

Specific quality assurance and quality control (QA/QC) measures were incorporated into each aspect of the study. These measures included the following:

- **Field Sampling**

- personnel involved in the field sampling had appropriate training and experience with the field and sampling equipment used in the study and the field program was implemented with to standard operating procedures (SOPs) all samples collected were placed in appropriate containers;
- suitable preservatives/fixatives were used;
- all samples had appropriate labeling;
- detailed field notes were maintained in bound notebooks and customized field data collections forms; and
- chain-of-custody (COC) forms and appropriate shipping and storage procedures were used; and
- COC forms were crosschecked with field data sheets to ensure that all of the samples were received and that all of the samples were labeled correctly.

- **Fish Sample Processing**

- all morphometric measurements were taken using appropriate equipment of acceptable accuracy and precision;
- instruments were calibrated and maintained in good working order; and
- chain-of-custody forms and appropriate shipping and storage procedures were used.

- **Analysis and Reporting**

- screening exercises to identify transcription errors, outliers and other suspicious data points were conducted;
- raw data were compiled in electronic database format and are provided as appendices to the report;
- the methods (specific statistical tests) and software (as appropriate) used for analysis have been documented;
- checks for editorial, grammatical and spelling errors and data entry errors have been completed;
- checks for consistency of format and the completeness of each section have been made;
- we have ensured that pertinent information has been reported in detail (including field notes, accurate site locations);
- we have ensured that changes in protocol, study design, or other components of the study have been reported; and
- we have ensured that all QA/QC documentation has been included in the report.

Appendix B SUBLETHAL TOXICITY DATA AND EFFLUENT TREATMENT MONITORING PARAMETERS



AquaTox Testing & Consulting Inc.
11B Nicholas Beaver Rd.
RR 3
Guelph ON N1H 6H9
Tel: (519) 763-4412 Fax: (519) 763-4419

September 05, 2013

Mr. Dave Davis
Northern Pulp N.S.
P.O. Box 549 Station Main
New Glasgow NS
B2H 5E8

Dear Mr. Davis,

Re: Report on Sublethal Toxicity Analysis of Wastewater for EEM - July 2013

Enclosed are the reports for sublethal testing conducted on the sample of ASB Effluent collected 2013-07-22. Data are presented in electronic format. Please forward a hardcopy to Environment Canada.

You have previously provided us with your unique user name and pass code (supplied to you by Environment Canada) to access the Environment Canada Pulp and Paper EEM web data entry system. In order to enter this information on your behalf, we require your written permission for each sampling event. Please review the reports and email or fax your approval to Jasmine Lauinger (fax: 519-763-4419/email: jlauinger@aquatox.ca). We will then submit the results to Environment Canada. In future, if you would prefer us enter the data automatically at the time the reports are issued, please indicate this in writing.

If you have any questions about the results, do not hesitate to contact me.

Sincerely,

AQUATOX TESTING & CONSULTING INC.

A handwritten signature in blue ink, appearing to read "Martina Rendas", written over a faint, light-colored background.

Martina Rendas
Project Manager

MR/jl



AquaTox Testing & Consulting Inc.
11B Nicholas Beaver Rd.
RR 3
Guelph ON N1H 6H9
Tel: (519) 763-4412 Fax: (519) 763-4419

Champia parvula Test Report
Reproductive Inhibition
1 of 4

Work Order : 223951
Sample Number : 37777

SAMPLE IDENTIFICATION

Company : Northern Pulp N.S.
Location : New Glasgow NS
Substance : ASB Effluent
Sampling Method : Grab
Sampled By : M. Pidgeon
Temp. on arrival : 14.0°C
Sample Description : Cloudy, brown, odourless.
Date Collected : 2013-07-22
Time Collected : 10:05
Date Received : 2013-07-23
Time Received : 08:55
Date Tested : 2013-07-24
Test Method : Test of Sexual Reproduction using the Red Macroalga *Champia parvula*. EPA-821-R-02-014, October 2002, Method 1009.0, with Canadian adaptations (Environment Canada 1998, 1999).

TEST RESULTS

Effect	Value	95% Confidence Limits	Statistical Method
IC25 (Reproduction)	0.69%	0.12-2.66	Linear Interpolation (CETIS) a

The results reported relate only to the sample tested.

SODIUM DODECYL SULPHATE (SDS) REFERENCE TOXICANT DATA

Date Tested :	2013-07-26	Statistical Method :	Linear Interpolation (Toxstat) ^d
Organism Batch :	Cp13-07	Historical Mean IC25 :	0.097 mg/L
Test Duration :	48 hrs exposure, 7 days recovery	Warning Limits (± 2SD) :	0.079 - 0.119 mg/L
IC25 (Reproduction) :	0.106 mg/L	Analyst(s) :	MS
95% Confidence Limits :	0.074 - 0.156 mg/L		

The reference toxicity test was performed under the same experimental conditions as those used with the test sample.

TEST CONDITIONS

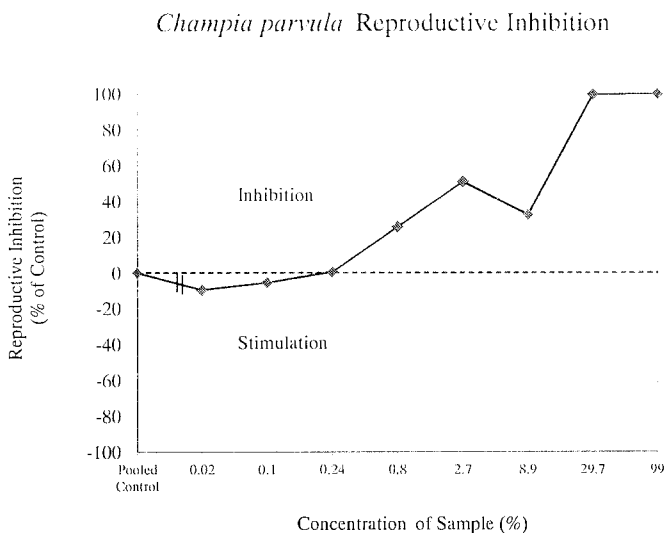
Test Organism :	<i>Champia parvula</i>	Test Type :	Static
Organism Batch :	Cp13-07	Sample Filtration :	None
Test Organism Source :	In-house culture	Control/Dilution Water :	Natural seawater (no chemicals added)
Life Stage :	Sexually mature	Control/Dilution Water Source :	Pointe-du-Chene, Shediac Bay NB
Mean Culture Mortality :	0 % (previous 7 days)	Concentrations Tested :	5 (minimum), Control and Salt Control
Males per Test Chamber :	2 (having sori with spermatia)	Replicates per Concentration :	3
Females per Test Chamber :	5 (having trichogynes)	Volume per Replicate :	100 mL
pH Adjustment :	None	Test Chamber :	240 mL polystyrene cup
Exposure Duration :	48 hours	Depth of Test Solution :	5.0 cm
Aeration during Exposure :	None	Photoperiod (h) :	16 light / 8 dark
Recovery Duration :	7 days	Light Intensity :	597 - 1073 lux
Aeration during Recovery :	Yes; ≤ 100 bubbles/min	Test Method Deviation(s) :	None

COMMENTS

- No organisms appearing unhealthy, discoloured, or otherwise stressed, or undergoing unusual treatment, were used in the test.
- All test validity criteria as specified in the test method cited above were satisfied.
- Statistical analysis was conducted using pooled Control and Salt Control data, as required by Environment Canada, 2001^e.
- Maximum effluent concentration tested was 99% due to the addition of nutrient stocks to the 100% effluent.
- This report is based on the Environment Canada Guidance Document: Report Assessment Checklist for the Pulp and Paper and Metal Mining EEM Programs, April 2005.

Work Order : 223951

Sample Number : 37777



SALINITY ADJUSTMENT

Method : Direct Salt Addition
 Salt Added : Instant Ocean™
 Aging Conditions : 4±2°C, sealed in complete darkness, with minimal air space
 Reference : Salinity Adjustment Guidance Document. Environment Canada, revised December 2001^c.

Date	Initial Salinity (‰)	Initial pH	Volume Adjusted (L)	Amount of Salt Added (g)	Salinity After Adjustment	pH After Salinity Adjustment	Analyst(s)	Aging Time (h)
2013-07-23	0	7.9	1.0	32	30	7.8	DK	18.1

REFERENCES

- ^a CETIS, © 2001-2007. Comprehensive Environmental Toxicity Information System. Tidepool Scientific Software, McKinleyville, Calif. 95519 [Program on disk and printed User's Guide].
- ^d West, Inc. and D. Gulley. 1996. Toxstat Release 3.5. Western Ecosystems Technology. Cheyenne, WY, U.S.A.
- ^e Environment Canada. 2001. Revised Procedures for Adjusting Salinity of Effluent Samples for Marine Sublethal Toxicity Testing Conducted under Environmental Effects Monitoring (EEM) Programs. Method Development and Applications Section, Environmental Technology Centre, December 2001.

Date : 2013-07-23
yyyy-mm-dd

Approved By : [Signature]
 Project Manager

Work Order : 223951

Sample Number : 37777

Cystocarp Counts at Test Termination

Initiated By : VC MS

Initiation Date : 2013-07-24

Terminated By : EJ

Termination Date : 2013-08-02

Concentration (%)	Replicate	Plant 1	Plant 2	Plant 3	Plant 4	Plant 5	Replicate Mean	Treatment Mean	Standard Deviation	CV (%)
Control	A	21	22	10	19	11	16.6	20.8	5.5	26.4
	B	25	12	25	14	18	18.8			
	C	30	22	31	24	28	27.0 ¹			
Salt Control*	A	22	10	17	7	12	13.6	17.3	3.2	18.5
	B	11	24	26	18	15	18.8			
	C	21	20	23	10	23	19.4			
0.02	A	26	21	26	26	21	24.0	20.9	3.1	14.9
	B	24	13	21	22	24	20.8			
	C	17	25	18	15	14	17.8			
0.07	A	12	15	34	17	20	19.6	20.1	0.6	3.2
	B	28	25	16	16	19	20.8			
	C	16	19	15	26	23	19.8			
0.24	A	15	18	35	21	11	20.0	18.9	1.7	8.9
	B	23	11	19	10	22	17.0			
	C	18	20	21	12	28	19.8			
0.8	A	12	17	14	15	17	15.0	14.1	3.6	25.3
	B	14	27	16	14	15	17.2			
	C	11	12	5	15	8	10.2			
2.7	A	14	7	3	17	3	8.8	9.3	5.0	53.8
	B	23	6	16	13	15	14.6			
	C	2	4	13	2	2	4.6			
8.9	A	24	14	13	13	7	14.2	12.9	2.5	19.3
	B	24	5	12	18	13	14.4			
	C	11	7	10	3	19	10.0			
29.7	A	0	0	1	0	0	0.2	0.1	0.1	173.2
	B	0	0	0	0	0	0.0			
	C	0	0	0	0	0	0.0			
99	A	0	0	0	0	0	0.0	0.0	0.0	0.0
	B	0	0	0	0	0	0.0			
	C	0	0	0	0	0	0.0			

"-" = not counted/not required

*Salt Control' is a control prepared by Direct Salt Addition with Instant Ocean™ according to: Salinity Adjustment Guidance Document (2001). Environment Canada, revised December 2001.

¹ Outlier according to Grubbs Test (CETIS)³. Test data were analyzed with outlier(s) both included and excluded. The outlier(s) was included in calculation of the final result since exclusion had little effect on the final test outcome.

Cumulative Plant Mortality

Observation Period

Concentration (%)	♂ 0 Hours		♀ 0 Hours		♂ 48 Hours		♀ 48 Hours		♀ Test Completion	
	Number Dead	Mortality (%)	Number Dead	Mortality (%)	Number Dead	Mortality (%)	Number Dead	Mortality (%)	Number Dead	Mortality (%)
Control	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salt Control	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.02	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.07	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.24	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
8.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
29.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
99	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

Test Data Reviewed By:

Date: 2013-08-13

Work Order : 223951
Sample Number: 37777

4 of 4

WATER CHEMISTRY DATA

<i>Initial Water Chemistry (100% Sample)</i>						
	Temperature (°C)	pH	Dissolved O ₂ (mg/L)	O ₂ Saturation (%)*	Salinity (‰)	Pre-aeration Time (h) ²
Initial Chemistry :	23.0	8.1	7.5	93	0	--
Chemistry after Salinity Adjustment ¹ :	23.0	7.9	7.0	101	30	--
Chemistry after Pre-Aeration ² :	24.0	7.9	6.8	99	30	0:30

<i>Exposure Period Water Chemistry</i>											
0 hours						48 hours					
Date & Time : 2013-07-24 14:45						Date & Time : 2013-07-26 16:00					
Analyst(s) : VC						Analyst(s) : MS					
Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)	Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)
99	7.9	7.0	99	30	23.0	99	8.6	7.0	102	30	23.0
29.7	7.8	7.0	99	30	23.0	29.7	8.7	7.5	109	30	23.0
8.9	7.7	7.1	100	30	23.0	8.9	8.7	7.6	110	30	23.0
2.7	7.7	7.1	100	30	23.0	2.7	8.7	7.5	108	30	23.0
0.8	7.6	7.0	99	30	23.0	0.8	8.6	7.7	110	30	23.0
0.24	7.6	7.0	99	30	23.0	0.24	8.7	7.6	109	30	23.0
0.07	7.6	7.0	99	30	23.0	0.07	8.7	7.6	110	30	23.0
0.02	7.7	7.1	100	30	23.0	0.02	8.7	7.7	111	30	23.0
Salt Control	7.8	7.1	101	30	23.0	Salt Control	8.7	7.8	112	30	23.0
Control	7.6	7.0	99	30	23.0	Control	8.5	7.9	113	30	23.0

<i>Recovery Period Water Chemistry</i>											
0 hours						Test Completion					
Date & Time : 2013-07-26 16:20						Date & Time : 2013-08-02 14:40					
Analyst(s) : VC						Analyst(s) : EJ					
Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)	Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)
99	7.6	7.1	101	30	23.0	99	7.7	7.0	102	30	23.0
29.7	7.6	7.1	101	30	23.0	29.7	7.7	7.0	101	30	23.0
8.9	7.6	7.1	101	30	23.0	8.9	7.7	7.0	101	30	23.0
2.7	7.6	7.1	101	30	23.0	2.7	7.8	7.1	103	30	23.0
0.8	7.6	7.1	101	30	23.0	0.8	7.7	6.9	100	30	23.0
0.24	7.6	7.1	101	30	23.0	0.24	7.7	7.0	101	30	23.0
0.07	7.6	7.1	101	30	23.0	0.07	7.7	7.0	101	30	23.0
0.02	7.6	7.1	101	30	23.0	0.02	7.8	7.1	103	30	23.0
Salt Control	7.6	7.1	101	30	23.0	Salt Control	7.7	7.0	101	30	23.0
Control	7.6	7.1	101	30	23.0	Control	7.8	7.0	101	30	23.0

Daily Temperature Monitoring

Date	Temp. (°C)	Analyst(s)
2013-07-24	23.0	MS
2013-07-25	23.0	VC
2013-07-26	24.0	VC
2013-07-27	23.0	MR
2013-07-28	23.0	MR
2013-07-29	22.0	EJ
2013-07-30	23.0	MS
2013-07-31	22.0	MS
2013-08-01	23.0	MS
2013-08-02	23.0	EJ

¹ if applicable² @ <100 bubbles/min

* adjusted for barometric pressure



AquaTox Testing & Consulting Inc.
11B Nicholas Beaver Rd.
RR 3
Guelph ON N1H 6H9
Tel: (519) 763-4412 Fax: (519) 763-4419

Sea Urchin Test Report

Fertilization Inhibition

1 of 4

Work Order : 223951
Sample Number : 37777

SAMPLE IDENTIFICATION

Company : Northern Pulp N.S.
Location : New Glasgow NS
Substance : ASB Effluent
Sampling Method : Grab
Sampled By : M. Pidgeon
Temp. on arrival : 14.0°C
Sample Description : Cloudy, brown, odourless.
Date Collected : 2013-07-22
Time Collected : 10:05
Date Received : 2013-07-23
Time Received : 08:55
Date Tested : 2013-07-25
Test Method : Fertilization Assay Using Echinoids (Sea Urchins and Sand Dollars). Environment Canada, Conservation and Protection. Ottawa, Ontario. EPS 1/RM/27, 2nd ed. (February 2011).

TEST RESULTS

Effect	Value	95% Confidence Limits	Statistical Method
IC25 (Fertilization)	0.43%	0.27-0.60	Non Linear Regression* (CETIS) a

The results reported relate only to the sample tested.

COPPER (AS COPPER SULPHATE) REFERENCE TOXICANT DATA

Date Tested : 2013-07-25
Gamete Batch : Ur13-07-01
Test Duration : 20 minutes
IC25 Fertilization : 158 µg/L
95% Confidence Limits : 135 - 176 µg/L
Statistical Method : Non-Linear Regression* (CETIS)^a
Historical Mean IC25 : 96 µg/L
Warning Limits (± 2SD) : 28 - 333 µg/L
Analyst(s) : EJ/AS

The reference toxicant test was performed under the same experimental conditions as those used with the test sample.

TEST CONDITIONS

Test Vessel : 20 mL glass scintillation vial
Volume per Replicate : 10 mL
Number of Replicates : 4 per treatment
Depth of Test Solution : Approx. 3 cm
Sperm Density : 40000000 per vessel
Sperm : Egg Ratio : 20000 : 1
Males Used to Pool Sperm : 3
Females Used to Pool Eggs : 3
Control/Dilution Water¹ : Artificial Sea Water
Sperm Exposure Time² : 20 min
Egg Exposure Time : 10 min
Total Duration of Test : 20 min
pH Adjustment : None
Sample Filtration : None
Test Aeration : None
Test Method Deviation(s) : None

¹no additional chemicals

² 10 min exposure, continued for an additional 10 min after addition of eggs

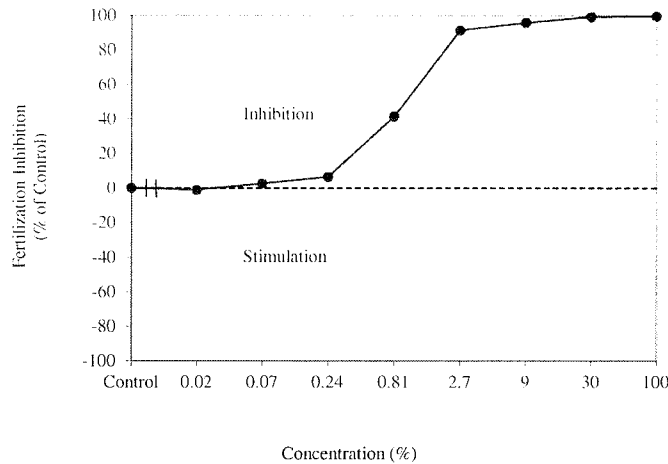
COMMENTS

*Binomial weighting (CETIS^a) was applied.

•All test validity criteria as specified in the test method cited above were satisfied.

Work Order : 223951
 Sample Number : 37777

Sea Urchin Fertilization Inhibition



TEST ORGANISM

Adult Test Organism :	<i>Lytechinus pictus</i>	Holding Salinity :	34 ± 2 ‰
Adult Organism Source :	Marinus Scientific	Holding Vessel :	Glass aquaria
Source Location :	Garden Grove CA USA	Adult Mortality Rate :	0% (previous 7 days)
Date Received :	3013-05-30	Life Stage Tested :	Gamete (sperm/egg)
Holding Water :	Artificial Sea Water	Gamete Batch Tested :	Ur13-07-01
Holding Temperature :	12 - 15 °C		

Reference : Recommended Procedure for the Importation of Test Organisms for Sublethal Toxicity Testing. Environment Canada, September 1999.

REFERENCES

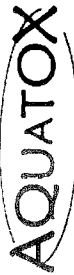
^a CETIS, © 2001-2007. Comprehensive Environmental Toxicity Information System. Tidepool Scientific Software, McKinleyville, Calif. 95519 [Program on disk and printed User's Guide].

^eEnvironment Canada. 2001. Revised Procedures for Adjusting Salinity of Effluent Samples for Marine Sublethal Toxicity Testing Conducted under Environmental Effects Monitoring (EEM) Programs. Method Development and Applications Section, Environmental Technology Centre, December 2001.

Date : 2013-07-05
 yyyy-mm-dd

Approved By : [Signature]
 Project Manager

CHAIN OF CUSTODY RECORD



AquaTox Work Order No:

223951

Shipping Address: AquaTox Testing & Consulting Inc.
11B Nicholas Beaver Road, RR #3
Guelph, Ontario Canada N1H 6H9


Voice: (519) 763-4412 Fax: (519) 763-4419

P.O. Number: 20050814
 Field Sampler Name (print): Mike Pidgeon
 Signature: *Mike Pidgeon*
 Affiliation: Operator
 Sample Storage (prior to shipping): Keep cool / ship same day
 Custody Relinquished by: Mike Pidgeon
 Date/Time Shipped: July 20/13

Client: Northern Pulp Treatment Plant
340 Simpson Lane
Picton Landing, N.S.
B6K1X2
 Phone: 902-755-7178
 Fax: 902-755-7195
 Contact: Mike Pidgeon

Sample Identification		Analyses Requested							Sample Method and Volume						
Date Collected (YYYY-mm-dd)	Time Collected (e.g. 14:30, 24 hr clock)	Sample Name	AquaTox Sample Number	Temp. on arrival	SilverSide Growth	Sea Urchin Fertilization	Champia Reproduction	Blue Mussel Larval Development	Sea Urchin Larval Development	Marine Amphipod Survival	Marine Polychaete Survival and Growth	other (please specify below)	Grab	Composite	# of Containers and Volume (eg. 2 x 1L, 3 x 10L, etc.)
13/07/22	9:50	Final effluent	3776	14.0		✓	✓								1 x 1.5 L / 1 x 1.5 L
13/07/22	10:05	ASB effluent	3777	14.0		✓	✓								1 x 1.5 L / 1 x 1.5 L

For Lab Use Only
 Received By: AW
 Date: 2013-07-23
 Time: 0855
 Storage Location:
 Storage Temp. (°C)

Please list any special requests or instructions:




AquaTox Testing & Consulting Inc.

11B Nicholas Beaver Rd.

RR 3

Guelph ON N1H 6H9

Tel: (519) 763-4412 Fax: (519) 763-4419

March 27, 2014

Mr. Dave Davis
Northern Pulp N.S.
P.O. Box 549 Station Main
New Glasgow NS
B2H 5E8

Dear Mr. Davis,

Re: Report on Sublethal Toxicity Analysis of Wastewater for EEM - January 2014

Enclosed are the reports for sublethal testing conducted on the sample of Point C ASB Effluent , collected on 2014-01-27 . Data are presented in electronic format. Please forward a hardcopy to Environment Canada.

You have previously provided us with your unique user name and pass code to access Environment Canada's Sublethal Toxicity Reporting System. In order to enter this information on your behalf, we require your written permission for each sampling event. Please review the reports and email your approval to Jasmine Lauinger (jlauinger@aquatox.ca). We will then submit the results to Environment Canada. In the future, if you would prefer us to enter the data automatically at the time these reports are issued, please indicate this in writing.

If you have any questions about the results, do not hesitate to contact me.

Sincerely,

AQUATOX TESTING & CONSULTING INC.

A handwritten signature in black ink, appearing to read "Martina Rendas", written over the printed name.

Martina Rendas

Project Manager

MR/jl



AquaTox Testing & Consulting Inc.
11B Nicholas Beaver Rd.
RR 3
Guelph ON N1H 6H9
Tel: (519) 763-4412 Fax: (519) 763-4419

Sea Urchin Test Report

Fertilization Inhibition

1 of 4

Work Order : 225024
Sample Number : 39220

SAMPLE IDENTIFICATION

Company : Northern Pulp N.S.
Location : New Glasgow NS
Substance : Point C ASB Effluent
Sampling Method : Grab
Sampled By : M. Pidgeon
Temp. on arrival : 6.0°C
Sample Description : Cloudy, brown, mild odour.
Date Collected : 2014-01-27
Time Collected : 09:20
Date Received : 2014-01-28
Time Received : 09:15
Date Tested : 2014-01-30
Test Method : Fertilization Assay Using Echinoids (Sea Urchins and Sand Dollars). Environment Canada, Conservation and Protection. Ottawa, Ontario. EPS 1/RM/27, 2nd ed. (February 2011).

TEST RESULTS

Effect	Value	95% Confidence Limits	Statistical Method
IC25 (Fertilization)	0.55%	0.46-0.65	Non Linear Regression* (CETIS) a

The results reported relate only to the sample tested.

COPPER (AS COPPER SULPHATE) REFERENCE TOXICANT DATA

Date Tested : 2014-01-30
Gamete Batch : Ur14-01-02
Test Duration : 20 minutes
IC25 Fertilization : 126 µg/L
95% Confidence Limits : 112 - 150 µg/L
Statistical Method : Linear Interpolation (CETIS)^a
Historical Mean IC25 : 111 µg/L
Warning Limits (± 2SD) : 47 - 261 µg/L
Analyst(s) : AS, DK

The reference toxicant test was performed under the same experimental conditions as those used with the test sample.

TEST CONDITIONS

Test Vessel : 20 mL glass scintillation vial
Volume per Replicate : 10 mL
Number of Replicates : 4 per treatment
Depth of Test Solution : Approx. 3 cm
Sperm Density : 40000000 per vessel
Sperm : Egg Ratio : 20000 : 1
Males Used to Pool Sperm : 3
Females Used to Pool Eggs : 3
Control/Dilution Water¹ : Artificial Sea Water
Sperm Exposure Time² : 20 min
Egg Exposure Time : 10 min
Total Duration of Test : 20 min
pH Adjustment : None
Sample Filtration : None
Test Aeration : None
Test Method Deviation(s) : None

¹no additional chemicals

² 10 min exposure, continued for an additional 10 min after addition of eggs

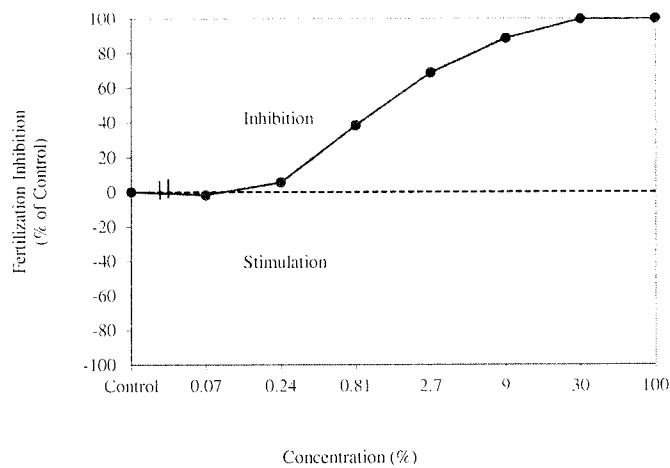
COMMENTS

*Binomial weighting (CETIS^a) was applied.

•All test validity criteria as specified in the test method cited above were satisfied.

Work Order : 225024
 Sample Number : 39220

Sea Urchin Fertilization Inhibition



TEST ORGANISM

Adult Test Organism :	<i>Lytechinus pictus</i>	Holding Salinity :	34 ± 2 ‰
Adult Organism Source :	Marinus Scientific	Holding Vessel :	Glass aquaria
Source Location :	Garden Grove CA USA	Adult Mortality Rate :	30% (previous 7 days)
Date Received :	2013-05-30	Life Stage Tested :	Gamete (sperm/egg)
Holding Water :	Artificial Sea Water	Gamete Batch Tested :	Ur14-01-02
Holding Temperature :	12 - 15 °C		

Reference : Recommended Procedure for the Importation of Test Organisms for Sublethal Toxicity Testing. Environment Canada, September 1999.

REFERENCES

^a CETIS, © 2001-2007. Comprehensive Environmental Toxicity Information System. Tidepool Scientific Software, McKinleyville, Calif. 95519 [Program on disk and printed User's Guide].

^cEnvironment Canada. 2001. Revised Procedures for Adjusting Salinity of Effluent Samples for Marine Sublethal Toxicity Testing Conducted under Environmental Effects Monitoring (EEM) Programs. Method Development and Applications Section, Environmental Technology Centre, December 2001.

Date : 2014-03-27
 yyyy-mm-dd

Approved By : [Signature]
 Project Manager



AquaTox Testing & Consulting Inc.
11B Nicholas Beaver Rd.
RR 3
Guelph ON N1H 6H9
Tel: (519) 763-4412 Fax: (519) 763-4419

Champia parvula Test Report
Reproductive Inhibition
1 of 4

Work Order : 225024
Sample Number : 39220

SAMPLE IDENTIFICATION

Company : Northern Pulp N.S.
Location : New Glasgow NS
Substance : Point C ASB Effluent
Sampling Method : Grab
Sampled By : M. Pidgeon
Temp. on arrival : 6.0°C
Sample Description : Cloudy, brown, mild odour.
Test Method : Test of Sexual Reproduction using the Red Macroalga *Champia parvula*. EPA-821-R-02-014, October 2002, Method 1009.0, with Canadian adaptations (Environment Canada 1998, 1999), with deviation(s) as noted below.

Date Collected : 2014-01-27
Time Collected : 09:20
Date Received : 2014-01-28
Time Received : 09:15
Date Tested : 2014-01-29

TEST RESULTS

Effect	Value	95% Confidence Limits	Statistical Method
IC25 (Reproduction)	0.09%	0.03-0.12	Linear Interpolation (Toxstat 3.5) d

The results reported relate only to the sample tested.

SODIUM DODECYL SULPHATE (SDS) REFERENCE TOXICANT DATA

Date Tested : 2014-01-13
Organism Batch : Cp14-01
Test Duration : 48 hrs exposure, 7 days recovery
IC25 (Reproduction) : 0.083 mg/L
95% Confidence Limits : 0.045* - 0.118 mg/L

Statistical Method : Linear Interpolation (Toxstat)^d
Historical Mean IC25 : 0.098 mg/L
Warning Limits (\pm 2SD) : 0.080 - 0.120 mg/L
Analyst(s) : EJ/MS

The reference toxicity test was performed under the same experimental conditions as those used with the test sample.

TEST CONDITIONS

Test Organism : *Champia parvula*
Organism Batch : Cp14-01
Test Organism Source : In-house culture
Life Stage : Sexually mature
Mean Culture Mortality : 0 % (previous 7 days)
Males per Test Chamber : 2 (having sori with spermatia)
Females per Test Chamber : 5 (having trichogynes)
pH Adjustment : None
Exposure Duration : 48 hours
Aeration during Exposure : None
Recovery Duration : 7 days
Aeration during Recovery : Yes; \leq 100 bubbles/min

Test Type : Static
Sample Filtration : None
Control/Dilution Water : Natural seawater (no chemicals added)
Control/Dilution Water Source : Pointe-du-Chene, Shediac Bay NB
Concentrations Tested : 5 (minimum), Control and Salt Control
Replicates per Concentration : 3
Volume per Replicate : 100 mL
Test Chamber : 240 mL polystyrene cup
Depth of Test Solution : 5.0 cm
Photoperiod (h) : 16 light / 8 dark
Light Intensity : 782 - 1047 lux
Test Method Deviation(s) : See 'Comments'

COMMENTS

Noted Deviation(s): Saturation of control/dilution water at test initiation was $>100\%$ (see page 4).

*The lower 95% confidence limit for the reference toxicant test result is below the lowest test concentration (0.06 mg/L).

•Control data were pooled prior to statistical analysis of the test endpoint(s), as required by the test method.

•No organisms appearing unhealthy, discoloured, or otherwise stressed, or undergoing unusual treatment, were used in the test.

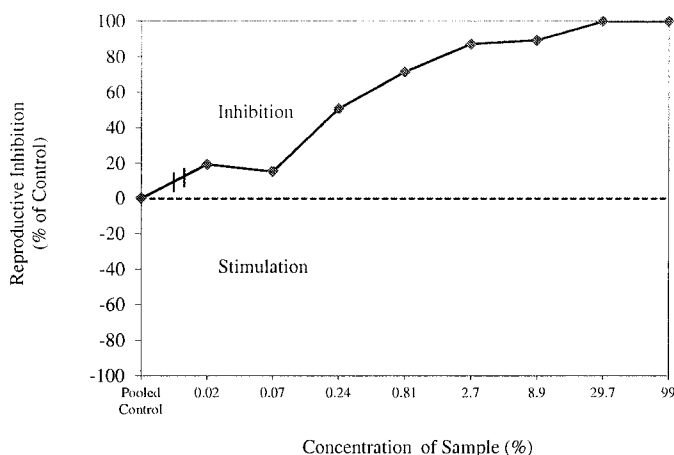
•All test validity criteria as specified in the test method cited above were satisfied.

•Maximum effluent concentration tested was 99% due to the addition of nutrient stocks to the 100% effluent.

•This report is based on the Environment Canada Guidance Document: Report Assessment Checklist for the Pulp and Paper and Metal Mining EEM Programs, April 2005.

Work Order : 225024
 Sample Number : 39220

Champia parvula Reproductive Inhibition



SALINITY ADJUSTMENT

Method : Direct Salt Addition
 Salt Added : Instant Ocean™
 Aging Conditions : 4±2°C, sealed in complete darkness, with minimal air space
 Reference : Salinity Adjustment Guidance Document. Environment Canada, revised December 2001^e.

Date	Initial Salinity (‰)	Initial pH	Volume Adjusted (L)	Amount of Salt Added (g)	Salinity After Adjustment (‰)	pH After Salinity Adjustment	Analyst(s)	Aging Time (h)
2014-01-28	5	8.0	1.0	29	30	7.9	DK	17.1

REFERENCES

- ^a CETIS, © 2001-2007. Comprehensive Environmental Toxicity Information System. Tidepool Scientific Software, McKinleyville, Calif. 95519 [Program on disk and printed User's Guide].
- ^d West, Inc. and D. Gulley. 1996. Toxstat Release 3.5. Western Ecosystems Technology. Cheyenne, WY, U.S.A.
- ^e Environment Canada. 2001. Revised Procedures for Adjusting Salinity of Effluent Samples for Marine Sublethal Toxicity Testing Conducted under Environmental Effects Monitoring (EEM) Programs. Method Development and Applications Section, Environmental Technology Centre, December 2001.

Date : 2014-03-27
 yyyy-mm-dd

Approved By : [Signature]
 Project Manager

Work Order : 225024

Sample Number : 39220

Cystocarp Counts at Test Termination

Initiated By : EJ

Initiation Date : 2014-01-29

Terminated By : MS

Termination Date : 2014-02-07

Concentration (%)	Replicate	Plant 1	Plant 2	Plant 3	Plant 4	Plant 5	Replicate Mean	Treatment Mean	Standard Deviation	CV (%)
Control	A	71	40	80	81	38	62.0	84.2	30.8	36.6
	B	62	91	86	127	231	119.4			
	C	54	107	57	67	71	71.2			
Salt Control*	A	62	80	65	58	88	70.6	48.7	27.1	55.6
	B	11	17	35	15	14	18.4			
	C	54	83	60	39	50	57.2			
0.02	A	57	47	29	50	85	53.6	53.7	5.6	10.4
	B	62	61	32	36	50	48.2			
	C	32	51	102	74	38	59.4			
0.07	A	102	108	77	50	32	73.8	56.4	16.3	29.0
	B	24	35	82	72	57	54.0			
	C	46	30	21	68	42	41.4			
0.24	A	27	27	17	31	29	26.2	32.8	5.7	17.4
	B	31	38	39	48	24	36.0			
	C	22	49	44	31	35	36.2			
0.81	A	13	18	13	13	21	15.6	19.0	3.5	18.4
	B	14	11	19	42	27	22.6			
	C	16	19	26	22	11	18.8			
2.7	A	14	1	8	6	12	8.2	8.5	2.7	31.8
	B	4	7	6	26	14	11.4			
	C	0	1	17	1	11	6.0			
8.9	A	3	1	1	0	2	1.4	7.2	10.0	139.5
	B	7	1	77	9	0	18.8			
	C	2	2	3	0	0	1.4			
29.7	A	0	0	0	0	0	0.0	0.1	0.1	173.2
	B	0	0	0	0	1	0.2			
	C	0	0	0	0	0	0.0			
99	A	0	0	0	0	0	0.0	0.2	0.2	100.0
	B	0	0	1	0	0	0.2			
	C	0	0	2	0	0	0.4			

*'Salt Control' is a control prepared by Direct Salt Addition with Instant Ocean™ according to: Salinity Adjustment Guidance Document (2001). Environment Canada, revised December 2001.

*No outlying data points were detected according to Grubbs Test (CETIS)³.

Cumulative Plant Mortality

Observation Period

Concentration (%)	♂ 0 Hours		♀ 0 Hours		♂ 48 Hours		♀ 48 Hours		♀ Test Completion	
	Number	Mortality (%)	Number	Mortality (%)	Number	Mortality (%)	Number	Mortality (%)	Number	Mortality (%)
	Dead		Dead		Dead		Dead		Dead	
Control	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salt Control	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.02	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.07	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.24	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.81	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
8.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
29.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
99	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

Test Data Reviewed By: VC

Date: 2014-02-21

Work Order : 225024
 Sample Number: 39220

WATER CHEMISTRY DATA

Initial Water Chemistry (100% Sample)

	Temperature (°C)	pH	Dissolved O ₂ (mg/L)	O ₂ Saturation (%)*	Salinity (‰)	Pre-aeration Time (h) ²
Initial Chemistry :	23.0	7.8	7.5	94	5	–
Chemistry after Salinity Adjustment ¹ :	22.0	7.7	7.4	105	30	–
Chemistry after Pre-Aeration ² :	–	–	–	–	–	0:45

Exposure Period Water Chemistry

0 hours						48 hours					
Date & Time : 2014-01-29 11:45						Date & Time : 2014-01-31 11:45					
Analyst(s) : MS						Analyst(s) : EJ					
Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)	Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)
99	7.9	7.4	103	30	23.0	99	8.4	7.0	100	30	24.0
29.7	7.9	7.6	105	30	23.0	29.7	8.6	7.1	102	30	24.0
8.9	7.9	7.7	107	30	23.0	8.9	8.7	7.4	108	30	24.0
2.7	7.9	7.8	108	30	23.0	2.7	8.8	7.9	114	30	24.0
0.81	7.9	7.8	108	30	23.0	0.81	8.8	7.6	111	30	24.0
0.24	7.9	7.8	108	30	23.0	0.24	8.8	7.6	111	30	24.0
0.07	7.9	7.8	108	30	23.0	0.07	8.8	7.7	112	30	24.0
0.02	7.9	7.9	107	30	23.0	0.02	8.8	7.5	109	30	24.0
Salt Control	8.1	8.0	109	30	23.0	Salt Control	8.9	8.0	115	30	24.0
Control	7.8	7.7	107	30	23.0	Control	8.9	8.1	116	30	24.0

Recovery Period Water Chemistry

0 hours						Test Completion					
Date & Time : 2014-01-31 11:45						Date & Time : 2014-02-07 10:00					
Analyst(s) : EJ						Analyst(s) : MS					
Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)	Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)
99	7.8	7.0	100	30	23.0	99	8.5	8.2	114	30	23.0
29.7	7.8	7.0	100	30	23.0	29.7	8.4	7.3	103	30	23.0
8.9	7.8	7.0	100	30	23.0	8.9	8.3	7.3	102	30	23.0
2.7	7.8	7.0	100	30	23.0	2.7	8.3	7.4	103	30	23.0
0.81	7.8	7.0	100	30	23.0	0.81	8.5	7.5	106	30	23.0
0.24	7.8	7.0	100	30	23.0	0.24	8.4	7.2	102	30	23.0
0.07	7.8	7.0	100	30	23.0	0.07	8.3	7.2	101	30	23.0
0.02	7.8	7.0	100	30	23.0	0.02	8.4	7.1	100	30	23.0
Salt Control	7.8	7.0	100	30	23.0	Salt Control	8.4	7.2	101	30	23.0
Control	7.8	7.0	100	30	23.0	Control	8.3	7.2	100	30	23.0

Daily Temperature Monitoring

Date	Temp. (°C)	Analyst(s)
2014-01-29	23.0	EJ
2014-01-30	23.0	EJ
2014-01-31	23.0	EJ
2014-02-01	23.0	NK
2014-02-02	23.0	NK
2014-02-03	23.0	EJ
2014-02-04	22.0	EJ
2014-02-05	23.0	EJ
2014-02-06	23.0	EJ
2014-02-07	23.0	MS

¹ if applicable

² @ <100 bubbles/min

* adjusted for barometric pressure

CHAIN OF CUSTODY RECORD



AquaTox Work Order No:

225024

Shipping Address: AquaTox Testing & Consulting Inc.
11B Nicholas Beaver Road, RR #3
Guelph, Ontario Canada N1H 6H9

Voice: (519) 763-4412 Fax: (519) 763-4419

P.O. Number: _____
 Field Sampler Name (print): *Mike Ridgeman*
 Signature: *[Signature]*
 Affiliation: *Operator*
 Sample Storage (prior to shipping): *Keep cool/ ship same day*
 Custody Relinquished by: *Mike Ridgeman*
 Date/Time Shipped: *Jan 27/2014*

Client: *Northern Pulp Treatment Plant*
340 Simpson Lane
Peterborough, Ont. N3S 6K1 X2
 Phone: *902-755-7178*
 Fax: *755-7125*
 Contact: *Mike Ridgeman*

Sample Identification			Analyses Requested								Sample Method and Volume			
Date Collected (yyyy-mm-dd)	Time Collected (e.g. 14:30, 24 hr clock)	Sample Name	AquaTox Sample Number	Temp. on arrival	Silverside Growth	Sea Urchin Fertilization	Champia Reproduction	Blue Mussel Larval Development	Sea Urchin Larval Development	Marine Amphipod Survival	Marine Polychaete Survival and Growth	Other (please specify below)	Grab	Composite
14/01/27	9:00 AM	Point S Fine effluent	39219	6.0		✓	✓							Composite # of Containers: 1 Vol. (L): 1000 1 X 1.5 / 1.0 L
14/01/27	9:20 AM	Point C ASB effluent	39220	6.0		✓	✓							Composite # of Containers: 1 Vol. (L): 1000 1 X 1.5 / 1.0 L

For Lab Use Only
 Received By: *AW*
 Date: *2014-01-28*
 Time: *0915*
 Storage Location: _____
 Storage Temp. (C): _____

Please list any special requests or instructions:



AquaTox Testing & Consulting Inc.
11B Nicholas Beaver Rd.
RR 3
Guelph ON N1H 6H9
Tel: (519) 763-4412 Fax: (519) 763-4419

September 10, 2014

Mr. Dave Davis
Northern Pulp N.S.
P.O. Box 549 Station Main
New Glasgow NS
B2H 5E8

Dear Mr. Davis,

Re: Report on Sublethal Toxicity Analysis of Wastewater for EEM - July 2014

Enclosed are the reports for sublethal testing conducted on the sample of Point C ASB Effluent , collected on 2014-07-21 . Data are presented in electronic format. Please forward a hardcopy to Environment Canada.

You have previously provided us with your unique user name and pass code to access Environment Canada's Sublethal Toxicity Reporting System. In order to enter this information on your behalf, we require your written permission for each sampling event. Please review the reports and email your approval to Jasmine Lauinger (jlauinger@aquatox.ca). We will then submit the results to Environment Canada. In the future, if you would prefer us to enter the data automatically at the time these reports are issued, please indicate this in writing.

If you have any questions about the results, do not hesitate to contact me.

Sincerely,

AQUATOX TESTING & CONSULTING INC.

A handwritten signature in black ink, appearing to read "Martina Rendas", written over the printed name.

Martina Rendas

Project Manager

MR/jl



AquaTox Testing & Consulting Inc.
11B Nicholas Beaver Rd.
RR 3
Guelph ON N1H 6H9
Tel: (519) 763-4412 Fax: (519) 763-4419

Champia parvula Test Report
Reproductive Inhibition
1 of 4

Work Order : 226090
Sample Number : 40809

SAMPLE IDENTIFICATION

Company : Northern Pulp N.S.
Location : New Glasgow NS
Substance : Point C ASB Effluent
Sampling Method : Not given
Sampled By : M.P.
Temp. on arrival : 17.5°C
Sample Description : Cloudy, brown, odourless
Test Method : Test of Sexual Reproduction using the Red Macroalga *Champia parvula*. EPA-821-R-02-014, October 2002, Method 1009.0, with Canadian adaptations (Environment Canada 1998, 1999).

Date Collected : 2014-07-21
Time Collected : 11:15
Date Received : 2014-07-22
Time Received : 08:40
Date Tested : 2014-07-23

TEST RESULTS

Effect	Value	95% Confidence Limits	Statistical Method
IC25 (Reproduction)	4.64%	0.18-4.94	Linear Interpolation (Toxstat 3.5) d

The results reported relate only to the sample tested.

SODIUM DODECYL SULPHATE (SDS) REFERENCE TOXICANT DATA

Date Tested : 2014-07-09
Organism Batch : Cp14-07
Test Duration : 48 hrs exposure, 7 days recovery
IC25 (Reproduction) : 0.114 mg/L
95% Confidence Limits : 0.081 - 0.198 mg/L

Statistical Method : Linear Interpolation (CETIS)^a
Historical Mean IC25 : 0.092 mg/L
Warning Limits (\pm 2SD) : 0.063 - 0.133 mg/L
Analyst(s) : VC

The reference toxicity test was performed under the same experimental conditions as those used with the test sample.

TEST CONDITIONS

Test Organism : *Champia parvula*
Organism Batch : Cp14-07
Test Organism Source : In-house culture
Life Stage : Sexually mature
Mean Culture Mortality : 0 % (previous 7 days)
Males per Test Chamber : 2 (having sori with spermatia)
Females per Test Chamber : 5 (having trichogynes)
pH Adjustment : None
Exposure Duration : 48 hours
Aeration during Exposure : None
Recovery Duration : 7 days
Aeration during Recovery : Yes; \leq 100 bubbles/min

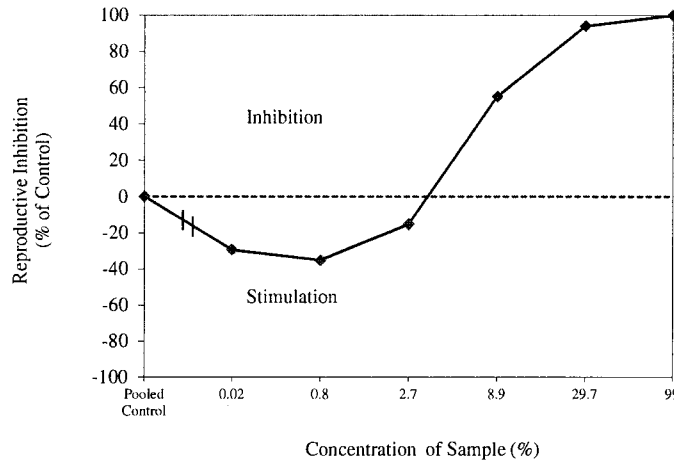
Test Type : Static
Sample Filtration : None
Control/Dilution Water : Natural seawater (no chemicals added)
Control/Dilution Water Source : Pointe-du-Chene, Shediac Bay NB
Concentrations Tested : 5 (minimum), Control and Salt Control
Replicates per Concentration : 3
Volume per Replicate : 100 mL
Test Chamber : 240 mL polystyrene cup
Depth of Test Solution : 5.0 cm
Photoperiod (h) : 16 light / 8 dark
Light Intensity : 1056 - 1299 lux
Test Method Deviation(s) : None

COMMENTS

- No organisms appearing unhealthy, discoloured, or otherwise stressed, or undergoing unusual treatment, were used in the test.
- All test validity criteria as specified in the test method cited above were satisfied.
- Control data were pooled prior to statistical analysis of the test endpoint(s), as required by the test method.
- In test concentrations where cystocarp counts were stimulated (greater than the pooled controls), data were replaced with pooled control values for the purposes of statistical analysis, as recommended by Environment Canada (2005).
- Maximum effluent concentration tested was 99% due to the addition of nutrient stocks to the 100% effluent.
- This report is based on the Environment Canada Guidance Document: Report Assessment Checklist for the Pulp and Paper and Metal Mining EEM Programs, April 2005.

Work Order : 226090
 Sample Number : 40809

Champia parvula Reproductive Inhibition



SALINITY ADJUSTMENT

Method : Direct Salt Addition
 Salt Added : Instant Ocean™
 Aging Conditions : 4±2°C, sealed in complete darkness, with minimal air space
 Reference : Salinity Adjustment Guidance Document. Environment Canada, revised December 2001^e.

Date	Initial Salinity (‰)	Initial pH	Volume Adjusted (L)	Amount of Salt Added (g)	Salinity After Adjustment	pH After Salinity Adjustment	Analyst(s)	Aging Time (h)
2014-07-22	4	7.7	1.0	32	31	7.7	VC	18.1

REFERENCES

- ^a CETIS, © 2001-2007. V.1.8.5.5. Comprehensive Environmental Toxicity Information System. Tidepool Scientific Software, McKinleyville, Calif. 95519[Program on disk and printed User's Guide].
- ^d West, Inc. and D. Gulley. 1996. Toxstat Release 3.5. Western Ecosystems Technology. Cheyenne, WY, U.S.A.
- ^e Environment Canada. 2001. Revised Procedures for Adjusting Salinity of Effluent Samples for Marine Sublethal Toxicity Testing Conducted under Environmental Effects Monitoring (EEM) Programs. Method Development and Applications Section, Environmental Technology Centre, December 2001.
- Environment Canada, 2005. Guidance Document on Statistical Methods for Environmental Toxicity Tests. Environmental Protection Series, Ottawa, Ont., Rept. EPS 1/RM/46.

Date : 2014-09-10
 yyyy-mm-dd

Approved By : 
 Project Manager

Work Order : 226090
 Sample Number : 40809

Cystocarp Counts at Test Termination

Initiated By : VC/MS
 Initiation Date : 2014-07-23
 Terminated By : MS
 Termination Date : 2014-08-01

Concentration (%)	Replicate	Plant 1	Plant 2	Plant 3	Plant 4	Plant 5	Replicate Mean	Treatment Mean	Standard Deviation	CV (%)
Control	A	30	31	32	27	34	30.8	27.0	5.4	20.1
	B	24	14	24	21	21	20.8			
	C	18	39	26	25	39	29.4			
Salt Control*	A	13	24	21	11	15	16.8	14.5	2.1	14.6
	B	12	11	14	12	14	12.6			
	C	13	11	11	16	20	14.2			
0.02	A	30	29	39	28	20	29.2	26.9	2.4	8.9
	B	18	22	26	25	31	24.4			
	C	19	34	26	18	38	27.0			
0.07	A	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-			
	C	-	-	-	-	-	-			
0.24	A	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-			
	C	-	-	-	-	-	-			
0.8	A	19	37	20	46	11	26.6	28.1	1.3	4.6
	B	18	34	28	35	28	28.6			
	C	31	18	28	31	37	29.0			
2.7	A	8	11	15	26	19	15.8	23.9	8.5	35.6
	B	20	38	27	12	19	23.2			
	C	40	26	34	17	47	32.8			
8.9	A	8	12	5	9	11	9.0	9.3	0.3	3.3
	B	7	9	12	12	8	9.6			
	C	5	13	8	6	15	9.4			
29.7	A	3	6	2	1	3	3.0	1.3	1.6	122.6
	B	0	0	0	0	0	0.0			
	C	1	0	1	1	1	0.8			
99	A	0	0	0	0	0	0.0	0.0	0.0	0.0
	B	0	0	0	0	0	0.0			
	C	0	0	0	0	0	0.0			

"-" = not counted/not required

*'Salt Control' is a control prepared by Direct Salt Addition with Instant Ocean™ according to: Salinity Adjustment Guidance Document (2001). Environment Canada, revised December 2001.

•No outlying data points were detected according to Grubbs Test (CETIS)².

