during the 48-hour acute screening bioassays of a sample of effluent from The Minute Maid Company-Dunedin Plant, 427 San Christopher Drive, Dunedin, Pinellas County, Florida, NPDES# FL0000477, performed from 13 to 20 August 2002.

Facility:	**The Minute Maid Company-Dunedin Plant**		**NPDES # FL0000477**	Facility Type:	**Fruit Juice blending and packaging**	**Analysts:**	Marshall Faircloth
Location:	427 Christopher Drive, Dunedin		Contact/District:	Grainger/SW			Joshua Ayres
County:	Pinellas		Test type:	chronic renewal screen			Gary Hardie
Sample #1 Collection Date:	8/12/2002	Time: 1025	# tests:	2	Receiving Water:	St. Joseph Sound	Jacquelyn Brynda
Sample #2 Collection Date:	8/14/2002	Time: 1010	Chlorination Type:	non-chlorinated		Class III Marine waters	
Sample #3 Collection Date:	8/16/2002	Time: 0941					
Test Beginning Date:	8/13/2002	Time: 1510			**Page 1 of 1**		
Test Ending Date:	8/20/2002	Time: 1630				**Reviewer:**	David Whiting

Organism: ***Menidia beryllina*** Life stage: 11 days

Concentrations	Sample/Diluent Volume(mL)	Survival # Alive 0 hr	24 hr	48 hr	72 hr	96 hr	120 hr	144 hr	168 hr
Control A	0/500	10	10	10	10	10	10	10	10
Control B	0/500	10	10	10	10	10	10	10	10
Control C	0/500	10	10	10	10	10	10	10	10
Control D	0/500	10	10	10	10	10	10	10	10
3.12% A	15/485	10	10	10	10	10	10	10	10
3.12% B	15/485	10	10	10	10	10	10	10	10
3.12% C	15/485	10	10	10	10	10	10	10	10
3.12% D	15/485	10	10	10	10	10	10	10	10

Concentrations	Mean Dry Weight
Control A	4.264
Control B	4.089
Control C	4.568
Control D	4.365
3.12% A	3.904
3.12% B	3.845
3.12% C	4.279
3.12% D	4.581

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 23.5-27.5°C.
Incubator #3 temperature range for the test period was 24.5-26.0°C.

			Before Renewal			Conductivity Uncorrected	After Renewal			Conductivity Uncorrected
Concentrations	Replicate	Hour	pH	Temperature	Dissolved Oxygen	mmhos/cm	pH	Temperature	Dissolved Oxygen	mmhos/cm
Control	A	0	8.2	24.2	6.9	16.9	-	-	-	-
3.12%			8.2	24.2	6.9	16.6	-	-	-	-
Control	B	24	7.8	23.9	6.0	17.5	8.2	24.1	6.8	16.6
3.12%			8.0	24.0	5.9	17.2	8.2	24.1	6.8	16.5
Control	C	48	7.9	23.6	5.4	17.2	8.2	23.9	7.1	16.7
3.12%			8.0	23.7	5.2	16.7	8.2	24.4	7.0	16.0
Control	D	72	8.0	23.9	5.7	16.4	8.2	24.0	6.8	15.7
3.12%			8.0	23.9	4.9	16.0	8.2	24.3	6.8	15.8
Control	A	96	7.9	25.4	5.2	16.0	8.1	24.6	7.3	16.1
3.12%			8.0	25.3	5.2	16.1	8.2	24.7	7.4	16.1
Control	B	120	7.7	25.5	3.6	17.3	8.2	24.7	6.9	17.5
3.12%			7.7	25.7	4.2	16.9	8.2	24.7	6.8	17.1
Control	C	144	7.8	25.4	4.6	17.9	8.2	25.1	6.9	18.0
3.12%			7.9	25.5	4.7	17.7	8.2	25.2	7.0	17.6
Control	D	168	7.9	25.5	4.7	17.8	-	-	-	-
3.12%			8.0	25.7	4.8	17.7	-	-	-	-

