

Bioassays of

Eagle Picher Industries, Inc.,
Ground Water Treatment System

Duval County

NPDES #FL0167061

Sampled April 11, 2005

June 2005

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Eagle Picher Industries, Inc., Ground Water Treatment System, 5901 West Beaver Street, Jacksonville, Duval County, Florida, NPDES #FL0167061. Effluent samples for this facility were collected on April 11, 2005.

Introduction

The Eagle Picher Industries, Inc., Ground Water Treatment System is a ground water remediation system providing air stripping and activated carbon treatment of ground waters contaminated with paint and solvent related products. The facility has a maximum permitted flow of 0.018 million gallons per day (MGD). The annual average flow was 784 gallons per day from April 2004 – March 2005. Contaminated groundwater is treated by air stripping, pH adjustment with sodium hydroxide, sand filtration, and filtration through two activated-carbon filters in series. The waste stream does not receive chlorination. Treated effluent is discharged through a 5.08 cm (2 inch) pipe at Outfall D-001 (latitude 30º 19' 33.6" N, longitude 81º 45' 1.1" W) into an unnamed creek thence into the Class III freshwaters of the Cedar River. This facility does not have any mixing zones.

In 1997, several toxicity tests showed unacceptable toxicity. An enforcement case in 1997 (due to low pH values) caused the treatment system to be modified to include pH adjustment. No toxicity issues have been observed since 1997. The sampling event of January 24, 2005, was cancelled due to a system shutdown caused by a malfunctioning pump. There was no discharge during the shutdown (facility information provided by Jeremy RiCharde of FDEP Northeast District).

Methods

Samples were collected from the D-001 NPDES sampling point by Jeremy RiCharde and Eesa Ali (FDEP Northeast District) following DEP-SOP-001/01 FS 2400 Wastewater Sampling. All DEP SOP's are available on the web at: http://www.floridadep.org/labs/qa/sops.htm

The 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.

Toxicity Test Results

Tests were performed April 12 - 14, 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%, 0%* mortality in 100% sample at 48 hours

The 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 0.907 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. Nitrogen was not detected in the sample. The predicted AGP based on the ortho-phosphate concentration was 4.73 (±20%) mg dry wt/L (Table 1; Miller et al. 1978).

See Table 1 for AGP results.

Chemistry Results

Total residual chlorine and total ammonia were not detected in the bioassay sample in the laboratory. Total ammonia was not detected in the sample collected and preserved for chemical analysis.

Aluminum and iron were detected in the effluent at levels that comply with Class III fresh water quality criteria.

The effluent dissolved oxygen concentration (3.2 mg/L) did not meet the Freshwater Quality Standard of ≥5 mg/L (62-302.530(31), F.A.C.).

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 D-001 for this facility on April 11, 2005, were not acutely toxic to either test species during the 48-hour bioassays. The effluent AGP result was less than the "problem” threshold for fresh receiving waters. The effluent dissolved concentration did not meet the Freshwater Quality criterion. Effluent water quality samples did not violate any permit conditions.

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 wt/L) of Pseudokirchneriella subcapitata *for ortho phosphate (OP) limitation for the sample of effluent collected from Eagle Picher Industries on April 11, 2005.*

Location	AGP (measured)	Predicted AGP (OP) ± 20%	N:P ratio
Effluent Samples	0.907	4.73 ± 0.946	*

* N:P ratios could not be calculated because nitrogen was not detected in the effluent sample.

Table 2. Effluent limits, Class III Freshwater Criteria and chemical data for samples collected from Eagle Picher Industries on April 11, 2005.