Cumulative Plant Mortality

Concentration (%)	Observation Period									
	♂ 0 Hours		♀ 0 Hours		♂ 48 Hours		♀ 48 Hours		♀ Test Completion	
	Number Dead	Mortality (%)	Number Dead	Mortality (%)	Number Dead	Mortality (%)	Number Dead	Mortality (%)	Number Dead	Mortality (%)
Control	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salt Control	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.02	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.07	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.24	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
8.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
29.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
99	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

Test Data Reviewed By: JL

Date: 2014-09-05

Work Order : 226090
Sample Number: 40809

WATER CHEMISTRY DATA

Initial Water Chemistry (100% Sample)

	Temperature (°C)	pH	Dissolved O ₂ (mg/L)	O ₂ Saturation (%)*	Salinity (‰)	Pre-aeration Time (h) ²
Initial Chemistry :	24.0	7.9	5.8	72	4	-
Chemistry after Salinity Adjustment ¹ :	24.0	7.7	5.7	85	31	-
Chemistry after Pre-Aeration ² :	-	-	-	-	-	0:00

Exposure Period Water Chemistry

0 hours						48 hours					
Date & Time : 2014-07-23 11:25						Date & Time : 2014-07-25 12:45					
Analyst(s) : VC						Analyst(s) : MS					
Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)	Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)
99	7.8	6.3	91	31	23.0	99	8.5	6.5	94	30	23.0
29.7	7.8	6.8	98	31	23.0	29.7	8.5	7.0	101	30	23.0
8.9	7.8	6.8	99	30	23.0	8.9	8.4	7.1	103	30	23.0
2.7	7.8	6.9	100	30	23.0	2.7	8.5	7.2	105	30	23.0
0.8	7.8	6.9	100	30	23.0	0.8	8.4	7.0	102	30	23.0
0.24	7.8	6.9	100	30	23.0	0.24	8.5	7.2	104	30	23.0
0.07	7.8	6.9	100	30	23.0	0.07	8.4	7.2	103	30	23.0
0.02	7.8	6.9	100	30	23.0	0.02	8.4	7.2	104	30	23.0
Salt Control	8.0	6.9	100	30	23.0	Salt Control	8.4	7.4	107	30	23.0
Control	7.8	6.9	100	30	23.0	Control	8.4	7.4	106	30	23.0

Recovery Period Water Chemistry

0 hours						Test Completion					
Date & Time : 2014-07-25 MS						Date & Time : 2014-08-01 9:00					
Analyst(s) : MS						Analyst(s) : MS					
Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)	Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)
99	8.2	7.0	100	30	23.0	99	8.3	6.1	87	30	23.0
29.7	8.2	7.0	100	30	23.0	29.7	8.3	6.8	96	30	23.0
8.9	8.2	7.0	100	30	23.0	8.9	8.3	6.7	96	30	23.0
2.7	8.2	7.0	100	30	23.0	2.7	8.3	6.6	95	30	23.0
0.8	8.2	7.0	100	30	23.0	0.8	8.4	6.6	95	30	23.0
0.24	8.2	7.0	100	30	23.0	0.24	8.3	6.6	95	30	23.0
0.07	8.2	7.0	100	30	23.0	0.07	8.4	6.5	92	30	23.0
0.02	8.2	7.0	100	30	23.0	0.02	8.5	6.4	92	30	23.0
Salt Control	8.2	7.0	100	30	23.0	Salt Control	8.4	6.6	94	30	23.0
Control	8.2	7.0	100	30	23.0	Control	8.4	6.3	90	30	23.0

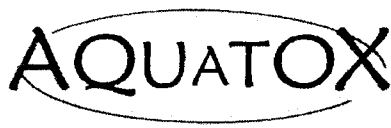
Daily Temperature Monitoring

Date	Temp. (°C)	Analyst(s)
2014-07-23	24.0	VC/MS
2014-07-24	24.0	MS
2014-07-25	24.0	VC
2014-07-26	23.0	VC
2014-07-27	23.0	VC
2014-07-28	23.0	MS
2014-07-29	23.0	MS
2014-07-30	23.0	MS
2014-07-31	23.0	MS
2014-08-01	23.0	MS

¹ if applicable

² @ <100 bubbles/min

* adjusted for barometric pressure



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Sea Urchin Test Report
Fertilization Inhibition
1 of 4

Work Order : 226090
Sample Number : 40809

SAMPLE IDENTIFICATION

Company : Northern Pulp N.S.
Location : New Glasgow NS
Substance : Point C ASB Effluent
Sampling Method : Not given
Sampled By : M.P.
Temp. on arrival : 17.5°C
Sample Description : Cloudy, brown, odourless
Date Collected : 2014-07-21
Time Collected : 11:15
Date Received : 2014-07-22
Time Received : 08:40
Date Tested : 2014-07-24
Test Method : Fertilization Assay Using Echinoids (Sea Urchins and Sand Dollars). Environment Canada, Conservation and Protection. Ottawa, Ontario. EPS 1/RM/27, 2nd ed. (February 2011).

TEST RESULTS

Effect	Value	95% Confidence Limits	Statistical Method
IC25 (Fertilization)	13.4%	11.5-15.2	Non Linear Regression* (CETIS) a

The results reported relate only to the sample tested.

COPPER (AS COPPER SULPHATE) REFERENCE TOXICANT DATA

Date Tested : 2014-07-24
Gamete Batch : Ur14-07-01
Test Duration : 20 minutes
IC25 Fertilization : 190 µg/L
95% Confidence Limits : 182 - 197 µg/L
Statistical Method : Nonlinear Regression* (CETIS)^a
Historical Mean IC25 : 132 µg/L
Warning Limits (± 2SD) : 64 - 272 µg/L
Analyst(s) : AS/SF

The reference toxicant test was performed under the same experimental conditions as those used with the test sample.

TEST CONDITIONS

Test Vessel : 20 mL glass scintillation vial
Volume per Replicate : 10 mL
Number of Replicates : 4 per treatment
Depth of Test Solution : Approx. 3 cm
Sperm Density : 40000000 per vessel
Sperm : Egg Ratio : 20000 : 1
Males Used to Pool Sperm : 3
Females Used to Pool Eggs : 3
Control/Dilution Water¹ : Artificial Sea Water
Sperm Exposure Time² : 20 min
Egg Exposure Time : 10 min
Total Duration of Test : 20 min
pH Adjustment : None
Sample Filtration : None
Test Aeration : None
Test Method Deviation(s) : None

¹no additional chemicals

²10 min exposure, continued for an additional 10 min after addition of eggs

COMMENTS

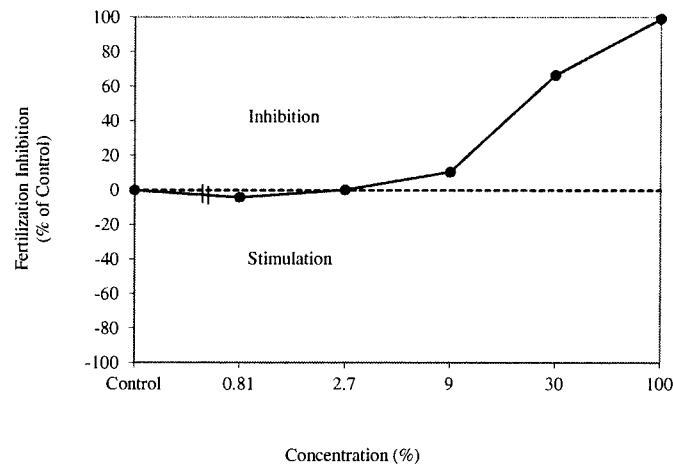
*Binomial weighting (CETIS^a) was applied.

•All test validity criteria as specified in the test method cited above were satisfied.

Work Order : 226090

Sample Number : 40809

Sea Urchin Fertilization Inhibition



TEST ORGANISM

Adult Test Organism : *Lytechinus pictus*
 Adult Organism Source : Marinus Scientific
 Source Location : Garden Grove CA USA
 Date Received : 2013-05-30
 Holding Water : Artificial Sea Water
 Holding Temperature : 12 - 15 °C

Holding Salinity : 34 ± 2 ‰
 Holding Vessel : Glass aquaria
 Adult Mortality Rate : 0% (previous 7 days)
 Life Stage Tested : Gamete (sperm/egg)
 Gamete Batch Tested : Ur14-07-01

Reference : Recommended Procedure for the Importation of Test Organisms for Sublethal Toxicity Testing. Environment Canada, September 1999.

REFERENCES

^a CETIS, © 2001-2007. V.1.8.5.5. Comprehensive Environmental Toxicity Information System. Tidepool Scientific Software, McKinleyville, Calif. 95519[Program on disk and printed User's Guide].

^cEnvironment Canada. 2001. Revised Procedures for Adjusting Salinity of Effluent Samples for Marine Sublethal Toxicity Testing Conducted under Environmental Effects Monitoring (EEM) Programs. Method Development and Applications Section, Environmental Technology Centre, December 2001.

Date : 2014-09-10
 yyyy-mm-dd

Approved By : [Signature]
 Project Manager

Work Order : 226090

Sample Number : 40809

FERTILIZATION DATA

Test Conducted By : AS/SM

Enumerated By : DK

Concentration (%)	Replicate	Fertilized	Unfertilized	% Fertilized	Treatment Mean Fertilization (%)	Standard Deviation
Control	A	93	7	93	92	3.74
	B	87	13	87		
	C	96	4	96		
	D	92	8	92		
Blank	A	0	100	0	0	0.00
	B	0	100	0		
	C	0	100	0		
	D	0	100	0		
0.02	A	-	-	-	-	-
	B	-	-	-		
	C	-	-	-		
	D	-	-	-		
0.07	A	-	-	-	-	-
	B	-	-	-		
	C	-	-	-		
	D	-	-	-		
0.24	A	-	-	-	-	-
	B	-	-	-		
	C	-	-	-		
	D	-	-	-		
0.81	A	98	2	98	95.75	1.71
	B	95	5	95		
	C	96	4	96		
	D	94	6	94		
2.7	A	93	7	93	91.75	2.75
	B	90	10	90		
	C	89	11	89		
	D	95	5	95		
9	A	88	12	88	82.25	5.44
	B	82	18	82		
	C	84	16	84		
	D	75	25	75		
30	A	24	76	24	30.75	6.40
	B	28	72	28		
	C	39	61	39		
	D	32	68	32		
100	A	2	98	2	0.75	0.96
	B	0	100	0		
	C	0	100	0		
	D	1	99	1		

"-" = not counted/not required

NOTES :

- No organisms or gametes exhibiting unusual appearance, behaviour, or undergoing unusual treatment were used in the test.
- Gamete viability test was performed prior to pooling of test gametes.
- A pre-test was conducted prior to testing.
- Preserved eggs were stored for 14 days prior to enumeration.
- No outlying data points were detected according to Grubbs Test (CETIS)^a

Data Reviewed By : SF
 Date : 2014-08-23

Work Order : 226090
 Sample Number : 40809

INITIAL WATER CHEMISTRY (100% SAMPLE)

	Temp.(°C)	pH	Dissolved O ₂ (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Pre-aeration Time (h)
Initial Chemistry:	24.0	8.1	6.8	84	4	-
Chemistry after Salinity Adjustment ³ :	21.0	7.8	7.3	104	30	-
Chemistry after Pre-Aeration ^{3,4} :	21.0	8.1	4.6	64	30	0:20

SALINITY ADJUSTMENT

Method :	Direct Salt Addition	Volume Adjusted :	500 mL
Salt Added :	Instant Ocean™	Amount of Salt Added :	16 g
Date Adjusted :	2014-07-23	Aging Time :	~17 hours
Aging Conditions :	Sealed, complete darkness, minimal air space	Aging Temperature :	4±2°C

Reference : Salinity Adjustment Guidance Document. Environment Canada, revised December 2001^c.

EXPOSURE CONCENTRATIONS WATER CHEMISTRY

Concentration (%)	Temp.(°C)	pH	Dissolved O ₂ (mg/L)	O ₂ Sat. (%)*	Salinity (‰)
Control	21.0	8.3	7.1	100	30
Blank	21.0	8.3	7.1	100	30
0.02	21.0	8.3	7.1	99	30
0.07	21.0	-	-	-	-
0.24	21.0	-	-	-	-
0.81	21.0	-	-	-	-
2.7	21.0	-	-	-	-
9	21.0	8.3	4.7	65	30
30	21.0	-	-	-	-
100	21.0	8.1	4.6	64	30

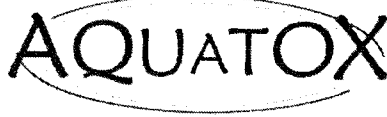
* % saturation, adjusted for temperature and barometric pressure

"-" not required/not measured

³ if required

⁴ at <100 bubbles/min

Data Reviewed By : JE
 Date : 2014-09-05



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April 23, 2015

Mr. Dave Davis
Northern Pulp N.S.
P.O. Box 549 Station Main
New Glasgow NS
B2H 5E8

Dear Mr. Davis,

Re: Report on Sublethal Toxicity Analysis of Wastewater for EEM - March 2015

Enclosed are the reports for sublethal testing conducted on the sample of Point C (ASB effluent), collected on 2015-03-17. Data are presented in electronic format. Please forward a hardcopy to Environment Canada.

You have previously provided us with your unique user name and pass code to access Environment Canada's Sublethal Toxicity Reporting System. In order to enter this information on your behalf, we require your written permission for each sampling event. Please review the reports and email your approval to Jasmine Lauinger (jlauinger@aquatox.ca). We will then submit the results to Environment Canada. In the future, if you would prefer us to enter the data automatically at the time these reports are issued, please indicate this in writing.

If you have any questions about the results, do not hesitate to contact me.

Sincerely,

AQUATOX TESTING & CONSULTING INC.

A handwritten signature in black ink, appearing to read "Martina Rendas", with a long, sweeping flourish extending to the right.

Martina Rendas
Project Manager

MR/jl



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Work Order : 227818
Sample Number : 43357

SAMPLE IDENTIFICATION

Company : Northern Pulp N.S.
Location : New Glasgow NS
Substance : Point C (ASB effluent)
Sampling Method : Grab
Sampled By : R. Francis
Temp. on arrival : 8.0°C
Sample Description : Cloudy, brown, odourless
Date Collected : 2015-03-17
Time Collected : 08:44
Date Received : 2015-03-20
Time Received : 08:40
Date Tested : 2015-03-20
Test Method : Fertilization Assay Using Echinoids (Sea Urchins and Sand Dollars). Environment Canada, Conservation and Protection. Ottawa, Ontario. EPS 1/RM/27, 2nd ed. (February 2011).

TEST RESULTS

Effect	Value	95% Confidence Limits	Statistical Method
IC25 (Fertilization)	1.77%	1.56-1.98	Non Linear Regression* (CETIS) a

The results reported relate only to the sample tested.

COPPER (AS COPPER SULPHATE) REFERENCE TOXICANT DATA

Date Tested : 2015-03-20
Gamete Batch : Ur15-03-03
Test Duration : 20 minutes
IC25 Fertilization : 178 µg/L
95% Confidence Limits : 155 - 207 µg/L
Statistical Method : Linear Interpolation (CETIS)^a
Historical Mean IC25 : 132 µg/L
Warning Limits (± 2SD) : 60 - 290 µg/L
Analyst(s) : DK/SEC

The reference toxicant test was performed under the same experimental conditions as those used with the test sample.

TEST CONDITIONS

Test Vessel : 20 mL glass scintillation vial
Volume per Replicate : 10 mL
Number of Replicates : 4 per treatment
Depth of Test Solution : Approx. 3 cm
Sperm Density : 40000000 per vessel
Sperm : Egg Ratio : 20000 : 1
Males Used to Pool Sperm : 4
Females Used to Pool Eggs : 3
Control/Dilution Water¹ : Artificial Sea Water
Sperm Exposure Time² : 20 min
Egg Exposure Time : 10 min
Total Duration of Test : 20 min
pH Adjustment : None
Sample Filtration : None
Test Aeration : None
Test Method Deviation(s) : None

¹no additional chemicals

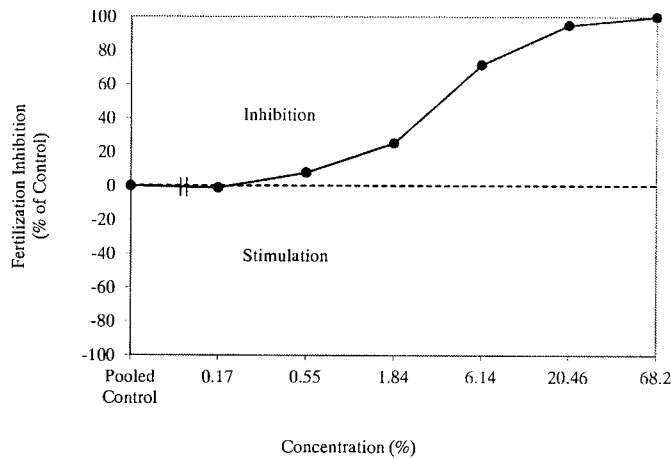
² 10 min exposure, continued for an additional 10 min after addition of eggs

COMMENTS

- *Binomial weighting (CETIS^a) was applied.
- All test validity criteria as specified in the test method cited above were satisfied.
- No significant difference ($\alpha=0.05$) between controls was detected by Equal Variance t Two Sample Test (CETIS)^a. Therefore, controls were pooled prior to statistical analysis.

Work Order : 227818
 Sample Number : 43357

Sea Urchin Fertilization Inhibition



TEST ORGANISM

Adult Test Organism :	<i>Lytechinus pictus</i>	Holding Salinity :	34 ± 2 ‰
Adult Organism Source :	Marinus Scientific	Holding Vessel :	Glass aquaria
Source Location :	Garden Grove CA USA	Adult Mortality Rate :	0% (previous 7 days)
Date Received :	2013-11-12	Life Stage Tested :	Gamete (sperm/egg)
Holding Water :	Artificial Sea Water	Gamete Batch Tested :	Ur15-03-03
Holding Temperature :	12 - 15 °C		

Reference : Recommended Procedure for the Importation of Test Organisms for Sublethal Toxicity Testing. Environment Canada, September 1999.

REFERENCES

^a CETIS, © 2000-2013. V.1.8.7.17. Comprehensive Environmental Toxicity Information System. Tidepool Scientific Software, McKinleyville, Calif. 95519[Program on disk and printed User's Guide].

^eEnvironment Canada. 2001. Revised Procedures for Adjusting Salinity of Effluent Samples for Marine Sublethal Toxicity Testing Conducted under Environmental Effects Monitoring (EEM) Programs. Method Development and Applications Section, Environmental Technology Centre, December 2001.

Date : 2015-04-22
 yyyy-mm-dd

Approved By : 
 Project Manager

Work Order : 227818
 Sample Number : 43357

FERTILIZATION DATA

 Test Conducted By : DK/SEC
 Enumerated By : DK

Concentration (%)	Replicate	Fertilized	Unfertilized	% Fertilized	Treatment Mean Fertilization (%)	Standard Deviation
Control	A	93	7	93	91.25	1.71
	B	91	9	91		
	C	89	11	89		
	D	92	8	92		
HSB Control	A	92	8	92	94.25	2.06
	B	96	4	96		
	C	96	4	96		
	D	93	7	93		
Blank	A	0	100	0	0	0.00
	B	0	100	0		
	C	0	100	0		
	D	0	100	0		
0.01	A	-	-	-	-	-
	B	-	-	-		
	C	-	-	-		
	D	-	-	-		
0.05	A	-	-	-	-	-
	B	-	-	-		
	C	-	-	-		
	D	-	-	-		
0.17	A	95	5	95	93.75	1.89
	B	94	6	94		
	C	95	5	95		
	D	91	9	91		
0.55	A	88	12	88	85.5	2.08
	B	85	15	85		
	C	83	17	83		
	D	86	14	86		
1.84	A	69	31	69	69.25	3.30
	B	65	35	65		
	C	70	30	70		
	D	73	27	73		
6.14	A	24	76	24	26.25	1.71
	B	26	74	26		
	C	28	72	28		
	D	27	73	27		
20.46	A	3	97	3	4.5	3.11
	B	4	96	4		
	C	2	98	2		
	D	9	91	9		
68.2	A	0	100	0	0	0.00
	B	0	100	0		
	C	0	100	0		
	D	0	100	0		

"-" = not counted/not required

NOTES :

- No organisms or gametes exhibiting unusual appearance, behaviour, or undergoing unusual treatment were used in the test.
- Gamete viability test was performed prior to pooling of test gametes.
- A pre-test was conducted prior to testing.
- Preserved eggs were stored for 4 days prior to enumeration.
- 'HSB Control' is a control prepared by addition of Hypersaline Brine to reverse osmosis water to achieve test salinity (30±2 ‰) according to Environment Canada, 2001^c.
- No outlying data points were detected according to Grubbs Test (CETIS)³

 Data Reviewed By : SF
 Date : 2015-03-31

Work Order : 227818

Sample Number : 43357

INITIAL WATER CHEMISTRY (100% SAMPLE)

	Temp.(°C)	pH	Dissolved O ₂ (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Pre-aeration Time (h)
Initial Chemistry:	20.0	8.0	5.9	70	2	-
Chemistry after Salinity Adjustment ³ :	19.0	7.9	5.2	69	31	-
Chemistry after Pre-Aeration ^{3,4} :	-	-	-	-	-	0:00

SALINITY ADJUSTMENT

Method :	Hypersaline Brine (aged 10 days)	Volume Adjusted :	1500 mL
Salt Added :	Instant Ocean™	Amount of Brine Added :	477 mL
Date Adjusted :	2015-03-20	Aging Time :	2:05 h
Aging Conditions :	Sealed, complete darkness, minimal air space	Aging Temperature :	4±2°C

 Reference : Salinity Adjustment Guidance Document. Environment Canada, revised December 2001⁶.

EXPOSURE CONCENTRATIONS WATER CHEMISTRY

Concentration (%)	Temp.(°C)	pH	Dissolved O ₂ (mg/L)	O ₂ Sat. (%)*	Salinity (‰)
Control	20.0	8.2	7.4	100	31
HSB Control	20.0	8.0	7.1	98	31
Blank	20.0	8.2	7.4	100	31
0.01	20.0	8.2	6.6	90	31
0.05	20.0	-	-	-	-
0.17	20.0	-	-	-	-
0.55	20.0	-	-	-	-
1.84	20.0	-	-	-	-
6.14	20.0	8.2	6.9	93	31
20.46	20.0	-	-	-	-
68.2	20.0	8.0	6.2	83	31

* % saturation, adjusted for temperature and barometric pressure

"- " not required/not measured

³ if required

⁴ at <100 bubbles/min

 Data Reviewed By : J
 Date : 2015-04-22



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Champia parvula Test Report
Reproductive Inhibition
1 of 4

Work Order : 227818
Sample Number : 43357

SAMPLE IDENTIFICATION

Company : Northern Pulp N.S.
Location : New Glasgow NS
Substance : Point C (ASB effluent)
Sampling Method : Grab
Sampled By : R. Francis
Temp. on arrival : 8.0°C
Sample Description : Cloudy, brown, odourless
Test Method : Test of Sexual Reproduction using the Red Macroalga *Champia parvula*. EPA-821-R-02-014, October 2002, Method 1009.0, with Canadian adaptations (Environment Canada 1998, 1999).

Date Collected : 2015-03-17
Time Collected : 08:44
Date Received : 2015-03-20
Time Received : 08:40
Date Tested : 2015-03-20

TEST RESULTS

Effect	Value	95% Confidence Limits	Statistical Method
IC25 (Reproduction)	0.37%	0.05-1.12	Linear Interpolation (CETIS) a

The results reported relate only to the sample tested.

SODIUM DODECYL SULPHATE (SDS) REFERENCE TOXICANT DATA

Date Tested : 2015-03-18
Organism Batch : Cp15-03
Test Duration : 48 hrs exposure, 7 days recovery
IC25 (Reproduction) : 0.110 mg/L
95% Confidence Limits : 0.081 - 0.177 mg/L

Statistical Method : Linear Interpolation (Toxstat)^d
Historical Mean IC25 : 0.268 mg/L
Warning Limits (\pm 2SD) : 0.069 - 1.040 mg/L
Analyst(s) : MS

The reference toxicity test was performed under the same experimental conditions as those used with the test sample.

TEST CONDITIONS

Test Organism : *Champia parvula*
Organism Batch : Cp15-03
Test Organism Source : In-house culture
Life Stage : Sexually mature
Mean Culture Mortality : 0 % (previous 7 days)
Males per Test Chamber : 2 (having sori with spermatia)
Females per Test Chamber : 5 (having trichogynes)
pH Adjustment : None
Exposure Duration : 48 hours
Aeration during Exposure : None
Recovery Duration : 7 days
Aeration during Recovery : Yes; \leq 100 bubbles/min

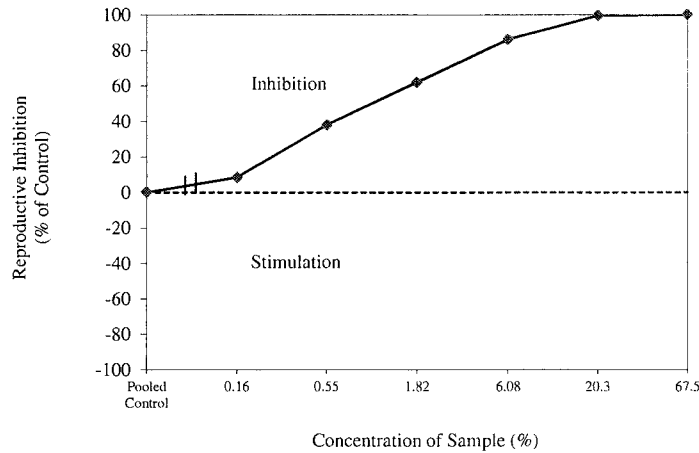
Test Type : Static
Sample Filtration : None
Control/Dilution Water : Natural seawater (no chemicals added)
Control/Dilution Water Source : Pointe-du-Chene, Shediac Bay NB
Concentrations Tested : 5 (minimum), Control and Salt Control
Replicates per Concentration : 3
Volume per Replicate : 100 mL
Test Chamber : 240 mL polystyrene cup
Depth of Test Solution : 5.0 cm
Photoperiod (h) : 16 light / 8 dark
Light Intensity : 812 - 1341 lux
Test Method Deviation(s) : None

COMMENTS

- No organisms appearing unhealthy, discoloured, or otherwise stressed, or undergoing unusual treatment, were used in the test.
- All test validity criteria as specified in the test method cited above were satisfied.
- Control data were pooled prior to statistical analysis of the test endpoint(s), as required by the test method.
- This report is based on the Environment Canada Guidance Document: Report Assessment Checklist for the Pulp and Paper and Metal Mining EEM Programs, April 2005.

Work Order : 227818
 Sample Number : 43357

Champia parvula Reproductive Inhibition



SALINITY ADJUSTMENT

Method : Hypersaline Brine Addition
 Salt Added : Instant Ocean™
 Aging Conditions : 4±2°C, sealed in complete darkness, with minimal air space
 Reference : Salinity Adjustment Guidance Document. Environment Canada, revised December 2001^e.

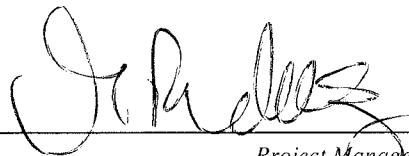
Date	Initial Salinity (‰)	Initial pH	Volume Adjusted (L)	Amount of Brine Added (mL)	Salinity After Adjustment (‰)	pH After Salinity Adjustment	Analyst(s)	Aging Time (h)
2015-03-20	2	8	1.5	477	31	7.9	DK, SEC	3.6

REFERENCES

- ^a CETIS™, © 2000-2013. V.1.8.7.17. Comprehensive Environmental Toxicity Information System. Tidepool Scientific Software, LLC, McKinleyville, CA 95519 [Program on disk and printed User's Guide].
- ^d West, Inc. and D. Gulley. 1996. Toxstat Release 3.5. Western Ecosystems Technology. Cheyenne, WY, U.S.A.
- ^e Environment Canada. 2001. Revised Procedures for Adjusting Salinity of Effluent Samples for Marine Sublethal Toxicity Testing Conducted under Environmental Effects Monitoring (EEM) Programs. Method Development and Applications Section, Environmental Technology Centre, December 2001.

Date : 2015-04-22
 yyyy-mm-dd

Approved By :


 Project Manager

Work Order : 227818
 Sample Number : 43357

Cystocarp Counts at Test Termination

Initiated By : MS/VC
 Initiation Date : 2015-03-20
 Terminated By : VC
 Termination Date : 2015-03-29

Concentration (%)	Replicate	Plant 1	Plant 2	Plant 3	Plant 4	Plant 5	Replicate Mean	Treatment Mean	Standard Deviation	CV (%)
Control	A	18	16	14	18	18	16.8	15.5	1.3	8.4
	B	13	17	11	16	14	14.2			
	C	16	12	11	17	22	15.6			
HSB Control*	A	13	18	15	17	17	16.0	15.3	1.3	8.7
	B	19	13	20	13	16	16.2			
	C	14	12	10	13	20	13.8			
0.01	A	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-			
	C	-	-	-	-	-	-			
0.05	A	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-			
	C	-	-	-	-	-	-			
0.16	A	17	9	9	10	13	11.6	14.1	2.2	15.8
	B	17	14	13	12	19	15.0			
	C	18	11	17	14	19	15.8			
0.55	A	10	6	12	6	8	8.4	9.6	3.2	33.1
	B	4	10	10	6	6	7.2			
	C	10	15	13	16	12	13.2			
1.82	A	7	5	8	4	9	6.6	5.9	1.3	21.7
	B	8	8	7	7	3	6.6			
	C	3	5	2	9	3	4.4			
6.08	A	2	1	0	0	1	0.8	2.1	1.2	57.3
	B	3	3	2	4	4	3.2			
	C	2	0	4	1	5	2.4			
20.3	A	0	0	0	0	0	0.0	0.1	0.1	173.2
	B	0	0	1	0	0	0.2			
	C	0	0	0	0	0	0.0			
67.5	A	0	0	0	0	0	0.0	0.0	0.0	0.0
	B	0	0	0	0	0	0.0			
	C	0	0	0	0	0	0.0			

"-" = not counted/not required

*HSB Control' is a control prepared by Hypersaline Brine Addition to reverse osmosis water according to: Salinity Adjustment Guidance Document (2001). Environment Canada, revised December 2001.

•No outlying data points were detected according to Grubbs Test (CETIS)².

Cumulative Plant Mortality

Observation Period

Concentration (%)	♂ 0 Hours		♀ 0 Hours		♂ 48 Hours		♀ 48 Hours		♀ Test Completion	
	Number	Mortality	Number	Mortality	Number	Mortality	Number	Mortality	Number	Mortality
	Dead	(%)	Dead	(%)	Dead	(%)	Dead	(%)	Dead	(%)
Control	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
HSB Control	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.01	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.05	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.16	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.55	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
1.82	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
6.08	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
67.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

Test Data Reviewed By: VC

Date: 2015-04-13

Work Order : 227818
Sample Number: 43357

WATER CHEMISTRY DATA

Initial Water Chemistry (100% Sample)

	Temperature (°C)	pH	Dissolved O ₂ (mg/L)	O ₂ Saturation (%)*	Salinity (‰)	Pre-aeration Time (h) ²
Initial Chemistry :	23.0	8.0	5.9	70	2	-
Chemistry after Salinity Adjustment ¹ :	23.0	7.9	6.5	93	31	-
Chemistry after Pre-Aeration ² :	-	-	-	-	-	0:00

Exposure Period Water Chemistry

0 hours						48 hours					
Date & Time : 2015-03-20 16:00						Date & Time : 2015-03-22 15:45					
Analyst(s) : VC						Analyst(s) : MS					
Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)	Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)
67.5	7.9	6.7	96	31	23.0	67.5	8.5	7.4	109	30	24.0
20.3	7.9	7.0	102	30	23.0	20.3	8.6	7.6	112	30	24.0
6.08	7.9	7.0	100	30	23.0	6.08	8.7	7.7	112	30	24.0
1.82	7.9	7.1	101	30	23.0	1.82	8.8	7.9	115	30	24.0
0.55	7.9	7.1	102	30	23.0	0.55	8.7	7.5	111	30	24.0
0.16	8.0	7.0	100	30	23.0	0.16	8.7	7.1	102	30	24.0
0.05	8.0	7.1	101	30	23.0	0.05	8.7	7.0	99	30	24.0
0.01	8.0	7.0	100	30	23.0	0.01	8.8	8.1	112	30	24.0
HSB Control	7.7	7.1	101	30	23.0	HSB Control	8.6	8.3	116	30	24.0
Control	8.0	7.0	100	30	23.0	Control	8.7	7.8	110	30	24.0

Recovery Period Water Chemistry

0 hours						Test Completion					
Date & Time : 2015-03-22 15:45						Date & Time : 2015-03-29 15:30					
Analyst(s) : MS						Analyst(s) : VC					
Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)	Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)
67.5	8.0	7.0	100	30	23.0	67.5	8.2	7.0	101	30	23.0
20.3	8.0	7.0	100	30	23.0	20.3	8.3	7.1	102	30	23.0
6.08	8.0	7.0	100	30	23.0	6.08	8.3	7.1	103	30	23.0
1.82	8.0	7.0	100	30	23.0	1.82	8.3	7.1	103	30	23.0
0.55	8.0	7.0	100	30	23.0	0.55	8.3	7.0	102	30	23.0
0.16	8.0	7.0	100	30	23.0	0.16	8.4	7.2	104	30	23.0
0.05	8.0	7.0	100	30	23.0	0.05	8.3	7.1	103	30	23.0
0.01	8.0	7.0	100	30	23.0	0.01	8.3	7.1	103	30	23.0
HSB Control	8.0	7.0	100	30	23.0	HSB Control	8.2	7.1	102	30	23.0
Control	8.0	7.0	100	30	23.0	Control	8.3	7.1	102	30	23.0

Daily Temperature Monitoring

Date	Temp. (°C)	Analyst(s)
2015-03-20	24.0	VC/MS
2015-03-21	24.0	MS
2015-03-22	23.0	MS
2015-03-23	24.0	VC
2015-03-24	24.0	VC
2015-03-25	24.0	MS
2015-03-26	24.0	VC
2015-03-27	24.0	VC
2015-03-28	23.0	VC
2015-03-29	23.0	VC

¹ if applicable

² @ <100 bubbles/min

* adjusted for barometric pressure

CHAIN OF CUSTODY RECORD



Aquatox Work Order No:
227818

Shipping Address: AquaTox Testing & Consulting Inc.
 11B Nicholas Beaver Road, RR #3
 Guelph, Ontario Canada N1H 6H9
 Voice: (519) 763-4412 Fax: (519) 763-4419

P.O. Number: _____

Field Sampler Name (print): **Robert Francis**

Signature: *RF*

Affiliation: **Operator**

Sample Storage (prior to shipping): **Keep cool ship same day**

Custody Relinquished by: **Mike Pidgeon**

Date/Time Shipped: **March 17/15**

Client: **Northern Pulp Treatment Plant
 340 Simpson Lane
 Pictou Landing, NS
 B0K 1X2**

Phone: **(902) 755-7178**

Fax: **(902) 755-7185**

Contact: **Mike Pidgeon**

Sample Identification		Analyses Requested								Sample Method and Volume						
Date Collected (yyyy-mm-dd)	Time Collected (e.g. 14:30, 24 hr clock)	Sample Name	Aquatox Sample Number	Temp. on arrival	Silverside Growth	Sea Urchin Fertilization	Champia Reproduction	Blue Mussel Larval Development	Sea Urchin Larval Development	Marine Amphipod Survival	Marine Polychaete Survival and Growth	other (please specify below)	Grab	Composite	# of Containers and Volume (eg. 2 x 1L, 3 x 10L, etc.)	
15/03/17	8:13:44	Point D (Final effluent) OK	43356	8.0	✓	✓	✓						✓		Rec 1x2L. OK	
15/03/17	8:14:44	Point C (ASB effluent) OK	43357	8.0	✓	✓	✓						✓		Rec 1x2L. OK	

For Lab Use Only

Received By: **DK**

Date: **2015-03-20**

Time: **8:40**

Storage Location: _____

Storage Temp (°C): _____

Please list any special requests or instructions:
 * From Sample Label DK

[Signature]



AquaTox Testing & Consulting Inc.
11B Nicholas Beaver Rd.
RR 3
Guelph ON N1H 6H9
Tel: (519) 763-4412 Fax: (519) 763-4419

Sea Urchin Test Report
Fertilization Inhibition
1 of 4

Work Order : 228750
Sample Number : 44556

SAMPLE IDENTIFICATION

Company : Northern Pulp N.S.
Location : New Glasgow NS
Substance : Point C effluent
Sampling Method : Not provided
Sampled By : M.P.
Temp. on arrival : 17.0°C
Sample Description : Cloudy, brown, mild odour.
Date Collected : 2015-07-06
Time Collected : 08:36
Date Received : 2015-07-07
Time Received : 08:45
Date Tested : 2015-07-09
Test Method : Fertilization Assay Using Echinoids (Sea Urchins and Sand Dollars). Environment Canada, Conservation and Protection. Ottawa, Ontario. EPS 1/RM/27, 2nd ed. (February 2011), with deviation(s) as noted below.

TEST RESULTS

Effect	Value	95% Confidence Limits	Statistical Method
IC25 (Fertilization)	15.4%	12.0-19.0	Non Linear Regression* (CETIS) a

The results reported relate only to the sample tested.

COPPER (AS COPPER SULPHATE) REFERENCE TOXICANT DATA

Date Tested : 2015-08-28¹
Test Duration : 20 minutes
IC25 Fertilization : 116 µg/L
95% Confidence Limits : 109 - 124 µg/L
Statistical Method : Linear Interpolation (CETIS)^a
Historical Mean IC25 : 160 µg/L
Warning Limits (± 2SD) : 96 - 269 µg/L
Analyst(s) : DK

The reference toxicant test was performed under the same experimental conditions as those used with the test sample.

TEST CONDITIONS

Test Vessel : 20 mL glass scintillation vial
Volume per Replicate : 10 mL
Number of Replicates : 4 per treatment
Depth of Test Solution : Approx. 3 cm
Sperm Density : 40000000 per vessel
Sperm : Egg Ratio : 20000 : 1
Males Used to Pool Sperm : 3
Females Used to Pool Eggs : 3
Control/Dilution Water² : Artificial Sea Water
Sperm Exposure Time³ : 20 min
Egg Exposure Time : 10 min
Total Duration of Test : 20 min
pH Adjustment : None
Sample Filtration : None
Test Aeration : None
Test Method Deviation(s) : Yes (see 'Comments')

² no additional chemicals

³ 10 min exposure, continued for an additional 10 min after addition of eggs

COMMENTS

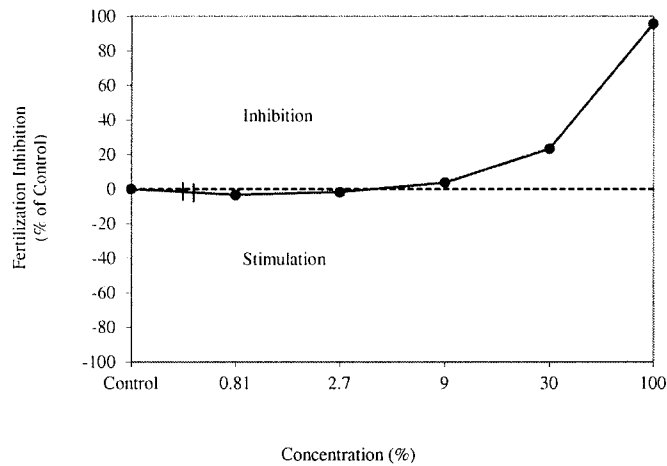
¹Noted Deviation(s): The result of the reference toxicant test conducted on 2015-07-09 (tested concurrently with the sample) exceeded the 99.7% control limits when compared to historical data. An internal investigation was conducted, which included retesting of the reference toxicant on 2015-08-28, the results of which were within the 95% confidence limits and are reported above. There were no other unusual conditions or deviations from the test method.

*Binomial weighting (CETIS^a) was applied.

•All test validity criteria as specified in the test method cited above were satisfied.

Work Order : 228750
 Sample Number : 44556

Sea Urchin Fertilization Inhibition



TEST ORGANISM

Adult Test Organism :	<i>Lytechinus pictus</i>	Holding Salinity :	34 ± 2 ‰
Adult Organism Source :	Marinus Scientific	Holding Vessel :	Glass aquaria
Source Location :	Garden Grove CA USA	Adult Mortality Rate :	0% (previous 7 days)
Date Received :	2013-11-12	Life Stage Tested :	Gamete (sperm/egg)
Holding Water :	Artificial Sea Water	Gamete Batch Tested :	Ur15-07-01
Holding Temperature :	12 - 15 °C		

Reference : Recommended Procedure for the Importation of Test Organisms for Sublethal Toxicity Testing. Environment Canada, September 1999.

REFERENCES

- ^a CETIS, © 2000-2013. V.1.8.7.17. Comprehensive Environmental Toxicity Information System. Tidepool Scientific Software, McKinleyville, Calif. 95519[Program on disk and printed User's Guide].
- ^c Environment Canada. 2001. Revised Procedures for Adjusting Salinity of Effluent Samples for Marine Sublethal Toxicity Testing Conducted under Environmental Effects Monitoring (EEM) Programs. Method Development and Applications Section, Environmental Technology Centre, December 2001.

Date : 2015-09-17
 yyyy-mm-dd

Approved By : [Signature]
 Project Manager

Work Order : 228750
 Sample Number : 44556

FERTILIZATION DATA

Test Conducted By : SEC/DK
 Enumerated By : DK

Concentration (%)	Replicate	Fertilized	Unfertilized	% Fertilized	Treatment Mean Fertilization (%)	Standard Deviation
Control	A	88	12	88	87.75	1.71
	B	87	13	87		
	C	90	10	90		
	D	86	14	86		
Blank	A	0	100	0	0	0.00
	B	0	100	0		
	C	0	100	0		
	D	0	100	0		
0.02	A	-	-	-	-	-
	B	-	-	-		
	C	-	-	-		
	D	-	-	-		
0.07	A	-	-	-	-	-
	B	-	-	-		
	C	-	-	-		
	D	-	-	-		
0.24	A	-	-	-	-	-
	B	-	-	-		
	C	-	-	-		
	D	-	-	-		
0.81	A	91	9	91	90.75	1.26
	B	89	11	89		
	C	92	8	92		
	D	91	9	91		
2.7	A	91	9	91	89.25	2.06
	B	91	9	91		
	C	87	13	87		
	D	88	12	88		
9	A	86	14	86	84.5	5.07
	B	81	19	81		
	C	91	9	91		
	D	80	20	80		
30	A	64	36	64	67.25	4.35
	B	71	29	71		
	C	71	29	71		
	D	63	37	63		
100	A	2	98	2	3.75	1.50
	B	5	95	5		
	C	5	95	5		
	D	3	97	3		

"-" = not counted/not required

- NOTES :
- No organisms or gametes exhibiting unusual appearance, behaviour, or undergoing unusual treatment were used in the test.
 - Gamete viability test was performed prior to pooling of test gametes.
 - A pre-test was not required.
 - Preserved eggs were enumerated immediately after completion of testing.
 - No outlying data points were detected according to Grubbs Test (CETIS)[†]

Data Reviewed By : VC
 Date : 2015-07-14

Work Order : 228750

Sample Number : 44556

INITIAL WATER CHEMISTRY (100% SAMPLE)

	Temp.(°C)	pH	Dissolved O ₂ (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Pre-aeration Time (h)
Initial Chemistry:	20.0	7.7	6.8	80	4	-
Chemistry after Salinity Adjustment ³ :	21.0	7.5	6.3	92	30	-
Chemistry after Pre-Aeration ^{3,4} :	-	-	-	-	-	0:00

SALINITY ADJUSTMENT

Method :	Direct Salt Addition	Volume Adjusted :	1500 mL
Salt Added :	Instant Ocean™	Amount of Salt Added :	45 g
Date Adjusted :	2015-07-08	Aging Time :	~17 hours
Aging Conditions :	Sealed, complete darkness, minimal air space	Aging Temperature :	4±2°C

 Reference : Salinity Adjustment Guidance Document. Environment Canada, revised December 2001⁶.

EXPOSURE CONCENTRATIONS WATER CHEMISTRY

Concentration (%)	Temp.(°C)	pH	Dissolved O ₂ (mg/L)	O ₂ Sat. (%)*	Salinity (‰)
Control	20.0	8.2	7.0	99	30
Blank	20.0	8.2	7.0	99	30
0.02	20.0	8.2	7.1	98	30
0.07	20.0	-	-	-	-
0.24	20.0	-	-	-	-
0.81	20.0	-	-	-	-
2.7	20.0	-	-	-	-
9	20.0	8.2	7.1	99	30
30	20.0	-	-	-	-
100	20.0	7.9	6.6	92	30

* % saturation, adjusted for temperature and barometric pressure

"-" not required/not measured

³ if required

⁴ at <100 bubbles/min

 Data Reviewed By : VC

 Date : 2015-07-14



AquaTox Testing & Consulting Inc.
11B Nicholas Beaver Rd.
RR 3
Guelph ON N1H 6H9
Tel: (519) 763-4412 Fax: (519) 763-4419

Champia parvula Test Report
Reproductive Inhibition
1 of 4

Work Order : 228750
Sample Number : 44556

SAMPLE IDENTIFICATION

Company : Northern Pulp N.S.
Location : New Glasgow NS
Substance : Point C effluent
Sampling Method : Not provided
Sampled By : M.P.
Temp. on arrival : 17.0°C
Sample Description : Cloudy, brown, mild odour.
Test Method : Test of Sexual Reproduction using the Red Macroalga *Champia parvula*. EPA-821-R-02-014, October 2002, Method 1009.0, with Canadian adaptations (Environment Canada 1998, 1999), with deviation(s) as noted below.

Date Collected : 2015-07-06
Time Collected : 08:36
Date Received : 2015-07-07
Time Received : 08:45
Date Tested : 2015-07-09

TEST RESULTS

Effect	Value	95% Confidence Limits	Statistical Method
IC25 (Reproduction)	0.88%	0.26-1.67	Linear Interpolation (Toxstat 3.5) d

The results reported relate only to the sample tested.

SODIUM DODECYL SULPHATE (SDS) REFERENCE TOXICANT DATA

Date Tested : 2015-07-08
Organism Batch : Cp15-07
Test Duration : 48 hrs exposure, 7 days recovery
IC25 (Reproduction) : 0.397 mg/L
95% Confidence Limits : 0.003 - 0.516 mg/L

Statistical Method : Linear Interpolation (CETIS)^a
Historical Mean IC25 : 0.265 mg/L
Warning Limits (\pm 2SD) : 0.062 - 1.138 mg/L
Analyst(s) : SEC, VC

The reference toxicity test was performed under the same experimental conditions as those used with the test sample.

TEST CONDITIONS

Test Organism : *Champia parvula*
Organism Batch : Cp15-07
Test Organism Source : In-house culture
Life Stage : Sexually mature
Mean Culture Mortality : 0 % (previous 7 days)
Males per Test Chamber : 2 (having sori with spermatia)
Females per Test Chamber : 5 (having trichogynes)
pH Adjustment : None
Exposure Duration : 48 hours
Aeration during Exposure : None
Recovery Duration : 6 days
Aeration during Recovery : Yes; \leq 100 bubbles/min

Test Type : Static
Sample Filtration : None
Control/Dilution Water : Natural seawater (no chemicals added)
Control/Dilution Water Source : Pointe-du-Chene, Shediac Bay NB
Concentrations Tested : 5 (minimum), Control and Salt Control
Replicates per Concentration : 3
Volume per Replicate : 100 mL
Test Chamber : 240 mL polystyrene cup
Depth of Test Solution : 5.0 cm
Photoperiod (h) : 16 light / 8 dark
Light Intensity : 951 - 1322 lux
Test Method Deviation(s) : See 'Comments'

COMMENTS

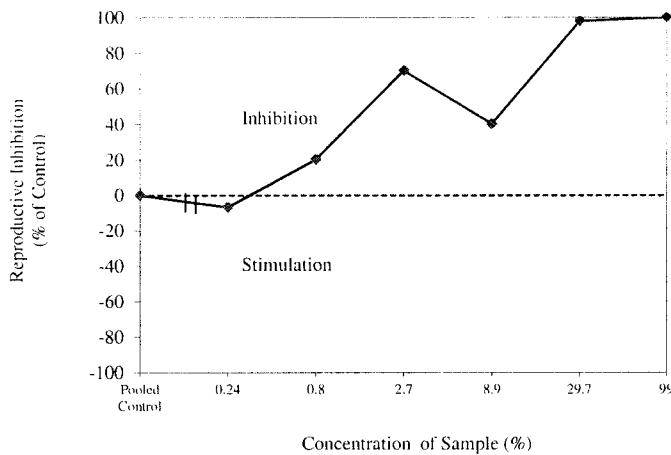
³Noted Deviation(s) : While enumerating the test, one small branch of a male test organism was found adhered to the bottom of the test vessel in replicate A of the 8.9% test concentration. Since the female test organisms had continued exposure to a piece of male organism during the recovery period, replicate 8.9 A was excluded from statistical analysis. Test endpoints were calculated from a total of two replicates (B and C) for the 8.9% test concentration.

- Control data were pooled prior to statistical analysis of the test endpoint(s), as required by the test method.
- Maximum effluent concentration tested was 99% due to the addition of nutrient stocks to the 100% effluent.
- This report is based on the Environment Canada Guidance Document: Report Assessment Checklist for the Pulp and Paper and Metal Mining EEM Programs, April 2005.

Work Order : 228750

Sample Number : 44556

Champia parvula Reproductive Inhibition



SALINITY ADJUSTMENT

Method : Direct Salt Addition

Salt Added : Instant Ocean™

Aging Conditions : 4±2°C, sealed in complete darkness, with minimal air space

Reference : Salinity Adjustment Guidance Document. Environment Canada, revised December 2001^e.

Date	Initial Salinity (‰)	Initial pH	Volume Adjusted (L)	Amount of Salt Added (g)	Salinity After Adjustment (‰)	pH After Salinity Adjustment	Analyst(s)	Aging Time (h)
2015-07-08	4	7.6	1.5	45	30	7.6	DK	16.8

REFERENCES

^a CETIS™, © 2000-2013. V.1.8.7.17. Comprehensive Environmental Toxicity Information System. Tidepool Scientific Software, LLC, McKinleyville, CA 95519 [Program on disk and printed User's Guide].

^d West, Inc. and D. Gulley. 1996. Toxstat Release 3.5. Western Ecosystems Technology. Cheyenne, WY, U.S.A.

^e Environment Canada. 2001. Revised Procedures for Adjusting Salinity of Effluent Samples for Marine Sublethal Toxicity Testing Conducted under Environmental Effects Monitoring (EEM) Programs. Method Development and Applications Section, Environmental Technology Centre, December 2001.

Date :

2015-09-15
yyyy-mm-dd

Approved By :

[Signature]
Project Manager

Work Order : 228750
 Sample Number : 44556

Cystocarp Counts at Test Termination

Initiated By : VC
 Initiation Date : 2015-07-09
 Terminated By : VC
 Termination Date : 2015-07-17

Concentration (%)	Replicate	Plant 1	Plant 2	Plant 3	Plant 4	Plant 5	Replicate Mean	Treatment Mean	Standard Deviation	CV (%)
Control	A	21	11	26	15	10	16.6	19.9	3.9	19.5
	B	16	14	27	17	21	19.0			
	C	18	19	29	25	30	24.2			
Salt Control*	A	37	10	57	41	46	38.2	29.5	11.0	37.1
	B	24	15	9	16	22	17.2			
	C	46	14	50	26	30	33.2			
0.02	A	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-			
	C	-	-	-	-	-	-			
0.07	A	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-			
	C	-	-	-	-	-	-			
0.24	A	33	20	17	22	35	25.4	26.4	5.4	20.3
	B	21	23	34	47	36	32.2			
	C	16	26	16	26	24	21.6			
0.8	A	13	14	16	12	16	14.2	19.7	4.8	24.4
	B	23	28	15	20	29	23.0			
	C	22	32	17	22	17	22.0			
2.7	A	18	6	5	12	12	10.6	7.4	3.0	40.8
	B	7	5	4	5	2	4.6			
	C	10	9	6	4	6	7.0			
8.9	A	³	³	³	³	³	³	14.8	1.1	7.6
	B	11	5	14	21	19	14.0			
	C	4	25	16	15	18	15.6			
29.7	A	0	1	0	0	1	0.4	0.5	0.6	114.6
	B	1	2	2	1	0	1.2			
	C	0	0	0	0	0	0.0			
99	A	0	0	0	0	0	0.0	0.0	0.0	0.0
	B	0	0	0	0	0	0.0			
	C	0	0	0	0	0	0.0			

³NOTES : Refer to 'Noted Deviation(s)' (in 'COMMENTS,' page 1).

"-" = not counted/not required

*'Salt Control' is a control prepared by Direct Salt Addition with Instant Ocean™ according to: Salinity Adjustment Guidance Document (2001). Environment Canada, revised December 2001.

•No outlying data points were detected according to Grubbs Test (CETIS)^a

•No organisms appearing unhealthy, discoloured, or otherwise stressed, or undergoing unusual treatment, were used in the test.

•All test validity criteria as specified in the test method cited above were satisfied.