LIMS	
Job number 1:	TLH-2002-08-13-39
sample number 1:	613951
Job number 2:	TLH-2002-08-15-08
sample number 2:	614752
Job number 3:	TLH-2002-08-20-03
sample number 3:	615590

Data Transcription Verification	
date:	1/10/2003
by:	James Daniels
	Christa Pierini

Total Residual CL2 [B]	mg/L	Method
Field:	-	-
Lab Sample 1:	0.05	Hach
Lab Sample 2:	0.06	Hach
Lab Sample 3:	0.05	Hach

Ammonia [B]	Total (mg/L)	Unionized (mg/L)
Control water :	<0.017	<0.017
100% Sample 1:	<0.017	<0.017
100% Sample 2:	<0.017	<0.017
100% Sample 3:	<0.017	<0.017

Alk & Hardness [B]	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	180	-
100% Sample 1:	-	45
100% Sample 2:	1242	42
100% Sample 3:	1350	40

[B] Measurements taken before salinity adjustment.

Salinity [C]	ppt
unadjusted 100% sample:	1.47
[D]adjusted 3.12% sample:	10
Menidia control:	10

[C] Salinity based on conductivity and temperature.
[D] 3.12% sample was adjusted with 40 fathoms sea salts to 10ppt.

Table 3. Results of chemical analyses on the effluent from The Minute Maid Company-Dunedin plant sampled on August 12, 2002.

Metals

Aluminum	117	ug/L	
Cadmium	0.034	ug/L	I
Calcium	9.4	mg/L	
Copper	3	ug/L	
Iron	58	ug/L	J
Lead	0.2	ug/L	I
Magnesium	5.3	mg/L	
Zinc	36.4	ug/L	

Pesticides and Herbicides

None detected

Nutrients

Ammonia-N	0.075	mg N/L
Nitrates and Nitrites	0.07	mg N/L
Total Kjeldahl Nitrogen	2.5	mg N/L
Ortho-Phosphate	1.6	mg P/L
Total Phosphorous	1.6	mg P/L

Base, Neutral, & Acid Extractable Organics

None detected

[J] The reported value is an estimated value.
[I] The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Table 4. Chemical Analysis performed on the effluent from The Minute Maid Company-Dunedin Plant, sampled on August 12, 2002.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
8/12/2002 10:25	27603	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	1,2,4-Trichlorobenzene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	1,2-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	1,3,5-Trinitrobenzene	3.9	ug/L	U	3.9	16
8/12/2002 10:25	27603	BNA-Water	1,3-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.8
8/12/2002 10:25	27603	BNA-Water	1,4-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	1,4-Naphthoquinone	19	ug/L	U	19	78
8/12/2002 10:25	27603	BNA-Water	1-Naphthylamine	9.7	ug/L	U	9.7	39
8/12/2002 10:25	27603	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.8
8/12/2002 10:25	27603	BNA-Water	2,4,5-Trichlorophenol	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	2,4,6-Trichlorophenol	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	2,4-Dichlorophenol	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	190
8/12/2002 10:25	27603	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	58
8/12/2002 10:25	27603	BNA-Water	2,4-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	2,6-Dichlorophenol	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	2,6-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	2-Acetylaminofluorene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	2-Chloronaphthalene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	2-Chlorophenol	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
8/12/2002 10:25	27603	BNA-Water	2-Methylnaphthalene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	2-Naphthylamine	9.7	ug/L	U	9.7	39
8/12/2002 10:25	27603	BNA-Water	2-Nitroaniline	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	2-Nitrophenol	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	2-Picoline	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
8/12/2002 10:25	27603	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	U	19	78
8/12/2002 10:25	27603	BNA-Water	3-Methylcholanthrene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	3-Nitroaniline	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.8
8/12/2002 10:25	27603	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.8