Eagle Picher Industries NPDES # FL0167061	Class III Stds	Effluent Limits	Effluent Samples
Organic Constituents (µg/L)			
None Detected	-	-	-
Metals (µg/L unless otherwise noted)			
Aluminum	-	-	66
Arsenic	≤ 50	-	6 U
Cadmium	≤ 0.7 b	-	0.075 U
Calcium (mg/L)	-	-	13.2
Chromium-III	≤ 51.7 b	-	2 U
Copper	≤ 5.5 b	-	1.2 U
Iron	≤ 1000	-	896
Lead	≤ 1.4 b	-	0.075 U
Magnesium (mg/L)	-	-	5
Nickel	≤ 30.8 b	-	2 U
Selenium	≤ 5	-	0.5 U
Silver	≤ 0.07	-	0.025 U
Zinc	≤ 70.6 b	-	3 U
Nutrients (mg/L)			
Ortho-phosphate	-	-	0.011
Total Phosphorus	-	-	0.02 U
Ammonia	-	-	0.01 U
Unionized Ammonia	≤ 0.02	-	<0.02 U
Nitrate+Nitrite	-	-	0.004 U
Total Kjeldahl Nitrogen	-	-	0.06 U
Organic Nitrogen	-	-	0 c
Total Nitrogen	-	-	0 c
General Physical and Chemical Parameters			
Dissolved Oxygen (mg/L)	≥ 5	-	3.2
pH (S.U.)	6.0-8.5	6.0-8.5	8.4
Conductivity (umhos/cm)	≤ 1275	-	184
Temperature (C)	-	-	20.8
Hardness (mg/L)	-	-	53.6 c

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

b - Value is calculated based on hardness

c - calculated value

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

FDEP Biology Section - Acute
Bioassay Bench Sheets

Facility: Former Eagle Picher Industries

Address: 5901 West Beaver St.

City: Jacksonville County: Duval

Contact/District: Pat O'Connor / Northeast District

NPDES Permit #: FL 0167061

LIMS Job #: TLH-2005-04-12-03 LIMS Sample #: 827389

Sample Collection: Date: 4-11-05 Time: 1023

Hold time Start: Date: 4-11-05 Time: 1023

Comments:

Lims Data Entry: 4-19-05 MF Data Entry Verification: 4-19-05 SP

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

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

Temperature Range °C
Incubator # 3 Range 24.7-25.1
Room B246: 23.6 - 24.3
Waterbath: N/A

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

Sarah Pickard

Deanna McClellan

Marshall Fairchild

James Daniel

REVIEWER

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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		—	MF
Lab Total Residual Cl2 (mg/L):	<0.03	<0.03				<0.03	HACH	SP	DN
Alkalinity (mg/L as $CaCO_3$):	90	145				31	HACH	SP	JD
Hardness (mg/L as $CaCO_3$):	82	129				54	HACH	SP	JD
Total Ammonia (mg/L as N):	<0.017	<0.017				<0.017	DENVER	DN	SP
Salinity (ppth):	<1	<1				<1	YSI Mettler	DN	MF

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Appendix 1. Bench Sheets (continued)

FDEP Biology Section - - Bioassay Bench Sheet
Survival

LIMS Sample #: 827389 Test #: 1 Test Started: Date 04/12/05 Time: 1300
Organism: C. dubia Test Ended: Date 04/14/05 Time: 1100
Organism Batch: 11-05 Diluent/ Batch: DMW / 11-05
Organism Age: <24 hr Food: (YCT) (P. subcapitata) Artemia
Chamber Size 30 mL Batch: 5 43 ~~3513841256R~~ SP
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 5 DN	5	5	5			
	B	B 5	5	5	5			
	C	C 5	5	5	5			
	D	D 5	5	5	5			
100%	A	A 5	5	5	5			
	B	B 5	5	5	5			
	C	C 5	5	5	5			
	D	D 5	5	5	5			
Organisms loaded by: DN		Checked by:		DN	SP			

Loading verified at 0 hours by: SP DN (initials)

Comments:

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

Test Results:

% mortality in 100% sample Ø

LC_{50}: >100 If Calculated: 95% CI _____ Method: _____

Screening Tests: Report LC50 as >100%, =100%, or <100%.
Substitue highest test concentration used if other than 100% (example: Ocean outfall tested at 30% concentration).