Cumulative Plant Mortality

Observation Period

Concentration (%)	♂ 0 Hours		♀ 0 Hours		♂ 48 Hours		♀ 48 Hours		♀ Test Completion	
	Number	Mortality (%)	Number	Mortality (%)	Number	Mortality (%)	Number	Mortality (%)	Number	Mortality (%)
	Dead		Dead		Dead		Dead		Dead	
Control	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salt Control	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.02	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.07	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.24	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
8.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
29.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
99	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

Test Data Reviewed By: VC

Date: 2015-08-19

Work Order : 228750
 Sample Number: 44556

WATER CHEMISTRY DATA

Initial Water Chemistry (100% Sample)

	Temperature (°C)	pH	Dissolved O ₂ (mg/L)	O ₂ Saturation (%)*	Salinity (‰)	Pre-aeration Time (h) ²
Initial Chemistry :	24.0	7.7	7.2	88	4	-
Chemistry after Salinity Adjustment ¹ :	23.0	7.6	6.4	92	28	-
Chemistry after Pre-Aeration ² :	-	-	-	-	-	0:00

Exposure Period Water Chemistry

0 hours						48 hours					
Date & Time : 2015-07-09 12:30						Date & Time : 2015-07-11 12:30					
Analyst(s) : VC						Analyst(s) : MS					
Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)	Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)
99	7.8	6.2	91	28	23.0	99	8.6	6.7	97	30	23.0
29.7	7.8	6.7	99	29	23.0	29.7	8.6	7.0	102	30	23.0
8.9	7.9	6.8	100	30	23.0	8.9	8.6	7.2	106	30	23.0
2.7	7.9	6.8	100	30	23.0	2.7	8.5	6.9	103	30	23.0
0.8	7.9	6.8	100	30	23.0	0.8	8.6	6.9	103	30	23.0
0.24	7.9	6.9	101	30	23.0	0.24	8.7	7.3	-	30	23.0
0.07	7.9	6.9	101	30	23.0	0.07	8.7	7.5	109	30	23.0
0.02	7.9	7.0	102	30	23.0	0.02	8.8	7.6	109	30	23.0
Salt Control	8.1	6.9	100	29	23.0	Salt Control	8.8	7.5	109	30	23.0
Control	7.9	6.8	100	30	23.0	Control	8.6	7.3	106	30	23.0

Recovery Period Water Chemistry

0 hours						Test Completion					
Date & Time : 2015-07-11 12:45						Date & Time : 2015-07-17 13:00					
Analyst(s) : MS						Analyst(s) : VC					
Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)	Conc.(%)	pH	D.O. (mg/L)	O ₂ Sat. (%)*	Salinity (‰)	Temp. (°C)
99	8.4	6.7	98	30	23.0	99	8.4	7.0	101	30	24.0
29.7	8.4	6.7	98	30	23.0	29.7	8.4	7.0	102	30	24.0
8.9	8.4	6.7	98	30	23.0	8.9	8.5	7.1	103	30	24.0
2.7	8.4	6.7	98	30	23.0	2.7	8.4	6.9	100	30	24.0
0.8	8.4	6.7	98	30	23.0	0.8	8.4	7.1	102	30	24.0
0.24	8.4	6.7	98	30	23.0	0.24	8.4	7.1	102	30	24.0
0.07	8.4	6.7	98	30	23.0	0.07	8.4	7.1	102	30	24.0
0.02	8.4	6.7	98	30	23.0	0.02	8.5	7.1	102	30	24.0
Salt Control	8.4	6.7	98	30	23.0	Salt Control	8.4	7.0	101	30	24.0
Control	8.4	6.7	98	30	23.0	Control	8.4	7.2	103	30	24.0

Daily Temperature Monitoring

Date	Temp. (°C)	Analyst(s)
2015-07-09	24.0	VC
2015-07-10	24.0	VC/SEC
2015-07-11	24.0	MS
2015-07-12	23.0	MS
2015-07-13	23.0	VC
2015-07-14	23.0	VC
2015-07-15	23.0	VC
2015-07-16	24.0	VC
2015-07-17	24.0	VC

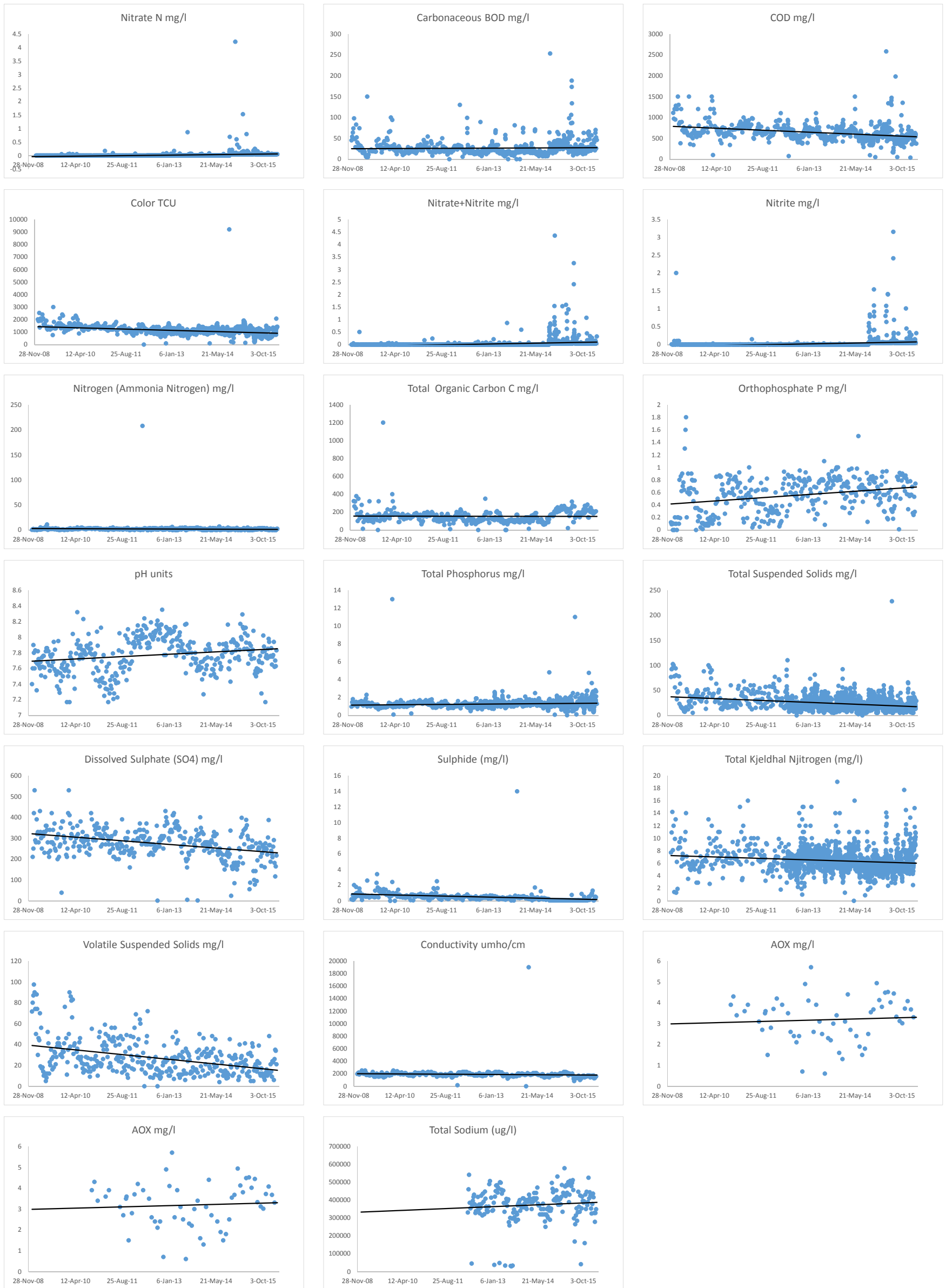
¹ if applicable

² @ <100 bubbles/min

* adjusted for barometric pressure

— not measured

Figure B.1: Plots of Point C Effluent Data from 2009 to March 2016



Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-01	No	52478	40	2099.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-02	No	49390	26	1284.1	55	2716.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-03	No	52198	25	1305	23	1200.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-04	No	62718	31	1944.3	22	1379.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-05	No	71464	32	2286.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-06	No	75096	34	2553.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-07	No	74474	49	3649.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-08	No	71756	47	3372.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-09	No	71958	53	3813.8	17	1223.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-10	No	70302	54	3796.3	19	1335.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-11	No	66981	36	2411.3	18	1205.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-12	No	65605	28	1836.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-13	No	68764	28	1925.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-14	No	68426	24	1642.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-15	No	69258	16	1108.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-16	No	66755	15	1001.3	22	1468.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-17	No	64570	60	3874.2	34	2195.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-18	No	64915	21	1363.2	20	1298.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-19	No	65311	22	1436.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-20	No	64128	29	1859.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-21	No	64524	29	1871.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-22	No	64790	21	1360.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-23	No	64057	34	2177.9	19	1217.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-24	No	63972	27	1727.2	21	1343.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-25	No	70662	28	1978.5	19	1342.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-26	No	69027	25	1725.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-27	No	64672	27	1746.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-28	No	62844	22	1382.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-29	No	61717	16	987.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-04-30	No	60910	8	487.3	15	913.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-01	No	59146	7.6	449.5	14	828	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-02	No	60948	14	853.3	19	1158	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-03	No	61919	8.1	501.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-04	No	63224	8.2	518.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-05	No	63490	11	698.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-06	No	62307	11	685.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-07	No	59582	11	655.4	14	834.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-08	No	60152	6.5	391	16	962.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-09	No	64479	14	902.7	18	1160.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-10	No	66068	11	726.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-11	No	68407	11	752.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-12	No	73107	14	1023.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-13	No	73652	17	1252.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-14	No	74562	31	2311.4	18	1342.1	No	No

Effluent Data										
Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-15	No	79128	19	1503.4	19	1503.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-16	No	75263	24	1806.3	16	1204.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-17	No	71382	14	999.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-18	No	70376	23	1618.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-19	No	69634	12	835.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-20	No	68804	10	688			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-21	No	68121	14	953.7	13	885.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-22	No	67818	16	1085.1	18	1220.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-23	No	68256	12	819.1	19	1296.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-24	No	59291	14	830.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-25	No	74172	30	2225.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-26	No	68175	24	1636.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-27	No	65653	38	2494.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-28	No	67549	41	2769.5	16	1080.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-29	No	67689	47	3181.4	18	1218.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-30	No	67433	51	3439.1	15	1011.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-05-31	No	69332	29	2010.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-01	No	69423	30	2082.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-02	No	72642	22	1598.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-03	No	73035	16	1168.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-04	No	72637	35	2542.3	20	1452.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-05	No	72533	19	1378.1	18	1305.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-06	No	71833	18	1293	15	1077.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-07	No	70583	18	1270.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-08	No	82300	14	1152.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-09	No	81058	12	972.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-10	No	73298	13	952.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-11	No	70709	18	1272.8	10	707.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-12	No	72433	7.7	557.7	13	941.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-13	No	73469	9.2	675.9	14	1028.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-14	No	73623	7.8	574.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-15	No	74789	8	598.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-16	No	68519	11	753.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-17	No	43037	12	516.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-18	No	21491	14	300.9	13	279.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-19	No	20564	15	308.5	17	349.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-20	No	17323	9.2	159.4	11	190.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-21	No	19305	6.6	127.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-22	No	14524	5.6	81.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-23	No	12458	5.8	72.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-24	No	13327	7.3	97.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-25	No	20046	7.2	144.3	7	140.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-26	No	26330	5.6	147.4	8	210.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-27	No	46600	8	372.8	7	326.2	No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-28	No	56063	6.8	381.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-29	No	55119	8.6	474			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-06-30	No	56238	12	674.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-01	No	58181	26	1512.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-02	No	71315	45	3209.2	51	3637.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-03	No	71834	48	3448	58	4166.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-04	No	75148	48	3607.1	48	3607.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-05	No	77463	48	3718.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-06	No	79422	40	3176.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-07	No	79159	28	2216.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-08	No	76878	13	999.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-09	No	75212	16	1203.4	17	1278.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-10	No	76675	11	843.4	17	1303.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-11	No	76769	26	1996	15	1151.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-12	No	78320	37	2897.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-13	No	77649	33	2562.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-14	No	69035	32	2209.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-15	No	79396	28	2223.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-16	No	77888	34	2648.2	14	1090.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-17	No	77054	28	2157.5	12	924.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-18	No	75694	23	1741	12	908.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-19	No	78054	15	1170.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-20	No	78982	21	1658.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-21	No	76730	17	1304.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-22	No	76425	11	840.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-23	No	78508	28	2198.2	12	942.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-24	No	82659	21	1735.8	18	1487.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-25	No	78930	26	2052.2	16	1262.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-26	No	84656	11	931.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-27	No	73765	15	1106.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-28	No	71495	16	1143.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-29	No	71565	17	1216.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-30	No	73533	33	2426.6	16	1176.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-07-31	No	71586	39	2791.9	16	1145.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-01	No	72292	23	1662.7	5	361.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-02	No	74133	22	1630.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-03	No	75781	22	1667.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-04	No	75365	23	1733.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-05	No	73369	19	1394			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-06	No	71961	29	2086.9	15	1079.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-07	No	71954	45	3237.9	16	1151.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-08	No	72570	30	2177.1	19	1378.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-09	No	73035	20	1460.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-10	No	75003	19	1425.1			No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-11	No	73690	25	1842.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-12	No	73755	20	1475.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-13	No	74169	29	2150.9	15	1112.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-14	No	73960	32	2366.7	14	1035.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-15	No	74686	18	1344.3	18	1344.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-16	No	73793	14	1033.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-17	No	74183	16	1186.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-18	No	74942	10	749.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-19	No	72722	12	872.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-20	No	71572	14	1002	14	1002	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-21	No	71412	17	1214	14	999.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-22	No	70583	17	1199.9	16	1129.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-23	No	72264	11	794.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-24	No	73328	9.5	696.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-25	No	74084	14	1037.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-26	No	74000	18	1332			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-27	No	75193	15	1127.9	14	1052.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-28	No	74760	13	971.9	16	1196.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-29	No	73529	8.9	654.4	14	1029.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-30	No	77989	8.3	647.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-08-31	No	76580	11	842.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-01	No	81810	12	981.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-02	No	82232	35	2878.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-03	No	82432	15	1236.5	11	906.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-04	No	85339	24	2048.1	11	938.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-05	No	83914	15	1258.7	9.8	822.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-06	No	82932	9.7	804.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-07	No	79188	8.1	641.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-08	No	79393	9	714.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-09	No	76331	11	839.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-10	No	76230	17	1295.9	13	991	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-11	No	76311	19	1449.9	13	992	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-12	No	76507	13	994.6	15	1147.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-13	No	76771	10	767.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-14	No	78619	5.6	440.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-15	No	77231	7.7	594.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-16	No	73396	8.2	601.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-17	No	73636	21	1546.4	13	957.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-18	No	73855	32	2363.4	15	1107.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-19	No	73947	16	1183.2	12	887.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-20	No	74260	14	1039.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-21	No	73780	8.6	634.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-22	No	72991	12	875.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-23	No	74549	7.4	551.7			No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-24	No	73164	11	804.8	16	1170.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-25	No	75305	8	602.4	11	828.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-26	No	78930	18	1420.7	12	947.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-27	No	77102	8	616.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-28	No	74669	17	1269.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-29	No	73389	11	807.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-09-30	No	72127	6.6	476			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-01	No	71725	11	789	9	645.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-02	No	71139	14	995.9	11	782.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-03	No	67045	13	871.6	8	536.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-04	No	66151	5	330.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-05	No	69907	6.8	475.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-06	No	73510	8.4	617.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-07	No	72312	9.6	694.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-08	No	69715	12	836.6	14	976	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-09	No	67334	16	1077.3	14	942.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-10	No	67752	10	677.5	13	880.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-11	No	68550	8.4	575.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-12	No	65774	5.4	355.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-13	No	65276	8.4	548.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-14	No	66349	6.4	424.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-15	No	67829	18	1220.9	15	1017.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-16	No	67996	9.7	659.6	15	1019.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-17	No	75103	14	1051.4	13	976.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-18	No	70033	12	840.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-19	No	68669	11	755.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-20	No	68893	11	757.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-21	No	67833	16	1085.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-22	No	68038	19	1292.7	16	1088.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-23	No	69930	19	1328.7	18	1258.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-24	No	68170	13	886.2	31	2113.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-25	No	65767	16	1052.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-26	No	66491	20	1329.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-27	No	68166	10	681.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-28	No	67176	14	940.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-29	No	66910	38	2542.6	19	1271.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-30	No	66147	32	2116.7	20	1322.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-10-31	No	65181	11	717	22	1434	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-01	No	55022	7.6	418.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-02	No	80318	11	883.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-03	No	68161	6.6	449.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-04	No	65903	11	724.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-05	No	64991	14	909.9	20	1299.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-06	No	64326	26	1672.5	21	1350.8	No	No

Effluent Data										
Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-07	No	62697	28	1755.5	22	1379.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-08	No	65607	13	852.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-09	No	66005	16	1056.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-10	No	65188	13	847.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-11	No	66339	16	1061.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-12	No	65540	32	2097.3	16	1048.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-13	No	64623	19	1227.8	22	1421.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-14	No	64140	14	898	22	1411.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-15	No	64232	11	706.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-16	No	64481	11	709.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-17	No	63269	17	1075.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-18	No	61390	12	736.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-19	No	64170	45	2887.6	17	1090.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-20	No	61512	23	1414.8	19	1168.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-21	No	60466	30	1814	16	967.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-22	No	62072	24	1489.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-23	No	62923	24	1510.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-24	No	62013	33	2046.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-25	No	59730	27	1612.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-26	No	59477	59	3509.1	23	1368	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-27	No	67925	21	1426.4	27	1834	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-28	No	74484	41	3053.8	26	1936.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-29	No	71894	13	934.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-11-30	No	72338	8.9	643.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-01	No	72271	10	722.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-02	No	73270	8	586.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-03	No	74135	10	741.4	21	1556.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-04	No	96515	12	1158.2	18	1737.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-05	No	80843	13	1051	20	1616.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-06	No	74294	12	891.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-07	No	71925	8	575.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-08	No	71131	11	782.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-09	No	70478	13	916.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-10	No	71541	23	1645.4	20	1430.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-11	No	70722	23	1626.6	23	1626.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-12	No	69473	42	2917.9	17	1181	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-13	No	64856	25	1621.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-14	No	67378	33	2223.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-15	No	70874	15	1063.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-16	No	70506	16	1128.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-17	No	68413	32	2189.2	20	1368.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-18	No	71803	33	2369.5	20	1436.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-19	No	73291	26	1905.6	20	1465.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-20	No	73583	26	1913.2			No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-21	No	76290	25	1907.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-22	No	79353	39	3094.8	18	1428.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-23	No	77835	46	3580.4	21	1634.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-24	No	75759	29	2197			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-25	No	74376	20	1487.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-26	No	73943	16	1183.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-27	No	74945	11	824.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-28	No	74380	11	818.2	20	1487.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-29	No	74353	14	1040.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-30	No	77044	22	1695			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2013-12-31	No	76917	17	1307.6	25	1922.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-01	No	77134	25	1928.4	25	1928.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-02	No	73289	38	2785	20	1465.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-03	No	73951	19	1405.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-04	No	75983	18	1367.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-05	No	76059	41	3118.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-06	No	76818	46	3533.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-07	No	76361	56	4276.2	73	5574.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-08	No	76447	92	7033.1	75	5733.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-09	No	76758	73	5603.3	64	4912.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-10	No	76943	39	3000.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-11	No	77226	34	2625.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-12	No	85103	38	3233.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-13	No	80634	39	3144.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-14	No	79658	34	2708.4	27	2150.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-15	No	85968	31	2665	12	1031.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-16	No	85416	26	2220.8	20	1708.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-17	No	87722	16	1403.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-18	No	82133	20	1642.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-19	No	82490	18	1484.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-20	No	78711	14	1102			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-21	No	79613	11	875.7	15	1194.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-22	No	81529	10	815.3	20	1630.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-23	No	81584	15	1223.8	20	1631.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-24	No	78889	18	1420			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-25	No	81127	18	1460.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-26	No	74548	21	1565.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-27	No	54902	27	1482.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-28	No	70534	25	1763.4	31	2186.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-29	No	69772	26	1814.1	35	2442	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-30	No	71506	44	3146.3	22	1573.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-01-31	No	76184	31	2361.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-01	No	78512	44	3454.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-02	No	79061	47	3715.9			No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-03	No	79237	38	3011			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-04	No	78347	31	2428.8	18	1410.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-05	No	78610	38	2987.2	16	1257.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-06	No	80665	43	3468.6	28	2258.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-07	No	80676	38	3065.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-08	No	80131	38	3045			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-09	No	78293	40	3131.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-10	No	77861	39	3036.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-11	No	78951	42	3315.9	20	1579	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-12	No	73179	45	3293.1	33	2414.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-13	No	72282	53	3830.9	27	1951.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-14	No	78888	47	3707.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-15	No	77643	39	3028.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-16	No	78011	30	2340.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-17	No	72019	26	1872.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-18	No	70494	37	2608.3	17	1198.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-19	No	74318	20	1486.4	18	1337.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-20	No	76372	6.8	519.3	19	1451.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-21	No	71992	7.5	539.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-22	No	60578	8.4	508.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-23	No	53420	7.6	406			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-24	No	68473	7	479.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-25	No	72913	14	1020.8	18	1312.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-26	No	75528	26	1963.7	18	1359.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-27	No	75819	16	1213.1	25	1895.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-02-28	No	74175	22	1631.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-01	No	75991	26	1975.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-02	No	78300	15	1174.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-03	No	78485	14	1098.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-04	No	78026	31	2418.8	18	1404.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-05	No	75117	32	2403.7	24	1802.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-06	No	65749	35	2301.2	19	1249.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-07	No	55108	12	661.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-08	No	72062	14	1008.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-09	No	77752	11	855.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-10	No	78162	13	1016.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-11	No	77394	22	1702.7	20	1547.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-12	No	79662	30	2389.9	17	1354.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-13	No	88288	28	2472.1	18	1589.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-14	No	78127	13	1015.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-15	No	75762	12	909.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-16	No	80800	12	969.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-17	No	78397	24	1881.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-18	No	75606	19	1436.5	21	1587.7	No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-19	No	77115	19	1465.2	20	1542.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-20	No	80325	13	1044.2	19	1526.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-21	No	83505	28	2338.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-22	No	88081	30	2642.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-23	No	90658	30	2719.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-24	No	86357	27	2331.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-25	No	81948	32	2622.3	21	1720.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-26	No	82465	52	4288.2	21	1731.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-27	No	64909	35	2271.8	15	973.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-28	No	39472	40	1578.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-29	No	61254	40	2450.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-30	No	72801	54	3931.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-03-31	No	79264	42	3329.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-01	No	79582	36	2865	21	1671.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-02	No	81333	55	4473.3	21	1708	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-03	No	77146	24	1851.5	28	2160.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-04	No	74910	30	2247.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-05	No	73930	36	2661.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-06	No	73729	36	2654.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-07	No	71986	34	2447.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-08	No	71056	46	3268.6	35	2487	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-09	No	73819	28	2066.9	38	2805.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-10	No	70929	19	1347.7	37	2624.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-11	No	68570	19	1302.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-12	No	68528	10	685.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-13	No	68330	14	956.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-14	No	69152	8	553.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-15	No	70094	15	1051.4	18	1261.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-16	No	71648	22	1576.3	15	1074.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-17	No	67417	12	809	18	1213.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-18	No	67582	14	946.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-19	No	71923	14	1006.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-20	No	74035	23	1702.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-21	No	73100	32	2339.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-22	No	75557	38	2871.2	15	1133.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-23	No	76905	34	2614.8	17	1307.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-24	No	78966	29	2290	21	1658.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-25	No	78797	29	2285.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-26	No	76882	40	3075.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-27	No	79682	27	2151.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-28	No	78792	26	2048.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-29	No	74518	24	1788.4	17	1266.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-04-30	No	73425	45	3304.1	20	1468.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-01	No	73327	27	1979.8	25	1833.2	No	No

Effluent Data										
Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-02	No	72201	31	2238.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-03	No	71219	31	2207.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-04	No	70305	23	1617			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-05	No	70684	20	1413.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-06	No	71041	20	1420.8	16	1136.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-07	No	70392	22	1548.6	17	1196.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-08	No	70486	20	1409.7	15	1057.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-09	No	71408	13	928.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-10	No	73877	20	1477.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-11	No	73733	29	2138.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-12	No	72680	42	3052.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-13	No	70918	44	3120.4	69	4893.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-14	No	66920	61	4082.1	67	4483.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-15	No	69330	63	4367.8	71	4922.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-16	No	72111	55	3966.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-17	No	74138	46	3410.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-18	No	76613	42	3217.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-19	No	77900	40	3116			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-20	No	77680	27	2097.4	19	1475.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-21	No	77824	26	2023.4	15	1167.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-22	No	76667	14	1073.3	13	996.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-23	No	74818	22	1646			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-24	No	74087	24	1778.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-25	No	73647	18	1325.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-26	No	75376	14	1055.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-27	No	77069	20	1541.4	12	924.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-28	No	76029	22	1672.6	19	1444.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-29	No	76133	26	1979.5	17	1294.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-30	No	74941	24	1798.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-05-31	No	73349	25	1833.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-06-01	No	75422	32	2413.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-06-02	No	74498	28	2085.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-06-03	No	74275	26	1931.2	15	1114.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-06-04	No	72083	24	1730	16	1153.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-06-05	No	71080	20	1421.6	11	781.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-06-06	No	72192	13	938.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-06-07	No	69201	5	346			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-06-08	No	68201	7	477.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-06-09	No	68157	5	340.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-06-10	No	20613	12	247.4	12	247.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-06-11	No	1313	18	23.6	12	15.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-06-12	No	0	5	0	13	0	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-06-13	No	0					No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-06-14	No	0					No	No

Effluent Data										
Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-07-29	No	72472	13	942.1	11	797.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-07-30	No	70892	14	992.5	15	1063.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-07-31	No	70652	21	1483.7	10	706.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-01	No	65971	16	1055.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-02	No	69160	19	1314			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-03	No	70090	16	1121.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-04	No	71118	17	1209			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-05	No	71619	7	501.3	7	501.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-06	No	67215	5	336.1	7.2	483.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-07	No	70274	13	913.6	8	562.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-08	No	70097	3.5	245.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-09	No	69640	9	626.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-10	No	71000	8	568			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-11	No	71104	5	355.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-12	No	71649	10	716.5	9.6	687.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-13	No	71628	13	931.2	8.3	594.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-14	No	71164	12	854	9	640.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-15	No	71155	11	782.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-16	No	70784	16	1132.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-17	No	68466	16	1095.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-18	No	69625	13	905.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-19	No	73464	14	1028.5	11	808.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-20	No	70584	26	1835.2	12	847	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-21	No	68808	11	756.9	9.9	681.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-22	No	68594	8.5	583			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-23	No	68968	7.5	517.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-24	No	69076	12	828.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-25	No	68763	13	893.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-26	No	69295	18	1247.3	17	1178	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-27	No	68889	26	1791.1	17	1171.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-28	No	69258	14	969.6	15	1038.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-29	No	69736	11	767.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-30	No	68556	8.2	562.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-08-31	No	65203	6.8	443.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-01	No	69290	6.1	422.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-02	No	71668	11	788.3	6.8	487.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-03	No	76265	9	686.4	8.1	617.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-04	No	75348	13	979.5	12	904.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-05	No	75569	12	906.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-06	No	75325	7.2	542.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-07	No	77281	4.3	332.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-08	No	72264	6.5	469.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-09	No	68680	9	618.1	11	755.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-10	No	69816	13	907.6	11	768	No	No

Effluent Data										
Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-11	No	67295	11	740.2	11	740.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-12	No	68430	6.3	431.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-13	No	67865	6.6	447.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-14	No	63232	8.4	531.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-15	No	30458	7.5	228.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-16	No	24944	12	299.3	15	374.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-17	No	27653	16	442.4	14	387.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-18	No	13782	23	317	14	192.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-19	No	4587	8	36.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-20	No	8744	5.6	49			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-21	No	8584	5.6	48.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-22	No	24562	16	393			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-23	No	26174	11	287.9	7.8	204.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-24	No	23953	21	503	9.2	220.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-25	No	34619	11	380.8	7.5	259.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-26	No	41395	13	538.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-27	No	48743	13	633.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-28	No	57281	11	630.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-29	No	64024	15	960.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-09-30	No	64632	14	904.8	14	904.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-01	No	63570	26	1652.8	15	953.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-02	No	62001	16	992	12	744	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-03	No	62444	23	1436.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-04	No	62798	24	1507.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-05	No	62752	21	1317.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-06	No	62726	29	1819.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-07	No	60901	30	1827	15	913.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-08	No	58659	28	1642.5	14	821.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-09	No	56722	31	1758.4	18	1021	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-10	No	54531	25	1363.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-11	No	57547	31	1784			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-12	No	61902	29	1795.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-13	No	59634	31	1848.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-14	No	58656	51	2991.5	39	2287.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-15	No	57288	44	2520.7	64	3666.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-16	No	57610	39	2246.8	22	1267.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-17	No	59039	25	1476			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-18	No	59830	18	1076.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-19	No	60220	16	963.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-20	No	63278	25	1582			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-21	No	58134	28	1627.8	23	1337.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-22	No	55305	18	995.5	26.8	1482.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-23	No	58261	9	524.3	27	1573	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-24	No	61291	17	1041.9			No	No

Effluent Data										
Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-25	No	68992	25	1724.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-26	No	65585	25	1639.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-27	No	66423	18	1195.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-28	No	64922	22	1428.3	33	2142.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-29	No	61573	29	1785.6	36	2216.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-30	No	60511	32	1936.4	31	1875.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-10-31	No	60570	35	2120			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-01	No	61749	26	1605.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-02	No	66385	20	1327.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-03	No	66479	25	1662			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-04	No	62236	42	2613.9	21	1307	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-05	No	60883	25	1522.1	20	1217.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-06	No	64132	27	1731.6	19	1218.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-07	No	68779	26	1788.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-08	No	66008	49	3234.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-09	No	63212	50	3160.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-10	No	61914	33	2043.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-11	No	63986	10	639.9	23	1471.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-12	No	65545	18	1179.8	23	1507.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-13	No	66350	25	1658.8	35	2322.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-14	No	66261	30	1987.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-15	No	67167	27	1813.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-16	No	61340	39	2392.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-17	No	63132	26	1641.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-18	No	86257	32	2760.2	19	1638.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-19	No	69552	22	1530.1	26	1808.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-20	No	66692	19	1267.1	14	933.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-21	No	65925	17	1120.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-22	No	65015	21	1365.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-23	No	64784	33	2137.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-24	No	64788	13	842.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-25	No	64049	12	768.6	20	1281	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-26	No	64447	14	902.3	29	1869	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-27	No	94867	18	1707.6	27	2561.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-28	No	78013	18	1404.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-29	No	70099	28	1962.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-11-30	No	66412	31	2058.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-01	No	65282	26	1697.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-02	No	64253	30	1927.6	39	2505.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-03	No	61465	35	2151.3	37	2274.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-04	No	65996	47	3101.8	42	2771.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-05	No	66404	35	2324.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-06	No	65852	16	1053.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-07	No	69291	36	2494.5			No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-08	No	66309	26	1724			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-09	No	66115	34	2247.9	43	2842.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-10	No	66648	33	2199.4	42	2799.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-11	No	72059	41	2954.4	39	2810.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-12	No	69855	41	2864.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-13	No	67109	43	2885.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-14	No	66525	25	1663.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-15	No	66751	23	1535.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-16	No	66957	30	2008.7	16	1071.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-17	No	65887	34	2240.2	28	1844.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-18	No	66479	31	2060.8	33	2193.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-19	No	66209	23	1522.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-20	No	66818	26	1737.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-21	No	65838	22	1448.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-22	No	65159	23	1498.7	21	1368.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-23	No	63326	40	2533	28	1773.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-24	No	64820	33	2139.1	29	1879.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-25	No	67098	28	1878.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-26	No	65528	16	1048.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-27	No	65330	19	1241.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-28	No	65624	17	1115.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-29	No	64578	23	1485.3	19	1227	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-30	No	64455	21	1353.6	28	1804.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2014-12-31	No	64279	23	1478.4	22	1414.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-01	No	62710	27	1693.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-02	No	62541	5	312.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-03	No	64459	15	966.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-04	No	66996	9	603			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-05	No	68044	19	1292.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-06	No	64497	29	1870.4	41	2644.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-07	No	64292	12	771.5	45	2893.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-08	No	62718	17	1066.2	65	4076.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-09	No	60808	13	790.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-10	No	62194	25	1554.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-11	No	62804	18	1130.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-12	No	63105	15	946.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-13	No	60540	8	484.3	43	2603.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-14	No	60243	13	783.2	30	1807.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-15	No	58912	6	353.5	45	2651	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-16	No	60488	5	302.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-17	No	61325	6	368			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-18	No	62797	15	942			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-19	No	65170	8	521.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-20	No	66440	13	863.7	45	2989.8	No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-21	No	63625	27	1717.9	60	3817.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-22	No	63119	16	1009.9	32	2019.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-23	No	62331	18	1122			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-24	No	62651	31	1942.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-25	No	69646	29	2019.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-26	No	65789	47	3092.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-27	No	67988	49	3331.4	31	2107.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-28	No	67341	34	2289.6	33	2222.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-29	No	64626	39	2520.4	34	2197.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-30	No	64259	28	1799.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-01-31	No	64925	28	1817.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-01	No	62289	24	1494.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-02	No	61115	16	977.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-03	No	66430	24	1594.3	24	1594.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-04	No	62813	21	1319.1	45	2826.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-05	No	63937	22	1406.6	43	2749.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-06	No	68126	25	1703.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-07	No	67267	32	2152.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-08	No	67225	30	2016.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-09	No	66904	31	2074			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-10	No	66668	31	2066.7	35	2333.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-11	No	65457	49	3207.4	40	2618.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-12	No	65478	38	2488.2	40	2619.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-13	No	64651	17	1099.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-14	No	64281	24	1542.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-15	No	67927	19	1290.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-16	No	68236	35	2388.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-17	No	64254	36	2313.1	38	2441.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-18	No	62578	36	2252.8	41	2565.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-19	No	64305	24	1543.3	32	2057.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-20	No	63481	28	1777.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-21	No	62059	22	1365.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-22	No	63777	22	1403.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-23	No	64127	16	1026			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-24	No	63586	15	953.8	29	1844	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-25	No	64481	25	1612	27	1741	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-26	No	62987	18	1133.8	25	1574.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-27	No	65118	27	1758.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-02-28	No	64794	29	1879			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-01	No	64961	34	2208.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-02	No	65316	34	2220.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-03	No	65829	26	1711.6	30	1974.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-04	No	68338	33	2255.2	36	2460.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-05	No	66609	21	1398.8	31	2064.9	No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-06	No	64518	23	1483.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-07	No	63396	17	1077.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-08	No	63387	22	1394.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-09	No	52576	13	683.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-10	No	42431	18	763.8	24	1018.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-11	No	61554	14	861.8	35	2154.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-12	No	66441	12	797.3	26	1727.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-13	No	65954	18	1187.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-14	No	65718	16	1051.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-15	No	70662	9	636			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-16	No	70341	15	1055.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-17	No	67582	27	1824.7	43	2906	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-18	No	70438	35	2465.3	47	3310.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-19	No	71812	45	3231.5	57	4093.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-20	No	68649	50	3432.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-21	No	69506	51	3544.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-22	No	75783	60	4547			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-23	No	72102	52	3749.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-24	No	76801	41	3148.8	52	3993.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-25	No	74878	42	3144.9	46	3444.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-26	No	78855	28	2207.9	44	3469.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-27	No	82695	22	1819.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-28	No	78189	28	2189.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-29	No	78432	22	1725.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-30	No	73979	24	1775.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-03-31	No	73189	25	1829.7	31	2268.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-01	No	68668	29	1991.4	41	2815.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-02	No	67204	5	336	47	3158.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-03	No	66855	22	1470.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-04	No	69609	28	1949.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-05	No	68158	5	340.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-06	No	67669	20	1353.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-07	No	67477	25	1686.9	37	2496.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-08	No	66159	15	992.4	45	2977.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-09	No	66222	22	1456.9	28	1854.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-10	No	68644	17	1166.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-11	No	71593	9	644.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-12	No	70973	19	1348.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-13	No	70712	18	1272.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-14	No	73694	13	958	28	2063.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-15	No	72924	10	729.2	34	2479.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-16	No	70823	12	849.9	27	1912.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-17	No	69455	12	833.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-18	No	69939	13	909.2			No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-19	No	66180	22	1456			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-20	No	66194	5	331			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-21	No	69318	10	693.2	40	2772.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-22	No	105039	11	1155.4	26	2731	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-23	No	110593	21	2322.5	36	3981.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-24	No	110578	27	2985.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-25	No	99427	13	1292.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-26	No	96247	25	2406.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-27	No	103969	20	2079.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-28	No	106007	32	3392.2	48	5088.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-29	No	99046	20	1980.9	39	3862.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-04-30	No	93314	22	2052.9	65	6065.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-01	No	81634	21	1714.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-02	No	79337	14	1110.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-03	No	75860	15	1137.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-04	No	71992	11	791.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-05	No	70744	17	1202.6	24	1697.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-06	No	69192	18	1245.5	27	1868.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-07	No	68593	19	1303.3	16	1097.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-08	No	66796	29	1937.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-09	No	65540	23	1507.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-10	No	64158	22	1411.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-11	No	64075	20	1281.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-12	No	64310	14	900.3	22	1414.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-13	No	63978	17	1087.6	53	3390.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-14	No	64974	29	1884.2	98	6367.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-15	No	66065	32	2114.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-16	No	66366	30	1991			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-17	No	66880	32	2140.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-18	No	68375	24	1641			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-19	No	67998	32	2175.9	61	4147.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-20	No	70662	33	2331.8	57	4027.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-21	No	71854	45	3233.4	49	3520.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-22	No	72283	30	2168.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-23	No	70970	29	2058.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-24	No	63939	12	767.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-25	No	62164	11	683.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-26	No	62255	7	435.8	19	1182.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-27	No	62159	7	435.1	24	1491.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-28	No	68064	13	884.8	30	2041.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-29	No	72382	10	723.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-30	No	65804	13	855.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-05-31	No	73951	19	1405.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-01	No	48200					No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-02	No	30483	29	884	64	1950.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-03	No	24026	40	961	86	2066.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-04	No	22841	38	868	106	2421.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-05	No	22287	41	913.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-06	No	22323	54	1205.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-07	No	23255	48	1116.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-08	No	21775	56	1219.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-09	No	19022	48	913.1	173	3290.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-10	No	18390	43	790.8	188	3457.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-11	No	18551	40	742	134	2485.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-12	No	18240	33	601.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-13	No	26274	54	1418.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-14	No	34662	34	1178.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-15	No	19968	49	978.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-16	No	1473	38	56	87	128.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-17	No	858	228	195.6	56	48	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-18	No	755					No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-19	No	28108	29	815.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-20	No	44584	38	1694.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-21	No	43819	19	832.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-22	No	53599	15	804			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-23	No	53513	5	267.6	15	802.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-24	No	50741	5	253.7	17	862.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-25	No	52001	8	416	9	468	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-26	No	53716	5	268.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-27	No	60961	5	304.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-28	No	61783	6	370.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-29	No	62919	10	629.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-06-30	No	67944	15	1019.2	12	815.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-01	No	69289	18	1247.2	17	1177.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-02	No	68305	25	1707.6	17	1161.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-03	No	67952	27	1834.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-04	No	64688	28	1811.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-05	No	64792	29	1879			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-06	No	64807	25	1620.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-07	No	63633	21	1336.3	28	1781.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-08	No	59864	23	1376.9	24	1436.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-09	No	60907	20	1218.1	20	1218.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-10	No	67571	10	675.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-11	No	71232	11	783.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-12	No	72026	15	1080.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-13	No	71097	20	1421.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-14	No	69516	23	1598.9	28	1946.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-15	No	70433	22	1549.5	20	1408.7	No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-16	No	72014	23	1656.3	25	1800.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-17	No	71073	27	1919			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-18	No	73119	21	1535.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-19	No	82167	21	1725.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-20	No	80985	16	1295.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-21	No	68777	25	1719.4	35	2407.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-22	No	69701	21	1463.7	22	1533.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-23	No	70372	15	1055.6	30	2111.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-24	No	69471	12	833.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-25	No	69312	19	1316.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-26	No	70004	17	1190.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-27	No	70386	15	1055.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-28	No	72605	14	1016.5	21	1524.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-29	No	75817	20	1516.3	20	1516.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-30	No	73367	9	660.3	17	1247.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-07-31	No	75927	14	1063			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-01	No	75751	16	1212			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-02	No	74402	19	1413.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-03	No	75490	20	1509.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-04	No	76930	24	1846.3	18	1384.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-05	No	77147	22	1697.2	12	925.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-06	No	76736	24.6	1887.7	14	1074.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-07	No	71296	20	1425.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-08	No	67902	25	1697.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-09	No	71712	22	1577.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-10	No	77418	21	1625.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-11	No	69834	22	1536.3	18	1257	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-12	No	70835	26	1841.7	21	1487.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-13	No	67506	19	1282.6	25	1687.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-14	No	64927	25	1623.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-15	No	68041	22	1496.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-16	No	70846	22	1558.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-17	No	72861	25	1821.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-18	No	73706	39	2874.5	28	2063.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-19	No	73435	24	1762.4	47	3451.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-20	No	70373	13	914.8	29	2040.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-21	No	68952	12	827.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-22	No	69621	18	1253.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-23	No	68811	18	1238.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-24	No	69500	16	1112			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-25	No	70690	22	1555.2	17	1201.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-26	No	69559	18	1252.1	15	1043.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-27	No	70343	16	1125.5	15	1055.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-28	No	70928	11	780.2			No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-29	No	68474	12	821.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-30	No	68695	11	755.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-08-31	No	67178	15	1007.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-01	No	66631	12	799.6	26	1732.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-02	No	66241	25	1656	24	1589.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-03	No	67072	10	670.7	16	1073.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-04	No	63976	22	1407.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-05	No	63374	26	1647.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-06	No	63669	27	1719.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-07	No	61562	24	1477.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-08	No	62705	10	627	17	1066	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-09	No	63243	6	379.5	19	1201.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-10	No	59985	5	299.9	16	959.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-11	No	65911	6	395.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-12	No	71698	6	430.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-13	No	65921	10	659.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-14	No	63691	16	1019.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-15	No	65068	17	1106.2	20	1301.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-16	No	65675	32	2101.6	34	2233	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-17	No	64522	44.9	2897	34	2193.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-18	No	64825	29	1879.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-19	No	64479	23	1483			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-20	No	64422	15	966.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-21	No	62934	18	1132.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-22	No	61117	12	733.4	21	1283.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-23	No	62302	10	623	23	1432.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-24	No	63371	27	1711	16	1013.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-25	No	63173	12	758.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-26	No	62807	18	1130.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-27	No	61649	22	1356.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-28	No	59859	21	1257			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-29	No	57407	13	746.3	17	975.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-09-30	No	59111	16	945.8	33	1950.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-01	No	67927	14	951	19	1290.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-02	No	64448	6	386.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-03	No	65770	8	526.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-04	No	64153	8	513.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-05	No	60176	18	1083.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-06	No	60033	14	840.5	13	780.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-07	No	58329	10	583.3	12	699.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-08	No	56761	10	567.6	15	851.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-09	No	57521	10	575.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-10	No	57183	7	400.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-11	No	56618	12	679.4			No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-12	No	57120	8	457			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-13	No	58257	8	466.1	17	990.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-14	No	55201	9	496.8	63	3477.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-15	No	54182	22	1192	44	2384	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-16	No	69266	11	761.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-17	No	60351	11	663.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-18	No	61458	8	491.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-19	No	61031	5	305.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-20	No	60037	6	360.2	20	1200.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-21	No	60301	7	422.1	19	1145.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-22	No	60680	12	728.2	18	1092.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-23	No	62038	12	744.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-24	No	61788	9	556.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-25	No	61889	10	618.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-26	No	61389	10	613.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-27	No	56979	14	797.7	16	911.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-28	No	57866	20	1157.3	21	1215.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-29	No	60071	11	660.8	17	1021.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-30	No	59392	15	890.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-10-31	No	56146	15	842.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-01	No	58879	14	824.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-02	No	58115	11	639.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-03	No	58009	13	754.1	13	754.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-04	No	51050	7	357.4	17	867.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-05	No	48518	12	582.2	28	1358.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-06	No	47653	10	476.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-07	No	51137	13	664.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-08	No	53812	15	807.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-09	No	54118	15	811.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-10	No	51405	18	925.3	21	1079.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-11	No	52190	19	991.6	18	939.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-12	No	53657	16	858.5	19	1019.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-13	No	57691	14	807.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-14	No	60152	12	721.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-15	No	59516	13	773.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-16	No	58724	9	528.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-17	No	58472	10	584.7	20	1169.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-18	No	58491	8	467.9	19	1111.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-19	No	56912	6	341.5	19	1081.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-20	No	56785	13	738.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-21	No	57944	8	463.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-22	No	69371	11	763.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-23	No	72820	15	1092.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-24	No	65259	17	1109.4	46	3001.9	No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-25	No	58467	23	1344.7	25	1461.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-26	No	61647	10	616.5	63	3883.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-27	No	61601	15	924			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-28	No	60588	11	666.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-29	No	60297	14	844.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-11-30	No	59684	10	596.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-01	No	59537	13	774	18	1071.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-02	No	58483	13	760.3	29	1696	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-03	No	60382	24	1449.2	27	1630.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-04	No	63338	10	633.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-05	No	60605	66	3999.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-06	No	59666	46	2744.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-07	No	59084	52	3072.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-08	No	59095	64	3782.1	66	3900.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-09	No	57795	53	3063.1	66	3814.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-10	No	58537	35	2048.8	57	3336.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-11	No	58332	34	1983.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-12	No	58849	31	1824.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-13	No	59195	33	1953.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-14	No	58615	17	996.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-15	No	60614	12	727.4	20	1212.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-16	No	64333	23	1479.7	48	3088	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-17	No	62979	22	1385.5	22	1385.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-18	No	61661	26	1603.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-19	No	63664	23	1464.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-20	No	60869	23	1400			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-21	No	59661	18	1073.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-22	No	59684	19	1134	20	1193.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-23	No	62557	17	1063.5	22	1376.3	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-24	No	63452	20	1269	28	1776.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-25	No	63510	19	1206.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-26	No	60684	24	1456.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-27	No	63445	17	1078.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-28	No	64082	16	1025.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-29	No	61545	14	861.6	22	1354	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-30	No	62321	9	560.9	20	1246.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2015-12-31	No	63976	7	447.8	21	1343.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-01	No	61990	7	433.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-02	No	61418	7	429.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-03	No	61690	11	678.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-04	No	61910	12	742.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-05	No	61176	9	550.6	29	1774.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-06	No	65877	6	395.3	36	2371.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-07	No	67182	23	1545.2	57	3829.4	No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-08	No	67142	32	2148.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-09	No	67862	30	2035.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-10	No	67564	35	2364.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-11	No	74333	28	2081.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-12	No	68887	26	1791.1	36	2479.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-13	No	67568	25	1689.2	30	2027	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-14	No	64062	25	1601.6	33	2114	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-15	No	63680	17	1082.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-16	No	65178	23	1499.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-17	No	68132	16	1090.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-18	No	65525	20	1310.5			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-19	No	64727	26	1682.9	23	1488.7	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-20	No	63250	16	1012	24	1518	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-21	No	62988	9	566.9	32	2015.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-22	No	41526	5	207.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-23	No	44318	5	221.6			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-24	No	59893	6	359.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-25	No	65118	7	455.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-26	No	68650	7	480.6	24	1647.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-27	No	68539	9	616.9	32	2193.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-28	No	69181	9	622.6	30	2075.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-29	No	64021	16	1024.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-30	No	64021	44	2816.9			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-01-31	No	67238	5	336.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-01	No	67450	20	1349			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-02	No	70131	27	1893.5	46	3226	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-03	No	69914	32	2237.2	45	3146.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-04	No	75609	31	2343.9	40	3024.4	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-05	No	79293	34	2696			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-06	No	85570	23	1968.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-07	No	72624	27	1960.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-08	No	70871	31	2197			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-09	No	78660	37	2910.4	28	2202.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-10	No	70777	21	1486.3	23	1627.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-11	No	69404	35	2429.1	21	1457.5	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-12	No	67784	31	2101.3			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-13	No	68085	26	1770.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-14	No	67358	27	1818.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-15	No	65920	24	1582.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-16	No	66386	34	2257.1	49	3252.9	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-17	No	74423	33	2456	63	4688.6	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-18	No	69532	24	1668.8	70	4867.2	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-19	No	66716	31	2068.2			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-20	No	66125	26	1719.2			No	No

Effluent Data

Facility Name	Outfall Name	Date	Additional Day	Effluent Volume, m ³	SS Conc, mg/L	SS Loading, kg	BOD Conc, mg/L	BOD Loading, kg	SS Non Detectable	BOD Non Detectable
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-21	No	66489	24	1595.7			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-22	No	63935	18	1150.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-23	No	62472	21	1311.9	25	1561.8	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-24	No	62581	13	813.6	26	1627.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-25	No	67522	17	1147.9	52	3511.1	No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-26	No	70265	28	1967.4			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-27	No	66727	19	1267.8			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-28	No	65440	23	1505.1			No	No
Paper Excellence Canada Holdings Corporation - Northern Pulp Nova Scotia Corp. (New Glasgow, NS)	Northern Pulp Nova Scotia Outfall (Point C)	2016-02-29	No	64791	22	1425.4			No	No

Appendix C SUPPORTING ENVIRONMENTAL INFORMATION

NF1



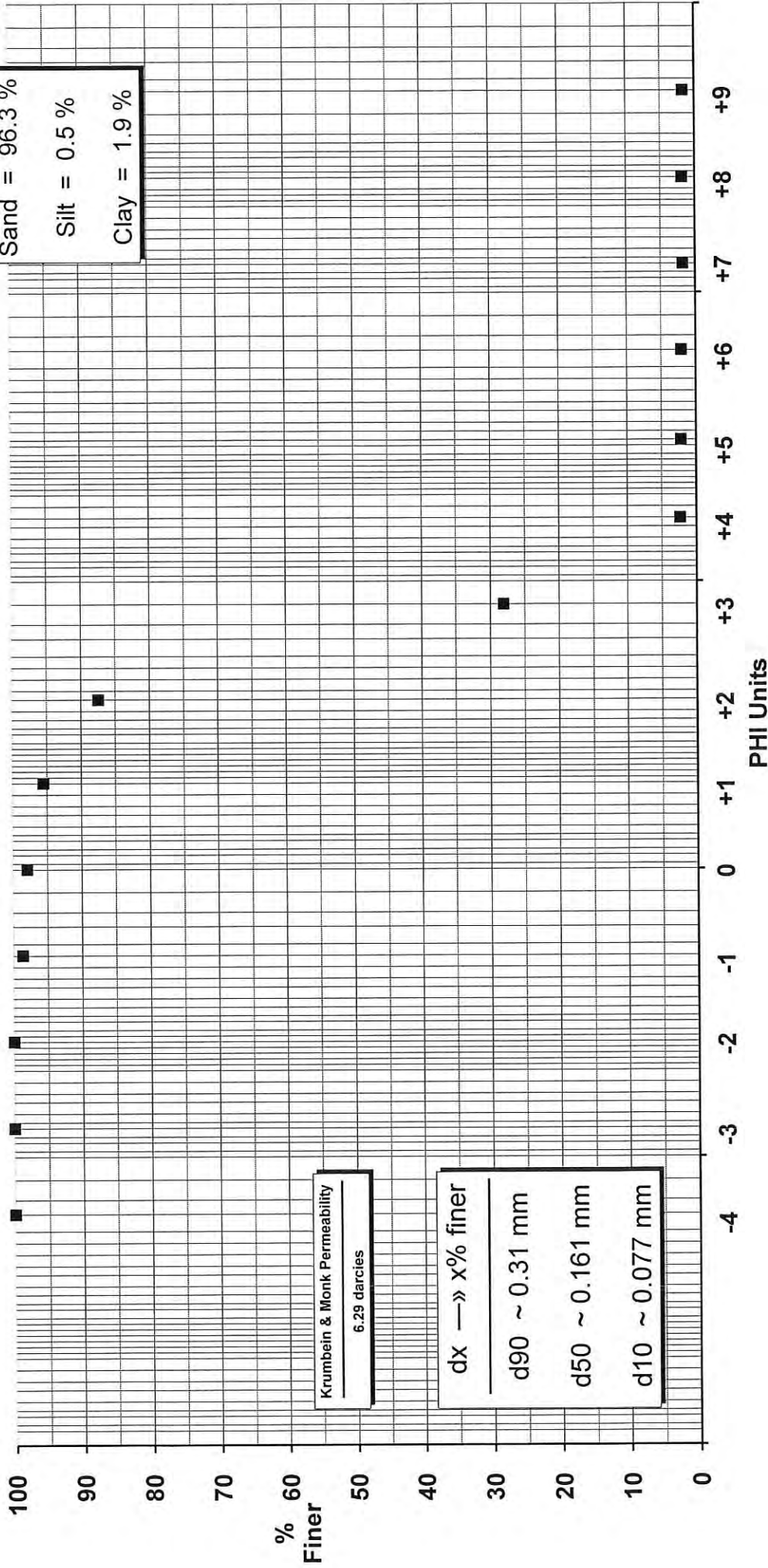
Percent Coarser than 75 μm
(PHI = 3.737)