8/12/2002 10:25	27603	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.8
8/12/2002 10:25	27603	BNA-Water	4-Aminobiphenyl	3.9	ug/L	U	3.9	16
8/12/2002 10:25	27603	BNA-Water	4-Bromophenyl phenyl ether	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	4-Chloro-3-methylphenol	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	4-Chloroaniline	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.8
8/12/2002 10:25	27603	BNA-Water	4-Nitroaniline	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	4-Nitrophenol	15	ug/L	U	15	58
8/12/2002 10:25	27603	BNA-Water	5-Nitro-o-toluidine	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Acenaphthene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Acenaphthylene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Acetophenone	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.8
8/12/2002 10:25	27603	BNA-Water	Aniline	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Anthracene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Azobenzene/1,2-Diphenylhydrazir	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Benzidine	97	ug/L	U	97	390
8/12/2002 10:25	27603	BNA-Water	Benzo(a)anthracene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Benzo(a)pyrene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Benzo(b)fluoranthene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Benzo(g,h,i)perylene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Benzo(k)fluoranthene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Benzyl alcohol	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Bis(2-chloroethoxy)methane	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Bis(2-chloroethyl)ether	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
8/12/2002 10:25	27603	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	58
8/12/2002 10:25	27603	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	19
8/12/2002 10:25	27603	BNA-Water	Chrysene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	19
8/12/2002 10:25	27603	BNA-Water	Di-n-octyl phthalate	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Dibenzo(a,h)anthracene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Dibenzofuran	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.8
8/12/2002 10:25	27603	BNA-Water	Diethyl phthalate	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	190

8/12/2002 10:25	27603	BNA-Water	Dimethylaminoazobenzene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Dinoseb	3.9	ug/L	U	3.9	16
8/12/2002 10:25	27603	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
8/12/2002 10:25	27603	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
8/12/2002 10:25	27603	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
8/12/2002 10:25	27603	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.8
8/12/2002 10:25	27603	BNA-Water	Endrin	1.5	ug/L	U	1.5	5.8
8/12/2002 10:25	27603	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
8/12/2002 10:25	27603	BNA-Water	Ethyl methanesulfonate	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Fluoranthene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Fluorene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.8
8/12/2002 10:25	27603	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.8
8/12/2002 10:25	27603	BNA-Water	Hexachlorobenzene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
8/12/2002 10:25	27603	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
8/12/2002 10:25	27603	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
8/12/2002 10:25	27603	BNA-Water	Hexachloropropene	1.9	ug/L	U	1.9	7.8
8/12/2002 10:25	27603	BNA-Water	Indeno(1,2,3-cd)pyrene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Isophorone	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Isosafrole	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Methapyrilene	3.9	ug/L	U	3.9	16
8/12/2002 10:25	27603	BNA-Water	Methyl methanesulfonate	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	N-Nitrosodi-n-butylamine	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.8
8/12/2002 10:25	27603	BNA-Water	N-Nitrosodiethylamine	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.8
8/12/2002 10:25	27603	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
8/12/2002 10:25	27603	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.8
8/12/2002 10:25	27603	BNA-Water	N-Nitrosomorpholine	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	N-Nitrosopiperidine	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.8
8/12/2002 10:25	27603	BNA-Water	Naphthalene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.8
8/12/2002 10:25	27603	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	78
8/12/2002 10:25	27603	BNA-Water	Pentachlorobenzene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Pentachloroethane	49	ug/L	U	49	190