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Appendix 1. Bench Sheets (continued)

FDEP Biology Section - - Bioassay Bench Sheet

Survival

12 incorrect date mF 4-19-05

LIMS Sample #: 827389 Test #: 2 Test Started: Date 4/4/05 Time: 1230

Organism: C. leedsi Test Ended: Date 04/14/05 Time: 1100

Organism Batch: 11-05 Diluent/ Batch: Well / NA

Organism Age: 13 days Food: YCT P. subcapitata Artemia (circled)

Chamber Size 100c mL Batch: ___ ___ 35138425GR

Test Volume 500 mL Feeding: Prior to test (circled) - 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	B1	5	5	5			
	B	B2	5	5	5			
	C	B3	5	5	5			
	D	B4	5	5	5			
100%	A	B5	5	5	5			
	B	B6	5	5	5			
	C	B7	5	5	5			
	D	B8	5	5	5			
Organisms loaded by: JJ		Checked by: (initials)		JJ	JJ			

Loading verified at 0 hours by: SR

Comments:

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

Test Results:

% mortality in 100% sample Ø

LC_{50}: >100 If Calculated: 95% CI________ Method:________

Screening Tests: Report LC50 as >100%, =100%, or <100%.

Substitue highest test concentration used if other than 100% (example: Ocean outfall tested at 30% concentration).

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Appendix 1. Bench Sheets (continued)

Bioassay Parameters

LIMS Sample #: BJ7283 Test #: 1 of 2

TEST SOP: TA07_03 Test Species: *Ceriodaphnia dubia* *Cyprinella leedsi* *Pimephales promelas*
Americamysis bahia *Menidia beryllina* Other:

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Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		B			
pH (S.U.)	7.8		7.9			
Temperature °C	24.0		24.1			
Dissolved Oxygen mg/L	7.4		7.6			
Conductivity (µmhos) mmhos	170		190			
(initials) Measured by:	DN		DN			
(initials) Recorded by:	DN		DN			

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		B			
pH (S.U.)	8.0		7.9			
Temperature °C	24.0		24.1			
Dissolved Oxygen mg/L	6.8		7.9			
Conductivity (µmhos) mmhos	180		305	30 (Measured after renewal)		
(initials) Measured by:	DN		DN			
(initials) Recorded by:	DN		DN			

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 # : 827389 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 CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	7.8	8.2	8.4			
Temperature °C	24.6	25.2	25.4			
Dissolved Oxygen mg/L	7.6	7.6	7.4			
Conductivity (µmhos) mmhos	268	285	290			
(initials) Measured by:	SP	DN	JD			
(initials) Recorded by:	SP	DN	JD			

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.1	8.1	7.9			
Temperature °C	24.6	26.0	25.1			
Dissolved Oxygen mg/L	6.4	7.5	7.5			
Conductivity (µmhos) mmhos	180	200	210			
(initials) Measured by:	SP	DN	JD			
(initials) Recorded by:	SP	DN	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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Appendix 2. Chemical Analyses performed on the effluent from the Eagle Picher Industries Outfall D-001, sampled on April 11, 2005.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
4/11/2005 10:23	FINAL EFFLUENT	Bio-AGP/LimNut	Algal Growth Potential	0.907	mg DryWt/L		0.3	0.9
4/11/2005 10:23	FINAL EFFLUENT	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
4/11/2005 10:23	FINAL EFFLUENT	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
4/11/2005 10:23	FINAL EFFLUENT	Bio-Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	LC50	L		
4/11/2005 10:23	FINAL EFFLUENT	Bio-Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	LC50	L		
4/11/2005 12:00	FIELD BLANK	BNA-Water	1,2,4-Trichlorobenzene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	1,2-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	1,3-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	1,4-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	2,4,6-Trichlorophenol	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	2,4-Dichlorophenol	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	2,4-Dimethylphenol	49	ug/L	UJ	49	190
4/11/2005 12:00	FIELD BLANK	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	58
4/11/2005 12:00	FIELD BLANK	BNA-Water	2,4-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	2,6-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	2-Chloronaphthalene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	2-Chlorophenol	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
4/11/2005 12:00	FIELD BLANK	BNA-Water	2-Nitrophenol	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	UJ	39	160
4/11/2005 12:00	FIELD BLANK	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	4-Bromophenyl phenyl ether	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	4-Chloro-3-methylphenol	0.97	ug/L	UJ	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	UJ	1.9	7.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	4-Nitrophenol	15	ug/L	U	15	58
4/11/2005 12:00	FIELD BLANK	BNA-Water	Acenaphthene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Acenaphthylene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	Anthracene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Benzidine	97	ug/L	U	97	390