90.9 %

Percent Coarser than 50 μm
(PHI = 4.322)

97.7 %

Wentworth
Gravel = 1.3 %
Sand = 96.3 %
Silt = 0.5 %
Clay = 1.9 %



MJC
Approved

NF2

Percent Coarser than 75 μm
(PHI = 3.737)

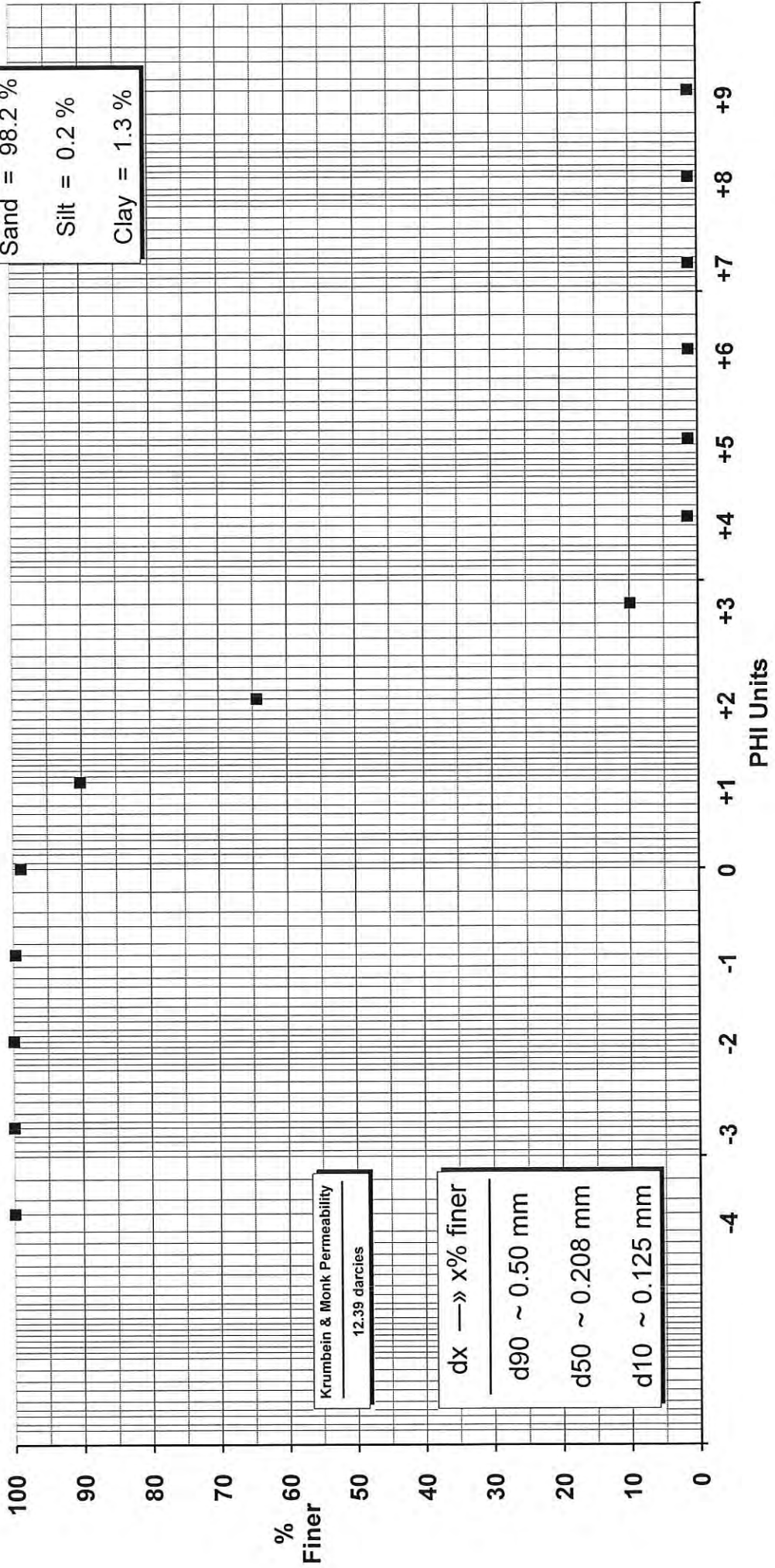
96.3 %

Percent Coarser than 50 μm
(PHI = 4.322)

98.5 %

Wentworth

Gravel = 0.3 %
Sand = 98.2 %
Silt = 0.2 %
Clay = 1.3 %



Krumbein & Monk Permeability

12.39 darcies

dx —> x% finer

d90 ~ 0.50 mm
d50 ~ 0.208 mm
d10 ~ 0.125 mm

mmb

Approved

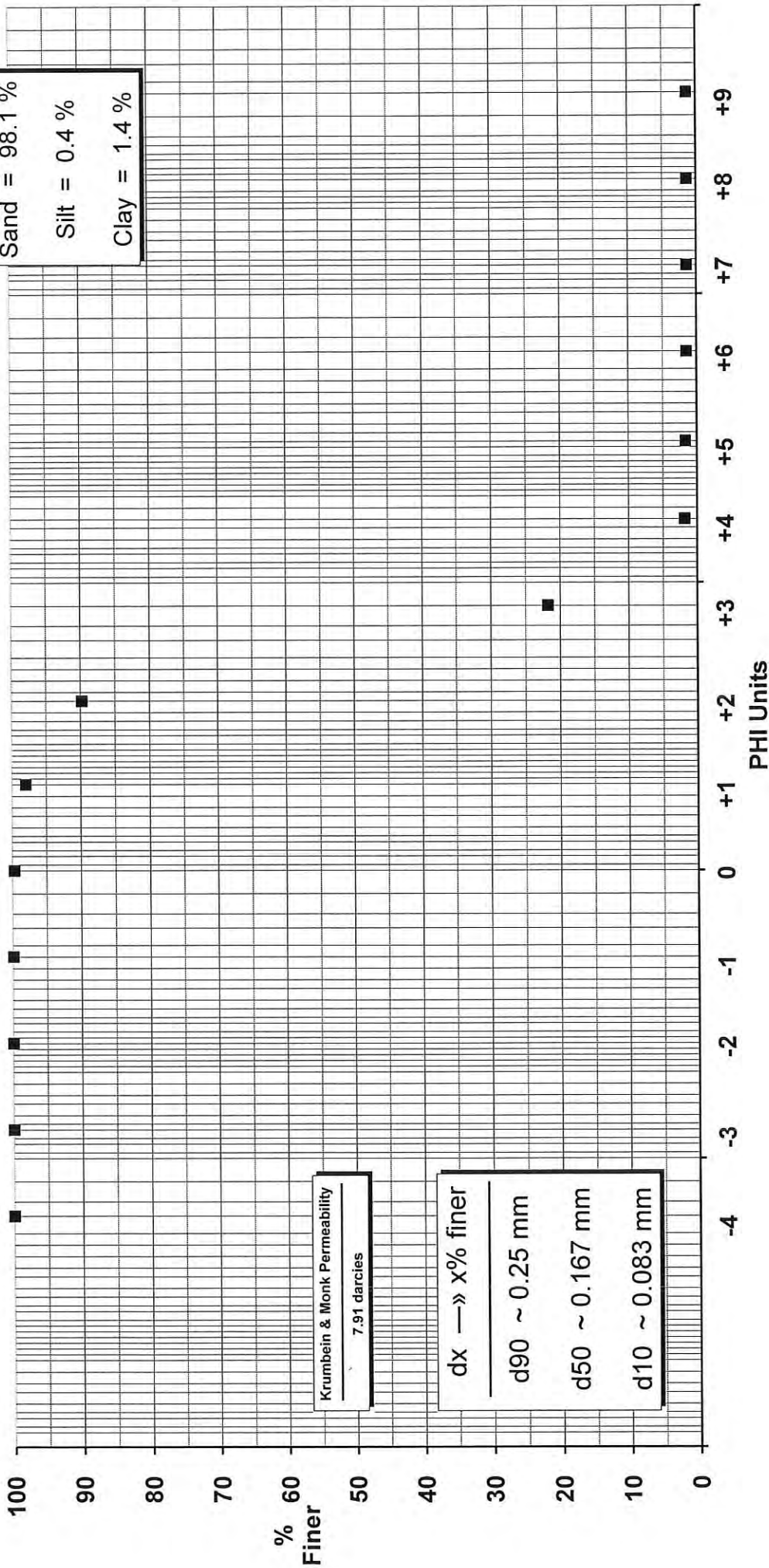
NF3



Percent Coarser than 75 µm
(PHI = 3.737)
92.9 %

Percent Coarser than 50 µm
(PHI = 4.322)
98.2 %

Wentworth
Gravel = 0.1 %
Sand = 98.1 %
Silt = 0.4 %
Clay = 1.4 %



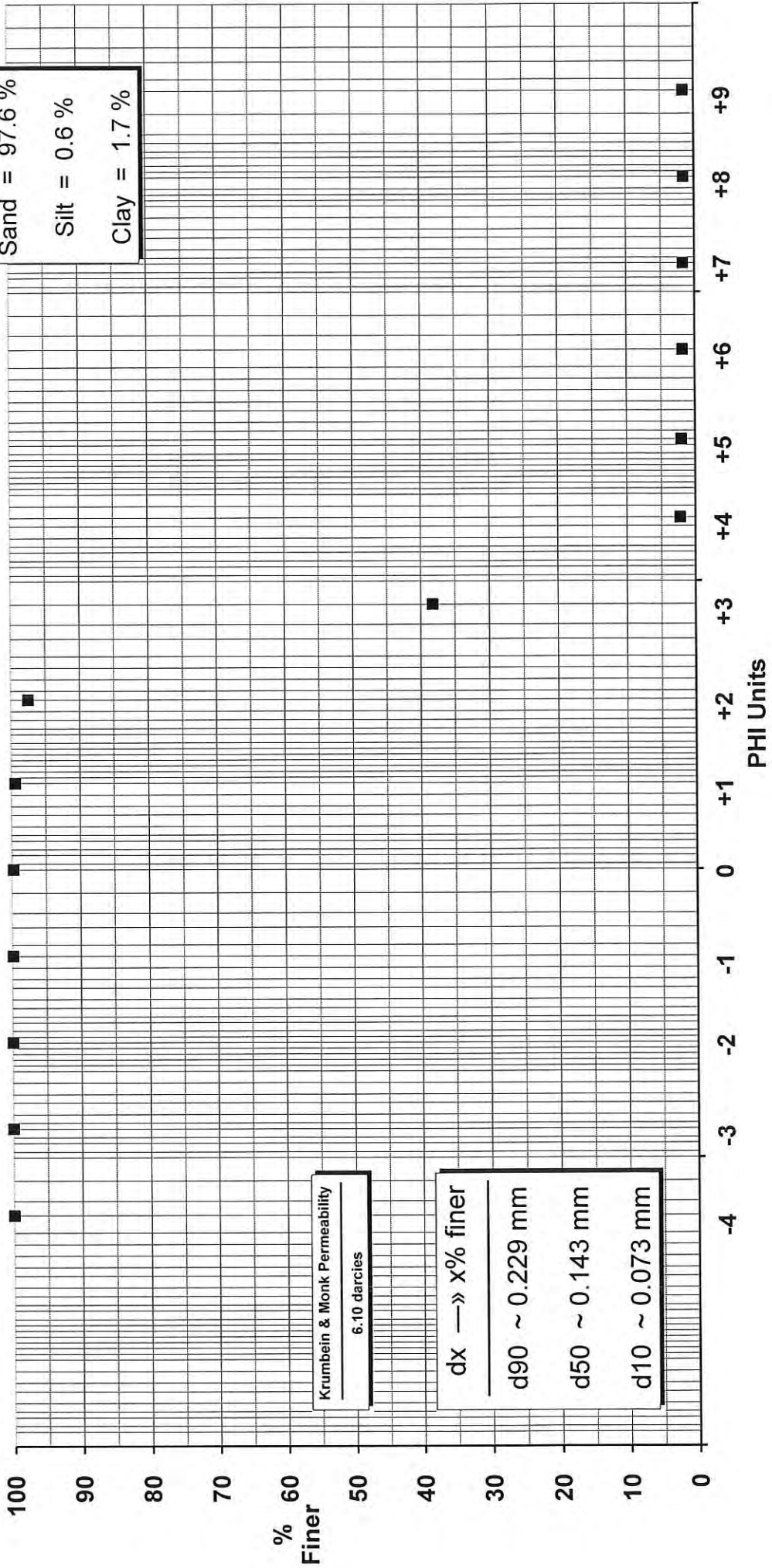
M. G.
Approved

NF4

Percent Coarser than 75 μ m
(PHI = 3.737)
88.3 %

Percent Coarser than 50 μ m
(PHI = 4.322)
97.8 %

Wentworth
Gravel = 0.1 %
Sand = 97.6 %
Silt = 0.6 %
Clay = 1.7 %



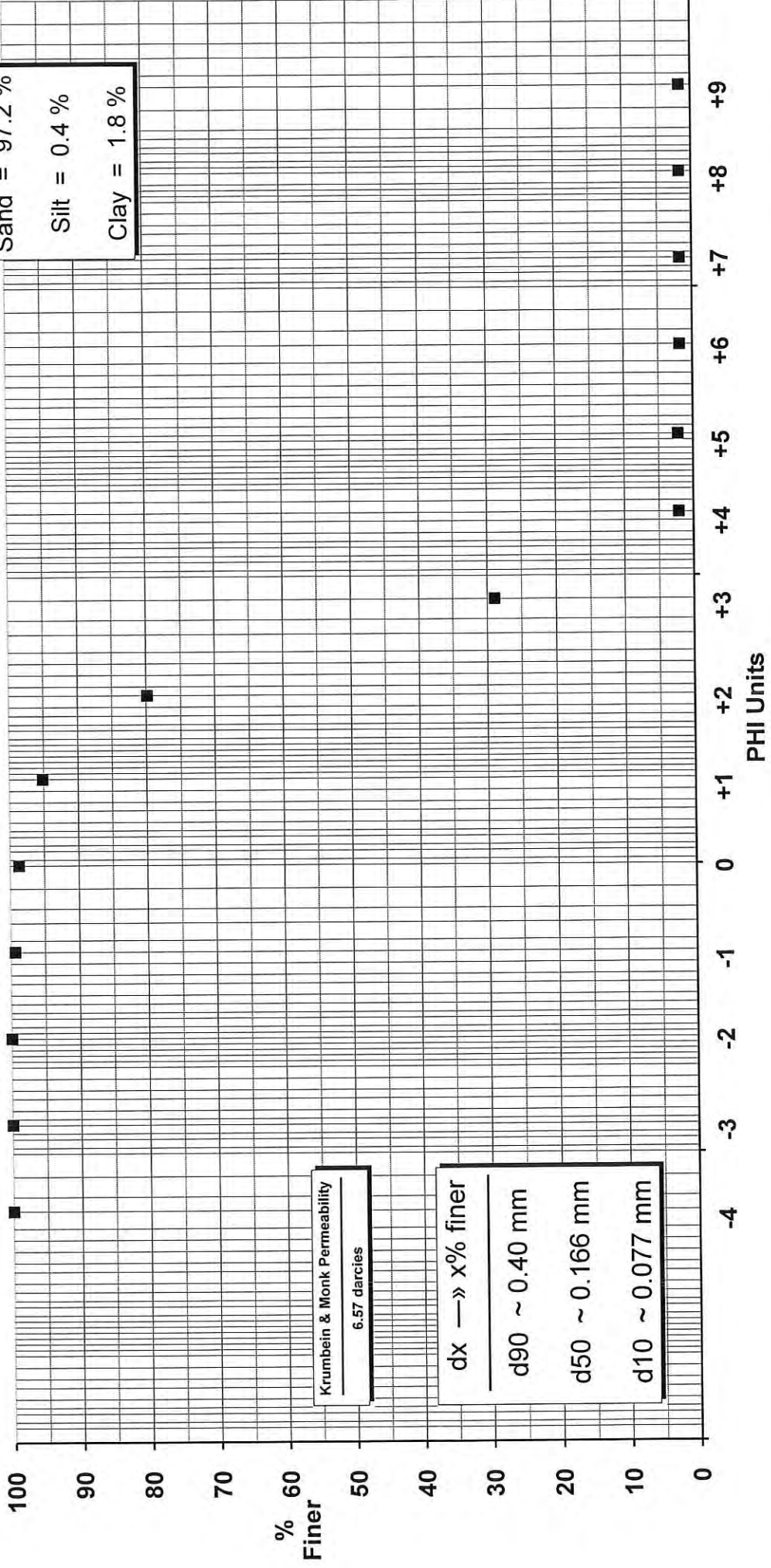
[Signature]
Approved

NF5



Percent Coarser than 75 μm (PHI = 3.737)	90.8 %
Percent Coarser than 50 μm (PHI = 4.322)	97.8 %

Wentworth
Gravel = 0.6 %
Sand = 97.2 %
Silt = 0.4 %
Clay = 1.8 %



mg
Approved

Percent Coarser than 75 μm
(PHI = 3.737)

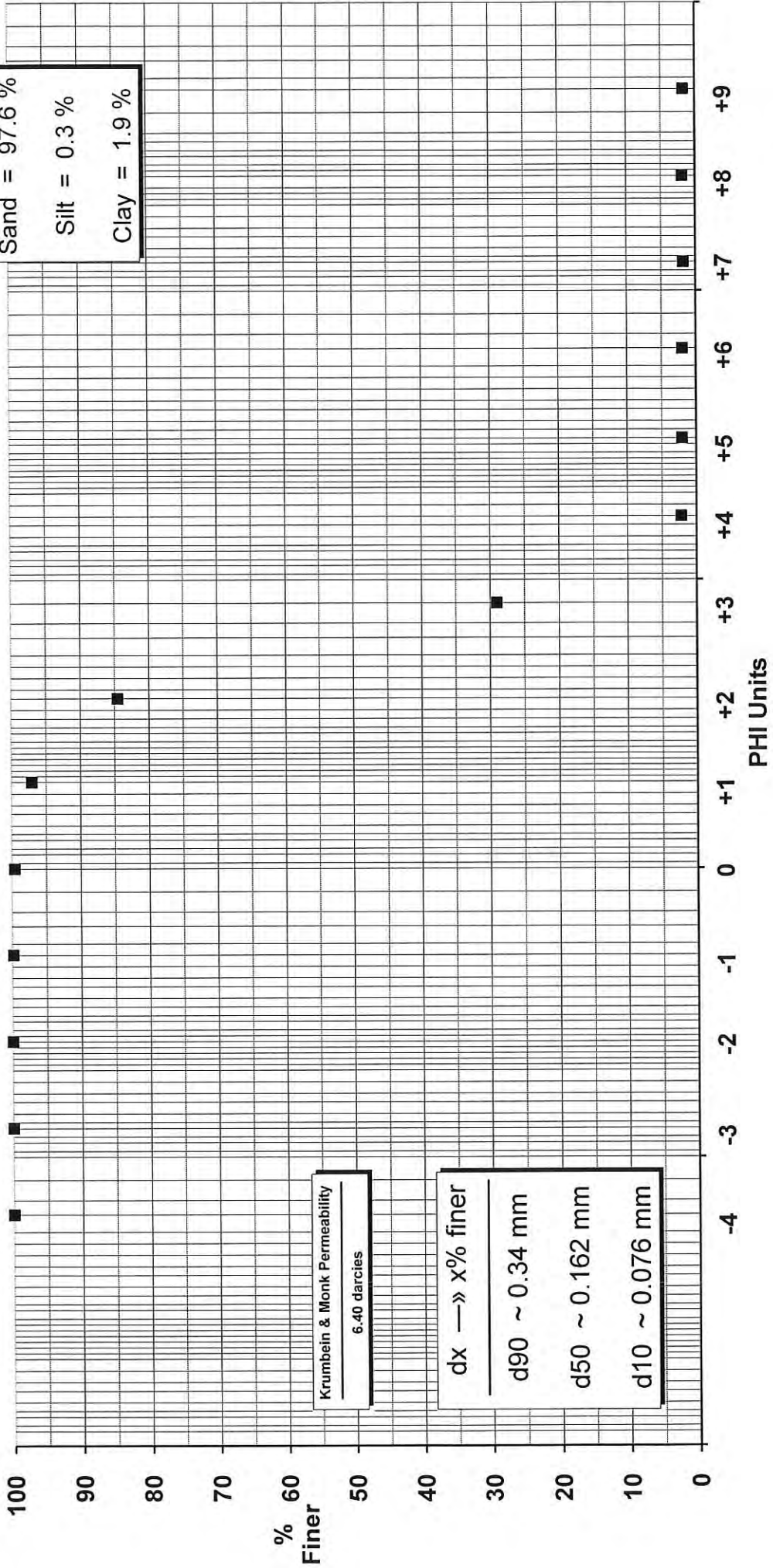
90.7 %

Percent Coarser than 50 μm
(PHI = 4.322)

97.8 %

Wentworth

Gravel = 0.1 %
Sand = 97.6 %
Silt = 0.3 %
Clay = 1.9 %



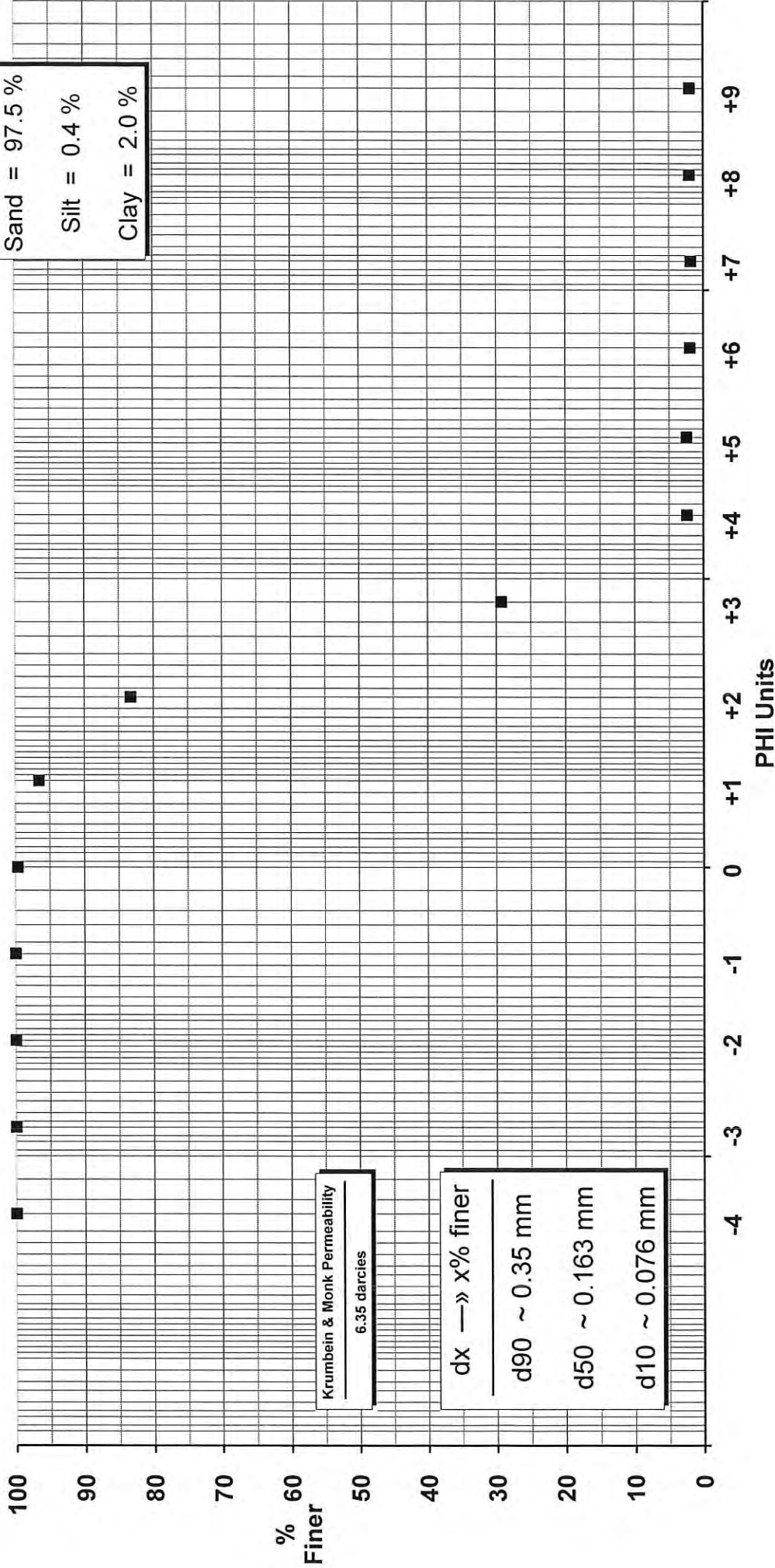
mmg
Approved

FF2

Percent Coarser than 75 μm
(PHI = 3.737)
90.5 %

Percent Coarser than 50 μm
(PHI = 4.322)
97.5 %

Wentworth
Gravel = 0.0 %
Sand = 97.5 %
Silt = 0.4 %
Clay = 2.0 %

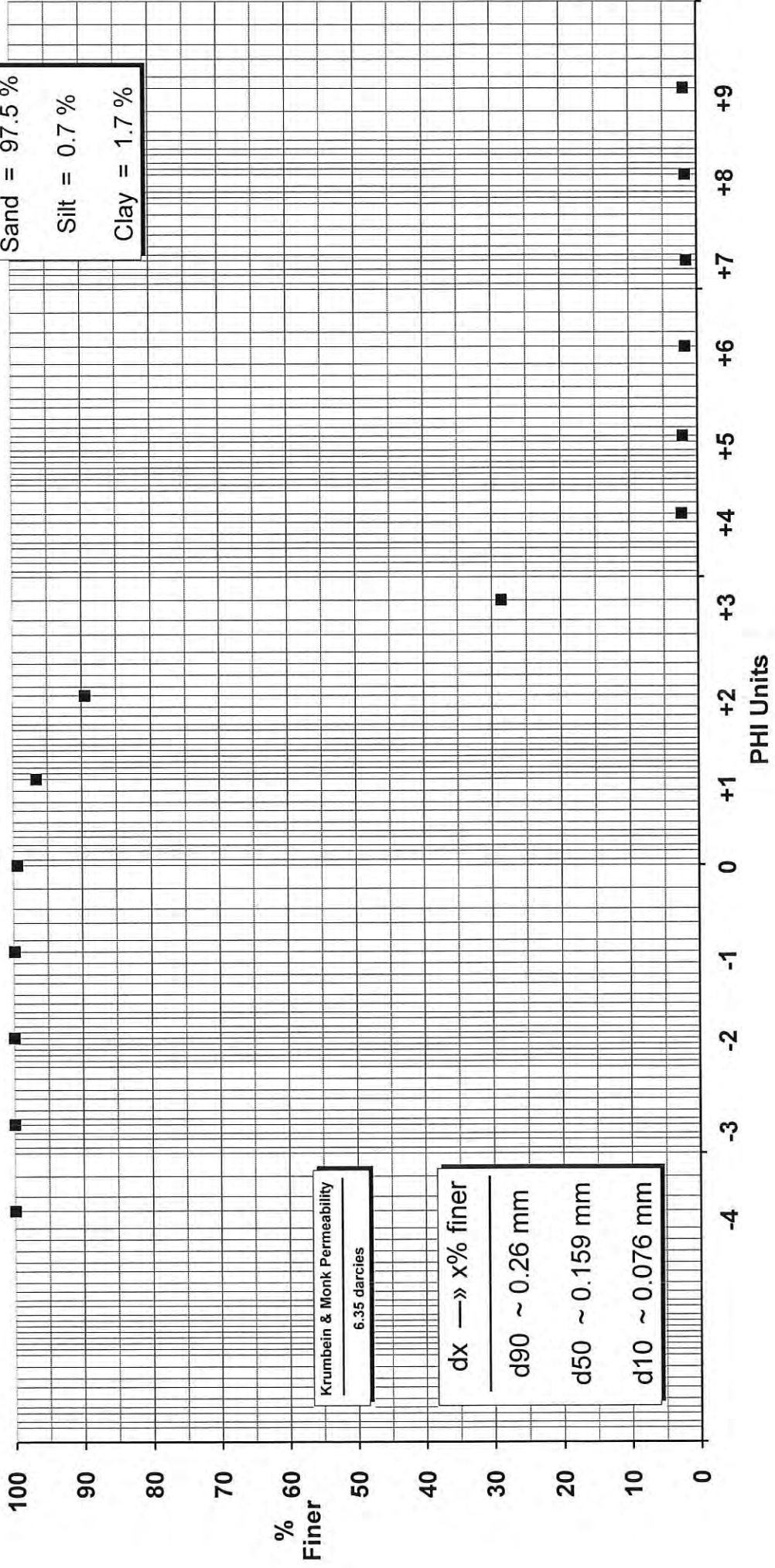


FF3

Percent Coarser than 75 μm
(PHI = 3.737)
90.7 %

Percent Coarser than 50 μm
(PHI = 4.322)
97.7 %

Wentworth
Gravel = 0.1 %
Sand = 97.5 %
Silt = 0.7 %
Clay = 1.7 %



mg
Approved

FF4

Percent Coarser than 75 μm
(PHI = 3.737)

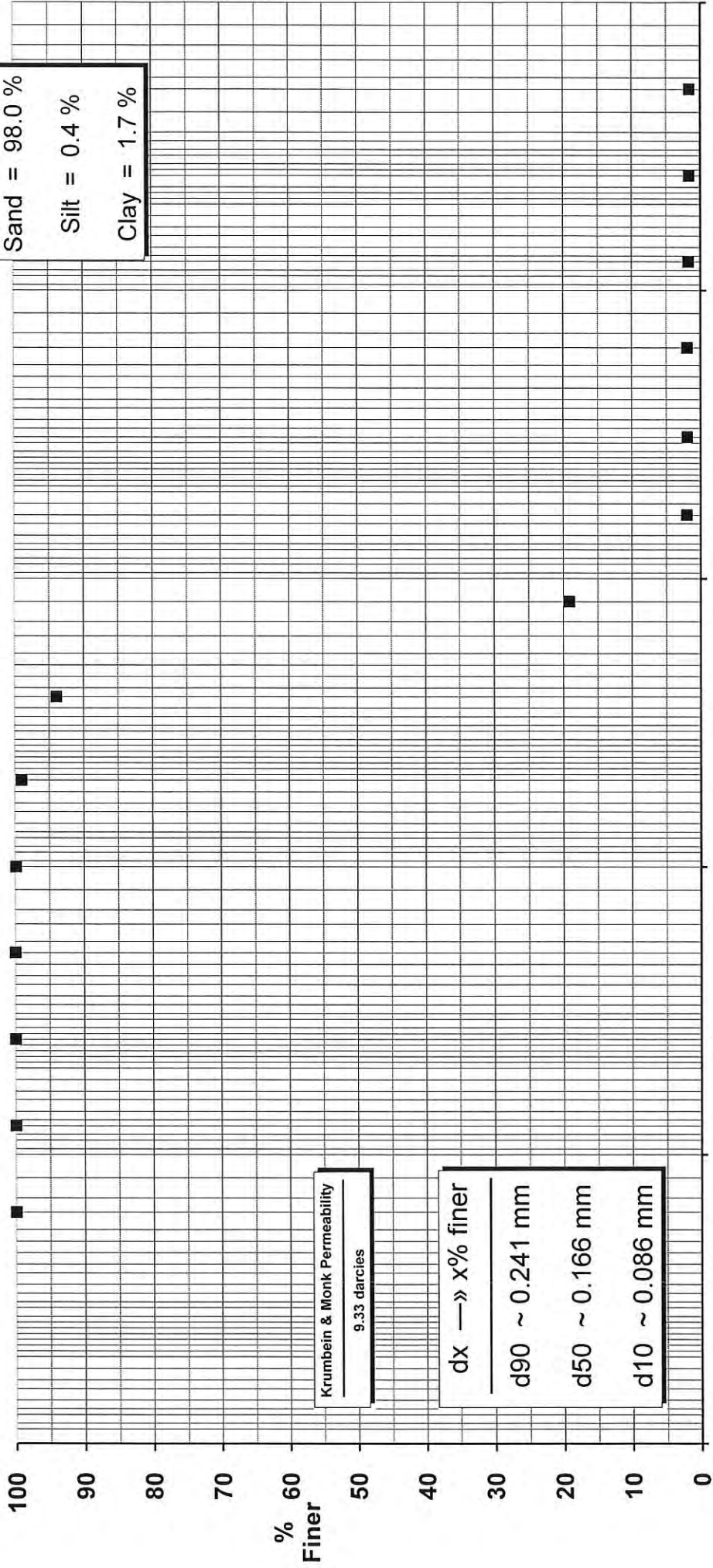
93.5 %

Percent Coarser than 50 μm
(PHI = 4.322)

98.0 %

Wentworth

Gravel = 0.0 %
Sand = 98.0 %
Silt = 0.4 %
Clay = 1.7 %



In July
Approved

FF5

Percent Coarser than 75 μm
(PHI = 3.737)

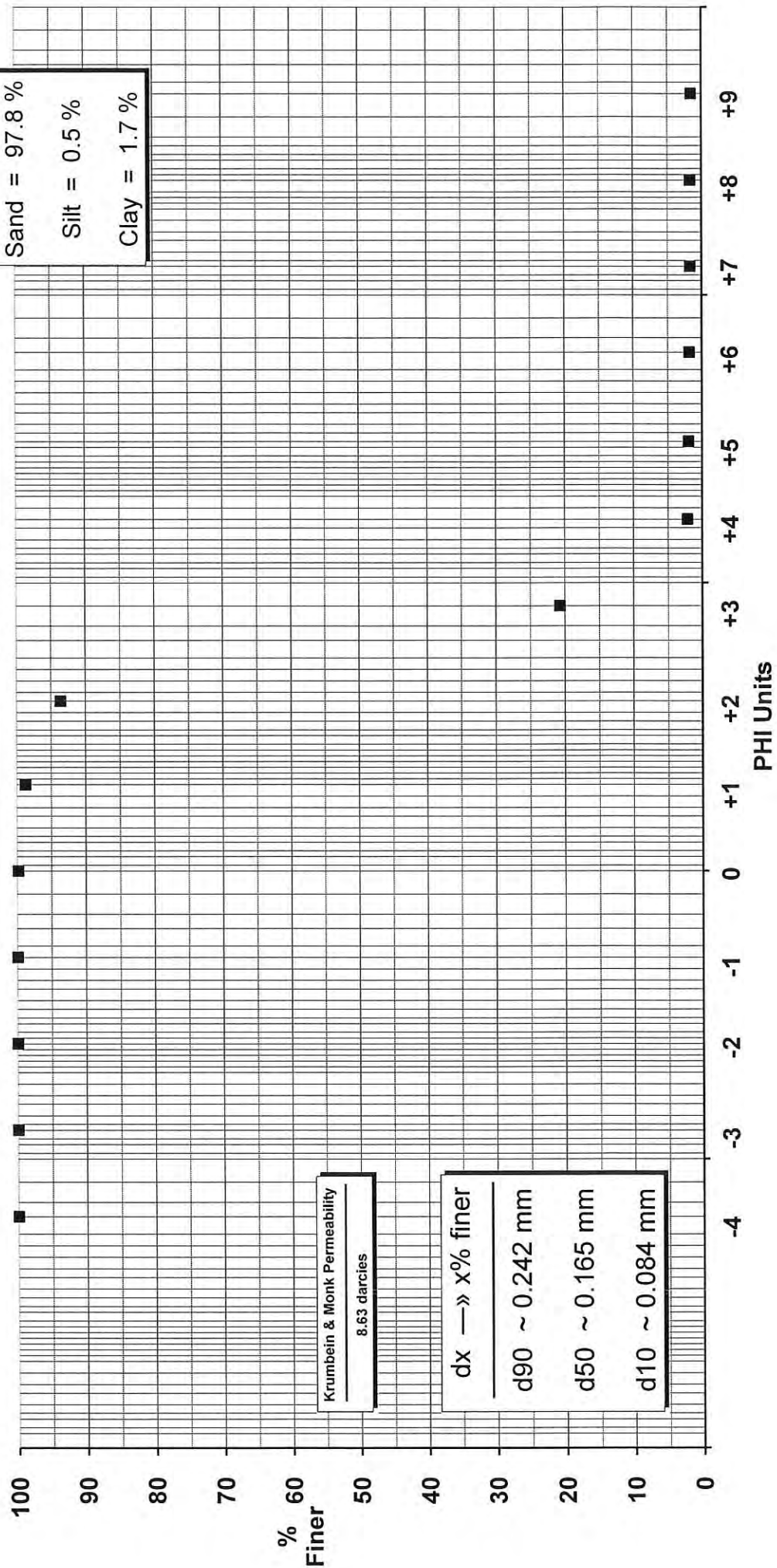
92.9 %

Percent Coarser than 50 μm
(PHI = 4.322)

97.9 %

Wentworth

Gravel = 0.0 %
Sand = 97.8 %
Silt = 0.5 %
Clay = 1.7 %

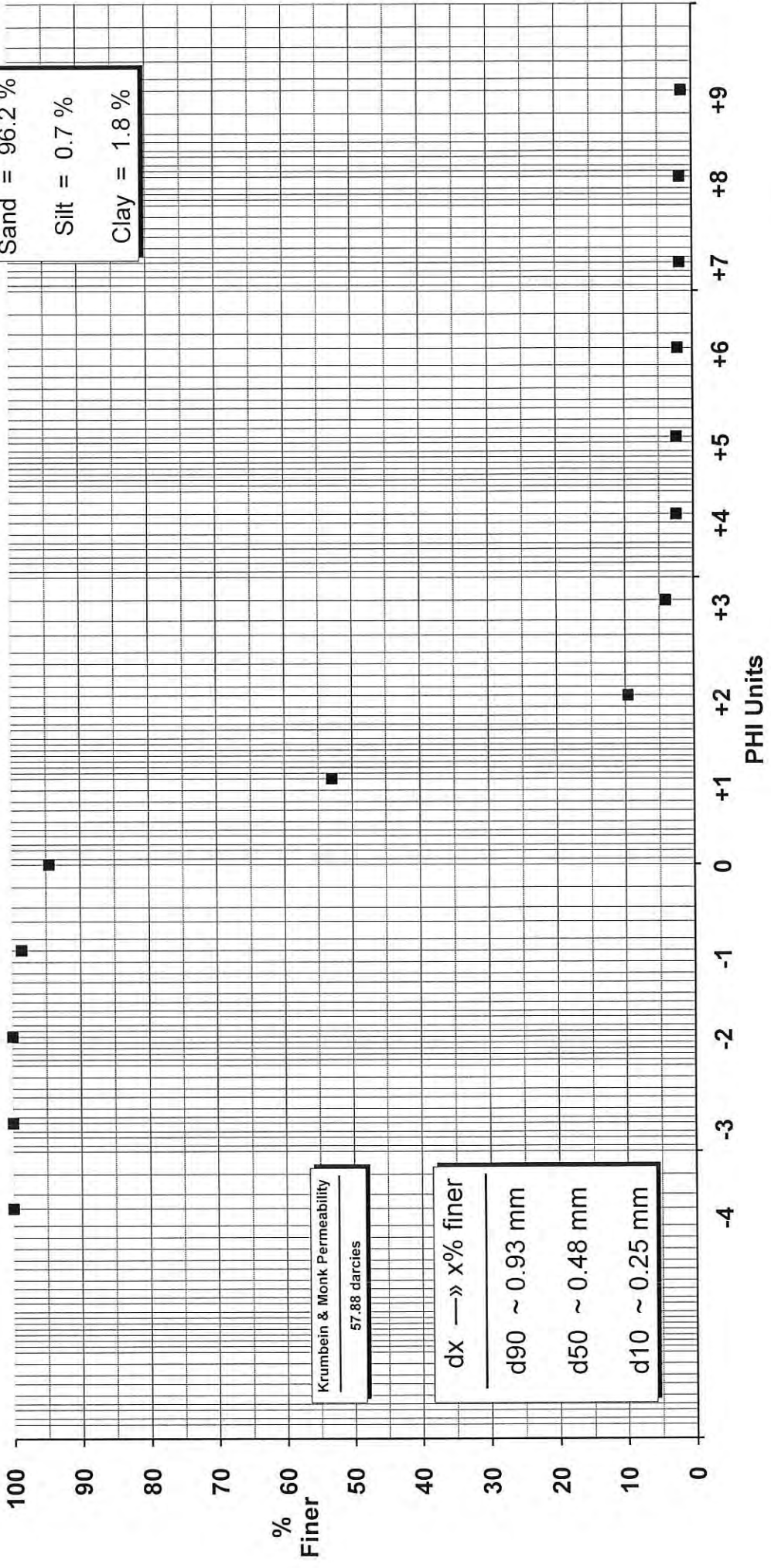


FFF1

Percent Coarser than 75 μ m
(PHI = 3.737)
97.1 %

Percent Coarser than 50 μ m
(PHI = 4.322)
97.5 %

Wentworth
Gravel = 1.4 %
Sand = 96.2 %
Silt = 0.7 %
Clay = 1.8 %



M. M. G.
Approved

FFF2

Maxxam

Percent Coarser than 75 μm
(PHI = 3.737)

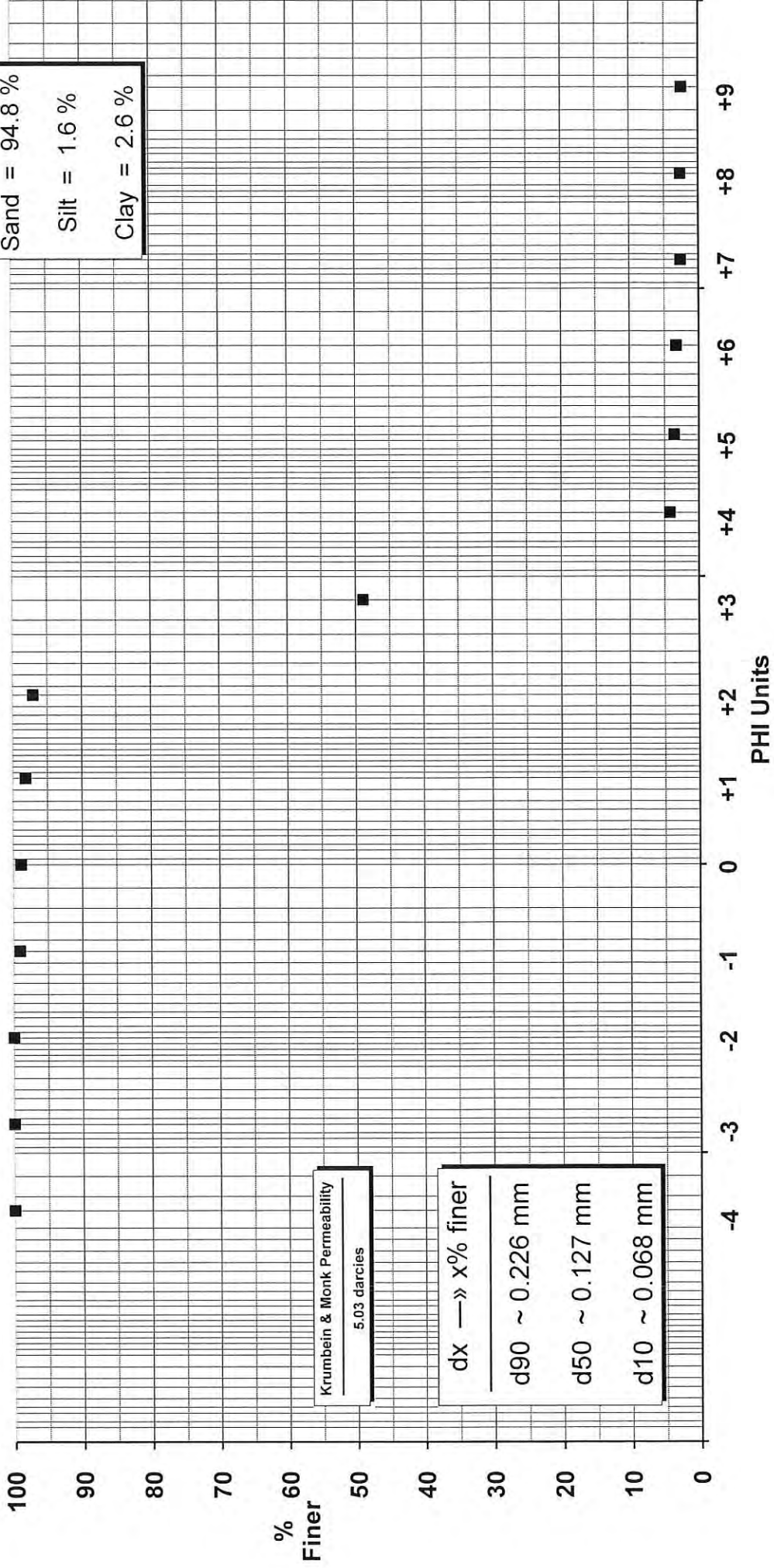
84.0 %

Percent Coarser than 50 μm
(PHI = 4.322)

95.9 %

Wentworth

Gravel = 0.9 %
Sand = 94.8 %
Silt = 1.6 %
Clay = 2.6 %



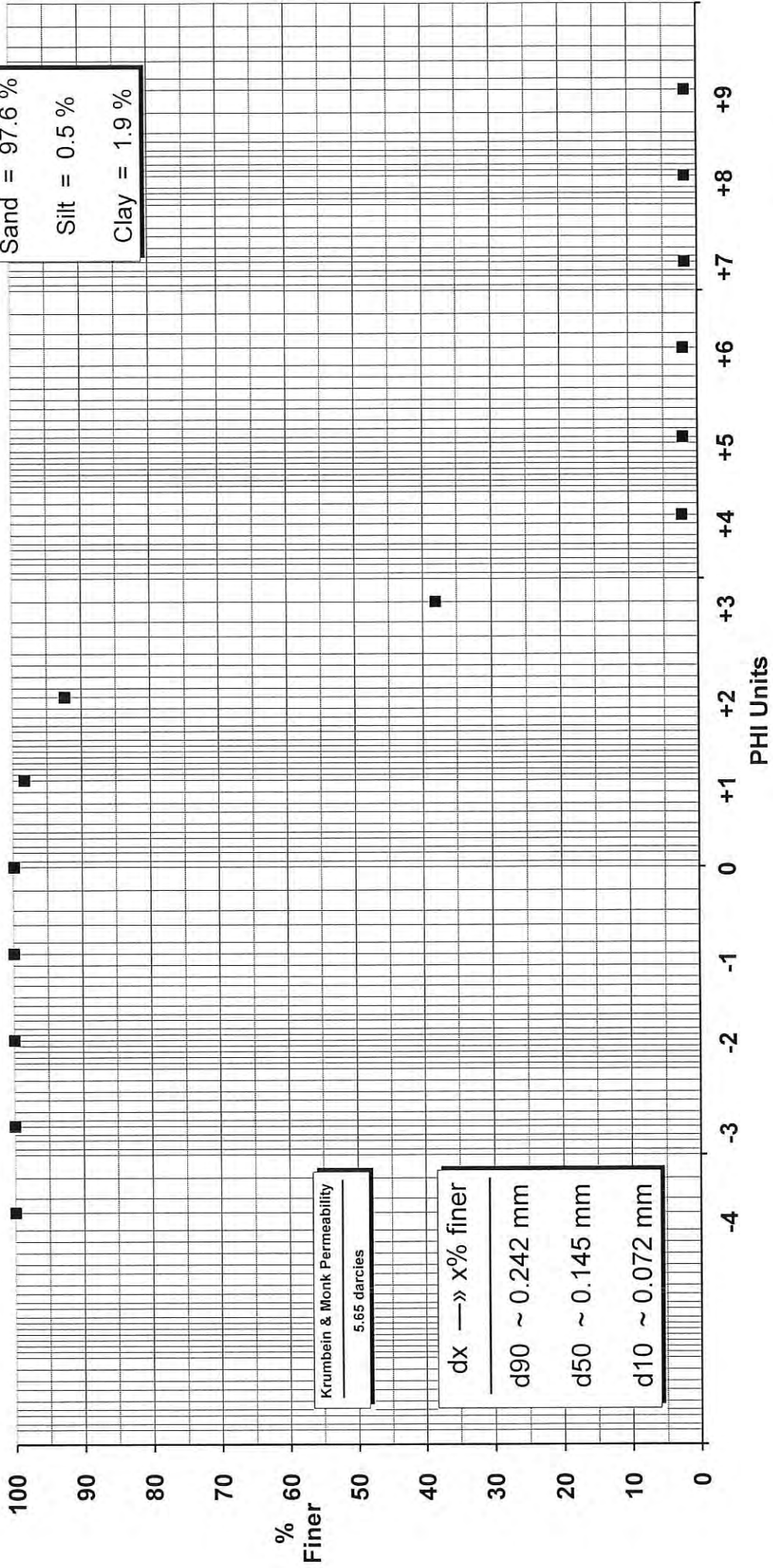
W. G.
Approved

FFF3

Percent Coarser than 75 μ m
(PHI = 3.737)
88.2 %

Percent Coarser than 50 μ m
(PHI = 4.322)
97.7 %

Wentworth
Gravel = 0.0 %
Sand = 97.6 %
Silt = 0.5 %
Clay = 1.9 %



Krumbain & Monk Permeability
5.65 darcies

dx —» x% finer
d90 ~ 0.242 mm
d50 ~ 0.145 mm
d10 ~ 0.072 mm

MHL
Approved

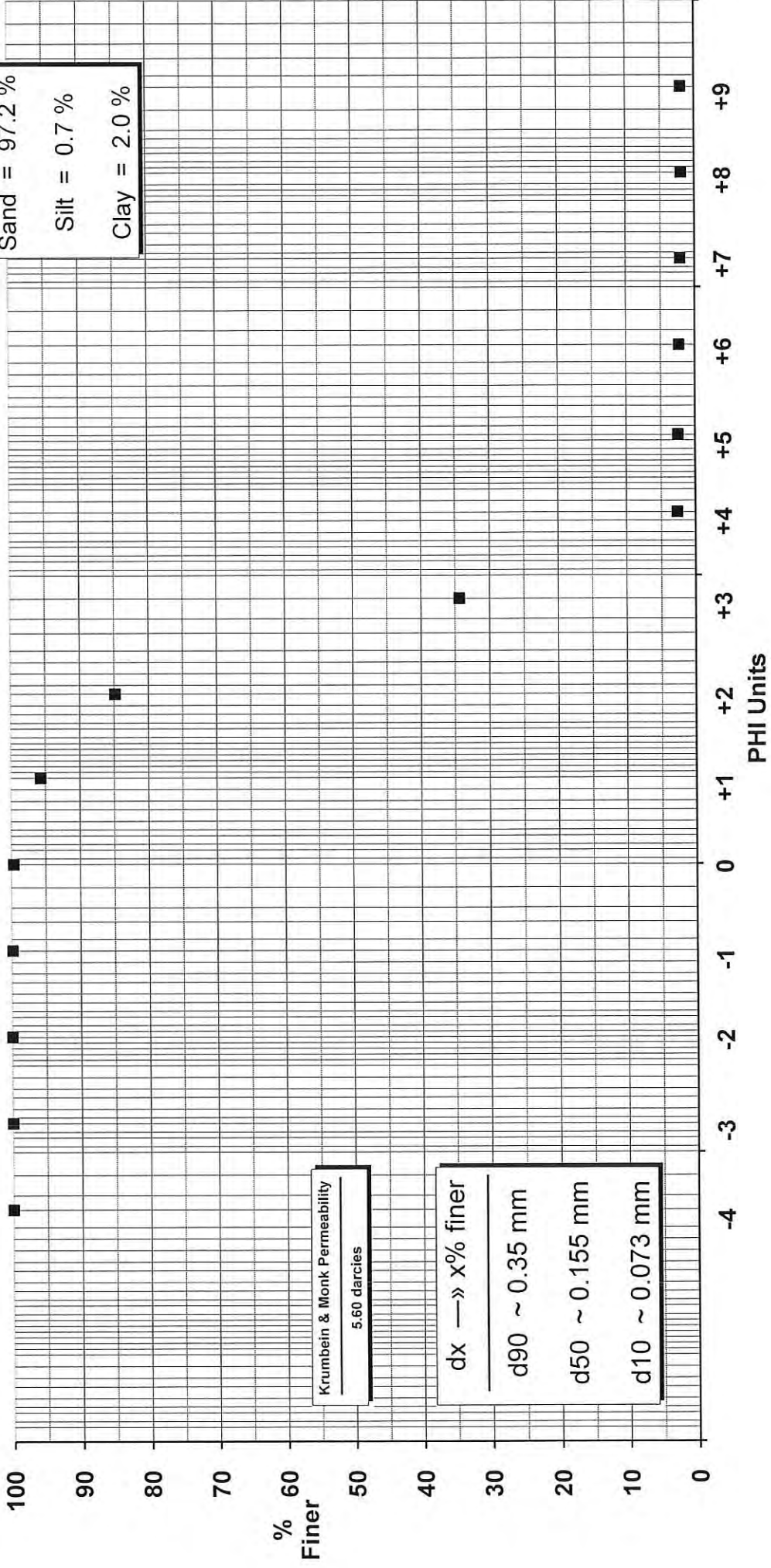
FFF4



Percent Coarser than 75 μ m
(PHI = 3.737)
89.0 %

Percent Coarser than 50 μ m
(PHI = 4.322)
97.3 %

Wentworth
Gravel = 0.1 %
Sand = 97.2 %
Silt = 0.7 %
Clay = 2.0 %



WJL
Approved

FFF5

Percent Coarser than 75 μm
(PHI = 3.737)