8/12/2002 10:25	27603	BNA-Water	Pentachloronitrobenzene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
8/12/2002 10:25	27603	BNA-Water	Phenacetin	3.9	ug/L	U	3.9	12
8/12/2002 10:25	27603	BNA-Water	Phenanthrene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Phenol	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Pyrene	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	Pyridine	3.9	ug/L	U	3.9	16
8/12/2002 10:25	27603	BNA-Water	Safrole	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.8
8/12/2002 10:25	27603	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.8
8/12/2002 10:25	27603	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.8
8/12/2002 10:25	27603	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.8
8/12/2002 10:25	27603	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.8
8/12/2002 10:25	27603	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.8
8/12/2002 10:25	27603	BNA-Water	o-Toluidine	0.97	ug/L	U	0.97	3.9
8/12/2002 10:25	27603	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.32
8/12/2002 10:25	27603	GC-Water	Ametryn	0.049	ug/L	U	0.049	0.196
8/12/2002 10:25	27603	GC-Water	Atrazine	0.049	ug/L	U	0.049	0.196
8/12/2002 10:25	27603	GC-Water	Azinphos Methyl	0.049	ug/L	U	0.049	0.196
8/12/2002 10:25	27603	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
8/12/2002 10:25	27603	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
8/12/2002 10:25	27603	GC-Water	Chlorpyrifos Ethyl	0.049	ug/L	U	0.049	0.196
8/12/2002 10:25	27603	GC-Water	Chlorpyrifos Methyl	0.097	ug/L	U	0.097	0.388
8/12/2002 10:25	27603	GC-Water	Diazinon	0.049	ug/L	U	0.049	0.196
8/12/2002 10:25	27603	GC-Water	Ethion	0.049	ug/L	U	0.049	0.196
8/12/2002 10:25	27603	GC-Water	Ethoprop	0.097	ug/L	U	0.097	0.388
8/12/2002 10:25	27603	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
8/12/2002 10:25	27603	GC-Water	Fonofos	0.097	ug/L	U	0.097	0.388
8/12/2002 10:25	27603	GC-Water	Hexazinone	0.097	ug/L	U	0.097	0.388
8/12/2002 10:25	27603	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
8/12/2002 10:25	27603	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
8/12/2002 10:25	27603	GC-Water	Metolachlor	0.49	ug/L	U	0.49	1.96
8/12/2002 10:25	27603	GC-Water	Metribuzin	0.097	ug/L	U	0.097	0.388
8/12/2002 10:25	27603	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
8/12/2002 10:25	27603	GC-Water	Naled	0.78	ug/L	U	0.78	3.12
8/12/2002 10:25	27603	GC-Water	Norflurazon	0.097	ug/L	U	0.097	0.388
8/12/2002 10:25	27603	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6

8/12/2002 10:25	27603	GC-Water	Parathion Methyl	0.097	ug/L	U	0.097	0.388
8/12/2002 10:25	27603	GC-Water	Phorate	0.049	ug/L	U	0.049	0.196
8/12/2002 10:25	27603	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
8/12/2002 10:25	27603	GC-Water	Simazine	0.049	ug/L	U	0.049	0.196
8/12/2002 10:25	27603	Metals-Water	Aluminum	117	ug/L		5	20
8/12/2002 10:25	27603	Metals-Water	Arsenic	3	ug/L	U	3	12
8/12/2002 10:25	27603	Metals-Water	Cadmium	0.034	ug/L	I	0.025	0.1
8/12/2002 10:25	27603	Metals-Water	Calcium	9.4	mg/L		0.02	0.08
8/12/2002 10:25	27603	Metals-Water	Chromium	2	ug/L	U	2	8
8/12/2002 10:25	27603	Metals-Water	Copper	3	ug/L		0.75	3
8/12/2002 10:25	27603	Metals-Water	Iron	58	ug/L	J	7	28
8/12/2002 10:25	27603	Metals-Water	Lead	0.2	ug/L	I	0.1	0.4
8/12/2002 10:25	27603	Metals-Water	Magnesium	5.3	mg/L		0.01	0.04
8/12/2002 10:25	27603	Metals-Water	Nickel	1.5	ug/L	U	1.5	6
8/12/2002 10:25	27603	Metals-Water	Selenium	1	ug/L	U	1	4
8/12/2002 10:25	27603	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
8/12/2002 10:25	27603	Metals-Water	Zinc	36.4	ug/L		2	8
8/12/2002 10:25	27603	Nutrients-Liquid	Ammonia-N	0.075	mg N/L		0.01	0.02
8/12/2002 10:25	27603	Nutrients-Liquid	NO2NO3-N	0.07	mg N/L		0.004	0.01
8/12/2002 10:25	27603	Nutrients-Liquid	N_KJEL_TOT	2.5	mg N/L		0.06	0.2
8/12/2002 10:25	27603	Nutrients-Liquid	O-Phosphate-P	1.6	mg P/L		0.08	0.2
8/12/2002 10:25	27603	Nutrients-Liquid	Total-P	1.6	mg P/L		0.075	0.4
8/12/2002 10:27	27604	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	1,2,4-Trichlorobenzene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	1,2-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	1,3,5-Trinitrobenzene	3.8	ug/L	U	3.8	15
8/12/2002 10:27	27604	BNA-Water	1,3-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.7
8/12/2002 10:27	27604	BNA-Water	1,4-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	1,4-Naphthoquinone	19	ug/L	U	19	77
8/12/2002 10:27	27604	BNA-Water	1-Naphthylamine	9.6	ug/L	U	9.6	38
8/12/2002 10:27	27604	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.7
8/12/2002 10:27	27604	BNA-Water	2,4,5-Trichlorophenol	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	2,4,6-Trichlorophenol	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	2,4-Dichlorophenol	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
8/12/2002 10:27	27604	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	58