Appendix 2. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
4/11/2005 12:00	FIELD BLANK	BNA-Water	Benzo(a)anthracene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Benzo(a)pyrene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Benzo(b)fluoranthene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Benzo(g,h,i)perylene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Benzo(k)fluoranthene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Bis(2-chloroethoxy)methane	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Bis(2-chloroethyl)ether	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
4/11/2005 12:00	FIELD BLANK	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	58
4/11/2005 12:00	FIELD BLANK	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	19
4/11/2005 12:00	FIELD BLANK	BNA-Water	Chrysene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	UJ	4.9	19
4/11/2005 12:00	FIELD BLANK	BNA-Water	Di-n-octyl phthalate	0.97	ug/L	UJ	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Dibenzo(a,h)anthracene	0.97	ug/L	UJ	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	Diethyl phthalate	0.97	ug/L	UJ	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	190
4/11/2005 12:00	FIELD BLANK	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
4/11/2005 12:00	FIELD BLANK	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
4/11/2005 12:00	FIELD BLANK	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	Endrin	1.5	ug/L	U	1.5	5.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	Endrin aldehyde	3.9	ug/L	UJ	3.9	16
4/11/2005 12:00	FIELD BLANK	BNA-Water	Fluoranthene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Fluorene	0.97	ug/L	UJ	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	Hexachlorobenzene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Hexachlorobutadiene	2.9	ug/L	UJ	2.9	12
4/11/2005 12:00	FIELD BLANK	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
4/11/2005 12:00	FIELD BLANK	BNA-Water	Hexachloroethane	2.9	ug/L	UJ	2.9	12
4/11/2005 12:00	FIELD BLANK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.97	ug/L	UJ	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Isophorone	0.97	ug/L	UJ	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	UJ	1.9	7.8

Appendix 2. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
4/11/2005 12:00	FIELD BLANK	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	UJ	2.9	12
4/11/2005 12:00	FIELD BLANK	BNA-Water	Naphthalene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
4/11/2005 12:00	FIELD BLANK	BNA-Water	Phenanthrene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Phenol	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	Pyrene	0.97	ug/L	U	0.97	3.9
4/11/2005 12:00	FIELD BLANK	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.8
4/11/2005 12:00	FIELD BLANK	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.8
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	1,2,4-Trichlorobenzene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	1,2-Dichlorobenzene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	1,3-Dichlorobenzene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	1,4-Dichlorobenzene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	2,4,6-Trichlorophenol	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	2,4-Dichlorophenol	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	2,4-Dimethylphenol	54	ug/L	UJ	54	220
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	2,4-Dinitrophenol	16	ug/L	U	16	65
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	2,4-Dinitrotoluene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	2,6-Dinitrotoluene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	2-Chloronaphthalene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	2-Chlorophenol	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	2-Methyl-4,6-dinitrophenol	3.2	ug/L	U	3.2	13
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	2-Nitrophenol	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	3,3'-Dichlorobenzidine	43	ug/L	UJ	43	170
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	4,4'-DDD	1.6	ug/L	U	1.6	6.5
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	4,4'-DDE	1.6	ug/L	U	1.6	6.5
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	4,4'-DDT	1.6	ug/L	U	1.6	6.5
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	4-Bromophenyl phenyl ether	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	4-Chloro-3-methylphenol	1.1	ug/L	UJ	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	4-Chlorophenyl phenyl ether	2.2	ug/L	UJ	2.2	8.6
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	4-Nitrophenol	16	ug/L	U	16	65