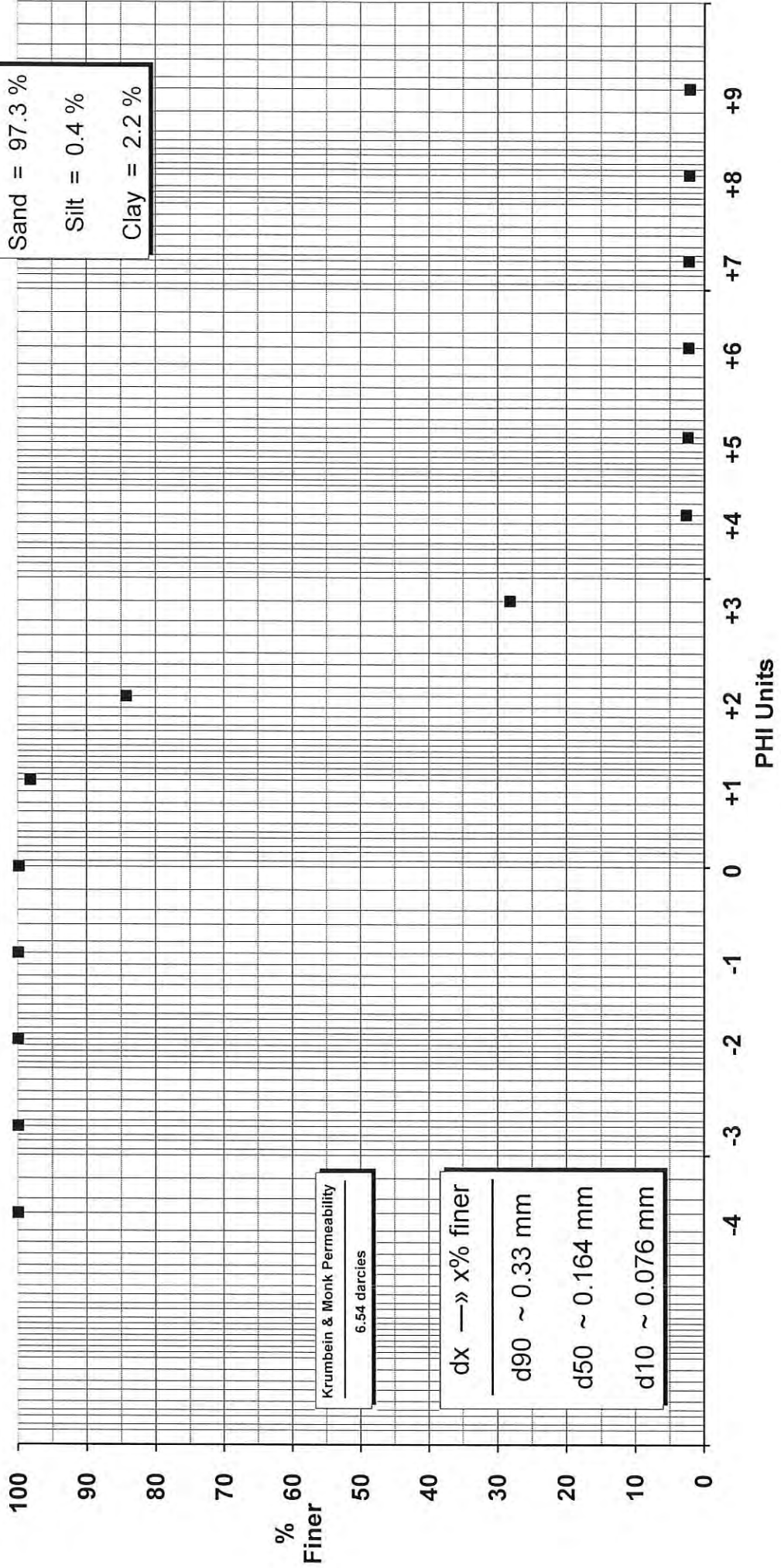
90.6 %

Percent Coarser than 50 μm
(PHI = 4.322)

97.4 %

Wentworth

Gravel = 0.0 %
Sand = 97.3 %
Silt = 0.4 %
Clay = 2.2 %



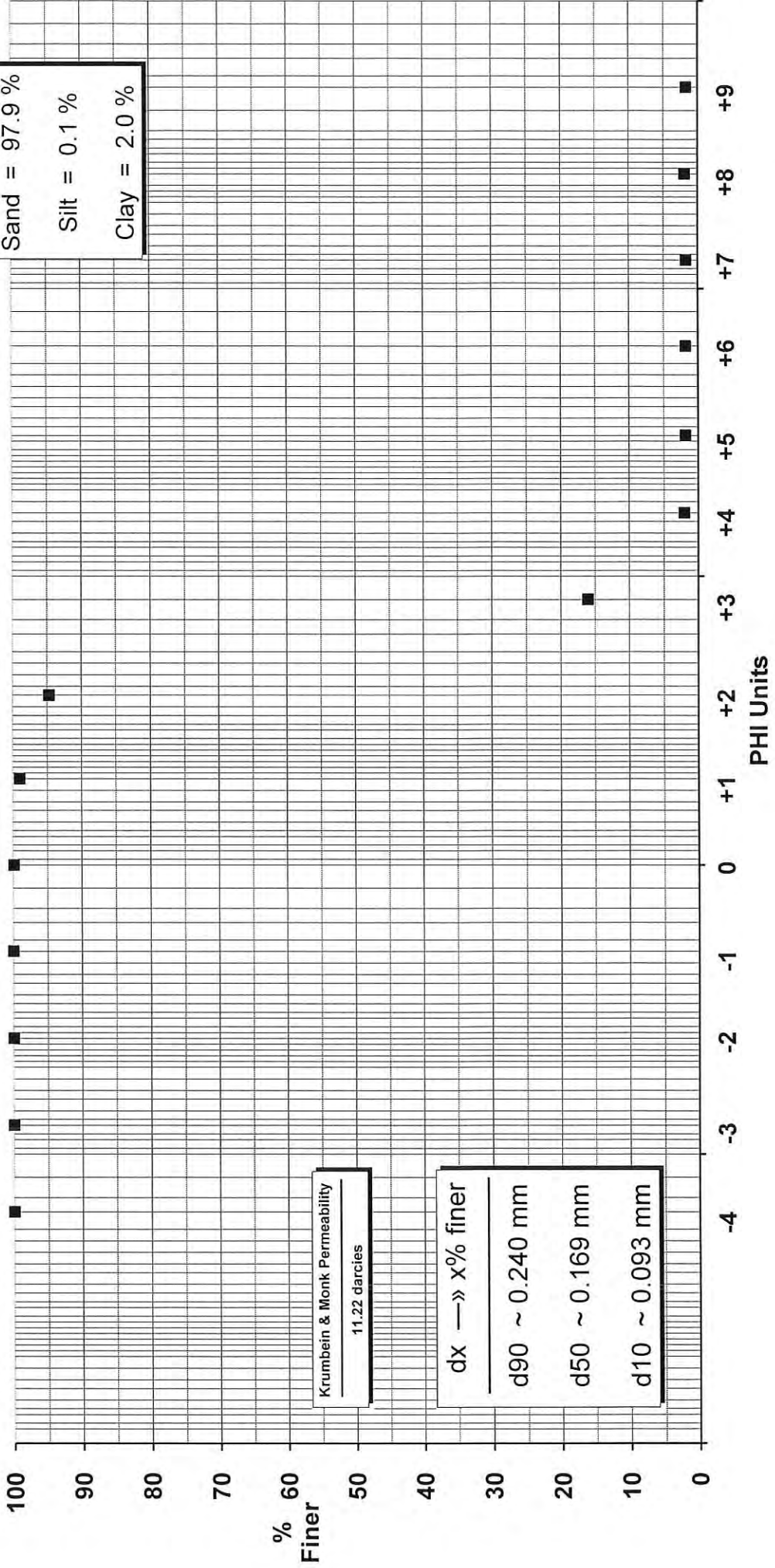
MHR1



Percent Coarser than 75 μm (PHI = 3.737)	94.2 %
--	--------

Percent Coarser than 50 μm (PHI = 4.322)	98.0 %
--	--------

Wentworth
Gravel = 0.0 %
Sand = 97.9 %
Silt = 0.1 %
Clay = 2.0 %



MKL
Approved

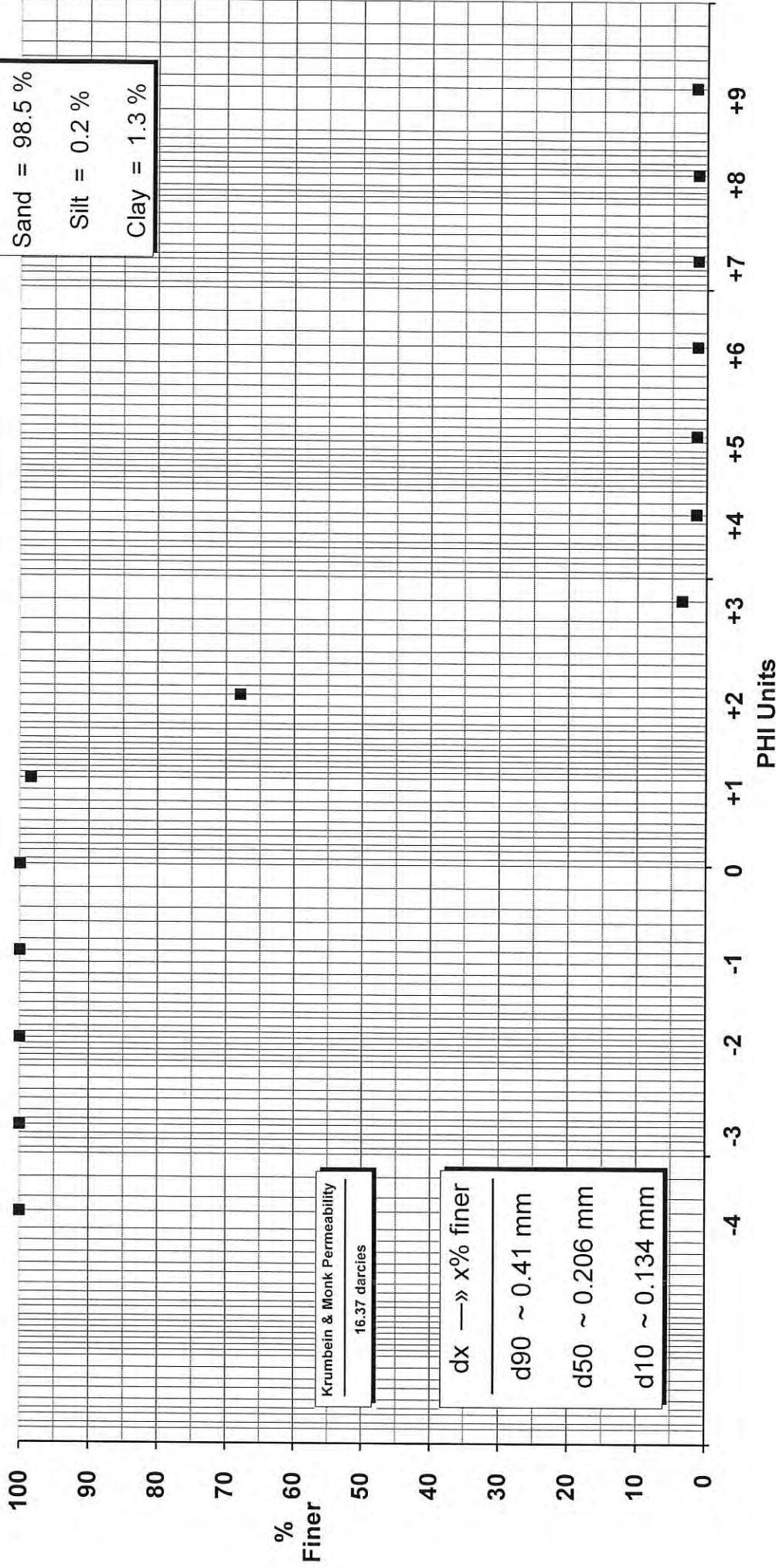
MHR2



Percent Coarser than 75 µm (PHI = 3.737)	97.9 %
---	--------

Percent Coarser than 50 µm (PHI = 4.322)	98.5 %
---	--------

Wentworth
Gravel = 0.0 %
Sand = 98.5 %
Silt = 0.2 %
Clay = 1.3 %



Krumbein & Monk Permeability
16.37 darcies

dx —» x% finer
d90 ~ 0.41 mm
d50 ~ 0.206 mm
d10 ~ 0.134 mm

MHG
Approved

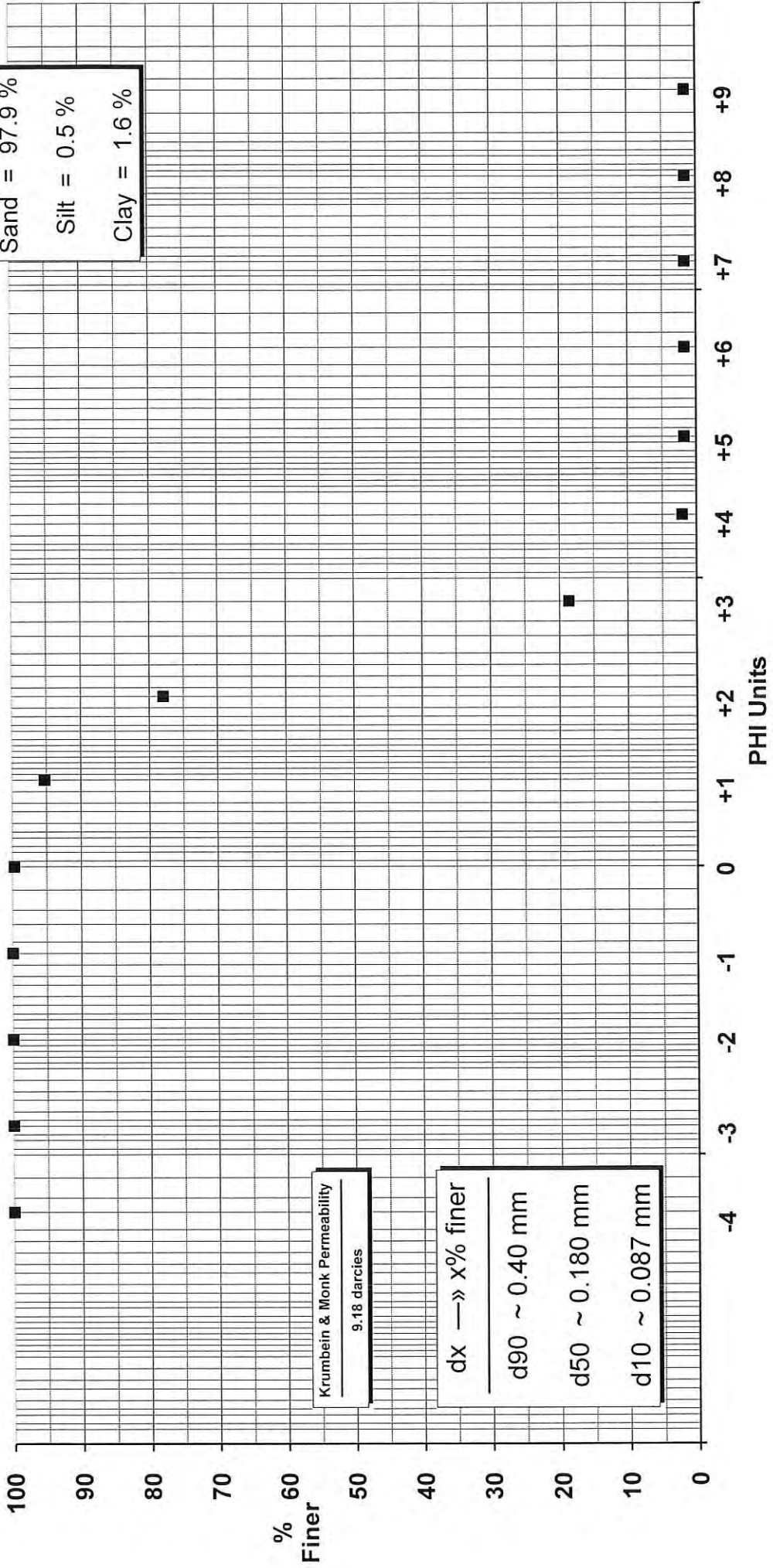
MHR3



Percent Coarser than 75 μ m (PHI = 3.737)	93.5 %
--	--------

Percent Coarser than 50 μ m (PHI = 4.322)	98.0 %
--	--------

Wentworth
Gravel = 0.0 %
Sand = 97.9 %
Silt = 0.5 %
Clay = 1.6 %



J. J. G.
Approved

MHR4



Percent Coarser than 75 µm
(PHI = 3.737)

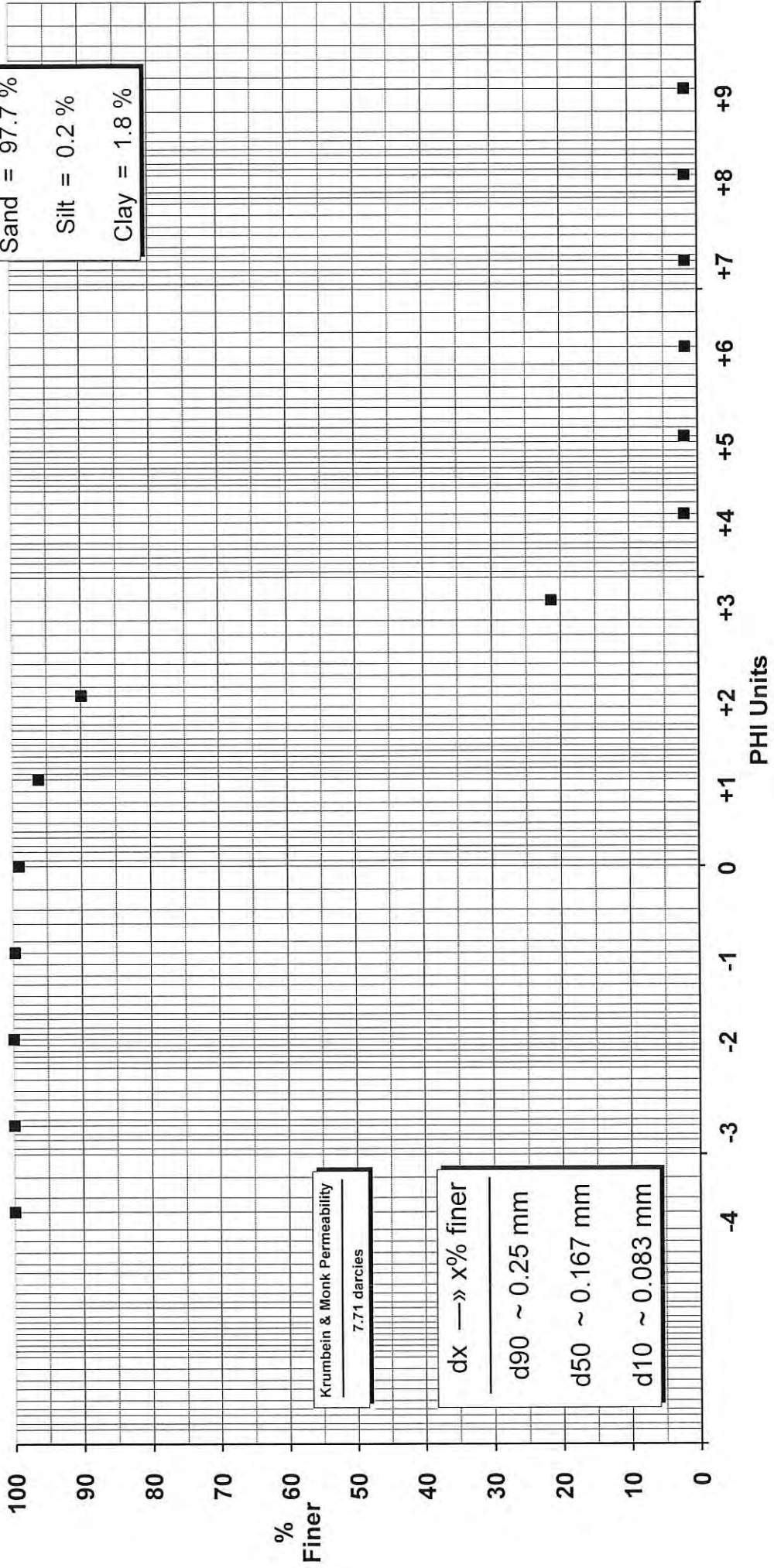
92.9 %

Percent Coarser than 50 µm
(PHI = 4.322)

98.0 %

Wentworth

Gravel = 0.3 %
Sand = 97.7 %
Silt = 0.2 %
Clay = 1.8 %



[Signature]
Approved

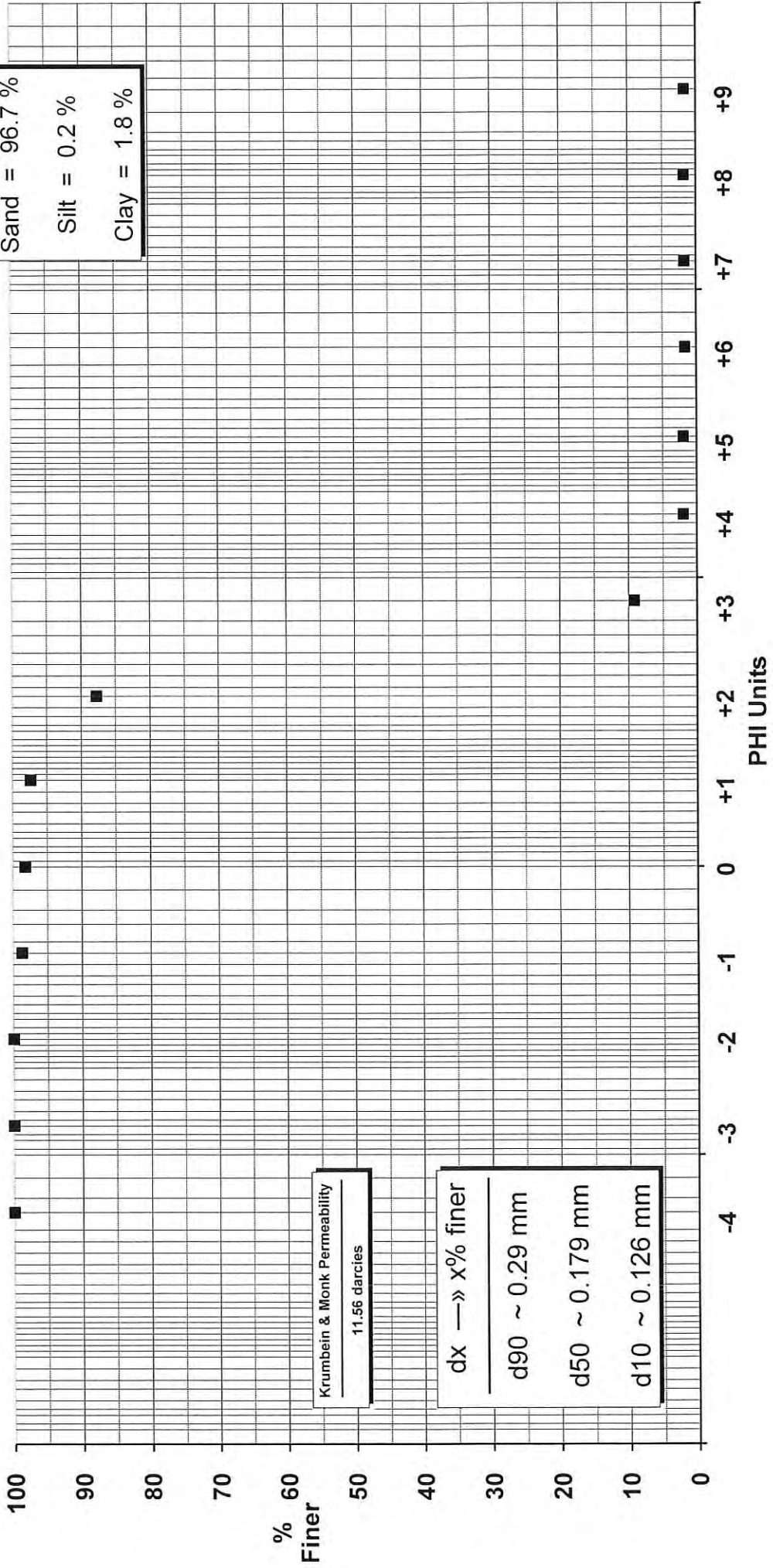
MHR5



Percent Coarser than 75 μm (PHI = 3.737)	96.1 %
--	--------

Percent Coarser than 50 μm (PHI = 4.322)	98.0 %
--	--------

Wentworth
Gravel = 1.2 %
Sand = 96.7 %
Silt = 0.2 %
Clay = 1.8 %



W. J. C.
Approved

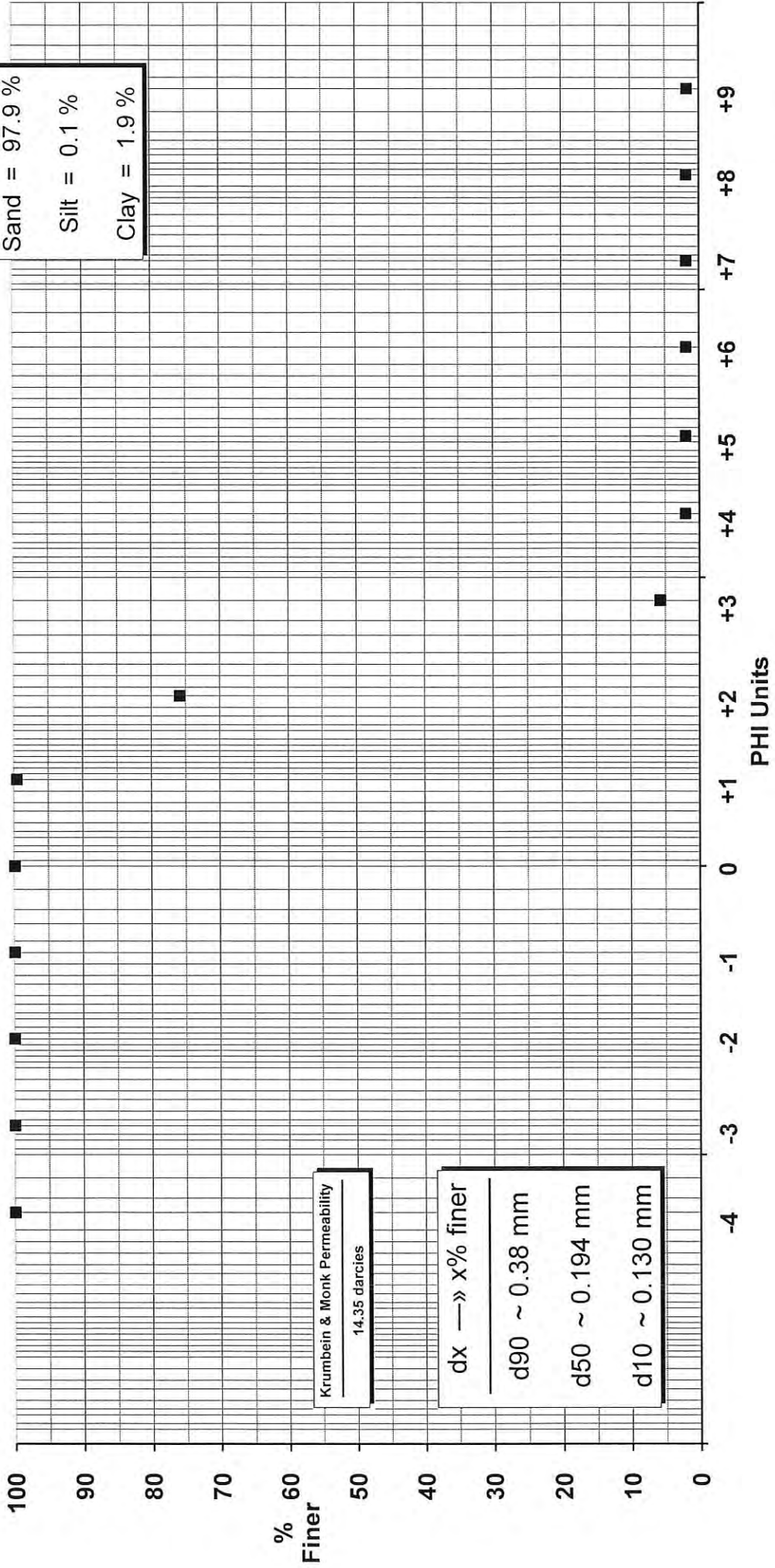
LPR1



Percent Coarser than 75 µm
(PHI = 3.737)
97.0 %

Percent Coarser than 50 µm
(PHI = 4.322)
97.9 %

Wentworth
Gravel = 0.1 %
Sand = 97.9 %
Silt = 0.1 %
Clay = 1.9 %



Krumbein & Monk Permeability
14.35 darcies

dx —» x% finer
d90 ~ 0.38 mm
d50 ~ 0.194 mm
d10 ~ 0.130 mm

[Signature]
Approved

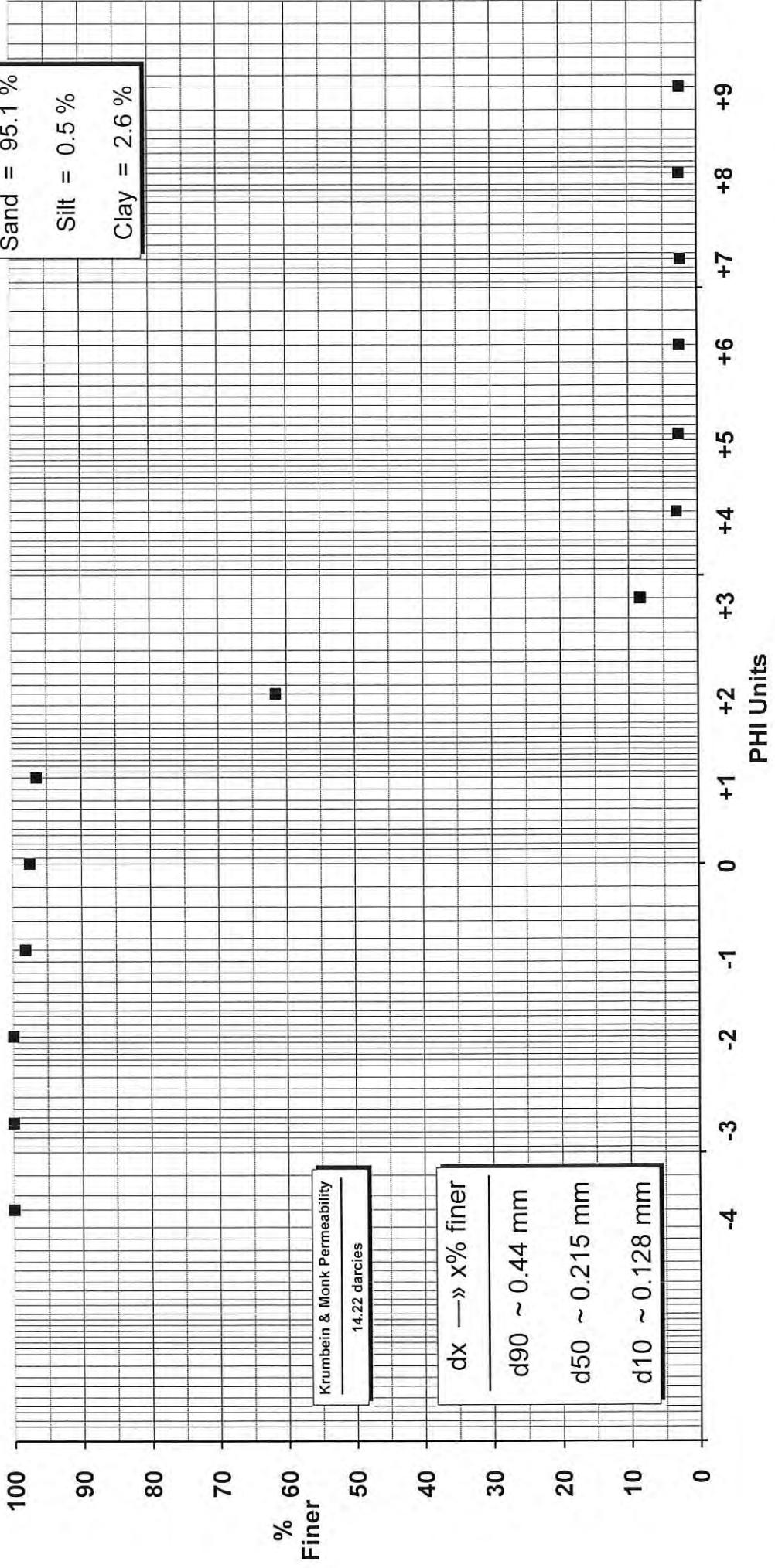
LPR2



Percent Coarser than 75 μ m
(PHI = 3.737)
95.5 %

Percent Coarser than 50 μ m
(PHI = 4.322)
97.0 %

Wentworth
Gravel = 1.8 %
Sand = 95.1 %
Silt = 0.5 %
Clay = 2.6 %



MKG
Approved

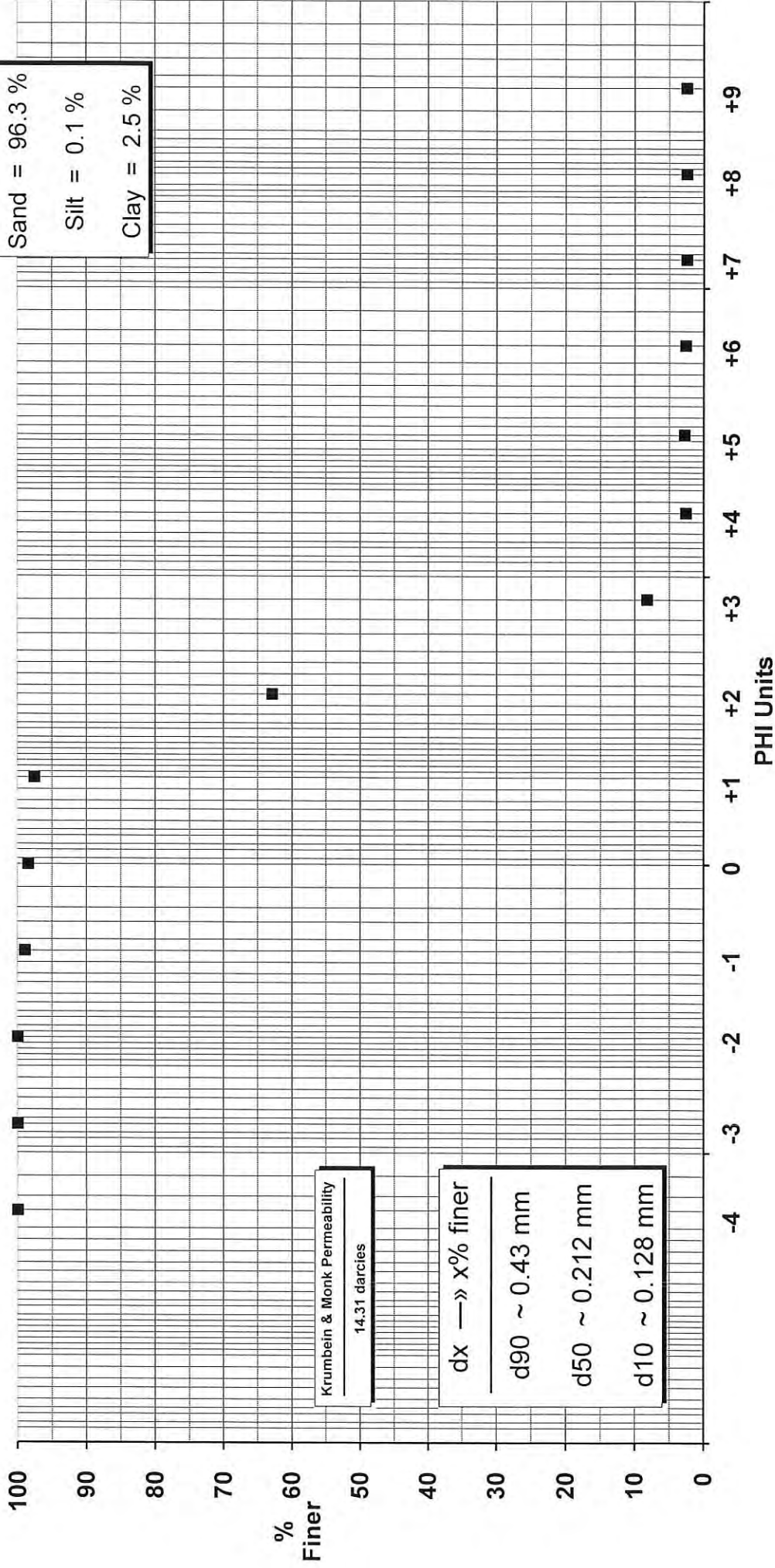
LPR2 :D1



Percent Coarser than 75 μm
(PHI = 3.737)
95.9 %

Percent Coarser than 50 μm
(PHI = 4.322)
97.3 %

Wentworth
Gravel = 1.1 %
Sand = 96.3 %
Silt = 0.1 %
Clay = 2.5 %



[Signature]
Approved

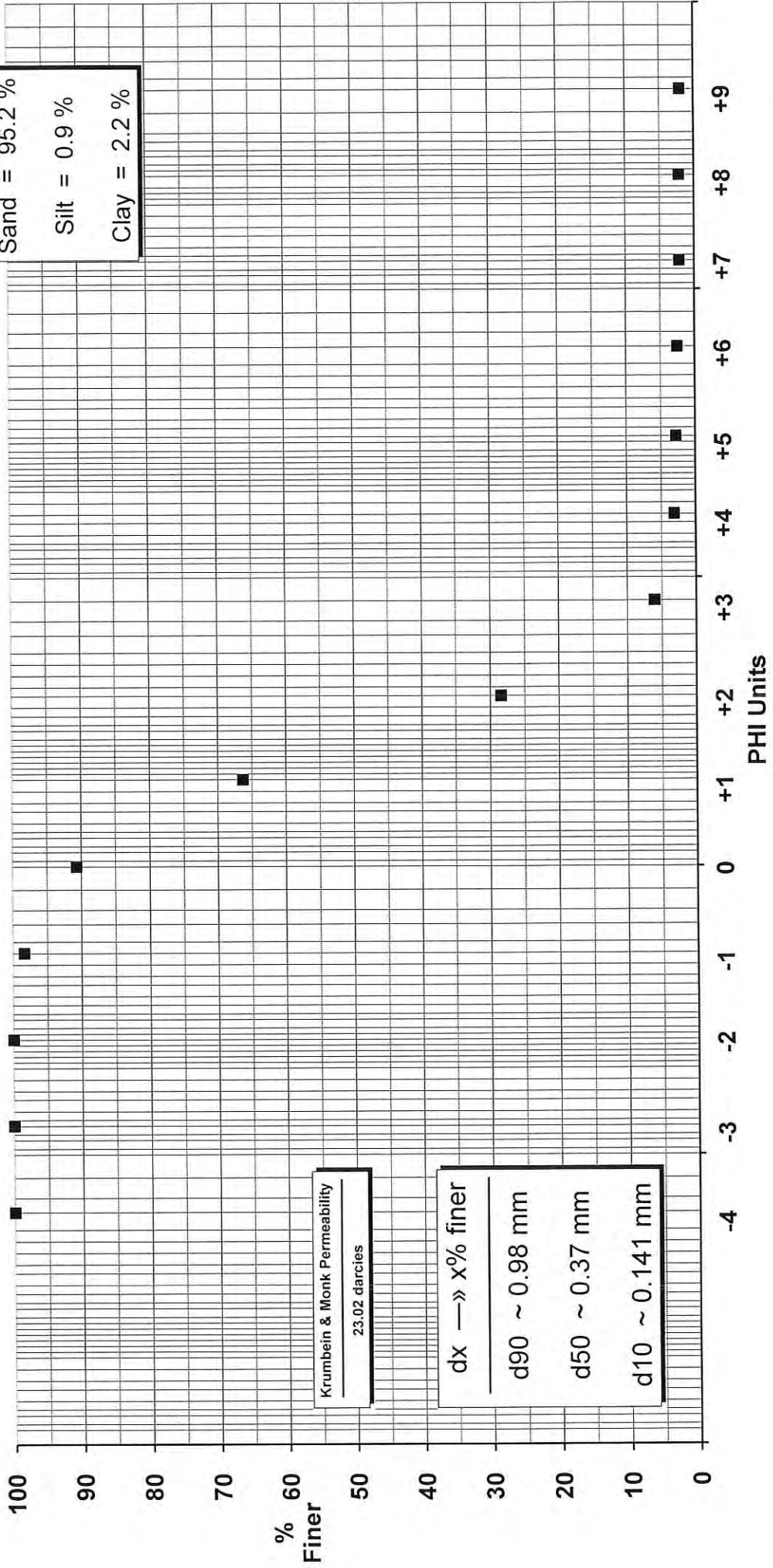
LPR3



Percent Coarser than 75 µm
(PHI = 3.737)
96.1 %

Percent Coarser than 50 µm
(PHI = 4.322)
96.9 %

Wentworth
Gravel = 1.6 %
Sand = 95.2 %
Silt = 0.9 %
Clay = 2.2 %



M. M. G.
Approved

LPR4

Maxxam

Percent Coarser than 75 μ m
(PHI = 3.737)

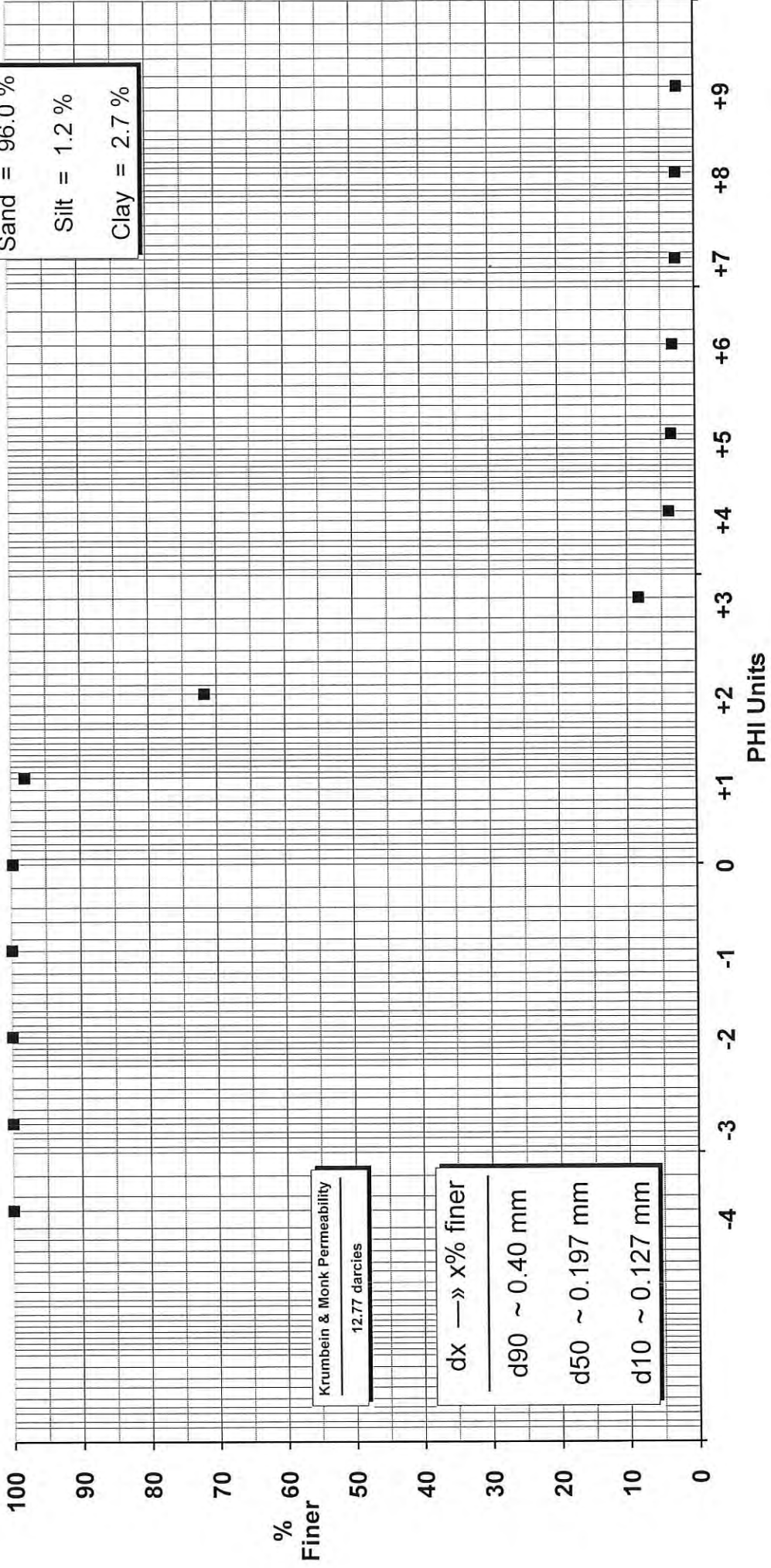
94.9 %

Percent Coarser than 50 μ m
(PHI = 4.322)

96.2 %

Wentworth

Gravel = 0.0 %
Sand = 96.0 %
Silt = 1.2 %
Clay = 2.7 %



M. M. G.
Approved

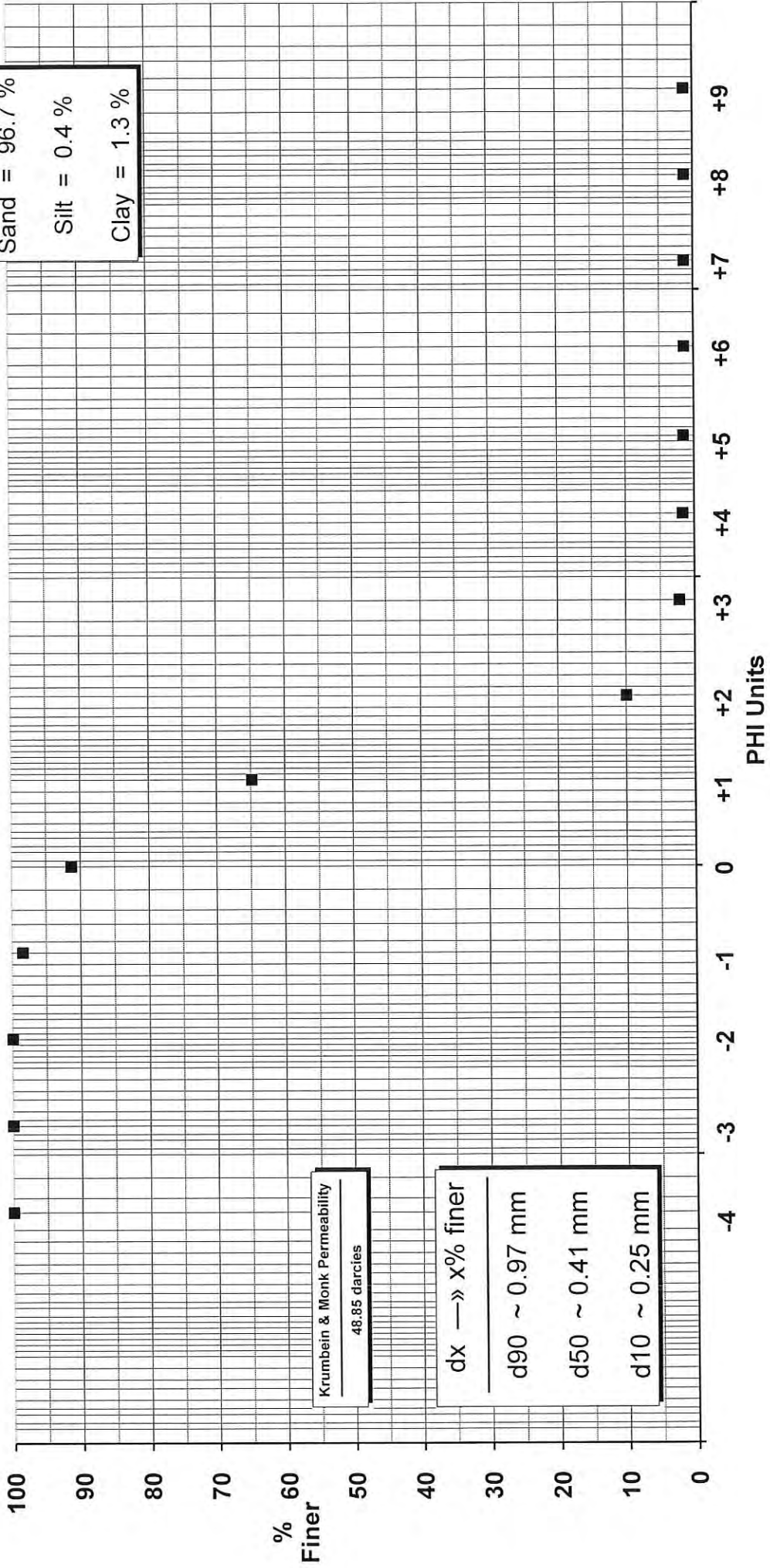
LPR5



Percent Coarser than 75 μ m
(PHI = 3.737)
98.2 %

Percent Coarser than 50 μ m
(PHI = 4.322)
98.3 %

Wentworth
Gravel = 1.6 %
Sand = 96.7 %
Silt = 0.4 %
Clay = 1.3 %



M. G.
Approved

Your Project #: 14-2077/NPNS
Your C.O.C. #: 48154601, 481546-01-01

Attention: Joe Tetreault

EcoMetrix Incorporated
6800 Campobello Rd
Mississauga, ON
L5N 2L8

Report Date: 2014/09/17
Report #: R3159622
Version: 1

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B4G0179

Received: 2014/09/02, 15:50

Sample Matrix: SEDIMENT
Samples Received: 25

Analyses	Quantity	Date		Laboratory Method	Reference
		Extracted	Analyzed		
Carbon Nitrogen Ratio by Calculation	4	N/A	2014/09/08		
Carbon Nitrogen Ratio by Calculation	21	N/A	2014/09/09		
Moisture	25	N/A	2014/09/05	CAM SOP-00445	R.Carter,1993
Nitrate (NO3) and Nitrite (NO2) in Soil	25	N/A	2014/09/09	CAM SOP-00440	SM 22 4500-NO3I/NO2B
Particle size in solids (pipette&sieve) (1, 2)	10	N/A	2014/09/11	ATL SOP 00012	MSAMS 1978 m
Particle size in solids (pipette&sieve) (1, 2)	15	N/A	2014/09/15	ATL SOP 00012	MSAMS 1978 m
Total Kjeldahl Nitrogen - Soil	23	2014/09/08	2014/09/08	CAM SOP-00454	EPA 351.2 m
Total Kjeldahl Nitrogen - Soil	1	2014/09/08	2014/09/09	CAM SOP-00454	EPA 351.2 m
Total Kjeldahl Nitrogen - Soil	1	2014/09/09	2014/09/09	CAM SOP-00454	EPA 351.2 m
Total Organic Carbon in Soil	5	N/A	2014/09/08	CAM SOP-00468	LECO Combustion
Total Organic Carbon in Soil	20	N/A	2014/09/09	CAM SOP-00468	LECO Combustion