8/12/2002 10:27	27604	BNA-Water	2,4-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	2,6-Dichlorophenol	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	2,6-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	2-Acetylaminofluorene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	2-Chloronaphthalene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	2-Chlorophenol	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
8/12/2002 10:27	27604	BNA-Water	2-Methylnaphthalene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	2-Naphthylamine	9.6	ug/L	U	9.6	38
8/12/2002 10:27	27604	BNA-Water	2-Nitroaniline	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	2-Nitrophenol	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	2-Picoline	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
8/12/2002 10:27	27604	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	U	19	77
8/12/2002 10:27	27604	BNA-Water	3-Methylcholanthrene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	3-Nitroaniline	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.8
8/12/2002 10:27	27604	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.8
8/12/2002 10:27	27604	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.8
8/12/2002 10:27	27604	BNA-Water	4-Aminobiphenyl	3.8	ug/L	U	3.8	15
8/12/2002 10:27	27604	BNA-Water	4-Bromophenyl phenyl ether	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	4-Chloro-3-methylphenol	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	4-Chloroaniline	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.7
8/12/2002 10:27	27604	BNA-Water	4-Nitroaniline	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	4-Nitrophenol	14	ug/L	U	14	58
8/12/2002 10:27	27604	BNA-Water	5-Nitro-o-toluidine	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Acenaphthene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Acenaphthylene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Acetophenone	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.8
8/12/2002 10:27	27604	BNA-Water	Aniline	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Anthracene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Azobenzene/1,2-Diphenylhydrazir	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Benzidine	96	ug/L	U	96	380
8/12/2002 10:27	27604	BNA-Water	Benzo(a)anthracene	0.96	ug/L	U	0.96	3.8

8/12/2002 10:27	27604	BNA-Water	Benzo(a)pyrene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Benzo(b)fluoranthene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Benzo(g,h,i)perylene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Benzo(k)fluoranthene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Benzyl alcohol	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Bis(2-chloroethoxy)methane	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Bis(2-chloroethyl)ether	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
8/12/2002 10:27	27604	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	58
8/12/2002 10:27	27604	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
8/12/2002 10:27	27604	BNA-Water	Chrysene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
8/12/2002 10:27	27604	BNA-Water	Di-n-octyl phthalate	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Dibenzo(a,h)anthracene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Dibenzofuran	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.8
8/12/2002 10:27	27604	BNA-Water	Diethyl phthalate	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
8/12/2002 10:27	27604	BNA-Water	Dimethylaminoazobenzene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Dinoseb	3.8	ug/L	U	3.8	15
8/12/2002 10:27	27604	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
8/12/2002 10:27	27604	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
8/12/2002 10:27	27604	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
8/12/2002 10:27	27604	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.8
8/12/2002 10:27	27604	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.8
8/12/2002 10:27	27604	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
8/12/2002 10:27	27604	BNA-Water	Ethyl methanesulfonate	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Fluoranthene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Fluorene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.8
8/12/2002 10:27	27604	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.8
8/12/2002 10:27	27604	BNA-Water	Hexachlorobenzene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
8/12/2002 10:27	27604	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
8/12/2002 10:27	27604	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
8/12/2002 10:27	27604	BNA-Water	Hexachloropropene	1.9	ug/L	U	1.9	7.7
8/12/2002 10:27	27604	BNA-Water	Indeno(1,2,3-cd)pyrene	0.96	ug/L	U	0.96	3.8