Appendix 2. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Acenaphthene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Acenaphthylene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Aldrin	1.6	ug/L	U	1.6	6.5
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Anthracene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Benzidine	110	ug/L	U	110	430
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Benzo(a)anthracene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Benzo(a)pyrene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Benzo(b)fluoranthene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Benzo(g,h,i)perylene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Benzo(k)fluoranthene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Bis(2-chloroethoxy)methane	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Bis(2-chloroethyl)ether	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Bis(2-chloroisopropyl)ether	3.2	ug/L	U	3.2	13
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Bis(2-ethylhexyl)phthalate	16	ug/L	U	16	65
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Butyl benzyl phthalate	5.4	ug/L	U	5.4	22
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Chrysene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Di-n-butyl phthalate	5.4	ug/L	UJ	5.4	22
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Di-n-octyl phthalate	1.1	ug/L	UJ	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Dibenzo(a,h)anthracene	1.1	ug/L	UJ	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Dieldrin	1.6	ug/L	U	1.6	6.5
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Diethyl phthalate	1.1	ug/L	UJ	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Dimethyl phthalate	54	ug/L	U	54	220
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Endosulfan I	4.3	ug/L	U	4.3	17
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Endosulfan II	4.3	ug/L	U	4.3	17
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Endosulfan sulfate	1.6	ug/L	U	1.6	6.5
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Endrin	1.6	ug/L	U	1.6	6.5
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Endrin aldehyde	4.3	ug/L	UJ	4.3	17
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Fluoranthene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Fluorene	1.1	ug/L	UJ	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Heptachlor	1.6	ug/L	U	1.6	6.5
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Heptachlor epoxide	1.6	ug/L	U	1.6	6.5
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Hexachlorobenzene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Hexachlorobutadiene	3.2	ug/L	UJ	3.2	13
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Hexachlorocyclopentadiene	3.2	ug/L	U	3.2	13

Appendix 2. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Hexachloroethane	3.2	ug/L	UJ	3.2	13
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Indeno(1,2,3-cd)pyrene	1.1	ug/L	UJ	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Isophorone	1.1	ug/L	UJ	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	N-Nitrosodi-n-propylamine	2.2	ug/L	UJ	2.2	8.6
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	N-Nitrosodimethylamine	2.2	ug/L	U	2.2	8.6
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	N-Nitrosodiphenylamine	3.2	ug/L	UJ	3.2	13
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Naphthalene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Nitrobenzene	2.2	ug/L	U	2.2	8.6
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Pentachlorophenol	3.2	ug/L	U	3.2	13
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Phenanthrene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Phenol	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	Pyrene	1.1	ug/L	U	1.1	4.3
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	alpha-BHC	1.6	ug/L	U	1.6	6.5
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	beta-BHC	1.6	ug/L	U	1.6	6.5
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	delta-BHC	1.6	ug/L	U	1.6	6.5
4/11/2005 10:23	FINAL EFFLUENT	BNA-Water	gamma-BHC	1.6	ug/L	U	1.6	6.5
4/11/2005 12:00	FIELD BLANK	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.3
4/11/2005 12:00	FIELD BLANK	GC-Water	Ametryn	0.049	ug/L	U	0.049	0.2
4/11/2005 12:00	FIELD BLANK	GC-Water	Atrazine	0.049	ug/L	U	0.049	0.2
4/11/2005 12:00	FIELD BLANK	GC-Water	Azinphos Methyl	0.049	ug/L	U	0.049	0.2
4/11/2005 12:00	FIELD BLANK	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
4/11/2005 12:00	FIELD BLANK	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
4/11/2005 12:00	FIELD BLANK	GC-Water	Chlorpyrifos Ethyl	0.049	ug/L	U	0.049	0.2
4/11/2005 12:00	FIELD BLANK	GC-Water	Chlorpyrifos Methyl	0.097	ug/L	U	0.097	0.39
4/11/2005 12:00	FIELD BLANK	GC-Water	Diazinon	0.049	ug/L	U	0.049	0.2
4/11/2005 12:00	FIELD BLANK	GC-Water	Ethion	0.049	ug/L	U	0.049	0.2
4/11/2005 12:00	FIELD BLANK	GC-Water	Ethoprop	0.097	ug/L	U	0.097	0.39
4/11/2005 12:00	FIELD BLANK	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
4/11/2005 12:00	FIELD BLANK	GC-Water	Fonofos	0.097	ug/L	UJ	0.097	0.39
4/11/2005 12:00	FIELD BLANK	GC-Water	Hexazinone	0.097	ug/L	U	0.097	0.39
4/11/2005 12:00	FIELD BLANK	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
4/11/2005 12:00	FIELD BLANK	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
4/11/2005 12:00	FIELD BLANK	GC-Water	Metolachlor	0.49	ug/L	U	0.49	2
4/11/2005 12:00	FIELD BLANK	GC-Water	Metribuzin	0.097	ug/L	U	0.097	0.39