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Bedford

(2) Note: Graphical representation of larger fractions (PHI-4, PHI -3 and PHI -2) not applicable unless these optional parameters are specifically requested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Jolanta Goralczyk, Project Manager

Email: JGoralczyk@maxxam.ca

Phone# (905)817-5751

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B4G0179
Report Date: 2014/09/17

EcoMetrix Incorporated
Client Project #: 14-2077/NPNS

RESULTS OF ANALYSES OF SEDIMENT

Maxxam ID		XJ8904	XJ8904		XJ8905		XJ8906	XJ8906		
Sampling Date		2014/08/20	2014/08/20		2014/08/20		2014/08/20	2014/08/20		
COC Number		481546-01-01	481546-01-01		481546-01-01		481546-01-01	481546-01-01		
	Units	NF1	NF1 Lab-Dup	QC Batch	NF2	QC Batch	NF3	NF3 Lab-Dup	RDL	QC Batch

Calculated Parameters

C:N RATIO	n/a	5.5		3734043	7.2	3734043	7.1		N/A	3734043
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Inorganics

Moisture	%	25		3737328	21	3737328	23		1.0	3737328
Total Organic Carbon	mg/kg	1200	1200	3738859	960	3738859	1100		500	3738859
Total Kjeldahl Nitrogen	ug/g	214		3739628	132	3739981	153		10	3739628
Nitrite (N)	ug/g	ND		3740060	ND	3740060	ND	ND	0.5	3740052
Nitrate (N)	ug/g	ND		3740060	ND	3740060	ND	ND	2	3740052
Nitrate + Nitrite	ug/g	ND		3740060	ND	3740060	ND	ND	3	3740052
< -1 Phi (2 mm)	%	99		3740509	100	3740509	100		0.10	3740509
< 0 Phi (1 mm)	%	98		3740509	99	3740509	100		0.10	3740509
< +1 Phi (0.5 mm)	%	96		3740509	90	3740509	98		0.10	3740509
< +2 Phi (0.25 mm)	%	87		3740509	64	3740509	90		0.10	3740509
< +3 Phi (0.12 mm)	%	28		3740509	9.9	3740509	22		0.10	3740509
< +4 Phi (0.062 mm)	%	2.4		3740509	1.5	3740509	1.9		0.10	3740509
< +5 Phi (0.031 mm)	%	2.2		3740509	1.4	3740509	1.7		0.10	3740509
< +6 Phi (0.016 mm)	%	2.1		3740509	1.3	3740509	1.5		0.10	3740509
< +7 Phi (0.0078 mm)	%	1.8		3740509	1.3	3740509	1.5		0.10	3740509
< +8 Phi (0.0039 mm)	%	1.9		3740509	1.3	3740509	1.4		0.10	3740509
< +9 Phi (0.0020 mm)	%	1.7		3740509	1.3	3740509	1.4		0.10	3740509
Gravel	%	1.3		3740509	0.29	3740509	ND		0.10	3740509
Sand	%	96		3740509	98	3740509	98		0.10	3740509
Silt	%	0.45		3740509	0.22	3740509	0.42		0.10	3740509
Clay	%	1.9		3740509	1.3	3740509	1.4		0.10	3740509

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 ND = Not detected

Maxxam Job #: B4G0179
Report Date: 2014/09/17

EcoMetrix Incorporated
Client Project #: 14-2077/NPNS

RESULTS OF ANALYSES OF SEDIMENT

Maxxam ID		XJ8907	XJ8907	XJ8908		XJ8909		XJ8910		
Sampling Date		2014/08/20	2014/08/20	2014/08/20		2014/08/20		2014/08/20		
COC Number		481546-01-01	481546-01-01	481546-01-01		481546-01-01		481546-01-01		
	Units	NF4	NF4 Lab-Dup	NF5	QC Batch	FF1	QC Batch	FF2	RDL	QC Batch

Calculated Parameters										
C:N RATIO	n/a	6.0		5.9	3734043	7.0	3734043	9.5	N/A	3734043
Inorganics										
Moisture	%	23	23	23	3737328	23	3737328	27	1.0	3737328
Total Organic Carbon	mg/kg	1300		1200	3738859	1100	3738859	1200	500	3738859
Total Kjeldahl Nitrogen	ug/g	213		203	3739981	158	3739628	128	10	3740463
Nitrite (N)	ug/g	ND		ND	3740060	ND	3740060	ND	0.5	3740060
Nitrate (N)	ug/g	ND		ND	3740060	ND	3740060	ND	2	3740060
Nitrate + Nitrite	ug/g	ND		ND	3740060	ND	3740060	ND	3	3740060
< -1 Phi (2 mm)	%	100		99	3740509	100 (1)	3740509	100	0.10	3740509
< 0 Phi (1 mm)	%	100		99	3740509	100	3740509	100	0.10	3740509
< +1 Phi (0.5 mm)	%	99		95	3740509	97	3740509	97	0.10	3740509
< +2 Phi (0.25 mm)	%	97		80	3740509	85	3740509	83	0.10	3740509
< +3 Phi (0.12 mm)	%	38		29	3740509	29	3740509	29	0.10	3740509
< +4 Phi (0.062 mm)	%	2.3		2.2	3740509	2.2	3740509	2.5	0.10	3740509
< +5 Phi (0.031 mm)	%	2.1		2.2	3740509	2.1	3740509	2.5	0.10	3740509
< +6 Phi (0.016 mm)	%	1.9		1.9	3740509	2.0	3740509	2.0	0.10	3740509
< +7 Phi (0.0078 mm)	%	1.7		1.8	3740509	1.8	3740509	1.9	0.10	3740509
< +8 Phi (0.0039 mm)	%	1.7		1.8	3740509	1.9	3740509	2.0	0.10	3740509
< +9 Phi (0.0020 mm)	%	1.7		1.7	3740509	1.8	3740509	2.0	0.10	3740509
Gravel	%	0.12		0.60	3740509	0.15	3740509	ND	0.10	3740509
Sand	%	98		97	3740509	98	3740509	98	0.10	3740509
Silt	%	0.61		0.39	3740509	0.33	3740509	0.41	0.10	3740509
Clay	%	1.7		1.8	3740509	1.9	3740509	2.0	0.10	3740509

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 N/A = Not Applicable
 ND = Not detected
 (1) Sample observation comment: fraction contained shells

Maxxam Job #: B4G0179
Report Date: 2014/09/17

EcoMetrix Incorporated
Client Project #: 14-2077/NPNS

RESULTS OF ANALYSES OF SEDIMENT

Maxxam ID		XJ8911	XJ8912	XJ8913		XJ8914	XJ8915		
Sampling Date		2014/08/20	2014/08/20	2014/08/20		2014/08/20	2014/08/20		
COC Number		481546-01-01	481546-01-01	481546-01-01		481546-01-01	481546-01-01		
	Units	FF3	FF4	FF5	QC Batch	FFF1	FFF2	RDL	QC Batch

Calculated Parameters									
C:N RATIO	n/a	4.6	5.3	5.8	3734043	7.7	5.6	N/A	3734043

Inorganics									
Moisture	%	24	26	22	3737328	20	26	1.0	3737328
Total Organic Carbon	mg/kg	1200	1000	980	3738859	1200	1200	500	3738859
Total Kjeldahl Nitrogen	ug/g	263	193	170	3739981	152	209	10	3739981
Nitrite (N)	ug/g	ND	ND	ND	3740060	ND	ND	0.5	3740060
Nitrate (N)	ug/g	ND	ND	ND	3740060	ND	ND	2	3740060
Nitrate + Nitrite	ug/g	ND	ND	ND	3740060	ND	ND	3	3740060
< -1 Phi (2 mm)	%	100 (1)	100	100 (1)	3740509	99	99 (1)	0.10	3743854
< 0 Phi (1 mm)	%	99	100 (1)	100	3740509	95	99 (1)	0.10	3743854
< +1 Phi (0.5 mm)	%	97	99	99	3740509	53	98	0.10	3743854
< +2 Phi (0.25 mm)	%	90	94	94	3740509	9.6	97	0.10	3743854
< +3 Phi (0.12 mm)	%	29	19	21	3740509	4.1	49	0.10	3743854
< +4 Phi (0.062 mm)	%	2.4	2.0	2.2	3740509	2.5	4.3	0.10	3743854
< +5 Phi (0.031 mm)	%	2.2	2.0	2.0	3740509	2.4	3.6	0.10	3743854
< +6 Phi (0.016 mm)	%	1.8	2.0	1.9	3740509	2.2	3.3	0.10	3743854
< +7 Phi (0.0078 mm)	%	1.6	1.8	1.7	3740509	1.9	2.6	0.10	3743854
< +8 Phi (0.0039 mm)	%	1.7	1.7	1.7	3740509	1.8	2.6	0.10	3743854
< +9 Phi (0.0020 mm)	%	2.0	1.7	1.6	3740509	1.5	2.5	0.10	3743854
Gravel	%	0.11	ND	ND	3740509	1.4	0.91	0.10	3743854
Sand	%	97	98	98	3740509	96	95	0.10	3743854
Silt	%	0.67	0.36	0.48	3740509	0.66	1.6	0.10	3743854
Clay	%	1.7	1.7	1.7	3740509	1.8	2.6	0.10	3743854

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 N/A = Not Applicable
 ND = Not detected
 (1) Sample observation comment: fraction contained shells

Maxxam Job #: B4G0179
Report Date: 2014/09/17

EcoMetrix Incorporated
Client Project #: 14-2077/NPNS

RESULTS OF ANALYSES OF SEDIMENT

Maxxam ID		XJ8916	XJ8917		XJ8918	XJ8919		XJ8920		
Sampling Date		2014/08/20	2014/08/21		2014/08/21	2014/08/21		2014/08/21		
COC Number		481546-01-01	481546-01-01		481546-01-01	481546-01-01		481546-01-01		
	Units	FFF3	FFF4	QC Batch	FFF5	MHR1	QC Batch	MHR2	RDL	QC Batch

Calculated Parameters										
C:N RATIO	n/a	4.3	5.4	3734043	6.4	7.4	3734043	NC	N/A	3734043
Inorganics										
Moisture	%	22	22	3737328	22	25	3737328	21	1.0	3737328
Total Organic Carbon	mg/kg	840	900	3738859	870	1000	3738859	ND	500	3738859
Total Kjeldahl Nitrogen	ug/g	196	167	3739981	135	137	3739981	84	10	3739981
Nitrite (N)	ug/g	ND	ND	3740060	ND	ND	3740052	ND	0.5	3740060
Nitrate (N)	ug/g	ND	ND	3740060	ND	ND	3740052	ND	2	3740060
Nitrate + Nitrite	ug/g	ND	ND	3740060	ND	ND	3740052	ND	3	3740060
< -1 Phi (2 mm)	%	100	100 (1)	3743854	100 (1)	100	3743854	100	0.10	3743854
< 0 Phi (1 mm)	%	100	100	3743854	100	100 (1)	3743854	100 (1)	0.10	3743854
< +1 Phi (0.5 mm)	%	98	96	3743854	98	99	3743854	98	0.10	3743854
< +2 Phi (0.25 mm)	%	92	85	3743854	84	95	3743854	68	0.10	3743854
< +3 Phi (0.12 mm)	%	38	34	3743854	28	16	3743854	3.6	0.10	3743854
< +4 Phi (0.062 mm)	%	2.4	2.7	3743854	2.7	2.1	3743854	1.5	0.10	3743854
< +5 Phi (0.031 mm)	%	2.2	2.6	3743854	2.4	1.9	3743854	1.5	0.10	3743854
< +6 Phi (0.016 mm)	%	2.2	2.4	3743854	2.3	1.9	3743854	1.4	0.10	3743854
< +7 Phi (0.0078 mm)	%	1.8	2.1	3743854	2.3	1.8	3743854	1.3	0.10	3743854
< +8 Phi (0.0039 mm)	%	1.9	2.0	3743854	2.2	2.0	3743854	1.3	0.10	3743854
< +9 Phi (0.0020 mm)	%	1.8	2.0	3743854	2.1	1.8	3743854	1.6	0.10	3743854
Gravel	%	ND	ND	3743854	ND	ND	3743854	ND	0.10	3743854
Sand	%	98	97	3743854	97	98	3743854	98	0.10	3743854
Silt	%	0.51	0.68	3743854	0.43	0.14	3743854	0.22	0.10	3743854
Clay	%	1.9	2.0	3743854	2.2	2.0	3743854	1.3	0.10	3743854

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 N/A = Not Applicable
 ND = Not detected
 (1) Sample observation comment: fraction contained shells

Maxxam Job #: B4G0179
Report Date: 2014/09/17

EcoMetrix Incorporated
Client Project #: 14-2077/NPNS

RESULTS OF ANALYSES OF SEDIMENT

Maxxam ID		XJ8920	XJ8921	XJ8922		XJ8923		XJ8924		
Sampling Date		2014/08/21	2014/08/21	2014/08/21		2014/08/21		2014/08/21		
COC Number		481546-01-01	481546-01-01	481546-01-01		481546-01-01		481546-01-01		
	Units	MHR2 Lab-Dup	MHR3	MHR4	QC Batch	MHR5	QC Batch	LPR1	RDL	QC Batch

Calculated Parameters

C:N RATIO	n/a		6.6	7.9	3734043	5.7	3734043	4.1	N/A	3734043
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Inorganics

Moisture	%		22	23	3737328	23	3737328	22	1.0	3737636
Total Organic Carbon	mg/kg		880	850	3738859	680	3738859	650	500	3739208
Total Kjeldahl Nitrogen	ug/g	77	133	107	3739981	119	3739981	157	10	3740938
Nitrite (N)	ug/g	ND	ND	ND	3740060	ND	3740052	ND	0.5	3740060
Nitrate (N)	ug/g	ND	ND	ND	3740060	ND	3740052	ND	2	3740060
Nitrate + Nitrite	ug/g	ND	ND	ND	3740060	ND	3740052	ND	3	3740060
< -1 Phi (2 mm)	%		100	100	3743854	99 (1)	3743854	100 (1)	0.10	3743854
< 0 Phi (1 mm)	%		100	99	3743854	98	3743854	100 (1)	0.10	3743854
< +1 Phi (0.5 mm)	%		95	96	3743854	97	3743854	100	0.10	3743854
< +2 Phi (0.25 mm)	%		78	90	3743854	88	3743854	76	0.10	3743854
< +3 Phi (0.12 mm)	%		19	21	3743854	9.2	3743854	5.7	0.10	3743854
< +4 Phi (0.062 mm)	%		2.1	2.1	3743854	2.0	3743854	2.1	0.10	3743854
< +5 Phi (0.031 mm)	%		1.8	2.0	3743854	2.0	3743854	2.0	0.10	3743854
< +6 Phi (0.016 mm)	%		1.7	1.8	3743854	1.7	3743854	2.0	0.10	3743854
< +7 Phi (0.0078 mm)	%		1.7	1.8	3743854	1.8	3743854	1.9	0.10	3743854
< +8 Phi (0.0039 mm)	%		1.6	1.8	3743854	1.8	3743854	1.9	0.10	3743854
< +9 Phi (0.0020 mm)	%		1.6	1.8	3743854	1.8	3743854	1.8	0.10	3743854
Gravel	%		ND	0.26	3743854	1.2	3743854	ND	0.10	3743854
Sand	%		98	98	3743854	97	3743854	98	0.10	3743854
Silt	%		0.46	0.24	3743854	0.19	3743854	0.14	0.10	3743854
Clay	%		1.6	1.8	3743854	1.8	3743854	1.9	0.10	3743854

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 N/A = Not Applicable
 ND = Not detected
 (1) Sample observation comment: fraction contained shells

Maxxam Job #: B4G0179
Report Date: 2014/09/17

EcoMetrix Incorporated
Client Project #: 14-2077/NPNS

RESULTS OF ANALYSES OF SEDIMENT

Maxxam ID		XJ8924		XJ8925	XJ8925		XJ8926		
Sampling Date		2014/08/21		2014/08/21	2014/08/21		2014/08/21		
COC Number		481546-01-01		481546-01-01	481546-01-01		481546-01-01		
	Units	LPR1 Lab-Dup	QC Batch	LPR2	LPR2 Lab-Dup	QC Batch	LPR3	RDL	QC Batch

Calculated Parameters

C:N RATIO	n/a		3734043	3.8		3734043	6.0	N/A	3734043
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Inorganics

Moisture	%		3737636	22	22	3737636	20	1.0	3737636
Total Organic Carbon	mg/kg		3739208	810		3739208	940	500	3739208
Total Kjeldahl Nitrogen	ug/g	199	3740938	214		3739981	157	10	3739981
Nitrite (N)	ug/g		3740060	ND		3740060	ND	0.5	3740052
Nitrate (N)	ug/g		3740060	ND		3740060	ND	2	3740052
Nitrate + Nitrite	ug/g		3740060	ND		3740060	ND	3	3740052
< -1 Phi (2 mm)	%		3743854	98 (1)	99 (1)	3743854	98	0.10	3743854
< 0 Phi (1 mm)	%		3743854	98 (1)	98 (1)	3743854	91	0.10	3743854
< +1 Phi (0.5 mm)	%		3743854	96	98	3743854	66	0.10	3743854
< +2 Phi (0.25 mm)	%		3743854	62	63	3743854	28	0.10	3743854
< +3 Phi (0.12 mm)	%		3743854	8.3	8.2	3743854	6.1	0.10	3743854
< +4 Phi (0.062 mm)	%		3743854	3.1	2.6	3743854	3.1	0.10	3743854
< +5 Phi (0.031 mm)	%		3743854	2.8	2.8	3743854	2.9	0.10	3743854
< +6 Phi (0.016 mm)	%		3743854	2.7	2.6	3743854	2.6	0.10	3743854
< +7 Phi (0.0078 mm)	%		3743854	2.5	2.5	3743854	2.2	0.10	3743854
< +8 Phi (0.0039 mm)	%		3743854	2.6	2.5	3743854	2.2	0.10	3743854
< +9 Phi (0.0020 mm)	%		3743854	2.5	2.5	3743854	2.1	0.10	3743854
Gravel	%		3743854	1.8	1.1 (2)	3743854	1.6	0.10	3743854
Sand	%		3743854	95	96	3743854	95	0.10	3743854
Silt	%		3743854	0.47	0.15	3743854	0.92	0.10	3743854
Clay	%		3743854	2.6	2.5	3743854	2.2	0.10	3743854

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 N/A = Not Applicable
 ND = Not detected
 (1) Sample observation comment: fraction contained shells
 (2) PSA: %RPD acceptable. Duplicate values agree within 10% absolute.

Maxxam Job #: B4G0179
Report Date: 2014/09/17

EcoMetrix Incorporated
Client Project #: 14-2077/NPNS

RESULTS OF ANALYSES OF SEDIMENT

Maxxam ID		XJ8927	XJ8928		
Sampling Date		2014/08/21	2014/08/21		
COC Number		481546-01-01	481546-01-01		
	Units	LPR4	LPR5	RDL	QC Batch
Calculated Parameters					
C:N RATIO	n/a	4.3	4.5	N/A	3734043
Inorganics					
Moisture	%	23	20	1.0	3737636
Total Organic Carbon	mg/kg	930	590	500	3739208
Total Kjeldahl Nitrogen	ug/g	215	131	10	3739981
Nitrite (N)	ug/g	ND	ND	0.5	3740060
Nitrate (N)	ug/g	ND	ND	2	3740060
Nitrate + Nitrite	ug/g	ND	ND	3	3740060
< -1 Phi (2 mm)	%	100 (1)	98	0.10	3743854
< 0 Phi (1 mm)	%	100 (1)	91	0.10	3743854
< +1 Phi (0.5 mm)	%	98	65	0.10	3743854
< +2 Phi (0.25 mm)	%	72	10	0.10	3743854
< +3 Phi (0.12 mm)	%	8.3	2.3	0.10	3743854
< +4 Phi (0.062 mm)	%	3.9	1.7	0.10	3743854
< +5 Phi (0.031 mm)	%	3.5	1.6	0.10	3743854
< +6 Phi (0.016 mm)	%	3.3	1.4	0.10	3743854
< +7 Phi (0.0078 mm)	%	2.8	1.4	0.10	3743854
< +8 Phi (0.0039 mm)	%	2.7	1.3	0.10	3743854
< +9 Phi (0.0020 mm)	%	2.5	1.3	0.10	3743854
Gravel	%	ND	1.6	0.10	3743854
Sand	%	96	97	0.10	3743854
Silt	%	1.2	0.43	0.10	3743854
Clay	%	2.7	1.3	0.10	3743854
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable ND = Not detected (1) Sample observation comment: fraction contained shells					

Maxxam Job #: B4G0179
Report Date: 2014/09/17

EcoMetrix Incorporated
Client Project #: 14-2077/NPNS

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	6.7°C
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Results relate only to the items tested.

Maxxam Job #: B4G0179
Report Date: 2014/09/17

QUALITY ASSURANCE REPORT

EcoMetrix Incorporated
Client Project #: 14-2077/NPNS

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3737328	Moisture	2014/09/05							1.7	20		
3737636	Moisture	2014/09/05							2.3	20		
3738859	Total Organic Carbon	2014/09/09					ND ,RDL=500	mg/kg	NC	35	96	75 - 125
3739208	Total Organic Carbon	2014/09/08					ND ,RDL=500	mg/kg	0.51	35	97	75 - 125
3739628	Total Kjeldahl Nitrogen	2014/09/08	NC	80 - 120	93	80 - 120	ND ,RDL=10	ug/g	0.98	40	87	80 - 120
3739981	Total Kjeldahl Nitrogen	2014/09/08	92	80 - 120	96	80 - 120	ND ,RDL=10	ug/g	9.4	40	87	80 - 120
3740052	Nitrate (N)	2014/09/09	110	75 - 125	104	75 - 125	ND ,RDL=2	ug/g	NC	25		
3740052	Nitrate + Nitrite	2014/09/09	105	75 - 125	102	75 - 125	ND ,RDL=3	ug/g	NC	25	97	N/A
3740052	Nitrite (N)	2014/09/09	82	75 - 125	89	75 - 125	ND ,RDL=0.5	ug/g	NC	25	NA*****	N/A
3740060	Nitrate (N)	2014/09/09	109	75 - 125	105	75 - 125	ND ,RDL=2	ug/g	NC	25		
3740060	Nitrate + Nitrite	2014/09/09	104	75 - 125	103	75 - 125	ND ,RDL=3	ug/g	NC	25		
3740060	Nitrite (N)	2014/09/09	81	75 - 125	91	75 - 125	ND ,RDL=0.5	ug/g	NC	25		
3740463	Total Kjeldahl Nitrogen	2014/09/09	99	80 - 120	99	80 - 120	ND ,RDL=10	ug/g	NC	40	102	80 - 120
3740509	Clay	2014/09/11							14	35		
3740509	Gravel	2014/09/11							NC	35		
3740509	Sand	2014/09/11							4.5	35		
3740509	Silt	2014/09/11							14	35		
3740938	Total Kjeldahl Nitrogen	2014/09/09	92	80 - 120	88	80 - 120	ND ,RDL=10	ug/g	23	40	95	80 - 120
3743854	Clay	2014/09/15							6.4	35		
3743854	Gravel	2014/09/15							52 (1)	35		
3743854	Sand	2014/09/15							1.3	35		
3743854	Silt	2014/09/15							NC	35		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

(1) PSA: %RPD acceptable. Duplicate values agree within 10% absolute.

Maxxam Job #: B4G0179
Report Date: 2014/09/17

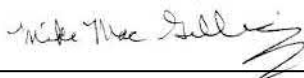
EcoMetrix Incorporated
Client Project #: 14-2077/NPNS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Cristina Carriere, Scientific Services



Mike MacGillivray, Scientific Specialist (Inorganics)

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation o/a Maxxam Analytics
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02-Sep-14 15:50

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INVOICE INFORMATION:
Company Name: #12046 EcoMetrix Incorporated
Contact Name: Karen Petersen JOE TETREAULT
Address: 6800 Campobello Rd
Mississauga ON L5N 2L8
Phone: (905) 794-2325 x207 VLS Fax: (905) 794-2338
Email: kpetersen@ecometrix.ca jtetreauff

REPORT INFORMATION (if differs from invoice):
Company Name: Karen Petersen JOE TETREAULT
Contact Name: Karen Petersen JOE TETREAULT
Address:
Phone: (905) 794-2325 x207 VLS Fax:
Email: kpetersen@ecometrix.ca jtetreauff

PROJECT INFORMATION:
Quotation #: B45440
P.O. #:
Project #: NPNS 14-2077
Project Name: NPNS
Site #:
Sampled By:

Jolanta Goralczyk
B4G0179
MAF ENV-116
Jolanta Goralczyk
481546
Project Manager:
C#481546-01-01

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
 Table 1 Res/Park Medium/Fine
 Table 2 Ind/Comm Coarse
 Table 3 Agri/Other For RSC
 Table

Other Regulations
 CCME Sanitary Sewer Bylaw
 Reg 558 Storm Sewer Bylaw
 MISA Municipality _____
 PWQO
 Other _____

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)?

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr / V /	Particle Size (Sieva & Pipette)	TOC in Soil	Carbon Nitrogen Ratio by Calculation	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	Turnaround Time (TAT) Required: Please provide advance notice for rush projects	Comments
1	NF 1	2014-09-14		Sediment	✓	✓	✓			Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
2	NF 2									Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)	MARINE SAMPLE
3	NF 3										
4	NF 4										
5	NF 5										
6	FF 1										
7	FF 2										
8	FF 3										
9	FF 4										
10	FF 5										

* RELINQUISHED BY: (Signature/Print) Daniel Skerch	Date: (YY/MM/DD) 14/09/14	Time 15:50	RECEIVED BY: (Signature/Print) MARIA PRUSA	Date: (YY/MM/DD) 10/10/14	Time 15:50	# jars used and not submitted	Laboratory Use Only
Time Sensitive	Temperature (°C) on Receipt 6/27	Custody Seal	Yes	No	Present	Intact	White: Maxxam Yellow: Client

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN-OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM



INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #12046 EcoMetrix Incorporated	Company Name: Karen Petersen	Quotation #: B45440	Maxxam Job #: 1346019	Bottle Order #: 481545	Barcode: [Barcode]		
Contact Name: Karen Petersen JOE TETROVU	Contact Name: Karen Petersen	P.O. #: N/A	Project #: N/A	Chain of Custody #: [Barcode]	Project Manager: Jolanta Goralczyk		
Address: 6800 Campobello Rd Mississauga ON L5N 2L8	Address:	Project Name: N/A	Site #:	Turnaround Time (TAT) Required: Please provide advance notice for rush projects			
Phone: (905) 794-2325 x207-215 Fax: (905) 794-2338	Phone: (905) 794-2325 x207 Fax:	Sampled By:	Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.				
Email: kpetersen@ecometrix.ca	Email: kpetersen@ecometrix.ca	Job Specific Rush TAT (if applies to entire submission) Date Required: Time Required: Rush Confirmation Number: (call lab for #)					

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)								Turnaround Time (TAT) Required: Please provide advance notice for rush projects									
Regulation 153 (2011)			Other Regulations		Special Instructions		Field Filtered (please circle): Metals / Hg / Cr VI	Particle Size (Sieve & Pipette)	TOC in Soil	Carbon Nitrogen Ratio by Calculation									Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.		
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw															Job Specific Rush TAT (if applies to entire submission) Date Required: Time Required: Rush Confirmation Number: (call lab for #)		
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw																	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality																	
<input type="checkbox"/> Table			<input type="checkbox"/> PWQO																		
<input type="checkbox"/> Table			<input type="checkbox"/> Other																		
Include Criteria on Certificate of Analysis (Y/N)?																					
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix									# of Bottles	Comments							
1	FFF 1	20-AUG-19		Sediment											2						
2	FFF 2	↓													1	MARINK SAMPLES					
3	FFF 3	↓																			
4	FFF 4	20-AUG-19																			
5	FFF 5	↓																			
6	MHR 1	↓																			
7	MHR 2	↓																			
8	MHR 3	↓																			
9	MHR 4	↓																			
10	MHR 5	↓																			

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# Jars used and not submitted	Laboratory Use Only				
[Signature]		14/09/17	3:50 PM	[Signature]		14/09/17	15:50		Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
										6/17/17	Present		
											Intact		

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM. White: Maxxam Yellow: Client

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #12046 EcoMetrix Incorporated	Company Name: Karen Petersen JOE TETREault	Company Name: Karen Petersen JOE TETREault	Company Name: Karen Petersen JOE TETREault	Quotation #: B45440	Maxxam Job #: BYG 0109	Maxxam Job #: BYG 0109	Bottle Order #: 481546
Contact Name: Karen Petersen	Contact Name: Karen Petersen	Contact Name: Karen Petersen	Contact Name: Karen Petersen	P.O. #:	Project #: NPNS-14-2074	Chain of Custody #:	Project Manager: Jolanta Goralczyk
Address: 6800 Campobello Rd Mississauga ON L5N 2L8	Address:	Address:	Address:	Project Name: NPNS	Site #:	Chain of Custody #:	Project Manager: Jolanta Goralczyk
Phone: (905) 794-2325 x207 Fax: (905) 794-2338	Phone: (905) 794-2325 x207 Fax: (905) 794-2338	Phone: (905) 794-2325 x207 Fax: (905) 794-2338	Phone: (905) 794-2325 x207 Fax: (905) 794-2338	Sampled By:	Site #:	Chain of Custody #:	Project Manager: Jolanta Goralczyk
Email: kpetersen@ecometrix.ca	Email: kpetersen@ecometrix.ca	Email: kpetersen@ecometrix.ca	Email: kpetersen@ecometrix.ca				

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required:									
Regulation 153 (2011)				Other Regulations				Special Instructions														Regular (Standard) TAT:	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw															Please provide advance notice for rush projects				
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw															Standard TAT = 5-7 Working days for most tests.				
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality															Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.				
<input type="checkbox"/> Table			<input type="checkbox"/> PWOO																Job Specific Rush TAT (if applies to entire submission)				
Include Criteria on Certificate of Analysis (Y/N)?																						Date Required: _____ Time Required: _____	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr / V	Particle Size (Sieve & Pipette)	TDC in Soil	Carbon Nitrogen Ratio by Calculation													# of Bottles	Comments	
1	LPR1	21-AUG-14		Sediment	✓	✓	✓														2		
2	LPR2	↓		↓	↓	↓	↓														↓	MARINE SAMPLES	
3	LPR3	↓		↓	↓	↓	↓														↓		
4	LPR4	↓		↓	↓	↓	↓														↓		
5	LPR5	↓		↓	↓	↓	↓														↓		
6																							
7																							
8																							
9																							
10																							

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# Jars used and not submitted	Laboratory Use Only				
Daniel Skutch		14/09/07	3:50 PM	MARK KISLER		10/4/09 NR	15:50		Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
										6777	Present		✓
											Intact		

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM. White: Maxxam Yellow: Client

Your Project #: 14-2097/ NPNS
Your C.O.C. #: 48161601, 481616-01-01

Attention: Joe Tetreault

EcoMetrix Incorporated
6800 Campobello Rd
Mississauga, ON
L5N 2L8

Report Date: 2014/09/17
Report #: R3158652
Version: 3R

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B4G0185

Received: 2014/09/02, 15:50

Sample Matrix: Water
Samples Received: 35

Analyses	Date		Laboratory Method	Reference
	Quantity	Date		
Nitrogen TKN - water (as N)	3	N/A	2014/09/09 ATL SOP 00019	EPA 351.2 R2 m
Nitrogen TKN - water (as N)	32	N/A	2014/09/10 ATL SOP 00019	EPA 351.2 R2 m
Organic carbon - Total (TOC) (1)	31	N/A	2014/09/09 ATL SOP 00037	SM 22 5310C m
Organic carbon - Total (TOC) (1)	4	N/A	2014/09/11 ATL SOP 00037	SM 22 5310C m

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Michelle Hill, Project Manager

Email: MHill@maxxam.ca

Phone# (902)420-0203 Ext:289

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B4G0185
Report Date: 2014/09/17

EcoMetrix Incorporated
Client Project #: 14-2097/ NPNS

RESULTS OF ANALYSES OF WATER

Maxxam ID		XJ8991	XJ8991	XJ8992	XJ8993	XJ8994	XJ8995		
Sampling Date		2014/08/20	2014/08/20	2014/08/20	2014/08/20	2014/08/20	2014/08/20		
COC Number		481616-01-01	481616-01-01	481616-01-01	481616-01-01	481616-01-01	481616-01-01		
	Units	NF1-B	NF1-B Lab-Dup	NF1-T	NF3-B	NF3-T	NF5-B	RDL	QC Batch

Inorganics									
Total Organic Carbon (C)	mg/L	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	5.0	3740834
Total Kjeldahl Nitrogen	mg/L	ND (1)		ND (1)	0.59 (1)	ND (1)	6.2	0.50	3740699

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Elevated reporting limit due to sample matrix.

Maxxam ID		XJ8996	XJ8997	XJ8998	XJ8999	XJ9000	XJ9001		
Sampling Date		2014/08/20	2014/08/20	2014/08/20	2014/08/20	2014/08/20	2014/08/21		
COC Number		481616-01-01	481616-01-01	481616-01-01	481616-01-01	481616-01-01	481616-01-01		
	Units	NF5-T	FF1-B	FF1-T	FF3-B	FF3-T	MHR1-B	RDL	QC Batch

Inorganics									
Total Organic Carbon (C)	mg/L	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	5.0	3740834
Total Kjeldahl Nitrogen	mg/L	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	1.4 (1)	0.50	3740699

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Elevated reporting limit due to sample matrix.

Maxxam ID		XJ9002		XJ9003	XJ9004		XJ9005		
Sampling Date		2014/08/21		2014/08/21	2014/08/21		2014/08/21		
COC Number		481616-01-01		481616-01-01	481616-01-01		481616-01-01		
	Units	MHR1-T	QC Batch	MHR3-B	MHR3-T	QC Batch	MHR5-B	RDL	QC Batch

Inorganics									
Total Organic Carbon (C)	mg/L	ND (1)	3740834	ND (1)	ND (1)	3740834	ND (1)	5.0	3740834
Total Kjeldahl Nitrogen	mg/L	1.5 (1)	3740699	ND (2)	ND (2)	3739273	ND (1)	0.50	3740699

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Elevated reporting limit due to sample matrix.
(2) Elevated reporting limit due to sample matrix.

Maxxam Job #: B4G0185
Report Date: 2014/09/17

EcoMetrix Incorporated
Client Project #: 14-2097/ NPNS

RESULTS OF ANALYSES OF WATER

Maxxam ID		XJ9006		XJ9007	XJ9008		XJ9009	XJ9009		
Sampling Date		2014/08/21		2014/08/21	2014/08/21		2014/08/21	2014/08/21		
COC Number		481616-01-01		481616-01-01	481616-01-01		481616-01-01	481616-01-01		
	Units	MHR5-T	QC Batch	FFF5-B	FFF5-T	QC Batch	LPR1-B	LPR1-B Lab-Dup	RDL	QC Batch

Inorganics										
Total Organic Carbon (C)	mg/L	ND (1)	3744044	ND (1)	ND (1)	3740834	ND (1)		5.0	3744044
Total Kjeldahl Nitrogen	mg/L	ND (1)	3740699	ND (1)	ND (1)	3740699	ND (1)	ND (1)	0.50	3740699

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) Elevated reporting limit due to sample matrix.

Maxxam Job #: B4G0185
Report Date: 2014/09/17

EcoMetrix Incorporated
Client Project #: 14-2097/ NPNS

RESULTS OF ANALYSES OF WATER

Maxxam ID		XJ9010		XJ9011	XJ9011	XJ9012		XJ9013		
Sampling Date		2014/08/21		2014/08/21	2014/08/21	2014/08/21		2014/08/21		
COC Number		481616-01-01		481616-01-01	481616-01-01	481616-01-01		481616-01-01		
	Units	LPR1-T	QC Batch	LPR3-B	LPR3-B Lab-Dup	LPR3-T	QC Batch	LPR5-B	RDL	QC Batch

Inorganics

Total Organic Carbon (C)	mg/L	ND (1)	3740834	ND (1)	ND (1)	ND (1)	3740835	ND (1)	5.0	3740835
Total Kjeldahl Nitrogen	mg/L	ND (1)	3740699	ND (1)		ND (1)	3740699	ND (1)	0.50	3740705

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

(1) Elevated reporting limit due to sample matrix.

Maxxam ID		XJ9014	XJ9015	XJ9016	XJ9017	XJ9018	XJ9019		
Sampling Date		2014/08/21	2014/08/21	2014/08/20	2014/08/20	2014/08/20	2014/08/20		
COC Number		481616-01-01	481616-01-01	481616-01-01	481616-01-01	481616-01-01	481616-01-01		
	Units	LPR5-T	FIELD BLANK	DUP	FF5-B	FF5-T	FFF1-B	RDL	QC Batch

Inorganics

Total Organic Carbon (C)	mg/L	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	5.0	3740835
Total Kjeldahl Nitrogen	mg/L	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.50	3740705

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Elevated reporting limit due to sample matrix.

Maxxam ID		XJ9020	XJ9021	XJ9022	XJ9022		XJ9023		
Sampling Date		2014/08/20	2014/08/20	2014/08/20	2014/08/20		2014/08/25		
COC Number		481616-01-01	481616-01-01	481616-01-01	481616-01-01		481616-01-01		
	Units	FFF1-T	FFF3-B	FFF3-T	FFF3-T Lab-Dup	QC Batch	BH	RDL	QC Batch

Inorganics

Total Organic Carbon (C)	mg/L	ND (1)	ND (1)	ND (1)		3740835	76 (1)	5.0	3744044
Total Kjeldahl Nitrogen	mg/L	ND (1)	ND (1)	0.52 (1)	ND (1)	3740705	4.0 (1)	0.50	3740705

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

(1) Elevated reporting limit due to sample matrix.

Maxxam Job #: B4G0185
Report Date: 2014/09/17

EcoMetrix Incorporated
Client Project #: 14-2097/ NPNS

RESULTS OF ANALYSES OF WATER

Maxxam ID		XJ9024			XJ9025		
Sampling Date		2014/08/27					
COC Number		481616-01-01			481616-01-01		
	Units	LL	RDL	QC Batch	TRIP BLANK	RDL	QC Batch
Inorganics							
Total Organic Carbon (C)	mg/L	6.6 (1)	5.0	3744044	ND (1)	5.0	3740835
Total Kjeldahl Nitrogen	mg/L	ND (1)	0.50	3740705	ND	0.10	3739273
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected (1) Elevated reporting limit due to sample matrix.							

Maxxam Job #: B4G0185
Report Date: 2014/09/17

EcoMetrix Incorporated
Client Project #: 14-2097/ NPNS

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.3°C
-----------	-------

Revised report: Revised to report re-analysis data for XJ9006 (MHR5-T), XJ9009 (LPR1-B), XJ9023 (BH), XJ9024 (LL). 2014/09/17 MHL

Sample XJ9006-01 : TOC was repeated on sample as per client request.

Sample XJ9009-01 : TOC was repeated on sample as per client request.

Sample XJ9023-01 : TOC was repeated on sample as per client request.

Sample XJ9024-01 : TOC was repeated on sample as per client request.

Results relate only to the items tested.

Maxxam Job #: B4G0185
Report Date: 2014/09/17

QUALITY ASSURANCE REPORT

EcoMetrix Incorporated
Client Project #: 14-2097/ NPNS

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
3739273	Total Kjeldahl Nitrogen	2014/09/09	NC	80 - 120	99	80 - 120	0.10 ,RDL=0.10	mg/L	7.6	25
3740699	Total Kjeldahl Nitrogen	2014/09/10	92	80 - 120	91	80 - 120	0.14 ,RDL=0.10	mg/L	NC (1)	25
3740705	Total Kjeldahl Nitrogen	2014/09/10	94	80 - 120	93	80 - 120	ND ,RDL=0.10	mg/L	NC (1)	25
3740834	Total Organic Carbon (C)	2014/09/09	87	80 - 120	98	80 - 120	ND ,RDL=0.50	mg/L	NC (1)	25
3740835	Total Organic Carbon (C)	2014/09/09	NC	80 - 120	98	80 - 120	ND ,RDL=0.50	mg/L	NC (1)	25
3744044	Total Organic Carbon (C)	2014/09/11	NC	80 - 120	102	80 - 120	ND ,RDL=0.50	mg/L	4.3	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

(1) Elevated reporting limit due to sample matrix.

Maxxam Job #: B4G0185
Report Date: 2014/09/17

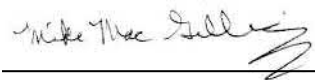
EcoMetrix Incorporated
Client Project #: 14-2097/ NPNS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Kevin MacDonald, Inorganics Supervisor



Mike MacGillivray, Scientific Specialist (Inorganics)

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

02-Sep-14 15:50

Page 1 of 4

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:	
Company Name: #12046 EcoMetrix Incorporated	Company Name: <u>ECOMETRIX</u>	Quotation #: B45440			
Contact Name: <u>Karen Petersen</u> <u>JOB TRAILHEAD</u>	Contact Name: <u>Karen Petersen</u>	P.O. #:			
Address: 6800 Campobello Rd	Address:	Project #:	<u>NPNS 14-2097</u>		
Mississauga ON L5N 2L8		Project Name:	<u>NPNS</u>		
Phone: (905) 794-2325 x207 x215 Fax: (905) 794-2338	Phone: (905) 794-2325 x207 x215 Fax:	Site #:			
Email: <u>kpetersen@ecomatrix.ca</u> <u>kpetersen@ecomatrix.ca</u>	Email: <u>kpetersen@ecomatrix.ca</u>	Sampled By:			

Jolanta Goralczyk

B4G0185

AAF ENV-815

481616

Project Manager: Jolanta Goralczyk

481616-01-01

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
<input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Finl <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table _____	<input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA Municipality _____ <input type="checkbox"/> PWOO <input type="checkbox"/> Other _____	

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Field Filtered (please circle): Metals / Hg / Cr / VI	TOC (Bedford)	DOC (Bedford)	TKN (Bedford)																			
	✓	✓	✓																			

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT:
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.

Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number: _____ (call lab for #)

of Bottles: 2
Comments:

Include Criteria on Certificate of Analysis (Y/N)?

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix
1	NF1-B	20-AUG-14		Water
2	NF1-T			
3	NF3-B			
4	NF3-T			
5	NF5-B			
6	NF5-T			
7	FF1-B			
8	FF1-T			
9	FF3-B			
10	FF3-T			

MARINE SAMPLES

* RELINQUISHED BY: (Signature/Print) <u>Daniel Skirach</u>	Date: (YY/MM/DD) 14/09/12	Time 3:50 PM	RECEIVED BY: (Signature/Print) <u>MAURICE</u>	Date: (YY/MM/DD) 20/09/12	Time 15:50	# jars used and not submitted -	Laboratory Use Only				
							Time Sensitive	Temperature (°C) on Receipt 5/5/6	Custody Seal Present	Yes	No
									Intact		✓

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM. White: Maxxam Yellow: Client




INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #12046 EcoMetrix Incorporated	Company Name: <u>ECOMETRIX</u>	Quotation #: B45440	Maxxam Job #:	Bottle Order #:	481616		
Contact Name: <u>Karen Petersen</u> <u>JDE TETREault</u>	Contact Name: <u>Karen Petersen</u>	P.O. #:	Chain of Custody #:	Project Manager:			
Address: 6800 Campobello Rd Mississauga ON L5N 2L8	Address:	Project #: <u>NPNS 14-2077</u>	Project Manager: Jolanta Goralczyk				
Phone: (905) 794-2325 x207 Q15 Fax: (905) 794-2338	Phone: (905) 794-2325 x207 Q15 Fax:	Site #:	C#481616-02-01				
Email: <u>kpetersen@ecometrix.ca</u> <u>jitetreaul</u>	Email: <u>kpetersen@ecometrix.ca</u>	Sampled By:					

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY					ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects.					
Regulation 153 (2011)			Other Regulations		Special Instructions										Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dicoums/Furans are > 5 days - contact your Project Manager for details.					
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw											Job Specific Rush TAT (if applies to entire submission)					
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw											Date Required: _____ Time Required: _____					
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality: _____											Rush Confirmation Number: _____ (call lab for #)					
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWOO	<input type="checkbox"/> Other _____																
Include Criteria on Certificate of Analysis (Y/N)?					Field Filtered (please circle): Metals / Hg / CrVI	TOC (Beaufort)	DOC (Beaufort)	TKN (Beaufort)											# of Bottles	Comments
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix																
1	MHR1-B	2 AUG 14		Water	✓	✓	✓										2			
2	MHR1-T																			
3	MHR3-B																			
4	MHR3-T																			
5	MHR5-B																			
6	MHR5-T																			
7	FFF5-B																			
8	FFF5-T																			
9	LPRI-B																			
10	LPRI-T																			

MARINE SAMPLES

* RELINQUISHED BY: (Signature/Print) <u>Daniel Skreuch</u>		Date: (YY/MM/DD) 14/08/07	Time 3:50 PM	RECEIVED BY: (Signature/Print) <u>[Signature]</u>		Date: (YY/MM/DD) 2014/09/12	Time 15:50	# jars used and not submitted	Laboratory Use Only			
								Time Sensitive	Temperature (°C) on Receipt 5/5/16	Custody Seal	Yes	No
										Present		✓
										Intact		

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM. White: Maxxam; Yellow: Client

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #12046 EcoMetrix Incorporated	Company Name: <u>Karen Petersen</u>	Quotation #: B45440	Maxxam Job #:	Bottle Order #:	481616		
Contact Name: <u>Karen Petersen</u>	Contact Name: <u>Karen Petersen</u>	P.O. #:	Chain of Custody #:	Project Manager:	Jolanta Goralczyk		
Address: 6800 Campobello Rd Mississauga ON L5N 2L8	Address:	Project #: <u>NPNS 14-2017</u>	Barcode: 		C#481616-03-01		
Phone: (905) 794-2325 x207-15 Fax: (905) 794-2338	Phone: (905) 794-2325 x207-15 Fax:	Project Name: <u>NPNS</u>	Barcode: 		C#481616-03-01		
Email: <u>kpetersen@ecomatrix.ca</u>	Email: <u>kpetersen@ecomatrix.ca</u>	Site #:	Barcode: 		C#481616-03-01		
		Sampled By:					

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)							Turnaround Time (TAT) Required: Please provide advance notice for rush projects						
Regulation 153 (2011)		Other Regulations		Special Instructions		Field Filtered (please circle): Metals / Hg / Cr-VI	TOC (Beford)	DOC (Beford)	TKN (Beford)							Regular (Standard) TAT: <small>(will be applied if Rush TAT is not specified)</small> Standard TAT = 5-7 Working days for most tests. <small>Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</small>	Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ <small>(call lab for #)</small>
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw													
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw													<input type="checkbox"/>
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality: _____													
<input type="checkbox"/> Table			<input type="checkbox"/> PWQO														
<input type="checkbox"/> Table			<input type="checkbox"/> Other														
Include Criteria on Certificate of Analysis (Y/N)?																	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix												# of Bottles	Comments
	LPR3-B	20-AUG-14		Water		✓	✓	✓								2	
	LPR3 T	↓		↓		↓	↓	↓								2	MARINE SAMPLES
	LP R5-B	↓		↓		↓	↓	↓								2	
	LP R5-T	↓		↓		↓	↓	↓								2	
	FIELD BLANK	↓		↓		↓	↓	↓								2	
	DUP	20-AUG-14		↓		✓	✓	✓								2	
	FF5-B	20-AUG-14		✓		✓	✓	✓								2	
	FF5-T	20-AUG-14		✓		✓	✓	✓								2	
	FFF1-B	20-AUG-14		✓		✓	✓	✓								2	
	FFF1-T	20-AUG-14		✓		✓	✓	✓								2	

* RELINQUISHED BY: (Signature/Print) <u>Dan SRO Daniel Skrzycki</u>		Date: (YY/MM/DD) 14/09/14	Time 3:50 PM	RECEIVED BY: (Signature/Print) <u>MANN HSYA</u>		Date: (YY/MM/DD) 10/10/14	Time 15:47	# jars used and not submitted 15/50	Laboratory Use Only			
Time Sensitive	Temperature (°C) on Receipt 5/5/6	Custody Seal	Yes	No	Present	Intact	Yes	No				

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM. White: Maxxam Yellow: Client



Maxxam Analytics International Corporation o/a Maxxam Analytics
 6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

CHAIN OF CUSTODY RECORD

Page 4 of 4

INVOICE INFORMATION: Company Name: #12046 EcoMetrix Incorporated Contact Name: Karen Petersen Address: 6800 Campobello Rd, Mississauga ON L5N 2L8 Phone: (905) 794-2325 x207 215 Fax: (905) 794-2338 Email: kpetersen@ecometrix.ca		REPORT INFORMATION (if differs from invoice): Company Name: Contact Name: Karen Petersen Address: Phone: (905) 794-2325 x207 215 Fax: Email: kpetersen@ecometrix.ca		PROJECT INFORMATION: Quotation #: B45440 P.O. #: Project #: NANS 14-2017 Project Name: NPD Site #: Sampled By:		Laboratory Use Only: Maxxam Job #: Bottle Order #: Chain of Custody #: Project Manager: Jolanta Goralczyk C#481616-04-01	
--	--	---	--	---	--	--	--

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011) <input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table		Other Regulations <input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA Municipality: _____ <input type="checkbox"/> PWQO <input type="checkbox"/> Other: _____		Special Instructions
--	--	---	--	-----------------------------

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)			
Field Filtered (please circle): Metals / Hg / Cr VI	TOC (Bedford)	DOC (Bedford)	TKN (Bedford)

Turnaround Time (TAT) Required:
 Please provide advance notice for rush projects

Regular (Standard) TAT:
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most tests.
 Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Regular (Standard) TAT

Job Specific Rush TAT (if applies to entire submission)
 Date Required: _____ Time Required: _____
 Rush Confirmation Number: _____ (call lab for #)

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	TOC (Bedford)	DOC (Bedford)	TKN (Bedford)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	# of Bottles	Comments
1	FFF3 - B	20-Aug-14		Water		✓	✓	✓		2	MARINE
2	FFF3 - T	↓		Water		✓	✓	✓		2	SAMPLES
3	BH	25-Aug-14		Water		✓	✓	✓		2	BRACKISH WATER
4	LL	27-Aug-14		Water		✓	✓	✓		2	" "
5	TRIP BLANK			Water						3	MARINE WATER
6											
7											
8											
9											
10											

* RELINQUISHED BY: (Signature/Print) Daniel Skowch		Date: (YY/MM/DD) 14/09/102	Time 3:50 PM	RECEIVED BY: (Signature/Print) [Signature]		Date: (YY/MM/DD) 20141009102	Time 15:50	# jars used and not submitted	Laboratory Use Only			
								Time Sensitive	Temperature (°C) on Receipt 5/5/16	Custody Seal	Yes	No
										Present		
										Intact		✓

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM. White: Maxxam Yellow: Client

Your Project #: 14-2077
Your C.O.C. #: 513029-01-01

Attention: Joe Tetreault

EcoMetrix Incorporated
6800 Campobello Rd
Mississauga, ON
L5N 2L8

Report Date: 2015/05/28
Report #: R3443989
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B592163

Received: 2015/05/19, 09:31

Sample Matrix: Water
Samples Received: 5

Analyses	Date		Laboratory Method	Reference
	Quantity	Extracted		
Colour	3	N/A	2015/05/21 CAM SOP-00412	SM 22 2120 m
Dissolved Organic Carbon (DOC) (1)	4	N/A	2015/05/23 CAM SOP-00446	SM 22 5310 B m
Dissolved Organic Carbon (DOC) (1)	1	N/A	2015/05/24 CAM SOP-00446	SM 22 5310 B m
Total Kjeldahl Nitrogen in Water	1	2015/05/21	2015/05/27 CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	4	2015/05/22	2015/05/27 CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	5	N/A	2015/05/22 CAM SOP-00446	SM 22 5310B m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
- (2) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Jolanta Goralczyk, Project Manager
Email: JGoralczyk@maxxam.ca
Phone# (905)817-5751

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B592163
Report Date: 2015/05/28

EcoMetrix Incorporated
Client Project #: 14-2077

RESULTS OF ANALYSES OF WATER

Maxxam ID		AHF462	AHF462		AHF463			AHF464		
Sampling Date		2015/05/18	2015/05/18		2015/05/18			2015/05/18		
COC Number		513029-01-01	513029-01-01		513029-01-01			513029-01-01		
	Units	BH	BH Lab-Dup	RDL	LL	RDL	QC Batch	DUP	RDL	QC Batch
Inorganics										
Colour	TCU	430	430	10	20	2	4030072	350	10	4030072
Total Kjeldahl Nitrogen (TKN)	mg/L	2.1		1.0	1.2	1.0	4033007	1.7	0.50	4031271
Dissolved Organic Carbon	mg/L	43		0.20	4.9	0.20	4029828	42	0.20	4029828
Total Organic Carbon (TOC)	mg/L	56		2.0	5.4	0.20	4031481	60	2.0	4031481
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										

Maxxam ID		AHF465	AHF465		AHF466		
Sampling Date		2015/05/18	2015/05/18		2015/05/18		
COC Number		513029-01-01	513029-01-01		513029-01-01		
	Units	FB	FB Lab-Dup	RDL	TRIP BLANK	RDL	QC Batch
Inorganics							
Total Kjeldahl Nitrogen (TKN)	mg/L	ND (1)	ND (1)	0.50	0.11	0.10	4033007
Dissolved Organic Carbon	mg/L	0.57		0.20	0.32	0.20	4029828
Total Organic Carbon (TOC)	mg/L	ND		0.20	ND	0.20	4031481
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate ND = Not detected (1) Detection Limit was raised due to matrix interferences.							