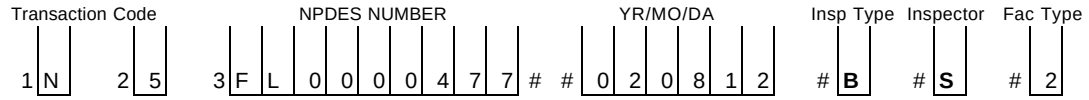
8/12/2002 10:27	27604	BNA-Water	Isophorone	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Isosafrole	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Methapyrilene	3.8	ug/L	U	3.8	15
8/12/2002 10:27	27604	BNA-Water	Methyl methanesulfonate	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	N-Nitrosodi-n-butylamine	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.7
8/12/2002 10:27	27604	BNA-Water	N-Nitrosodiethylamine	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.7
8/12/2002 10:27	27604	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
8/12/2002 10:27	27604	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.7
8/12/2002 10:27	27604	BNA-Water	N-Nitrosomorpholine	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	N-Nitrosopiperidine	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.7
8/12/2002 10:27	27604	BNA-Water	Naphthalene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.7
8/12/2002 10:27	27604	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	77
8/12/2002 10:27	27604	BNA-Water	Pentachlorobenzene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Pentachloroethane	48	ug/L	U	48	190
8/12/2002 10:27	27604	BNA-Water	Pentachloronitrobenzene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
8/12/2002 10:27	27604	BNA-Water	Phenacetin	3.8	ug/L	U	3.8	12
8/12/2002 10:27	27604	BNA-Water	Phenanthrene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Phenol	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Pyrene	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	Pyridine	3.8	ug/L	U	3.8	15
8/12/2002 10:27	27604	BNA-Water	Safrole	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.8
8/12/2002 10:27	27604	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.8
8/12/2002 10:27	27604	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.8
8/12/2002 10:27	27604	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.8
8/12/2002 10:27	27604	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.7
8/12/2002 10:27	27604	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.7
8/12/2002 10:27	27604	BNA-Water	o-Toluidine	0.96	ug/L	U	0.96	3.8
8/12/2002 10:27	27604	GC-Water	Alachlor	0.57	ug/L	U	0.57	2.28
8/12/2002 10:27	27604	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.192
8/12/2002 10:27	27604	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.192
8/12/2002 10:27	27604	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.192