Appendix 2. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
4/11/2005 12:00	FIELD BLANK	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
4/11/2005 12:00	FIELD BLANK	GC-Water	Naled	0.78	ug/L	UJ	0.78	3.1
4/11/2005 12:00	FIELD BLANK	GC-Water	Norflurazon	0.097	ug/L	U	0.097	0.39
4/11/2005 12:00	FIELD BLANK	GC-Water	Parathion Ethyl	0.15	ug/L	UJ	0.15	0.6
4/11/2005 12:00	FIELD BLANK	GC-Water	Parathion Methyl	0.097	ug/L	U	0.097	0.39
4/11/2005 12:00	FIELD BLANK	GC-Water	Phorate	0.049	ug/L	U	0.049	0.2
4/11/2005 12:00	FIELD BLANK	GC-Water	Prometryn	0.15	ug/L	UJ	0.15	0.6
4/11/2005 12:00	FIELD BLANK	GC-Water	Simazine	0.049	ug/L	U	0.049	0.2
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Alachlor	0.6	ug/L	U	0.6	2.4
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Ametryn	0.05	ug/L	U	0.05	0.2
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Atrazine	0.05	ug/L	U	0.05	0.2
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Azinphos Methyl	0.05	ug/L	U	0.05	0.2
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.05	0.2
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Diazinon	0.05	ug/L	U	0.05	0.2
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Ethion	0.05	ug/L	U	0.05	0.2
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Ethoprop	0.1	ug/L	U	0.1	0.4
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Fonofos	0.1	ug/L	UJ	0.1	0.4
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Metalaxyl	0.25	ug/L	U	0.25	1
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Metolachlor	0.5	ug/L	U	0.5	2
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Naled	0.8	ug/L	UJ	0.8	3.2
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Norflurazon	0.1	ug/L	U	0.1	0.4
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Parathion Ethyl	0.15	ug/L	UJ	0.15	0.6
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Phorate	0.05	ug/L	U	0.05	0.2
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Prometryn	0.15	ug/L	UJ	0.15	0.6
4/11/2005 10:23	FINAL EFFLUENT	GC-Water	Simazine	0.05	ug/L	U	0.05	0.2