Maxxam Job #: B592163
Report Date: 2015/05/28

EcoMetrix Incorporated
Client Project #: 14-2077

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.0°C
-----------	-------

Sample AHF465-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample AHF466-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Results relate only to the items tested.

Maxxam Job #: B592163
Report Date: 2015/05/28

QUALITY ASSURANCE REPORT

EcoMetrix Incorporated
Client Project #: 14-2077

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
4029828	Dissolved Organic Carbon	2015/05/23	90	80 - 120	99	80 - 120	0.22, RDL=0.20	mg/L	NC	20		
4030072	Colour	2015/05/21			99	80 - 120	ND,RDL=2	TCU	0.73	25		
4031271	Total Kjeldahl Nitrogen (TKN)	2015/05/27	105	80 - 120	103	80 - 120	ND, RDL=0.10	mg/L	NC	20	102	80 - 120
4031481	Total Organic Carbon (TOC)	2015/05/22	103	80 - 120	104	80 - 120	ND, RDL=0.20	mg/L	6.4	20		
4033007	Total Kjeldahl Nitrogen (TKN)	2015/05/27	102	80 - 120	106	80 - 120	ND, RDL=0.10	mg/L	NC (1)	20	103	80 - 120

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).



(1) Detection Limit was raised due to matrix interferences.

Maxxam Job #: B592163
Report Date: 2015/05/28

EcoMetrix Incorporated
Client Project #: 14-2077

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

19-May-15 09:31

Jolanta Goralczyk

B592163

ABH ENV-570

Page of
 nly:
 Bottle Order #:
 513029
 Project Manager:
 Jolanta Goralczyk

INVOICE TO:
 Company Name: #12046 EcoMetrix Incorporated
 Attention: Joe Tetreault
 Address: 6800 Campobello Rd, Mississauga ON L5N 2L8
 Tel: (905) 794-2325 x215 Fax: (905) 794-2338
 Email: jtetreault@ecometrix.ca

REPORT TO:
 Company Name:
 Attention:
 Address:
 Tel:
 Fax:

PROJECT INFORMATION:
 Quotation #: B36676
 P.O. #:
 Project: 14-2077
 Project Name:
 Site #:
 Sampled By:

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
<input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table	<input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA Municipality <input type="checkbox"/> PWQO <input type="checkbox"/> Other	

Include Criteria on Certificate of Analysis (Y/N)?

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Field Filtered (please circle): Metals / Hg / Cr / V I	Total Kjeldahl Nitrogen in Water	Total Organic Carbon (TOC)	Dissolved Organic Carbon (DOC)	Colour
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓

Turnaround Time (TAT) Required
 Please provide advance notice for rush projects

Regular (Standard) TAT:
 (will be applied if Rush TAT is not specified):
 Standard TAT = 5-7 Working days for most tests.
 Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
 Date Required: Time Required:
 Rush Confirmation Number: (call lab for #)

of Bottles: Comments:

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix
1	BH	18-May-15		Water
2	LL	↓		↓
3	DUP	↓		↓
4	FB	↓		↓
5	TRIP BLANK	↓		↓
6				
7				
8				
9				
10				

RELINQUISHED BY: (Signature/Print) Joe Tetreault	Date: (YY/MM/DD) 15/05/19	Time	RECEIVED BY: (Signature/Print) HEZAL RAJEE	Date: (YY/MM/DD) 2015/05/19	Time 09:31	# Jars used and not submitted	Laboratory Use Only				
							Time Sensitive	Temperature (°C) on Receipt 4/5/3	Custody Seal	Yes	No
									Present	✓	2
									Intact	✓	✓

White: Maxxam Yellow: Client

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Table C.1: Conventional Water Quality Parameters Measured at Benthic Stations, NPNS EEM Cycle 7 - August 2014

Area	Station	Latitude	Longitude	Water Depth (m)	Depth (m)	pH	Salinity (ppt)	D.O. (mg/L)	Temperature (°C)
Near-Field	NF1	45° 40' 53.6"	062° 38' 40.1"	top		7.8	23.4	7.9	19.5
	NF2	45° 40' 53.1"	062° 38' 38.8"	bottom	3.9	7.7	23.7	7.3	17.5
				top		7.8	23.5	7.9	18.3
	NF3	45° 40' 52.4"	062° 38' 38.4"	bottom	3.6	7.9	24.5	7.8	18.3
				top		7.9	24.4	7.8	18.6
	NF4	45° 40' 52.9"	062° 38' 41.6"	bottom	3.5	7.9	23.5	7.9	18.4
				top		7.9	23.5	7.8	18.6
	NF5	45° 40' 53.1"	062° 38' 43.6"	bottom	3.4	7.9	23.5	7.8	18.5
				top		7.9	23.4	7.8	18.8
	MEAN			top	3.5	7.9	23.5	7.9	18.7
MEAN			bottom	3.6	7.9	23.7	7.7	18.3	
Far-Field	FF1	45° 41' 01.6"	062° 38' 04.4"	top		7.9	23.4	7.9	18.8
	FF2	45° 41' 01.5"	062° 38' 03.1"	bottom	3.8	7.9	23.4	8.0	18.7
				top		7.9	23.4	7.9	18.9
	FF3	45° 41' 01.3 "	062° 38' 01.7"	bottom	3.8	7.9	23.4	8.1	18.8
				top		7.9	23.2	8.0	19.3
	FF4	45° 41' 01.0"	062° 37' 59.6"	bottom	3.7	7.9	23.4	8.1	18.9
				top		7.9	22.5	7.8	20.4
	FF5	45° 41' 01.5"	062° 37' 58.0"	bottom	3.5	7.9	23.3	8.0	19.1
				top		7.9	23.1	8.1	19.6
	MEAN			bottom	3.4	7.9	23.3	8.1	19.2
MEAN			top	3.6	7.9	23.1	8.0	19.4	
MEAN			bottom	3.6	7.9	23.4	8.1	18.9	
Far Far-Field	FFF1	45° 41' 13.9 "	062° 37' 32.5"	top		8.0	23.3	8.1	19.3
	FFF2	45° 41' 16.9"	062° 37' 30.1"	bottom	5.6	8.0	23.3	8.1	19.3
				top		7.9	23.3	8.1	19.2
	FFF3	45° 41' 15.3"	062° 37' 25.3"	bottom	6.1	7.9	23.3	8.0	19.1
				top		7.9	23.33	8.2	19.2
	FFF4	45° 41' 14.7"	062° 37' 24.2"	bottom	5.6	7.9	23.42	7.92	18.5
				top		8.0	23.4	8.0	19.0
	FFF5	45° 41' 13.7"	062° 37' 22.6"	bottom	5.3	7.9	23.6	7.7	18.0
				top		8.0	23.3	8.0	19.4
	MEAN			bottom	5.4	7.9	23.6	7.6	18.0
MEAN			top	5.6	8.0	23.3	8.1	19.2	
MEAN			bottom	5.6	7.9	23.4	7.9	18.6	
Merigomish Harbour (Reference)	MHR1	45° 39' 18.9"	062° 27' 51.5"	top		8.0	23.4	7.5	19.1
	MHR2	45° 39' 18.2"	062° 28' 31.1"	bottom	5.6	8.0	23.4	7.6	19.0
				top		8.0	23.4	7.8	18.9
	MHR3	45° 39' 18.2"	062° 29' 11.3"	bottom	4.7	8.0	23.5	7.7	18.9
				top		8.0	23.5	8.0	18.6
	MHR4	45° 39' 28.0"	062° 29' 43.5"	bottom	5.1	7.9	23.6	7.7	18.3
				top		8.0	23.6	7.9	18.7
	MHR5	45° 39' 35.1"	062° 30' 25.0"	bottom	5.6	8.0	23.5	7.8	18.2
				top		8.0	23.6	7.6	18.8
	MEAN			bottom	6.1	7.9	23.6	7.2	17.9
MEAN			top	5.4	8.0	23.5	7.7	18.8	
MEAN			bottom	5.4	8.0	23.5	7.6	18.5	
Logan Point (Reference)	LPR1	45° 43' 37.9"	062° 38' 04.1"	top		8.0	23.6	8.4	18.2
	LPR2	45° 43' 47.5"	062° 38' 10.1"	bottom	5.6	8.0	23.6	8.3	18.0
				top		8.1	23.5	8.4	18.2
	LPR3	45° 44' 59.6"	062° 39' 29.6"	bottom	5.8	8.0	23.6	8.4	18.1
				top		8.0	23.6	8.5	18.3
	LPR4	45° 45' 03.4"	062° 39' 41.1"	bottom	6.1	8.0	23.6	8.4	18.2
				top		8.0	23.6	8.5	18.4
	LPR5	45° 45' 03.4"	062° 39' 51.4"	bottom	6.9	8.0	23.6	8.4	18.2
				top		8.1	23.6	8.9	18.5
	MEAN			bottom	5.5	8.0	23.6	8.4	18.2
MEAN			top	6.0	8.1	23.6	8.5	18.3	
MEAN			bottom	6.0	8.0	23.6	8.4	18.2	

Appendix D BENTHIC INVERTEBRATE COMMUNITY DATA

TABLE D.1 CALCULATION OF SUBSAMPLING ERROR FOR BENTHIC MACROINVERTEBRATE SAMPLES FROM PICTOU, NOVA SCOTIA (2014).

Station	Whole Organisms	Number of Organisms in Fraction 1	Number of Organisms in Fraction 2	Number of Organisms in Fraction 3	Number of Organisms in Fraction 4	Actual Density*	Precision % range		Accuracy min max	
LPR-4	11	291	302	338	342	1273	1.2	14.9	5.1	8.6
LPR-4	11	593	680	-	-	1273	12.8	-	6.8	-

* whole large organisms excluded in calculations.

min = minimum absolute % error

max = maximum absolute % error

TABLE D.2 PERCENT RECOVERY OF BENTHIC MACROINVERTEBRATES FROM SAMPLES COLLECTED FROM PICTOU, NOVA SCOTIA (2014).

Station	Number of Organisms Recovered (initial sort)	Number of Organisms in Re-sort	Percent Recovery
FF-1	306	308	99.4%
FF-5	305	308	99.0%
LPR-5	493	495	99.6%
		Average % Recovery	99.3%

TABLE D.3 SAMPLE FRACTIONS SORTED FROM PICTOU, NOVA SCOTIA (2014).

Station	Fraction Sorted	Station	Fraction Sorted
NF-1	1/2	FFF-4	1/2
NF-2	1/2	FFF-5	1/4
NF-3	1/2	LPR-1	Whole
NF-4	1/2	LPR-2	Whole
NF-5	1/2	LPR-3	1/2
FF-1	1/2	LPR-4 ^a	Whole
FF-2	1/2	LPR-5	1/2
FF-3	1/2	MHR-1	1/2
FF-4	1/2	MHR-2	Whole
FF-5	1/4	MHR-3	1/2
FFF-1	1/8	MHR-4	Whole
FFF-2	1/8	MHR-5	1/2
FFF-3	1/4		

^afour quarters sorted for sub-sampling error

QA/QC Notes

Immatures were not counted toward total number of taxa unless they were the sole representative of their taxa group.

Reported fractions averaged 4 hours to sort. Samples contained large quantities of sand.

ZEAS has shown that subsampling precision and accuracy are density dependent (Zaranko and Keene 2005).

Specifically, small absolute differences between subsampled fractions become increasingly large, when expressed as a percentage of total organisms, as organism densities decline. Therefore, the probability of meeting precision and accuracy criteria is reduced in samples with low organism densities (i.e., <150 organisms/subsample).

Based on the high densities, there would be a high probability of attaining the accuracy criteria for 13 of the 15 samples.

Zaranko, D.T. and J. Keene. 2005. Are the costs to meet environmental effects monitoring (EEM) benthic sample precision and accuracy criteria justified? In Dixon, D.G., S. Munro and A.J. Niimi (eds). Proceedings of the 32nd Annual Aquatic Toxicity Workshop: October 3 to 5, 2005, Waterloo, Ontario. Can. Tech. Rep. Fish. Aquat. Sci: 2617. 120p.

Table D.4: Benthic Macroinvertebrates Collected by Ponar for NPNS - Cycle 7 EEM (Densities Expressed Per Square Metre).

Area Station	Near Field					Far Field					Far-Far Field					Logan's Point Referenc					Merigomish Harbour Reference				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
<i>Unciola irrorata</i>	68.96	0	69	34.5	34.5	17.2	17.2	0	51.7	0	0	0	34.5	0	69	0	0	51.7	8.62	0	0	0	34.5	8.62	0
F. Caprellidae																									
immature	0	0	17.2	0	0	0	0	0	0	0	206.88	69	0	0	0	8.62	0	0	0	0	0	0	0	0	0
F. Corophiidae																									
<i>Corophium</i>	0	0	0	0	0	0	0	0	0	0	551.68	0	0	0	0	8.62	0	0	0	0	0	0	0	0	0
F. Lysianassidae																									
<i>Orchomenella minuta</i>	0	0	0	0	0	0	0	0	0	0	68.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Psammonyx nobilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34.5
F. Pontogeneiidae																									
<i>Pontogeneia inermis</i>	0	0	0	0	0	0	0	0	0	0	68.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CUMACEANS																									
O. Cumacea																									
F. Bodotriidae																									
<i>Pseudoleptocuma minor</i>	0	0	0	0	17.2	0	0	17.2	0	0	0	0	34.5	17.2	34.5	25.9	17.2	0	25.9	17.2	69	0	17.2	0	224
F. Diastylidae																									
<i>Oxyurostylis smithi</i>	17.24	34.5	51.7	17.2	0	17.2	0	17.2	34.5	34.5	68.96	69	0	51.7	34.5	25.9	17.2	69	155	0	276	86.2	121	0	34.5
F. Lampropidae																									
<i>Lamprops quadriplicata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.62	8.62	0	0	0	0	8.62	0	0	0
AQUATIC SOW BUGS																									
O. Isopoda																									
F. Idoteidae																									
<i>Chiridotea tuftsi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.62	0	0	0	17.2	0	0	0	0
<i>Edotea triloba</i>	17.24	34.5	0	17.2	34.5	17.2	17.2	0	17.2	34.5	68.96	138	0	0	0	8.62	8.62	17.2	25.9	0	0	8.62	0	0	34.5
<i>Idotea phosphorea</i>	0	0	0	0	0	0	0	0	0	0	68.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OPOSSUM SHRIMPS																									
O. Mysidacea																									
<i>Neomysis americana</i>	17.24	0	0	0	17.2	0	0	0	0	0	0	0	0	0	0	0	0	17.2	0	0	0	0	17.2	0	0
TANAID SHRIMPS																									
O. Tanaidacea																									
<i>Tanaidacea</i>	0	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	0	103	34.5	17.2	0	0	0
CRABS and SHRIMP																									
O. Decapoda																									
immature	0	0	0	0	0	0	0	0	0	0	0	0	69	34.5	34.5	0	25.9	0	0	0	0	0	34.5	8.62	17.2
HERMIT CRABS																									
Superfamily Paguroidea																									
F. Paguridae																									
<i>Pagurus</i>	0	17.2	0	0	17.2	0	8.62	0	0	0	68.96	0	0	0	0	0	8.62	0	0	17.2	0	0	0	0	0
TRUE CRABS																									
Infraorder Brachyura																									
immature	0	0	0	0	0	0	0	0	0	0	0	69	0	0	0	0	0	0	0	0	0	0	0	8.62	0
SHRIMPS																									
Infraorder Caridea																									
F. Crangonidae																									
<i>Crangon septemspinosa</i>	17.24	51.7	0	0	0	34.5	0	17.2	17.2	0	0	0	0	0	34.5	0	0	0	0	0	0	0	0	0	0
MOLLUSCS																									
P. Mollusca																									
SNAILS																									
Cl. Gastropoda																									
F. Calyptraeidae																									
<i>Crepidula fornicata</i>	17.24	17.2	34.5	17.2	51.7	0	34.5	69	0	34.5	1930.9	1517	0	0	34.5	0	34.5	69	0	0	0	0	0	8.62	0
F. Columbellidae																									
<i>Mitrella lunata</i>	0	0	0	0	0	0	0	0	0	0	1241.3	483	0	0	0	0	0	0	0	0	0	0	0	0	0
F. Haminoecidae																									
<i>Haminoea solitaria</i>	103.44	2465	1586	224	1103	17.2	0	51.7	810	931	0	0	0	17.2	34.5	0	0	0	0	0	51.7	8.62	17.2	0	69
F. Nassariidae																									
<i>Nassarius trivittatus</i>	206.88	103	155	207	190	259	172	155	121	483	0	552	276	172	414	25.9	43.1	17.2	103	51.7	0	69	69	69	379

Table D.4: Benthic Macroinvertebrates Collected by Ponar for NPNS - Cycle 7 EEM (Densities Expressed Per Square Metre).

Area Station	Near Field					Far Field					Far-Far Field					Logan's Point Referenc					Merigomish Harbour Reference				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
F. Naticidae																									
<i>Lunatia heros</i>	0	86.2	0	17.2	17.2	0	17.2	0	0	0	0	0	34.5	0	0	51.7	0	51.7	25.9	17.2	0	8.62	34.5	0	190
F. Pyramidellidae																									
<i>Boonea bisuturalis</i>	224.12	17.2	86.2	241	465	224	51.7	69	172	241	0	207	172	293	759	51.7	8.62	69	155	0	17.2	0	0	8.62	17.2
<i>Odostomia trifida</i>	0	0	0	0	0	17.2	17.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Turbonilla</i>	34.48	0	17.2	69	34.5	17.2	17.2	0	69	34.5	0	138	0	0	34.5	0	0	17.2	0	0	0	0	0	17.2	0
F. Cyllichnidae																									
<i>Acteocina canaliculata</i>	586.16	1965	1983	2724	1845	1086	828	1621	2517	3000	0	1586	759	793	1448	155	198	86.2	1448	0	1896	1500	1603	121	2534
SEA SLUG																									
<i>O. Nudibranchia</i>	0	0	0	0	0	0	0	0	0	0	68.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLAMS																									
Cl. Bivalvia																									
indeterminate	0	17.2	0	0	0	0	0	0	0	0	0	0	0	17.2	0	0	0	0	8.62	0	0	0	0	0	0
F. Arctiidae																									
? <i>Arctica islandica</i>	0	17.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.62	0	0	0	0	0	0
F. Cardiidae																									
<i>Cerastoderma pinnulatum</i>	17.24	103	34.5	86.2	103	0	17.2	34.5	17.2	0	758.56	207	0	34.5	69	0	0	0	0	0	0	0	0	0	0
F. Mactridae																									
<i>Mulinia lateralis</i>	0	17.2	0	34.5	51.7	155	86.2	86.2	86.2	34.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spisula solidissima</i>	499.96	1827	1552	1241	2362	759	431	638	793	862	275.84	483	2000	1207	1690	1646	112	810	457	759	276	690	397	233	293
F. Myidae																									
<i>Mya arenaria</i>	189.64	207	362	362	534	310	172	207	362	379	344.8	138	241	155	207	8.62	0	17.2	17.2	17.2	0	0	0	0	0
F. Pandoridae																									
<i>Pandora gouldiana</i>	0	17.2	17.2	17.2	0	60.3	17.2	34.5	51.7	207	0	69	103	103	172	25.9	8.62	17.2	43.1	17.2	17.2	8.62	0	8.62	0
F. Solenidae																									
<i>Ensis directus</i>	51.72	103	17.2	17.2	34.5	17.2	0	51.7	34.5	69	413.76	207	69	328	345	8.62	8.62	69	629	17.2	103	86.2	34.5	8.62	69
F. Tellinidae																									
<i>Tellina agilis</i>	930.96	2138	2258	1879	2155	931	517	862	1362	2552	413.76	2758	1414	862	1448	526	397	1086	4594	362	759	655	845	216	1345
F. Veneridae																									
<i>Pitar morrhuanus</i>	17.24	17.2	0	0	0	0	17.2	17.2	17.2	0	0	0	0	0	0	0	0	17.2	43.1	0	0	0	0	0	0
P. Echinodermata																									
SAND DOLLARS																									
Cl. Echinoidea																									
F. Echinarachniidae																									
<i>Echinarachnius parma</i>	0	0	0	0	0	8.62	8.62	0	8.62	8.62	0	69	8.62	17.2	69	60.3	147	155	138	86.2	34.5	43.1	43.1	129	17.2
SEA CUCUMBERS																									
Cl. Holothuroidea																									
immature	0	0	0	0	0	0	0	17.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL NUMBER OF ORGANISMS	3646.3	#####	#####	#####	#####	5275	5181	6844	8275	#####	40436	#####	7293	7603	#####	3379	1543	#####	#####	8430	5422	3810	5439	1621	9516
TOTAL NUMBER OF TAXA*	32	36	32	34	37	30	30	31	32	28	34	33	25	31	33	30	25	37	40	24	24	29	27	24	27
SIMPSON'S EVENNESS	0.2521	0.2	0.23	0.21	0.26	0.29	0.22	0.2	0.21	0.22	0.1225	0.31	0.26	0.24	0.3	0.12	0.28	0.09	0.11	0.21	0.24	0.16	0.24	0.38	0.23
SIMPSON'S DIVERSITY	0.876	0.86	0.87	0.86	0.89	0.89	0.85	0.83	0.85	0.84	0.7598	0.9	0.85	0.86	0.9	0.73	0.86	0.71	0.78	0.8	0.83	0.78	0.85	0.89	0.84
BRAY-CURTIS DISSIMILARITY (LOGAN'S POINT REFERENCE)	0.588	0.61	0.64	0.73	0.62	0.55	0.57	0.66	0.65	0.73	0.8813	0.73	0.55	0.56	0.55	0.41	0.49	0.59	0.53	0.48	0.59	0.55	0.57	0.61	0.65
BRAY-CURTIS DISSIMILARITY (MERIGOMISH HARBOUR REFERENC	0.4835	0.53	0.48	0.55	0.54	0.39	0.48	0.42	0.42	0.53	0.9351	0.52	0.48	0.47	0.52	0.6	0.57	0.77	0.5	0.77	0.13	0.28	0.11	0.52	0.38

*Bold entries are not unique taxa and are excluded in the total number of taxa.

Table D.5: Summary Statistics for Benthic Macroinvertebrates Collected by Ponar for NPNS - Cycle 7 EEM (Densities Expressed Per Square Metre).

Area Station	Near Field						Far Field						Far-far Field						Logan's Point Reference						Merigomish Harbour Reference					
	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD
P. Sarcodina																														
O. Foraminiferida	531	68.96	1965.36	51.72	330.5	739	717	51.72	1930.88	17.24	377.8	844.8	352	137.92	1448.16	0	247.2	552.7	9	0	25.86	0	4.876	10.9	0	0	0	0	0	0
ROUNDWORMS																														
P. Nematoda	3	0	17.24	0	3.084	6.896	0	0	0	0	0	0	2014	0	9861.28	0	1755	3925	541	17.24	1948.12	0	339.4	758.9	26	8.62	68.96	0	12.9	28.85
FLATWORMS																														
P. Platyhelminthes																														
Cl. Turbellaria	3	0	17.24	0	3.084	6.896	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O. Tricladida	3	0	17.24	0	3.084	6.896	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNSEGMENTED WORMS																														
P. Nemertea	14	0	34.48	0	7.554	16.89	0	0	0	0	0	0	16	0	77.58	0	13.88	31.03	2	0	8.62	0	1.542	3.448	12	0	51.72	0	8.991	20.11
P. Phoronida	0	0	0	0	0	0	3	0	17.24	0	3.084	6.896	0	0	0	0	0	0	2	0	8.62	0	1.542	3.448	0	0	0	0	0	0
P. Annelida																														
WORMS																														
Cl. Oligochaeta																														
F. Enchytraeidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0	189.64	0	33.92	75.86	0	0	0	0	0	0
BRISTLE WORMS																														
Cl. Polychaeta (Errantia)																														
F. Dorvilleidae																														
<i>Parougia caeca</i>	0	0	0	0	0	0	0	0	0	0	0	0	17	0	68.96	0	11.94	26.71	21	17.24	68.96	0	11.33	25.34	0	0	0	0	0	0
F. Glyceridae																														
<i>Glycera dibranchiata</i>	0	0	0	0	0	0	0	0	0	0	0	0	2	0	8.62	0	1.542	3.448	2	0	8.62	0	1.542	3.448	2	0	8.62	0	1.542	3.448
<i>Glycera</i> immature	31	17.24	86.2	17.24	12.34	27.58	3	0	17.24	0	3.084	6.896	90	68.96	172.4	0	26.89	60.12	90	60.34	181.02	0	30.31	67.79	64	68.96	103.44	17.24	13.71	30.65
F. Lumbrineridae																														
<i>Lumbrineris acuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	51.72	0	9.252	20.69	2	0	8.62	0	1.542	3.448
<i>Lumbrineris fragilis</i>	3	0	17.24	0	3.084	6.896	0	0	0	0	0	0	17	0	68.96	0	11.94	26.71	10	0	51.72	0	9.252	20.69	0	0	0	0	0	0
<i>Lumbrineris</i> immature	17	17.24	51.72	0	8.446	18.89	3	0	17.24	0	3.084	6.896	7	0	34.48	0	6.168	13.79	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ninoe nigripes</i> immature	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	8.62	43.1	0	7.475	16.71	0	0	0	0	0	0
F. Nephthyidae																														
<i>Nephtys buccera</i>	40	17.24	120.68	17.24	18.18	40.65	17	17.24	43.1	0	7.314	16.36	3	0	17.24	0	3.084	6.896	14	8.62	51.72	0	8.654	19.35	86	86.2	181.02	25.86	26.03	58.21
<i>Nephtys caeca</i>	53	51.72	103.44	0	15.88	35.5	26	34.48	34.48	0	5.972	13.35	22	25.86	43.1	0	7.15	15.99	17	0	86.2	0	15.42	34.48	2	0	8.62	0	1.542	3.448
<i>Nephtys</i> immature	31	34.48	51.72	0	7.554	16.89	0	0	0	0	0	0	79	68.96	172.4	0	27.41	61.29	10	8.62	34.48	0	5.666	12.67	0	0	0	0	0	0
F. Nereidae																														
<i>Neanthes virens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	8.62	0	1.542	3.448
F. Pholoidae																														
<i>Pholoe tecta</i>	3	0	17.24	0	3.084	6.896	0	0	0	0	0	0	138	68.96	551.68	0	93.54	209.2	17	17.24	51.72	0	8.446	18.89	0	0	0	0	0	0
<i>Pholoe longa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	8.62	0	1.542	3.448	0	0	0	0	0	0
F. Phyllodoceidae																														
<i>Eteone foliosa</i>	3	0	17.24	0	3.084	6.896	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	17.24	0	3.084	6.896
<i>Eteone</i> immature	0	0	0	0	0	0	0	0	0	0	0	0	14	0	68.96	0	12.34	27.58	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phyllodoce mucosa</i>	3	0	17.24	0	3.084	6.896	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phyllodoce</i> immature	10	0	34.48	0	6.168	13.79	0	0	0	0	0	0	38	17.24	103.44	0	18.5	41.38	0	0	0	0	0	0	19	8.62	51.72	0	9.252	20.69
F. Polynoidae																														
<i>Harmothoe imbricata</i>	0	0	0	0	0	0	0	0	0	0	0	0	14	0	68.96	0	12.34	27.58	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lepidonotus squamatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	83	0	275.84	0	49.34	110.3	0	0	0	0	0	0	0	0	0	0	0	0
F. Protodrilidae																														
<i>Protodriloides</i>	796	810.28	1534.36	103.44	257.3	575.2	345	344.8	586.16	206.88	62.45	139.6	3951	689.6	15929.76	620.64	2686	6006	2376	1749.86	7016.68	224.12	1110	2483	481	568.92	982.68	86.2	150.1	335.7
F. Sigalionidae																														
<i>Sthenelais limicola</i>	3	0	17.24	0	3.084	6.896	0	0	0	0	0	0	7	8.62	17.24	0	2.885	6.451	16	8.62	34.48	0	7.066	15.8	10	0	43.1	0	7.475	16.71
F. Syllidae																														
<i>Exogone</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0	120.68	0	21.59	48.27	0	0	0	0	0	0
<i>Streptosyllis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	25.86	0	4.626	10.34
indeterminate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	68.96	0	12.04	26.93
Cl. Polychaeta (Sedentaria)																														
F. Ampharetidae																														
<i>Ampharete</i>	24	34.48	34.48	0	6.168	13.79	7	0	17.24	0	3.777	8.446	41	0	206.88	0	37.01	82.75	12	8.62	34.48	0	5.77	12.9	0	0	0	0	0	0
F. Capitellidae																														
<i>Mediomastus ambiseta</i>	131	68.96	327.56	17.24	53.1	118.7	217	224.12	224.12	206.88	3.777	8.446	14	0	68.96	0	12.34	27.58	2	0	8.62	0	1.542	3.448	0	0	0	0	0	0
F. Cirratulidae																														
<i>Tharyx</i>	97	86.2	189.64	0	28.68	64.14	21	17.24	51.72	0	8.991	20.11	17	0	86.2	0	15.42	34.48	43	17.24	120.68	0	21.53	48.15	59	51.72	189.64	0	31.07	69.48
F. Flabelligeridae																														

Table D.5: Summary Statistics for Benthic Macroinvertebrates Collected by Ponar for NPNS - Cycle 7 EEM (Densities Expressed Per Square Metre).

Area Station	Near Field						Far Field						Far-far Field						Logan's Point Reference						Merigomish Harbour Reference					
	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD
TRUE CRABS																														
Infraorder Brachyura																														
immature	0	0	0	0	0	0	0	0	0	0	0	0	14	0	68.96	0	12.34	27.58	0	0	0	0	0	0	2	0	8.62	0	1.542	3.448
SHRIMPS																														
Infraorder Caridea																														
F. Crangonidae																														
<i>Crangon septemspinosus</i>	14	0	51.72	0	8.991	20.11	14	17.24	34.48	0	5.77	12.9	7	0	34.48	0	6.168	13.79	0	0	0	0	0	0	0	0	0	0	0	0
MOLLUSCS																														
P. Mollusca																														
SNAILS																														
Cl. Gastropoda																														
F. Calyptraeidae																														
<i>Crepidula fornicata</i>	28	17.24	51.72	17.24	6.168	13.79	28	34.48	68.96	0	11.54	25.8	696	34.48	1930.88	0	379.8	849.2	21	0	68.96	0	12.34	27.58	2	0	8.62	0	1.542	3.448
F. Columbelloidea																														
<i>Mitrella lunata</i>	0	0	0	0	0	0	0	0	0	0	0	0	345	0	1241.28	0	217.2	485.7	0	0	0	0	0	0	0	0	0	0	0	0
F. Haminoeidae																														
<i>Haminoea solitaria</i>	1096	1103.36	2465.32	103.44	393	878.7	362	51.72	930.96	0	186.6	417.3	10	0	34.48	0	6.168	13.79	0	0	0	0	0	0	29	17.24	68.96	0	11.84	26.48
F. Nassariidae																														
<i>Nassarius trivittatus</i>	172	189.64	206.88	103.44	17.58	39.31	238	172.4	482.72	120.68	58.39	130.6	283	275.84	551.68	0	85.24	190.6	48	43.1	103.44	17.24	13.49	30.16	117	68.96	379.28	0	59.8	133.7
F. Naticidae																														
<i>Lunatia heros</i>	24	17.24	86.2	0	14.3	31.98	3	0	17.24	0	3.084	6.896	7	0	34.48	0	6.168	13.79	29	25.86	51.72	0	8.991	20.11	47	8.62	189.64	0	32.49	72.65
F. Pyramidellidae																														
<i>Boonea bisuturalis</i>	207	224.12	465.48	17.24	68.96	154.2	152	172.4	241.36	51.72	34.96	78.17	286	206.88	758.56	0	113.9	254.7	57	51.72	155.16	0	24.82	55.49	9	8.62	17.24	0	3.448	7.71
<i>Odostomia trifida</i>	0	0	0	0	0	0	7	0	17.24	0	3.777	8.446	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Turbonilla</i>	31	34.48	68.96	0	10.23	22.87	28	17.24	68.96	0	10.46	23.39	34	0	137.92	0	23.89	53.42	3	0	17.24	0	3.084	6.896	3	0	17.24	0	3.084	6.896
F. Cylichnidae																														
<i>Acteocina canaliculata</i>	1821	1965.36	2723.92	586.16	309	691	1810	1620.56	2999.76	827.52	371	829.5	917	793.04	1586.08	0	253.9	567.7	378	155.16	1448.16	0	241.3	539.5	1531	1603.32	2534.28	120.68	354.1	791.9
SEA SLUG																														
O. Nudibranchia																														
<i>O. nudibranchia</i>	0	0	0	0	0	0	0	0	0	0	0	0	14	0	68.96	0	12.34	27.58	0	0	0	0	0	0	0	0	0	0	0	0
CLAMS																														
Cl. Bivalvia																														
indeterminate	3	0	17.24	0	3.084	6.896	0	0	0	0	0	0	3	0	17.24	0	3.084	6.896	2	0	8.62	0	1.542	3.448	0	0	0	0	0	0
F. Arctiidae																														
<i>?Arctica islandica</i>	3	0	17.24	0	3.084	6.896	0	0	0	0	0	0	0	0	0	0	0	0	2	0	8.62	0	1.542	3.448	0	0	0	0	0	0
F. Cardiidae																														
<i>Cerastoderma pinnulatum</i>	69	86.2	103.44	17.24	16.17	36.16	14	17.24	34.48	0	5.77	12.9	214	68.96	758.56	0	125.8	281.3	0	0	0	0	0	0	0	0	0	0	0	0
F. Mactridae																														
<i>Mulinia lateralis</i>	21	17.24	51.72	0	8.991	20.11	90	86.2	155.16	34.48	17.17	38.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spisula solidissima</i>	1496	1551.6	2361.88	499.96	277.1	619.6	696	758.56	862	431	67.67	151.3	1131	1206.8	1999.84	275.84	298.3	667	757	758.56	1646.42	112.06	228	509.9	378	293.08	689.6	232.74	73.81	165
F. Myidae																														
<i>Mya arenaria</i>	331	362.04	534.44	189.64	56.11	125.5	286	310.32	379.28	172.4	37.01	82.75	217	206.88	344.8	137.92	32.93	73.63	12	17.24	17.24	0	3.084	6.896	0	0	0	0	0	0
F. Pandoridae																														
<i>Pandora gouldiana</i>	10	17.24	17.24	0	3.777	8.446	74	51.72	206.88	17.24	30.41	68.01	90	103.44	172.4	0	25.05	56.02	22	17.24	43.1	8.62	5.229	11.69	7	8.62	17.24	0	2.885	6.451
F. Solenidae																														
<i>Ensis directus</i>	45	34.48	103.44	17.24	14.3	31.98	34	34.48	68.96	0	10.9	24.38	272	327.56	413.76	68.96	54.39	121.6	147	17.24	629.26	8.62	108.4	242.4	60	68.96	103.44	8.62	15.42	34.48
F. Tellinidae																														
<i>Tellina agilis</i>	1872	2137.76	2258.44	930.96	217.8	487	1245	930.96	2551.52	517.2	316	706.5	1379	1413.68	2758.4	413.76	352.6	788.4	1393	525.82	4594.46	362.04	725.3	1622	764	758.56	1344.72	215.5	162	362.4
F. Veneridae																														
<i>Pitar morrhuanus</i>	7	0	17.24	0	3.777	8.446	10	17.24	17.24	0	3.777	8.446	0	0	0	0	0	0	12	0	43.1	0	7.554	16.89	0	0	0	0	0	0
P. Echinodermata																														
SAND DOLLARS																														
Cl. Echinoidea																														
F. Echinarachniidae																														
<i>Echinarachnius parma</i>	0	0	0	0	0	0	7	8.62	8.62	0	1.542	3.448	33	17.24	68.96	0	13.44	30.06	117	137.92	155.16	60.34	16.64	37.22	53	43.1	129.3	17.24	17.48	39.09
SEA CUCUMBERS																														
Cl. Holothuroidea																														
immature	0	0	0	0	0	0	3	0	17.24	0	3.084	6.896	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL NUMBER OF ORGANISMS	10118.2	11033.6	13309.28	3646.26	1504	3364	7218	6844.28	10516.4	5180.62	895.8	2003	16154	12300.74	40436.42	7292.52	5533	12371	7702.83	8430.36	14093.7	1542.98	2091	4676	5161.66	5421.98	9516.48	1620.56	1157	2587
TOTAL NUMBER OF TAXA*	34.2	34	37	32	0.912	2.04	30.2	30	32	28	0.593	1.327	31.2	33	34	25	1.453	3.25	31.2	30	40	24	2.848	6.369	26.2	27	29	24	0.867	1.939
SIMPSON'S EVENNESS	0.22999	0.233737	0.256483	0.19828	0.01	0.023	0.23	0.219983	0.294383	0.195177	0.015	0.034	0.2461	0.261683	0.31365	0.122452	0.03	0.067	0.16262	0.121845	0.277832	0.091662	0.031	0.07	0.25133	0.242142	0.379945	0.155682	0.032	0.072
SIMPSON'S DIVERSITY	0.87128	0.866303	0.894625	0.859536	0.006	0.013	0.85	0.849582	0.886769	0.834724	0.008	0.019	0.8543	0.863293	0.903386	0.759809	0.023	0.052	0.77316	0.776921	0.856028	0.705145	0.024	0.054	0.83749	0.842098	0.890335	0.778506	0.016	0.036
BRAY-CURTIS DISSIMILARITY (LOGAN'S POINT REFERENCE)	0.63663	0.615075	0.732329	0.588032	0.023	0.05	0.63	0.652916	0.731092	0.548204	0.03	0.066	0.6549	0.563253	0.881254	0.549536	0.059	0.132	0.49927	0.488	0.590581	0.410501	0.027	0.059	0.59248	0.586977	0.652903	0.54955	0.016	0.036
BRAY-CURTIS DISSIMILARITY (MERIGOMISH HARBOUR REFERENC	0.51665	0.525708	0.553949	0.481735	0.013	0.029	0.45	0.419207	0.525892	0.39469	0.021	0.048	0.5866	0.51671	0.935112	0.474286	0.078	0.175	0.64065	0.595604	0.77139	0.496115	0.05	0.111	0.28325	0.275	0.521246	0.112272	0.069	0.153

*Bold entries are not unique taxa and are excluded in the total number of taxa.

TABLE D.6 SUMMARY OF BENTHIC INVERTEBRATE COMMUNITY METRICS FOR SAMPLES COLLECTED AT NPNS - 2014

Effect Endpoint	Location	(n)	Mean	Median	Max	Min	SE	SD
Abundance ¹	Near Field	5	10118	11034	13309	3646.3	1504.5	3364.1
	Far Field	5	7218.4	6844.3	10516	5180.6	895.8	2003.1
	Far-Far Field	5	16154	12301	40436	7292.5	5532.6	12371
	LPR	5	7702.8	8430.4	14094	1543	2091.3	4676.2
	MHR	5	5161.7	5422	9516.5	1620.6	1157.2	2587.5
Number of Taxa ¹	Near Field	5	34.2	34	37	32	0.9121	2.0396
	Far Field	5	30.2	30	32	28	0.5933	1.3266
	Far-Far Field	5	31.2	33	34	25	1.4533	3.2496
	LPR	5	31.2	30	40	24	2.8482	6.3687
	MHR	5	26.2	27	29	24	0.8672	1.9391
Simpson's Evenness ¹	Near Field	5	0.23	0.2337	0.2565	0.1983	0.0103	0.0229
	Far Field	5	0.2286	0.22	0.2944	0.1952	0.0153	0.0342
	Far-Far Field	5	0.2461	0.2617	0.3136	0.1225	0.0302	0.0675
	LPR	5	0.1626	0.1218	0.2778	0.0917	0.0315	0.0703
	MHR	5	0.2513	0.2421	0.3799	0.1557	0.0323	0.0723
Simpson's Diversity	Near Field	5	0.8713	0.8663	0.8946	0.8595	0.0059	0.0131
	Far Field	5	0.8523	0.8496	0.8868	0.8347	0.0083	0.0185
	Far-Far Field	5	0.8543	0.8633	0.9034	0.7598	0.0231	0.0517
	LPR	5	0.7732	0.7769	0.856	0.7051	0.0241	0.0538
	MHR	5	0.8375	0.8421	0.8903	0.7785	0.0161	0.0359
Bray-Curtis LPR	Near Field	5	0.6366	0.6151	0.7323	0.588	0.0226	0.0504
	Far Field	5	0.632	0.6529	0.7311	0.5482	0.0297	0.0665
	Far-Far Field	5	0.6549	0.5633	0.8813	0.5495	0.059	0.1318
	LPR	5	0.4993	0.488	0.5906	0.4105	0.0265	0.0593
	MHR	5	0.5925	0.587	0.6529	0.5495	0.0159	0.0356
Bray-Curtis MHR ¹	Near Field	5	0.5166	0.5257	0.5539	0.4817	0.0131	0.0292
	Far Field	5	0.4472	0.4192	0.5259	0.3947	0.0215	0.048
	Far-Far Field	5	0.5866	0.5167	0.9351	0.4743	0.0784	0.1752
	LPR	5	0.6406	0.5956	0.7714	0.4961	0.0498	0.1113
	MHR	5	0.2832	0.275	0.5212	0.1123	0.0686	0.1533

¹ Denotes an EEM "effect parameter"

Note: This is the summary with Foraminiferida included

Table D.7: Summary Statistics for Benthic Macroinvertebrates Collected by Ponar for NPNS - Cycle 7 EEM (Densities Expressed as Percentage).

Area Station	Near Field					Far Field					Far-Far Field					Logan's Point Referenc					Merigomish Harbour Reference				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
<i>Unciola irrorata</i>	1.9%	0.0%	0.6%	0.3%	0.3%	0.3%	0.3%	0.0%	0.6%	0.0%	0.0%	0.0%	0.5%	0.0%	0.6%	0.0%	0.0%	0.4%	0.1%	0.0%	0.0%	0.0%	0.6%	0.5%	0.0%
F. Caprellidae																									
immature	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.5%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Corophiidae																									
<i>Corophium</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Lysianassidae																									
<i>Orchomenella minuta</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Psammonyx nobilis</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
F. Pontogeneiidae																									
<i>Pontogeneia inermis</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CUMACEANS																									
O. Cumacea																									
F. Bodotriidae																									
<i>Pseudoleptocuma minor</i>	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.5%	0.2%	0.3%	0.8%	1.1%	0.0%	0.2%	0.2%	1.3%	0.0%	0.3%	0.0%	2.4%
F. Diastylidae																									
<i>Oxyurostylis smithi</i>	0.5%	0.3%	0.5%	0.2%	0.0%	0.3%	0.0%	0.3%	0.4%	0.3%	0.2%	0.5%	0.0%	0.7%	0.3%	0.8%	1.1%	0.5%	1.4%	0.0%	5.1%	2.3%	2.2%	0.0%	0.4%
F. Lampropidae																									
<i>Lamprops quadruplicata</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.6%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
AQUATIC SOW BUGS																									
O. Isopoda																									
F. Idoteidae																									
<i>Chiridotea tuftsi</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%
<i>Edotea triloba</i>	0.5%	0.3%	0.0%	0.2%	0.3%	0.3%	0.3%	0.0%	0.2%	0.3%	0.2%	1.0%	0.0%	0.0%	0.0%	0.3%	0.6%	0.1%	0.2%	0.0%	0.0%	0.2%	0.0%	0.0%	0.4%
<i>Idotea phosphorea</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
OPOSSUM SHRIMPS																									
O. Mysidacea																									
<i>Neomysis americana</i>	0.5%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%
TANAID SHRIMPS																									
O. Tanaidacea																									
<i>immature</i>	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	1.2%	0.6%	0.5%	0.0%	0.0%	0.0%
CRABS and SHRIMP																									
O. Decapoda																									
immature	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.5%	0.3%	0.0%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.5%	0.2%
HERMIT CRABS																									
Superfamily Paguroidea																									
F. Paguridae																									
<i>Pagurus</i>	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.2%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
TRUE CRABS																									
Infraorder Brachyura																									
immature	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%
SHRIMPS																									
Infraorder Caridea																									
F. Crangonidae																									
<i>Crangon septemspinosa</i>	0.5%	0.4%	0.0%	0.0%	0.0%	0.7%	0.0%	0.3%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
MOLLUSCS																									
P. Mollusca																									
SNAILS																									
Cl. Gastropoda																									
F. Calyptraeidae																									
<i>Crepidula fornicata</i>	0.5%	0.1%	0.3%	0.2%	0.4%	0.0%	0.7%	1.0%	0.0%	0.3%	4.8%	11.5%	0.0%	0.0%	0.3%	0.0%	2.2%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%
F. Columbellidae																									
<i>Mitrella lunata</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.1%	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Haminoecidae																									
<i>Haminoea solitaria</i>	2.8%	20.6%	14.9%	2.0%	8.3%	0.3%	0.0%	0.8%	9.8%	8.9%	0.0%	0.0%	0.0%	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%	0.2%	0.3%	0.0%	0.7%
F. Nassariidae																									
<i>Nassarius trivittatus</i>	5.7%	0.9%	1.5%	1.9%	1.4%	4.9%	3.3%	2.3%	1.5%	4.6%	0.0%	4.2%	3.8%	2.3%	3.4%	0.8%	2.8%	0.1%	0.9%	0.6%	0.0%	1.8%	1.3%	4.3%	4.0%

Table D.7: Summary Statistics for Benthic Macroinvertebrates Collected by Ponar for NPNS - Cycle 7 EEM (Densities Expressed as Percentage).

Area Station	Near Field					Far Field					Far-Far Field					Logan's Point Referenc					Merigomish Harbour Reference				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
F. Naticidae																									
<i>Lunatia heros</i>	0.0%	0.7%	0.0%	0.2%	0.1%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	1.5%	0.0%	0.4%	0.2%	0.2%	0.0%	0.2%	0.6%	0.0%	2.0%
F. Pyramidellidae																									
<i>Boonea bisuturalis</i>	6.1%	0.1%	0.8%	2.2%	3.5%	4.2%	1.0%	1.0%	2.1%	2.3%	0.0%	1.6%	2.4%	3.9%	6.2%	1.5%	0.6%	0.5%	1.4%	0.0%	0.3%	0.0%	0.0%	0.5%	0.2%
<i>Odostomia trifida</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Turbonilla</i>	0.9%	0.0%	0.2%	0.6%	0.3%	0.3%	0.3%	0.0%	0.8%	0.3%	0.0%	1.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%	0.0%
F. Cylichnidae																									
<i>Acteocina canaliculata</i>	16.1%	16.4%	18.6%	24.7%	13.9%	20.6%	16.0%	23.7%	30.4%	28.5%	0.0%	12.1%	10.4%	10.4%	11.8%	4.6%	12.8%	0.6%	13.1%	0.0%	35.0%	39.4%	29.5%	7.4%	26.6%
SEA SLUG																									
<i>O. Nudibranchia</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CLAMS																									
Cl. Bivalvia																									
indeterminate	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Arctiidae																									
? <i>Arctica islandica</i>	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Cardiidae																									
<i>Cerastoderma pinnulatum</i>	0.5%	0.9%	0.3%	0.8%	0.8%	0.0%	0.3%	0.5%	0.2%	0.0%	1.9%	1.6%	0.0%	0.5%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Mactridae																									
<i>Mulinia lateralis</i>	0.0%	0.1%	0.0%	0.3%	0.4%	2.9%	1.7%	1.3%	1.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Spisula solidissima</i>	13.7%	15.3%	14.6%	11.3%	17.7%	14.4%	8.3%	9.3%	9.6%	8.2%	0.7%	3.7%	27.4%	15.9%	13.7%	48.7%	7.3%	5.7%	4.1%	9.0%	5.1%	18.1%	7.3%	14.4%	3.1%
F. Myidae																									
<i>Mya arenaria</i>	5.2%	1.7%	3.4%	3.3%	4.0%	5.9%	3.3%	3.0%	4.4%	3.6%	0.9%	1.0%	3.3%	2.0%	1.7%	0.3%	0.0%	0.1%	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Pandoridae																									
<i>Pandora gouldiana</i>	0.0%	0.1%	0.2%	0.2%	0.0%	1.1%	0.3%	0.5%	0.6%	2.0%	0.0%	0.5%	1.4%	1.4%	1.4%	0.8%	0.6%	0.1%	0.4%	0.2%	0.3%	0.2%	0.0%	0.5%	0.0%
F. Solenidae																									
<i>Ensis directus</i>	1.4%	0.9%	0.2%	0.2%	0.3%	0.3%	0.0%	0.8%	0.4%	0.7%	1.0%	1.6%	0.9%	4.3%	2.8%	0.3%	0.6%	0.5%	5.7%	0.2%	1.9%	2.3%	0.6%	0.5%	0.7%
F. Tellinidae																									
<i>Tellina agilis</i>	25.5%	17.9%	21.2%	17.0%	16.2%	17.6%	10.0%	12.6%	16.5%	24.3%	1.0%	21.0%	19.4%	11.3%	11.8%	15.6%	25.7%	7.7%	41.5%	4.3%	14.0%	17.2%	15.5%	13.3%	14.1%
F. Veneridae																									
<i>Pitar morrhuanus</i>	0.5%	0.1%	0.0%	0.0%	0.0%	0.0%	0.3%	0.3%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
P. Echinodermata																									
SAND DOLLARS																									
Cl. Echinoidea																									
F. Echinarachniidae																									
<i>Echinarachnius parma</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.0%	0.1%	0.1%	0.0%	0.5%	0.1%	0.2%	0.6%	1.8%	9.5%	1.1%	1.2%	1.0%	0.6%	1.1%	0.8%	8.0%	0.2%
SEA CUCUMBERS																									
Cl. Holothuroidea																									
immature	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
TOTAL NUMBER OF ORGANISMS	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

*Bold entries are not unique taxa and are excluded in the total number of taxa.

Table D.8: Summary Statistics for Benthic Macroinvertebrates Collected by Ponar for NPNS - Cycle 7 EEM (Densities Expressed Per Square Metre).