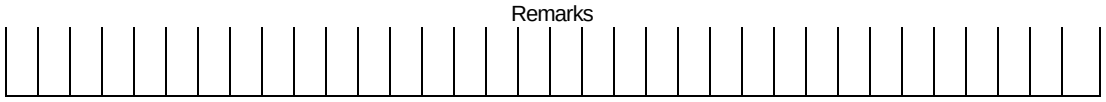
8/12/2002 10:27	27604	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
8/12/2002 10:27	27604	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
8/12/2002 10:27	27604	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.192
8/12/2002 10:27	27604	GC-Water	Chlorpyrifos Methyl	0.095	ug/L	U	0.095	0.38
8/12/2002 10:27	27604	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.192
8/12/2002 10:27	27604	GC-Water	Ethion	0.048	ug/L	U	0.048	0.192
8/12/2002 10:27	27604	GC-Water	Ethoprop	0.095	ug/L	U	0.095	0.38
8/12/2002 10:27	27604	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
8/12/2002 10:27	27604	GC-Water	Fonofos	0.095	ug/L	U	0.095	0.38
8/12/2002 10:27	27604	GC-Water	Hexazinone	0.095	ug/L	U	0.095	0.38
8/12/2002 10:27	27604	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
8/12/2002 10:27	27604	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
8/12/2002 10:27	27604	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.92
8/12/2002 10:27	27604	GC-Water	Metribuzin	0.095	ug/L	U	0.095	0.38
8/12/2002 10:27	27604	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
8/12/2002 10:27	27604	GC-Water	Naled	0.76	ug/L	U	0.76	3.04
8/12/2002 10:27	27604	GC-Water	Norflurazon	0.095	ug/L	U	0.095	0.38
8/12/2002 10:27	27604	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
8/12/2002 10:27	27604	GC-Water	Parathion Methyl	0.095	ug/L	U	0.095	0.38
8/12/2002 10:27	27604	GC-Water	Phorate	0.048	ug/L	U	0.048	0.192
8/12/2002 10:27	27604	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
8/12/2002 10:27	27604	GC-Water	Simazine	0.048	ug/L	U	0.048	0.192
8/12/2002 10:27	27604	Metals-Water	Aluminum	20	ug/L	U	5	20
8/12/2002 10:27	27604	Metals-Water	Arsenic	3	ug/L	U	3	12
8/12/2002 10:27	27604	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
8/12/2002 10:27	27604	Metals-Water	Calcium	0.02	mg/L	U	0.02	0.08
8/12/2002 10:27	27604	Metals-Water	Chromium	2	ug/L	U	2	8
8/12/2002 10:27	27604	Metals-Water	Copper	0.75	ug/L	U	0.75	3
8/12/2002 10:27	27604	Metals-Water	Iron	7	ug/L	U	7	28
8/12/2002 10:27	27604	Metals-Water	Lead	0.1	ug/L	U	0.1	0.4
8/12/2002 10:27	27604	Metals-Water	Magnesium	0.01	mg/L	U	0.01	0.04
8/12/2002 10:27	27604	Metals-Water	Nickel	1.5	ug/L	U	1.5	6
8/12/2002 10:27	27604	Metals-Water	Selenium	1	ug/L	U	1	4
8/12/2002 10:27	27604	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
8/12/2002 10:27	27604	Metals-Water	Zinc	2	ug/L	U	2	8
8/12/2002 10:27	27604	Nutrients-Liquid	Ammonia-N	0.027	mg N/L		0.01	0.02
8/12/2002 10:27	27604	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01

8/12/2002 10:27	27604	Nutrients-Liquid	N_KJEL_TOT	0.06	mg	N/L	U	0.06	0.2
8/12/2002 10:27	27604	Nutrients-Liquid	O-Phosphate-P	0.004	mg	P/L	U	0.004	0.01
8/12/2002 10:27	27604	Nutrients-Liquid	Total-P	0.004	mg	P/L	U	0.004	0.01

The Bioassay of The Minute Maid Company-Dunedin Plant effluent sampled on August 12, 2002, NPDES #FL0000477.

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

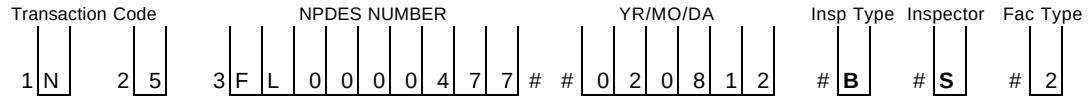


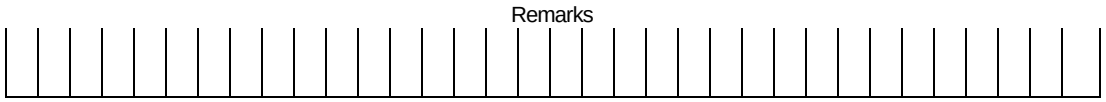


#

The Priority Pollutants Analysis for Bioassay of The Minute Maid Company-Dunedin Plant effluent sampled on August 12, 2002, NPDES #FL0000477.

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





#