Appendix 2. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
4/11/2005 12:00	FIELD BLANK	Metals-Water	Aluminum	5	ug/L	U	5	20
4/11/2005 12:00	FIELD BLANK	Metals-Water	Arsenic	6	ug/L	U	6	24
4/11/2005 12:00	FIELD BLANK	Metals-Water	Cadmium	0.075	ug/L	U	0.075	0.3
4/11/2005 12:00	FIELD BLANK	Metals-Water	Calcium	0.075	mg/L	U	0.075	0.3
4/11/2005 12:00	FIELD BLANK	Metals-Water	Chromium	2	ug/L	U	2	8
4/11/2005 12:00	FIELD BLANK	Metals-Water	Copper	0.5	ug/L	U	0.5	2
4/11/2005 12:00	FIELD BLANK	Metals-Water	Iron	10	ug/L	U	10	40
4/11/2005 12:00	FIELD BLANK	Metals-Water	Lead	0.075	ug/L	U	0.075	0.3
4/11/2005 12:00	FIELD BLANK	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
4/11/2005 12:00	FIELD BLANK	Metals-Water	Nickel	2	ug/L	U	2	8
4/11/2005 12:00	FIELD BLANK	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
4/11/2005 12:00	FIELD BLANK	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
4/11/2005 12:00	FIELD BLANK	Metals-Water	Zinc	3	ug/L	U	3	12
4/11/2005 10:23	FINAL EFFLUENT	Metals-Water	Aluminum	66	ug/L		5	20
4/11/2005 10:23	FINAL EFFLUENT	Metals-Water	Arsenic	6	ug/L	U	6	24
4/11/2005 10:23	FINAL EFFLUENT	Metals-Water	Cadmium	0.075	ug/L	U	0.075	0.3
4/11/2005 10:23	FINAL EFFLUENT	Metals-Water	Calcium	13.2	mg/L		0.075	0.3
4/11/2005 10:23	FINAL EFFLUENT	Metals-Water	Chromium	2	ug/L	U	2	8
4/11/2005 10:23	FINAL EFFLUENT	Metals-Water	Copper	1.2	ug/L	U	1.2	4.8
4/11/2005 10:23	FINAL EFFLUENT	Metals-Water	Iron	896	ug/L		10	40
4/11/2005 10:23	FINAL EFFLUENT	Metals-Water	Lead	0.075	ug/L	U	0.075	0.3
4/11/2005 10:23	FINAL EFFLUENT	Metals-Water	Magnesium	5	mg/L		0.02	0.08
4/11/2005 10:23	FINAL EFFLUENT	Metals-Water	Nickel	2	ug/L	U	2	8
4/11/2005 10:23	FINAL EFFLUENT	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
4/11/2005 10:23	FINAL EFFLUENT	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
4/11/2005 10:23	FINAL EFFLUENT	Metals-Water	Zinc	3	ug/L	U	3	12
4/11/2005 12:00	FIELD BLANK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
4/11/2005 12:00	FIELD BLANK	Nutrients-Liquid	Kjeldahl Nitrogen	0.06	mg N/L	U	0.06	0.2
4/11/2005 12:00	FIELD BLANK	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
4/11/2005 12:00	FIELD BLANK	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
4/11/2005 12:00	FIELD BLANK	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06
4/11/2005 10:23	FINAL EFFLUENT	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
4/11/2005 10:23	FINAL EFFLUENT	Nutrients-Liquid	Kjeldahl Nitrogen	0.06	mg N/L	U	0.06	0.2
4/11/2005 10:23	FINAL EFFLUENT	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01

Appendix 2. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
4/11/2005 10:23	FINAL EFFLUENT	Nutrients-Liquid	O-Phosphate-P	0.011	mg P/L		0.004	0.01
4/11/2005 10:23	FINAL EFFLUENT	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06

The Bioassay of Eagle Picher Industries D-001 effluent sampled on April 11, 2005. NPDES #FL0167061.

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

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 F L 0 1 6 7 0 6 1 11	12 0 5 0 4 1 1	18 B	19 S	20 2

Remarks

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The Priority Pollutants Analysis of Eagle Picher Industries D-001 effluent sampled on April 11, 2005. NPDES #FL0167061.

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

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 F L 0 1 6 7 0 6 1 11	12 0 5 0 4 1 1	18 X	19 S	20 2

Remarks

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Biological Analyses of Eagle Picher Industries D-001 effluent sampled on April 11, 2005. NPDES #FL0167061.

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

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Remarks

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