Area Station	Near Field						Far Field						Far-far Field						Logan's Point Reference						Merigomish Harbour Reference						
	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	
P. Sarcodina																															
O. Foraminiferida	4.8%	1.4%	17.8%	0.4%	3.0%	6.6%	11.9%	1.0%	30.0%	0.2%	6.3%	#####	2.8%	1.4%	11.0%	0.0%	1.9%	4.2%	0.2%	0.0%	0.8%	0.0%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
ROUNDWORMS																															
P. Nematoda	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.2%	0.0%	24.4%	0.0%	4.3%	9.6%	5.7%	0.2%	23.1%	0.0%	4.0%	8.9%	0.6%	0.5%	1.4%	0.0%	0.3%	0.6%	
FLATWORMS																															
P. Platyhelminthes																															
Cl. Turbellaria	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
O. Tricladida	0.1%	0.0%	0.5%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
UNSEGMENTED WORMS																															
P. Nemertea	0.2%	0.0%	0.9%	0.0%	0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.6%	0.0%	0.1%	0.3%	0.1%	0.0%	0.6%	0.0%	0.1%	0.2%	0.2%	0.0%	1.0%	0.0%	0.2%	0.4%	
P. Phoronida	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
P. Annelida																															
WORMS																															
Cl. Oligochaeta																															
F. Enchytraeidae	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	2.2%	0.0%	0.4%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
BRISTLE WORMS																															
Cl. Polychaeta (Errantia)																															
F. Dorvilleidae																															
<i>Parougia caeca</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.2%	0.0%	0.0%	0.1%	0.3%	0.1%	0.8%	0.0%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
F. Glyceridae																															
<i>Glycera dibranchiata</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	
<i>Glycera</i> immature	0.3%	0.2%	0.8%	0.1%	0.1%	0.3%	0.1%	0.0%	0.3%	0.0%	0.1%	0.1%	0.9%	0.9%	1.8%	0.0%	0.3%	0.6%	2.2%	1.4%	5.4%	0.0%	0.9%	2.1%	1.4%	1.3%	2.7%	0.5%	0.3%	0.8%	
F. Lumbrineridae																															
<i>Lumbrineris acuta</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.6%	0.0%	0.1%	0.2%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	
<i>Lumbrineris fragilis</i>	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.2%	0.0%	0.0%	0.1%	0.1%	0.0%	0.4%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
<i>Lumbrineris</i> immature	0.1%	0.1%	0.4%	0.0%	0.1%	0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.1%	0.0%	0.3%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
<i>Ninoe nigripes</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.2%	1.3%	0.0%	0.2%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
immature	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.6%	0.0%	0.1%	0.2%	
F. Nephtyidae																															
<i>Nephtys buccera</i>	0.4%	0.2%	1.0%	0.1%	0.2%	0.4%	0.3%	0.3%	0.5%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.1%	0.6%	0.0%	0.1%	0.3%	1.6%	1.6%	2.1%	0.7%	0.2%	0.5%	
<i>Nephtys caeca</i>	0.8%	0.5%	2.1%	0.0%	0.3%	0.7%	0.4%	0.4%	0.7%	0.0%	0.1%	0.2%	0.3%	0.2%	0.6%	0.0%	0.1%	0.2%	0.2%	0.0%	0.8%	0.0%	0.1%	0.3%	0.1%	0.0%	0.5%	0.0%	0.1%	0.2%	
<i>Nephtys</i> immature	0.3%	0.3%	0.5%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	0.5%	1.6%	0.0%	0.3%	0.6%	0.2%	0.2%	0.6%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
F. Nereidae																															
<i>Neanthes virens</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	
F. Pholoidae																															
<i>Pholoe tecta</i>	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.5%	1.4%	0.0%	0.2%	0.5%	0.1%	0.2%	0.4%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
<i>Pholoe longa</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.6%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
F. Phyllodoceidae																															
<i>Eteone foliosa</i>	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%	0.1%	0.1%	
<i>Eteone</i> immature	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
<i>Phyllodoce mucosa</i>	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
<i>Phyllodoce</i> immature	0.1%	0.0%	0.3%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.2%	0.8%	0.0%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.4%	1.0%	0.0%	0.2%	0.4%	
F. Polynoidae																															
<i>Harmothoe imbricata</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
<i>Lepidonotus squamatus</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	1.0%	0.0%	0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
F. Protodrilidae																															
<i>Protodriloides</i>	7.0%	7.6%	11.5%	1.9%	1.8%	4.0%	5.5%	4.6%	11.3%	2.0%	1.5%	3.3%	15.4%	9.5%	39.4%	5.2%	5.5%	#####	24.7%	20.7%	49.8%	6.6%	6.6%	#####	8.6%	10.3%	11.8%	2.3%	1.5%	3.4%	
F. Sigalionidae																															
<i>Sthenelais limicola</i>	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.2%	0.0%	0.0%	0.1%	0.2%	0.2%	0.3%	0.0%	0.1%	0.1%	0.1%	0.0%	0.5%	0.0%	0.1%	0.2%	
F. Syllidae																															
<i>Exogone</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.9%	0.0%	0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
<i>Streptosyllis</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.7%	0.0%	0.1%	0.3%	
indeterminate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	1.3%	0.0%	0.2%	0.5%	
Cl. Polychaeta (Sedentaria)																															
F. Ampharetidae																															
<i>Ampharete</i>	0.2%	0.3%	0.3%	0.0%	0																										

Table D.8: Summary Statistics for Benthic Macroinvertebrates Collected by Ponar for NPNS - Cycle 7 EEM (Densities Expressed Per Square Metre).

Area Station	Near Field						Far Field						Far-far Field						Logan's Point Reference						Merigomish Harbour Reference					
	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD
<i>Clymenella torquata</i>	1.5%	1.1%	2.7%	0.4%	0.4%	0.9%	1.1%	0.7%	1.9%	0.5%	0.3%	0.6%	2.1%	1.4%	4.2%	0.0%	0.7%	1.6%	0.4%	0.2%	1.0%	0.0%	0.2%	0.4%	12.7%	13.9%	22.1%	0.0%	3.7%	8.2%
F. Opheliidae																														
<i>Ophelia bicornis</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	1.8%	0.0%	0.3%	0.7%	0.3%	0.0%	1.6%	0.0%	0.3%	0.6%
F. Orbiniidae																														
<i>Leitoscoloplos</i>	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.5%	0.0%	0.1%	0.2%	0.8%	0.3%	2.2%	0.0%	0.4%	0.9%	0.8%	0.5%	2.7%	0.0%	0.4%	1.0%
<i>Scoloplos armiger</i>	1.8%	1.5%	3.6%	0.6%	0.4%	1.0%	1.8%	1.3%	3.3%	0.5%	0.4%	1.0%	0.3%	0.5%	0.6%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	2.9%	0.0%	0.5%	1.1%
F. Paraonidae																														
<i>Aricidea</i>	0.1%	0.0%	0.5%	0.0%	0.1%	0.2%	0.4%	0.3%	0.7%	0.2%	0.1%	0.2%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.2%	0.0%	0.6%	0.0%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Paraonis fulgens</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%	0.1%	0.1%	3.2%	0.5%	14.5%	0.0%	2.5%	5.6%	7.8%	0.1%	20.2%	0.0%	4.2%	9.5%	0.6%	0.3%	2.3%	0.0%	0.4%	0.8%
<i>Paraonis gracilis</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	1.5%	0.0%	0.3%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Pectinariidae																														
<i>Pectinaria gouldi</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Pectinaria</i> immature	0.5%	0.4%	0.9%	0.3%	0.1%	0.2%	0.3%	0.0%	0.7%	0.0%	0.1%	0.3%	0.8%	0.2%	3.1%	0.0%	0.5%	1.2%	0.3%	0.3%	0.6%	0.0%	0.1%	0.2%	0.2%	0.2%	0.5%	0.0%	0.1%	0.2%
F. Serpulidae																														
immature	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.9%	0.0%	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Spionidae																														
<i>Polydora quadrilobata</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Pygospio elegans</i>	1.9%	2.3%	3.8%	0.3%	0.6%	1.3%	2.1%	2.3%	3.6%	0.7%	0.5%	1.0%	0.2%	0.0%	0.6%	0.0%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Scolecopsis bousfieldi</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.5%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Scolecopsis squamata</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	2.3%	0.0%	0.4%	0.9%
<i>Spiofanus bombyx</i>	3.0%	3.0%	4.2%	1.4%	0.4%	1.0%	3.3%	3.5%	4.9%	2.3%	0.4%	1.0%	11.7%	12.8%	27.4%	0.0%	4.4%	9.8%	1.7%	0.4%	5.0%	0.0%	0.9%	2.0%	5.6%	5.4%	9.0%	2.3%	1.0%	2.3%
<i>Spio setosa</i>	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Spio</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
indeterminate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.6%	0.0%	0.1%	0.3%
F. Terebellidae																														
<i>Polycirrus</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ARTHROPODS																														
P. Arthropoda																														
MITES																														
Cl. Arachnida																														
Subcl. Acari	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SP. Crustacea																														
SEED SHRIMPS																														
Cl. Ostracoda	0.2%	0.0%	0.6%	0.0%	0.1%	0.2%	0.2%	0.3%	0.3%	0.0%	0.1%	0.2%	0.1%	0.0%	0.5%	0.0%	0.1%	0.2%	0.1%	0.0%	0.3%	0.0%	0.1%	0.1%	0.4%	0.4%	1.1%	0.0%	0.2%	0.4%
Cl. Malacostraca																														
WATER SCUDS																														
O. Amphipoda																														
indeterminate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.5%	0.0%	0.1%	0.2%	0.1%	0.0%	0.5%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Ampeliscidae																														
<i>Ampelisca</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.9%	0.0%	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Aoridae																														
<i>Unciola irrorata</i>	0.6%	0.3%	1.9%	0.0%	0.3%	0.7%	0.3%	0.3%	0.6%	0.0%	0.1%	0.2%	0.2%	0.0%	0.6%	0.0%	0.1%	0.3%	0.1%	0.0%	0.4%	0.0%	0.1%	0.1%	0.2%	0.0%	0.6%	0.0%	0.1%	0.3%
F. Caprellidae																														
immature	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.5%	0.0%	0.1%	0.3%	0.1%	0.0%	0.3%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Corophiidae																														
<i>Corophium</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	1.4%	0.0%	0.2%	0.5%	0.1%	0.0%	0.3%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Lysianassidae																														
<i>Orchomenella minuta</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Psammonyx nobilis</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.4%	0.0%	0.1%	0.1%
F. Pontogeneiidae																														
<i>Pontogeneia inermis</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CUMACEANS																														
O. Cumacea																														
F. Bodotriidae																														
<i>Pseudoleptocuma minor</i>	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.1%	0.0%	0.3%	0.0%	0.0%	0.1%	0.2%	0.2%	0.5%	0.0%	0.1%	0.2%	0.5%	0.2%	1.1%	0.0%	0.2%	0.4%	0.8%	0.3%	2.4%	0.0%	0.4%	0.9%
F. Diastylidae																														
<i>Oxyurostylis smithi</i>	0.3%	0.3%	0.5%	0.0%	0.1%	0.2%	0.3%	0.3%	0.4%	0.0%	0.1%	0.1%	0.3%	0.3%	0.7%	0.0%	0.1%	0.2%	0.8%	0.8%	1.4%	0.0%	0							

Table D.8: Summary Statistics for Benthic Macroinvertebrates Collected by Ponar for NPNS - Cycle 7 EEM (Densities Expressed Per Square Metre).

Area Station	Near Field						Far Field						Far-far Field						Logan's Point Reference						Merigomish Harbour Reference					
	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD	Mean	Median	Maximum	Minimum	SE	SD
O. Tanaidacea	0.1%	0.0%	0.6%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	1.2%	0.0%	0.2%	0.5%	0.2%	0.0%	0.6%	0.0%	0.1%	0.3%
CRABS and SHRIMP																														
O. Decapoda immature	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.3%	0.9%	0.0%	0.2%	0.4%	0.3%	0.0%	1.7%	0.0%	0.3%	0.7%	0.3%	0.2%	0.6%	0.0%	0.1%	0.3%
HERMIT CRABS																														
Superfamily Paguroidea																														
F. Paguridae																														
Pagurus	0.1%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.2%	0.0%	0.6%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
TRUE CRABS																														
Infraorder Brachyura immature	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.5%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.5%	0.0%	0.1%	0.2%
SHRIMPS																														
Infraorder Caridea																														
F. Crangonidae																														
Crangon septemspinosa	0.2%	0.0%	0.5%	0.0%	0.1%	0.2%	0.2%	0.2%	0.7%	0.0%	0.1%	0.2%	0.1%	0.0%	0.3%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
MOLLUSCS																														
P. Mollusca																														
SNAILS																														
Cl. Gastropoda																														
F. Calyptraeidae																														
Crepidula fornicata	0.3%	0.3%	0.5%	0.1%	0.1%	0.1%	0.4%	0.3%	1.0%	0.0%	0.2%	0.4%	3.3%	0.3%	11.5%	0.0%	2.0%	4.5%	0.5%	0.0%	2.2%	0.0%	0.4%	0.9%	0.1%	0.0%	0.5%	0.0%	0.1%	0.2%
F. Columbellidae																														
Mitrella lunata	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	0.0%	3.7%	0.0%	0.7%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Haminocidae																														
Haminoea solitaria	9.7%	8.3%	20.6%	2.0%	3.2%	7.1%	3.9%	0.8%	9.8%	0.0%	2.0%	4.4%	0.1%	0.0%	0.3%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.3%	1.0%	0.0%	0.2%	0.3%
F. Nassariidae																														
Nassarius trivittatus	2.3%	1.5%	5.7%	0.9%	0.8%	1.7%	3.3%	3.3%	4.9%	1.5%	0.6%	1.3%	2.7%	3.4%	4.2%	0.0%	0.7%	1.5%	1.0%	0.8%	2.8%	0.1%	0.4%	0.9%	2.3%	1.8%	4.3%	0.0%	0.7%	1.6%
F. Naticidae																														
Lunatia heros	0.2%	0.1%	0.7%	0.0%	0.1%	0.3%	0.1%	0.0%	0.3%	0.0%	0.1%	0.1%	0.1%	0.0%	0.5%	0.0%	0.1%	0.2%	0.5%	0.2%	1.5%	0.0%	0.2%	0.5%	0.6%	0.2%	2.0%	0.0%	0.3%	0.7%
F. Pyramidellidae																														
Boonea bisuturalis	2.6%	2.2%	6.1%	0.1%	1.0%	2.1%	2.1%	2.1%	4.2%	1.0%	0.5%	1.2%	2.8%	2.4%	6.2%	0.0%	0.9%	2.1%	0.8%	0.6%	1.5%	0.0%	0.3%	0.6%	0.2%	0.2%	0.5%	0.0%	0.1%	0.2%
Odostomia trifida	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Turbonilla	0.4%	0.3%	0.9%	0.0%	0.2%	0.3%	0.4%	0.3%	0.8%	0.0%	0.1%	0.3%	0.3%	0.0%	1.0%	0.0%	0.2%	0.4%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.2%	0.0%	1.1%	0.0%	0.2%	0.4%
F. Cylichnidae																														
Acteocina canaliculata	17.9%	16.4%	24.7%	13.9%	1.7%	3.7%	23.8%	23.7%	30.4%	16.0%	2.3%	5.2%	8.9%	10.4%	12.1%	0.0%	2.0%	4.5%	6.2%	4.6%	13.1%	0.0%	2.6%	5.7%	27.6%	29.5%	39.4%	7.4%	4.9%	#####
SEA SLUG																														
O. Nudibranchia	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CLAMS																														
Cl. Bivalvia																														
indeterminate	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Arctiidae																														
?Arctica islandica	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Cardiidae																														
Cerastoderma pinnulatum	0.6%	0.8%	0.9%	0.3%	0.1%	0.2%	0.2%	0.2%	0.5%	0.0%	0.1%	0.2%	0.9%	0.6%	1.9%	0.0%	0.3%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Mactridae																														
Mulinia lateralis	0.2%	0.1%	0.4%	0.0%	0.1%	0.2%	1.4%	1.3%	2.9%	0.3%	0.4%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Spisula solidissima	14.5%	14.6%	17.7%	11.3%	0.9%	2.1%	10.0%	9.3%	14.4%	8.2%	1.0%	2.3%	12.3%	13.7%	27.4%	0.7%	4.3%	9.5%	15.0%	7.3%	48.7%	4.1%	7.6%	#####	9.6%	7.3%	18.1%	3.1%	2.6%	5.7%
F. Myidae																														
Mya arenaria	3.5%	3.4%	5.2%	1.7%	0.5%	1.1%	4.0%	3.6%	5.9%	3.0%	0.5%	1.0%	1.8%	1.7%	3.3%	0.9%	0.4%	0.9%	0.1%	0.2%	0.3%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
F. Pandoridae																														
Pandora gouldiana	0.1%	0.1%	0.2%	0.0%	0.0%	0.1%	0.9%	0.6%	2.0%	0.3%	0.3%	0.6%	0.9%	1.4%	1.4%	0.0%	0.3%	0.6%	0.4%	0.4%	0.8%	0.1%	0.1%	0.2%	0.2%	0.2%	0.5%	0.0%	0.1%	0.2%
F. Solenidae																														
Ensis directus	0.6%	0.3%	1.4%	0.2%	0.2%	0.5%	0.4%	0.4%	0.8%	0.0%	0.1%	0.3%	2.1%	1.6%	4.3%	0.9%	0.6%	1.3%	1.4%	0.5%	5.7%	0.2%	1.0%	2.1%	1.2%	0.7%	2.3%	0.5%	0.3%	0.7%
F. Tellinidae																														
Tellina agilis	19.6%	17.9%	25.5%	16.2%	1.5%	3.4%	16.2%	16.5%	24.3%	10.0%	2.2%	4.9%	12.9%	11.8%	21.0%	1.0%	3.2%	7.1%	19.0%	15.6%	41.5%	4.3%	6.0%	#####	14.8%	14.1%	17.2%	13.3%	0.6%	1.4%
F. Veneridae																														
Pitar morrhuanus	0.1%	0.0%	0.5%	0.0%	0.1%	0.2%	0.2%	0.2%	0.3%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.4%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
P. Echinodermata																														
SAND DOLLARS																														
Cl. Echinoidea																														
F. Echinarachiidae																														
Echinarachiinus parma	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.2%	0.0%	0.0%	0.1%	0.3%	0.2%	0.6%	0.0%	0.1%	0.2%	2.9%	1.2%	9.5%	1.0%	1.5%	3.3%	2.1%	0.8%	8.0%	0.2%	1.3%	2.9%
SEA CUCUMBERS																														

Table D.9: Results of Variance Testing for Differences Between Reference and Exposure Areas (No Foraminiferida)

Logan's Point Reference

Abundance

Near-Field

Tests of Between-Subjects Effects

Dependent Variable: Abundance

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	8.958E+06	1	8.958E+06	0.442	0.525
Error	1.623E+08	8	2.028E+07		

Descriptive Statistics

Dependent Variable: Abundance

Area	Mean	Std. Deviation	N
Reference	7694	5231	5
Near-Field	9587	3634	5

Levene's Test for Homogeneity of Variance	Anderson-Darling Test for Normality - Reference	Anderson-Darling Test for Normality - Exposure	Magnitude (%)	Magnitude (reference standard deviation)
0.294	0.719	0.258	25	0.4

Far-Field

Tests of Between-Subjects Effects

Dependent Variable: Abundance

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	3.558E+06	1	3.558E+06	0.202	0.665
Error	1.408E+08	8	1.760E+07		

Descriptive Statistics

Dependent Variable: Abundance

Area	Mean	Std. Deviation	N
Reference	7694	5231	5
Far-Field	6501	2799	5

0.136	0.719	0.422	16	0.2
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Far-Far-Field

Tests of Between-Subjects Effects

Dependent Variable: Abundance (Log)

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	0.276	1	0.276	2.196	0.177
Error	1.007	8	0.126		

Descriptive Statistics

Dependent Variable: Abundance

Area	Mean	Std. Deviation	N
Reference	3.766	0.400	5
Far-Far-Field	4.099	0.302	5

0.310	0.416	0.097	115	0.8
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Merigomish Harbour Reference

Tests of Between-Subjects Effects

Dependent Variable: Abundance

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	16034600	1	16034600	0.898	0.371
Error	142920055	8	17865007		

Descriptive Statistics

Dependent Variable: Abundance

Area	Mean	Std. Deviation	N
Reference	7694	5231	5
MHR	5162	2893	5

0.132	0.719	0.520	33	0.5
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Richness

Near-Field

Independent Samples Test - Richness

t-test for Equality of Means - Equal variances not assumed						
t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Confidence Interval of the Difference	
					Lower	Upper
-0.802	4.887	0.460	-2.600	3.240	-10.988	5.788

Descriptive Statistics

Dependent Variable: Richness

Area	Mean	Std. Deviation	N
Reference	30.8	6.9	5
Near-Field	33.4	2.3	5

0.010	0.313	0.270	8	0.4
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Far-Field

Independent Samples Test - Richness

t-test for Equality of Means - Equal variances not assumed						
t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Confidence Interval of the Difference	
					Lower	Upper
0.509	4.372	0.635	1.600	3.143	-6.842	10.042

Descriptive Statistics

Dependent Variable: Richness

Area	Mean	Std. Deviation	N
Reference	30.8	6.9	5
Far-Field	29.2	1.5	5

0.003	0.313	0.566	5	0.2
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Far-Far-Field

Independent Samples Test - Richness

t-test for Equality of Means - Equal variances not assumed						
t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Confidence Interval of the Difference	
					Lower	Upper
0.058	5.882	0.955	0.200	3.435	-8.246	8.646

Descriptive Statistics

Dependent Variable: Richness

Area	Mean	Std. Deviation	N
Reference	30.8	6.9	5
Far-Far-Field	30.6	3.4	5

0.048	0.313	0.237	1	0.0
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Merigomish Harbour Reference

Independent Samples Test - Richness

t-test for Equality of Means - Equal variances not assumed						
t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Confidence Interval of the Difference	
					Lower	Upper
1.428	4.789	0.215	4.600	3.222	-3.793	12.993

Descriptive Statistics

Dependent Variable: Richness

Area	Mean	Std. Deviation	N
Reference	30.8	6.9	5
MHR	26.2	2.2	5

0.008	0.313	0.230	15	0.7
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Evenness

Near-Field

Independent Samples Test - Evenness

t-test for Equality of Means - Equal variances not assumed						
t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Confidence Interval of the Difference	
					Lower	Upper

Descriptive Statistics

Dependent Variable: Evenness

Area	Mean	Std. Deviation	N
Reference	0.164	0.078	5

0.029	0.247	0.527	37	0.8
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Table D.9: Results of Variance Testing for Differences Between Reference and Exposure Areas (No Foraminiferida)

-1.631	5.211	0.161	-0.061	0.037	-0.156	0.034	Near-Field	0.225	0.031	5
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Far-Field

Tests of Between-Subjects Effects

Dependent Variable:Evenness

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	0.016	1	0.016	4.173	0.075
Error	0.031	8	0.004		

Descriptive Statistics

Dependent Variable:Evenness

Area	Mean	Std. Deviation	N
Reference	0.164	0.078	5
Near-Field	0.245	0.042	5

0.093 0.247 0.275 49 1.0

Far-Far-Field

Tests of Between-Subjects Effects

Dependent Variable:Evenness

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	0.015	1	0.015	2.759	0.135
Error	0.045	8	0.006		

Descriptive Statistics

Dependent Variable:Evenness

Area	Mean	Std. Deviation	N
Reference	0.164	0.078	5
Far-Far-Field	0.242	0.072	5

0.585 0.247 0.207 48 1.0

Merigomish Harbour Reference

Tests of Between-Subjects Effects

Dependent Variable:Evenness

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	0.019	1	0.019	3.055	0.119
Error	0.050	8	0.006		

Descriptive Statistics

Dependent Variable:Evenness

Area	Mean	Std. Deviation	N
Reference	0.164	0.078	5
MHR	0.251	0.081	5

0.671 0.247 0.141 54 1.1

Merigomish Harbour Reference

Tests of Between-Subjects Effects

Dependent Variable:Evenness

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	0.004	1	0.004	0.868	0.387
Error	0.029	6	0.005		

Descriptive Statistics

Dependent Variable:Evenness

Area	Mean	Std. Deviation	N
Reference	0.164	0.078	5
MHR	0.211	0.048	3

0.209 0.247 0.134 29 0.6

Removed extreme outliers MHR-2 and MHR-4

Simpson's Diversity

Near-Field

Tests of Between-Subjects Effects

Dependent Variable:Simpson's Diversity

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	0.021	1	0.021	10.548	0.012
Error	0.016	8	0.002		

Descriptive Statistics

Dependent Variable:Simpson's Div

Area	Mean	Std. Deviation	N
Reference	0.772	0.061	5
Near-Field	0.865	0.018	5

0.050 0.820 0.871 12 1.5

Far-Field

Tests of Between-Subjects Effects

Dependent Variable:Simpson's Diversity

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	0.018	1	0.018	8.392	0.020
Error	0.017	8	0.002		

Descriptive Statistics

Dependent Variable:Simpson's Div

Area	Mean	Std. Deviation	N
Reference	0.772	0.061	5
Far-Field	0.857	0.023	5

0.093 0.820 0.369 11 1.4

Far-Far-Field

Tests of Between-Subjects Effects

Dependent Variable:Simpson's Diversity

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	0.015	1	0.015	4.576	0.065
Error	0.027	8	0.003		

Descriptive Statistics

Dependent Variable:Simpson's Div

Area	Mean	Std. Deviation	N
Reference	0.772	0.061	5
Far-Field	0.851	0.055	5

0.683 0.820 0.102 10 1.3

Merigomish Harbour Reference

Tests of Between-Subjects Effects

Dependent Variable:Simpson's Diversity

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	0.011	1	0.011	3.999	0.081
Error	0.021	8	0.003		

Descriptive Statistics

Dependent Variable:Simpson's Div

Area	Mean	Std. Deviation	N
Reference	0.772	0.061	5
Far-Field	0.837	0.040	5

0.310 0.820 0.616 8 1.1

Bray-Curtis Dissimilarity

Near-Field

Tests of Between-Subjects Effects

Dependent Variable:Bray-Curtis (LPR)

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	0.040	1	0.040	12.809	0.007
Error	0.025	8	0.003		

Descriptive Statistics

Dependent Variable:Simpson's Div

Area	Mean	Std. Deviation	N
Reference	0.499	0.067	5
Near-Field	0.625	0.042	5

0.425 0.825 0.209 25 1.9

Far-Field

Tests of Between-Subjects Effects

Descriptive Statistics

Table D.9: Results of Variance Testing for Differences Between Reference and Exposure Areas (No Foraminiferida)

Dependent Variable:Bray-Curtis (LPR)

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	0.025	1	0.025	3.569	0.096
Error	0.056	8	0.007		

Far-Far-Field

Tests of Between-Subjects Effects

Dependent Variable:Bray-Curtis (LPR)

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	0.056	1	0.056	4.293	0.072
Error	0.104	8	0.013		

Merigomish Harbour Reference

Tests of Between-Subjects Effects

Dependent Variable:Bray-Curtis (LPR)

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Area	0.022	1	0.022	7.239	0.027
Error	0.024	8	0.003		

Dependent Variable:Bray-Curtis (Lf)

Area	Mean	Std. Deviation	N
Reference	0.499	0.067	5
Far-Field	0.598	0.097	5

0.386 0.825 0.928 20 1.5

Descriptive Statistics

Dependent Variable:Bray-Curtis (Lf)

Area	Mean	Std. Deviation	N
Reference	0.499	0.067	5
Far-Far-Field	0.648	0.146	5

0.093 0.825 0.069 30 2.2

Descriptive Statistics

Dependent Variable:Bray-Curtis (Lf)

Area	Mean	Std. Deviation	N
Reference	0.499	0.067	5
Far-Far-Field	0.592	0.040	5

0.379 0.825 0.512 19 1.4

Appendix E FISH SURVEY DATA

TABLE E.1: SUMMARY OF SIGNIFICANT RESPONSES IN BOAT HARBOUR BLUE MUSSELS¹

Endpoint	vs. Caribou	vs. Merigomish
Survival % survival	NE ²	NE
Growth whole animal wet weight (incremental increase)	NE ³	NE ³
Energy reserves condition factor	↑	↑
Reproduction GSI	↓	↓

¹ Direction of significant response (increase or decrease) is noted by the direction of the arrow and pertains to Boat Harbour mussels

² NE is 'no effect'

³ a significant increase ($p < 0.05$) in growth at Station 4 at Boat Harbour was detected but the magnitude of the difference was $< 10\%$

TABLE E.2: SUMMARY OF FISH COLLECTIONS DATA AND SUPPORTING MEASURES DURING THE 2002 ENVIRONMENT CANADA STUDY

Site	Date	Effort¹	Fish collected	Oxygen %	Salinity	Water temp (°C)
Caribou	May 15, 2002	3	945	>100	33	10
Merigomish	May 16, 2002	0.5	2263	>100	17	14
Boat Harbour	May 15 to 22, 2002	18	59	<81	3 to 5	13 to 17

¹ number of beach seine hauls

TABLE E.3: SUMMARY OF SIGNIFICANT RESPONSES IN BOAT HARBOUR MUMMICHOGS¹

Endpoint	Male fish		Female fish	
	vs. Caribou	vs. Merigomish	vs. Caribou	vs. Merigomish
Survival				
Age (yrs)	↓	↓	↓	↓
Growth				
body weight at age	NE ²	NE	NE	NE
length at age	NE	NE	NE	NE
Energy reserves				
condition factor	NE	NE	NE	NE
HSI	↑	↑	↑	↑
Reproduction				
GSI	NE	NE	↑	↑

¹ Direction of significant response (increase or decrease) is noted by the direction of the arrow and pertains to Boat Harbour fish

² NE is "no effect"

TABLE E.4: COMPARISON OF EEM EFFECT ENDPOINTS FOR FISH AND MUSSELS FOR THE 2002 ENVIRONMENT CANADA STUDY

Endpoint	Fish	Mussel
Survival	↓	NE ¹
Growth	NE	NE
Energy reserves		
CF	NE	↑
HSI	↑	No HSI
Reproduction		
GSI	↑(female); NE (male)	↓

¹ NE is 'no effect'

TABLE E.5: RANKING OF THE MUSSEL SAMPLING SITES BY STRESS CATEGORIES (Source: St.-Jean, 2002)

Stress Category	Site	Points
1	Malgash – Reference 21 points	21
2	Logan Point	44
3	MacKenzie Head	83
	West River	83
4	Boat Harbour	97
	Monroe Island **	99
	New Glasgow*	99
5	Middle River*	105
	ERPAS	107
	Mussel Point	111
6	Power Plant	119
7	Dry Dock*	127
8	Light House	147
9	Pictou sewage	166

* position estimated based on two years of data;

**position estimated based on one year of data

TABLE E.6: PARTIAL RANKING OF THE FISH SAMPLING SITES BY STRESS CATEGORIES
(Source: St.-Jean, 2002)

Category	Site	Points
1	Caribou (reference)	9
2	ERPAS	27
3	Power Plant	31
	Boat Harbour	36
	West River	38
4	Camp Ground	40

TABLE E.7: FREQUENCY OF NECROSIS IN MUMMICHOG LIVERS IN LOCATIONS IN AND AROUND PICTOU

(Source: St.-Jean, 2002)

Site	Number of fish/site	Necrosis frequency (%)
Caribou	15	46.7
Power Plant	15	66.6
ERPAS	15	73.3
Boat Harbour	15	66.6

Table E.8: Fish Data for Cycle 7 EEM Study - Northern Pulp Nova Scotia

Location: Exposure Area - Boat Harbour Estuary
Species: Mummichog
Sex: Male

Fish I.D.	Total Length (cm)	Age (yrs)	Body Weight (g)	Gonad Weight (g)	Liver Weight (g)	Condition Factor	Weight_g	Weight_gl	Gonad Somatic Index	Liver Somatic Index
BH-1	11.0	5	20.199	0.31	0.882	1.5	19.9	19.0	1.6	4.6
BH-2	10.1	3	13.569	0.254	0.473	1.3	13.3	12.8	1.9	3.7
BH-3	9.9	3	13.357	0.268	0.605	1.4	13.1	12.5	2.0	4.8
BH-5	9.7	3	13.348	0.231	0.41	1.5	13.1	12.7	1.8	3.2
BH-7	9.4	3	10.996	0.336	0.416	1.3	10.7	10.2	3.2	4.1
BH-8	9.0	2	10.897	0.094	0.305	1.5	10.8	10.5	0.9	2.9
BH-9	8.6	2	8.032	0.18	0.312	1.3	7.9	7.5	2.3	4.1
BH-10	9.0	2	8.953	0.095	0.237	1.2	8.9	8.6	1.1	2.7
BH-11	9.0	3	9.841	0.159	0.424	1.3	9.7	9.3	1.6	4.6
BH-12	8.9	2	9.236	0.172	0.370	1.3	9.1	8.7	1.9	4.3
BH-14	9.1	2	9.149	0.193	0.372	1.2	9.0	8.6	2.2	4.3
BH-15	9.4	2	9.710	0.153	0.377	1.2	9.6	9.2	1.6	4.1
BH-16	8.7	2	8.988	0.136	0.567	1.4	8.9	8.3	1.5	6.8
BH-20	11.3	3	18.133	0.197	0.627	1.3	17.9	17.3	1.1	3.6
BH-21	11.5	5	20.528	0.200	0.795	1.3	20.3	19.5	1.0	4.1
BH-23	11.9	4	21.686	0.410	0.787	1.3	21.3	20.5	1.9	3.8
BH-25	11.1	3	17.944	0.238	0.466	1.3	17.7	17.2	1.3	2.7
BH-28	9.9	3	13.776	0.281	0.672	1.4	13.5	12.8	2.1	5.2
BH-30	11.4	3	20.566	0.332	0.796	1.4	20.2	19.4	1.6	4.1
BH-32	10.7	3	15.863	0.335	0.722	1.3	15.5	14.8	2.2	4.9
BH-34	10.2	3	14.174	0.286	0.773	1.3	13.9	13.1	2.1	5.9
BH-37	9.3	3	11.162	0.278	0.552	1.4	10.9	10.3	2.6	5.3
BH-39	10.4	3	15.235	0.325	0.632	1.4	14.9	14.3	2.2	4.4
BH-40	9.5	3	10.964	0.2896	0.491	1.3	10.7	10.2	2.7	4.8
BH-43	9.9	3	13.021	0.342	0.59	1.3	12.7	12.1	2.7	4.9
Sample Size	25	25	25	25	25	25	25	25	25	25
Mean	10.0	2.9	13.573	0.244	0.546	1.3	13.3	12.8	1.9	4.3
Median	9.9	3.0	13.348	0.254	0.552	1.3	13.1	12.5	1.9	4.3
Minimum	8.6	2.0	8.032	0.094	0.237	1.2	7.9	7.5	0.9	2.7
Maximum	11.9	5.0	21.686	0.410	0.882	1.5	21.3	20.5	3.2	6.8
Standard Deviation	1.0	0.8	4.111	0.082	0.176	0.1	4.1	3.9	0.6	0.9
Standard Error	0.2	0.2	0.822	0.016	0.035	0.0	0.8	0.8	0.1	0.2

Immature fish (Imm) are not included for calculations of mean, standard error, minimum, maximum, standard deviation and sample size

Table E.9: Fish Data for Cycle 7 EEM Study - Northern Pulp Nova Scotia

Location: Reference Area - Little Lake
 Species: Mummichog
 Sex: Male

Fish I.D.	Total Length (cm)	Age (yrs)	Body Weight (g)	Gonad Weight (g)	Liver Weight (g)	Condition Factor	Weight_g	Weight_gl	Gonad Somatic Index	Liver Somatic Index
LL9	8.5	2	8.474	0.158	0.184	1.4	8.3	8.1	1.9	2.3
LL10	8.4	2	8.507	0.096	0.213	1.4	8.4	8.2	1.1	2.6
LL16	8.2	2	7.003	0.114	0.154	1.3	6.9	6.7	1.7	2.3
LL26	8.3	2	7.609	0.102	0.309	1.3	7.5	7.2	1.4	4.3
LL30	8.8	2	8.496	0.100	0.147	1.2	8.4	8.2	1.2	1.8
LL31	8.4	2	8.316	0.156	0.157	1.4	8.2	8.0	1.9	2.0
LL32	8.3	2	7.222	0.106	0.151	1.3	7.1	7.0	1.5	2.2
LL33	8.2	2	6.882	0.085	0.128	1.2	6.8	6.7	1.3	1.9
LL34	8.3	2	7.239	0.098	0.131	1.3	7.1	7.0	1.4	1.9
LL35	7.9	2	6.927	0.114	0.198	1.4	6.8	6.6	1.7	3.0
LL36	8.4	2	7.002	0.091	0.105	1.2	6.9	6.8	1.3	1.5
LL37	8.1	3	6.348	0.117	0.156	1.2	6.2	6.1	1.9	2.6
LL38	8.0	2	6.528	0.135	0.109	1.3	6.4	6.3	2.1	1.7
LL39	8.1	2	6.936	0.079	0.117	1.3	6.9	6.7	1.2	1.7
LL40	8.0	2	6.549	0.126	0.114	1.3	6.4	6.3	2.0	1.8
LL41	8.6	2	7.918	0.102	0.136	1.2	7.8	7.7	1.3	1.8
LL42	8.1	2	7.519	0.153	0.153	1.4	7.4	7.2	2.1	2.1
LL43	8.4	2	7.742	0.133	0.141	1.3	7.6	7.5	1.7	1.9
LL44	8.4	2	6.674	0.105	0.107	1.1	6.6	6.5	1.6	1.7
LL45	8.0	2	6.990	0.104	0.095	1.4	6.9	6.8	1.5	1.4
LL46	8.1	2	6.543	0.104	0.117	1.2	6.4	6.3	1.6	1.9
LL47	8.1	2	6.863	0.125	0.097	1.3	6.7	6.6	1.9	1.5
LL48	7.5	2	5.535	0.095	0.097	1.3	5.4	5.3	1.7	1.8
LL49	8.3	2	7.336	0.107	0.127	1.3	7.2	7.1	1.5	1.8
LL50	8.4	2	7.478	0.128	0.132	1.3	7.4	7.2	1.7	1.8
Sample Size	25	25	25	25	25	25	25	25	25	25
Mean	8.2	2.0	7.225	0.113	0.143	1.3	7.1	7.0	1.6	2.0
Median	8.3	2.0	7.003	0.106	0.132	1.3	6.9	6.8	1.6	1.9
Minimum	7.5	2.0	5.535	0.079	0.095	1.1	5.4	5.3	1.1	1.4
Maximum	8.8	3.0	8.507	0.158	0.309	1.4	8.4	8.2	2.1	4.3
Standard Deviation	0.3	0.2	0.721	0.021	0.045	0.1	0.7	0.7	0.3	0.6
Standard Error	0.1	0.0	0.144	0.004	0.009	0.0	0.1	0.1	0.1	0.1

Immature fish (Imm) are not included for calculations of mean, standard error, minimum, maximum, standard deviation and sample size

Table E.10: Fish Data for Cycle 7 EEM Study - Northern Pulp Nova Scotia

Location: Exposure Area - Boat Harbour Estuary
Species: Mummichog
Sex: Female

Fish I.D.	Total Length (cm)	Age (yrs)	Body Weight (g)	Gonad Weight (g)	Liver Weight (g)	Condition Factor	Weight_g	Weight_gl	Gonad Somatic Index	Liver Somatic Index
BH1	14.7	4	41.095	1.089	1.367	1.3	40.0	38.6	2.7	3.5
BH3	12.7	5	23.881	0.948	1.116	1.2	22.9	21.8	4.1	5.1
BH4	11.6	5	21.940	0.886	1.152	1.4	21.1	19.9	4.2	5.8
BH5	11.5	3	19.092	0.854	0.903	1.3	18.2	17.3	4.7	5.2
BH6	11.7	3	21.227	0.68	1.051	1.3	20.5	19.5	3.3	5.4
BH7	11.1	5	18.462	0.63	0.885	1.3	17.8	16.9	3.5	5.2
BH8	11.1	3	18.097	0.483	0.643	1.3	17.6	17.0	2.7	3.8
BH9	11.2	3	18.221	0.665	1.509	1.3	17.6	16.0	3.8	9.4
BH10	10.4	2	13.601	0.518	0.665	1.2	13.1	12.4	4.0	5.4
BH11	12.3	5	26.400	1.232	2.0000	1.4	25.2	23.2	4.9	8.6
BH14	9.8	3	13.475	0.479	0.666	1.4	13.0	12.3	3.7	5.4
BH15	9.6	3	11.794	0.385	0.792	1.3	11.4	10.6	3.4	7.5
BH17	10.3	3	14.725	0.642	1.101	1.3	14.1	13.0	4.6	8.5
BH18	9.7	3	12.161	0.429	0.668	1.3	11.7	11.1	3.7	6.0
BH19	9.6	2	12.796	0.431	0.763	1.4	12.4	11.6	3.5	6.6
BH20	9.7	2	11.953	0.414	0.56	1.3	11.5	11.0	3.6	5.1
BH21	9.9	3	13.364	0.585	0.894	1.4	12.8	11.9	4.6	7.5
BH22	10.0	2	12.576	0.436	0.628	1.3	12.1	11.5	3.6	5.5
BH23	9.1	3	10.495	0.353	0.638	1.4	10.1	9.5	3.5	6.7
BH26	9.3	2	10.873	0.431	0.542	1.4	10.4	9.9	4.1	5.5
BH27	9.0	2	9.685	0.321	0.446	1.3	9.4	8.9	3.4	5.0
BH28	9.1	3	9.536	0.347	0.45	1.3	9.2	8.7	3.8	5.1
BH39	11.1	3	18.957	0.675	0.955	1.4	18.3	17.3	3.7	5.5
BH40	12.0	4	23.672	0.808	1.392	1.4	22.9	21.5	3.5	6.5
BH41	11.6	5	21.999	0.909	1.11	1.4	21.1	20.0	4.3	5.6
Sample Size	25	25	25	25	25	25	25	25	25	25
Mean	10.7	3.2	17.203	0.625	0.916	1.3	16.6	15.7	3.8	6.0
Median	10.4	3.0	14.725	0.585	0.885	1.3	14.1	13.0	3.7	5.5
Minimum	9.0	2.0	9.536	0.321	0.446	1.2	9.2	8.7	2.7	3.5
Maximum	14.7	5.0	41.095	1.232	2.000	1.4	40.0	38.6	4.9	9.4
Standard Deviation	1.3	1.0	6.884	0.243	0.364	0.1	6.7	6.4	0.5	1.4
Standard Error	0.3	0.2	1.377	0.049	0.073	0.0	1.3	1.3	0.1	0.3

Table E.11: Fish Data for Cycle 7 EEM Study - Northern Pulp Nova Scotia

Location: Reference Area - Little Lake
Species: Mummichog
Sex: Female

Fish I.D.	Total Length (cm)	Age (yrs)	Body Weight (g)	Gonad Weight (g)	Liver Weight (g)	Condition Factor	Weight_g	Weight_gl	Gonad Somatic Index	Liver Somatic Index
LL1	8.6	2	8.769	0.331	0.216	1.4	8.4	8.2	3.9	2.6
LL2	9.6	3	11.703	0.362	0.304	1.3	11.3	11.0	3.2	2.8
LL3	9.3	3	10.402	0.218	0.216	1.3	10.2	10.0	2.1	2.2
LL4	8.7	2	10.309	0.301	0.238	1.6	10.0	9.8	3.0	2.4
LL5	9.2	2	9.891	0.306	0.306	1.3	9.6	9.3	3.2	3.3
LL6	9.7	2	12.536	0.497	0.407	1.4	12.0	11.6	4.1	3.5
LL7	8.9	2	9.925	0.266	0.348	1.4	9.7	9.3	2.8	3.7
LL8	9.9	3	13.414	0.306	0.337	1.4	13.1	12.8	2.3	2.6
LL11	10.3	3	14.536	0.718	0.461	1.3	13.8	13.4	5.2	3.5
LL12	10.1	3	14.272	0.409	0.443	1.4	13.9	13.4	3.0	3.3
LL13	9.1	2	10.986	0.393	0.494	1.5	10.6	10.1	3.7	4.9
LL14	8.6	2	9.421	0.349	0.304	1.5	9.1	8.8	3.8	3.5
LL15	8.6	2	9.374	0.279	0.369	1.5	9.1	8.7	3.1	4.2
LL17	10.2	3	12.784	0.267	0.321	1.2	12.5	12.2	2.1	2.6
LL18	9.0	2	9.288		0.204	1.3	9.3	9.1	0.0	2.2
LL19	9.6	3	11.394	0.234	0.307	1.3	11.2	10.9	2.1	2.8
LL20	9.1	3	10.848	0.334	0.329	1.4	10.5	10.2	3.2	3.2
LL21	9.1	2	10.537	0.336	0.366	1.4	10.2	9.8	3.3	3.7
LL22	9.6	2	10.990	0.504	0.348	1.2	10.5	10.1	4.8	3.4
LL23	9.3	2	10.378	0.398	0.323	1.3	10.0	9.7	4.0	3.3
LL24	8.9	3	9.037	0.342	0.272	1.3	8.7	8.4	3.9	3.2
LL25	9.6	2	11.182	0.375	0.36	1.3	10.8	10.4	3.5	3.4
LL27	8.9	2	9.400	0.448	0.314	1.3	9.0	8.6	5.0	3.6
LL28	9.4	2	10.306	0.305	0.259	1.2	10.0	9.7	3.0	2.7
LL29	8.9	2	9.315	0.338	0.245	1.3	9.0	8.7	3.8	2.8
Sample Size	25	25	25	24	25	25	25	25	25	25
Mean	9.3	2.4	10.8	0.4	0.3	1.3	10.5	10.2	3.3	3.2
Median	9.2	2.0	10.4	0.3	0.3	1.3	10.2	9.8	3.2	3.3
Minimum	8.6	2.0	8.8	0.2	0.2	1.2	8.4	8.2	0.0	2.2
Maximum	10.3	3.0	14.5	0.7	0.5	1.6	13.9	13.4	5.2	4.9
Standard Deviation	0.5	0.5	1.6	0.1	0.1	0.1	1.5	1.5	1.1	0.6
Standard Error	0.1	0.1	0.3	0.0	0.0	0.0	0.3	0.3	0.2	0.1

Table E.12: Fish Measurements at Boat Harbour - August 2014

Date	GearID	Sex	Total Length (cm)	Body Weight (g)	Condition	Liver Weight (g)	Comments	Date	GearID	Sex	Total Length (cm)	Body Weight (g)	Condition	Liver Weight (g)	Comments
23-Aug-14	Trapnet		3.9	0.824	1.4			23-Aug-14	BHSEINE1		3.8		0.0		
23-Aug-14	Trapnet		3.4	0.582	1.5			23-Aug-14	BHSEINE1		3.5	0.635	1.5		
23-Aug-14	Trapnet		3.3	0.49	1.4			23-Aug-14	BHSEINE1		2.8	0.334	1.5		
23-Aug-14	Trapnet		3.2	0.387	1.2			23-Aug-14	BHSEINE1		3.5	0.695	1.6		
23-Aug-14	Trapnet		3.7	0.609	1.2			23-Aug-14	BHSEINE1		3.1	0.471	1.6		
23-Aug-14	Trapnet		3.1	0.354	1.2			23-Aug-14	BHSEINE1	F	7.3	5.536	1.4		
23-Aug-14	Trapnet		3.0	0.362	1.3			23-Aug-14	BHSEINE1		2.2	0.148	1.4		no clip
23-Aug-14	Trapnet		3.3	0.478	1.3			23-Aug-14	BHSEINE1		3.9	0.852	1.4		
23-Aug-14	Trapnet		4.9	1.534	1.3			23-Aug-14	BHSEINE1		3.2	0.504	1.5		
23-Aug-14	Trapnet		4.4	1.178	1.4			23-Aug-14	BHSEINE1		3.7	0.765	1.5		
23-Aug-14	Trapnet		3.9	0.748	1.3			23-Aug-14	BHSEINE1		2.2	0.165	1.5		no clip
23-Aug-14	Trapnet		3.9	0.778	1.3			23-Aug-14	BHSEINE1		2.9	0.363	1.5		
23-Aug-14	Trapnet		3.3	0.481	1.3			23-Aug-14	BHSEINE1		5.7	1.546	0.8		
23-Aug-14	Trapnet		3.4	0.531	1.4			23-Aug-14	BHSEINE1		3.8	0.748	1.4		
23-Aug-14	Trapnet		3.3	0.472	1.3			23-Aug-14	BHSEINE1		3.7	0.749	1.5		
23-Aug-14	Trapnet		3.9	0.869	1.5			23-Aug-14	BHSEINE1		3.1	0.426	1.4		
23-Aug-14	Trapnet		3.1	0.376	1.3			23-Aug-14	BHSEINE1		3.3	0.525	1.5		
23-Aug-14	Trapnet		3.6	0.61	1.3			23-Aug-14	BHSEINE1		3.7	0.685	1.4		
23-Aug-14	Trapnet		6.3	3.491	1.4			23-Aug-14	BHSEINE1		3.8	0.742	1.4		
23-Aug-14	Trapnet		3.9	0.713	1.2			23-Aug-14	BHSEINE1		3.6	0.641	1.4		
23-Aug-14	Trapnet		3.6	0.596	1.3			23-Aug-14	BHSEINE1		3.9	0.888	1.5		
23-Aug-14	Trapnet		3.3	0.456	1.3			23-Aug-14	BHSEINE1		3.1	0.395	1.3		
23-Aug-14	Trapnet		3.6	0.593	1.3			23-Aug-14	BHSEINE1		3.8	0.749	1.4		
23-Aug-14	Trapnet		3.4	0.507	1.3			23-Aug-14	BHSEINE1		3.8	0.742	1.4		
23-Aug-14	Trapnet		3.4	0.475	1.2			23-Aug-14	BHSEINE1		3.8	0.808	1.5		
23-Aug-14	Trapnet		3.6	0.574	1.2			23-Aug-14	BHSEINE1		3.6	0.739	1.6		
23-Aug-14	Trapnet		3.7	0.657	1.3			23-Aug-14	BHSEINE1		4.1	0.998	1.4		
23-Aug-14	Trapnet		4.3	0.904	1.1			23-Aug-14	BHSEINE1		3.6	0.672	1.4		
23-Aug-14	Trapnet		4.0	0.819	1.3			23-Aug-14	BHSEINE1		4.1	0.917	1.3		
23-Aug-14	Trapnet		3.2	0.481	1.5			23-Aug-14	BHSEINE1		3.8	0.784	1.4		
23-Aug-14	Trapnet		4.7	1.259	1.2			23-Aug-14	BHSEINE1		3.8	0.776	1.4		
23-Aug-14	Trapnet		3.9	0.838	1.4			23-Aug-14	BHSEINE1		3.4	0.603	1.5		
23-Aug-14	Trapnet		6.8	4.199	1.3			23-Aug-14	BHSEINE1		3.2	0.437	1.3		
23-Aug-14	Trapnet		4.0	0.855	1.3			23-Aug-14	BHSEINE1		4.0	0.894	1.4		
23-Aug-14	Trapnet		3.4	0.503	1.3			23-Aug-14	BHSEINE1		3.5	0.661	1.5		
23-Aug-14	Trapnet		3.6	0.651	1.4			23-Aug-14	BHSEINE1		2.9	0.392	1.6		
23-Aug-14	Trapnet		2.7	0.259	1.3			23-Aug-14	BHSEINE1		3.8	0.748	1.4		
23-Aug-14	Trapnet		6.7	3.568	1.2			23-Aug-14	BHSEINE1		3.9	0.849	1.4		
23-Aug-14	Trapnet		8.7	9.268	1.4			23-Aug-14	BHSEINE1		2.9	0.401	1.6		
23-Aug-14	Trapnet	M	8.8	8.918	1.3			23-Aug-14	BHSEINE1		2.7	0.264	1.3		
23-Aug-14	Trapnet		3.5	0.591	1.4			23-Aug-14	BHSEINE1		2.9	0.396	1.6		
23-Aug-14	Trapnet		9.6	12.605	1.4			23-Aug-14	BHSEINE1		2.5	0.232	1.5		
23-Aug-14	Trapnet		3.1	0.415	1.4			23-Aug-14	BHSEINE1		2.4	0.218	1.6		
23-Aug-14	Trapnet		3.7	0.64	1.3			23-Aug-14	BHSEINE1		2.3	0.196	1.6		no clip
23-Aug-14	Trapnet	F	7.8	5.907	1.2			23-Aug-14	BHSEINE1		2.6	0.244	1.4		no clip
23-Aug-14	Trapnet		3.8	0.799	1.5			23-Aug-14	BHSEINE1		2.1	0.129	1.4		
23-Aug-14	Trapnet		3.7	0.66	1.3			23-Aug-14	BHSEINE1		1.7	0.09	1.8		
23-Aug-14	Trapnet		2.9	0.324	1.3			23-Aug-14	BHSEINE1		2.4	0.253	1.8		
23-Aug-14	Trapnet		3.9	0.773	1.3			23-Aug-14	BHSEINE1		4.3	0.1252	0.2		
23-Aug-14	Trapnet		3.7	0.696	1.4			23-Aug-14	BHSEINE1		2.6	0.281	1.6		no clip
23-Aug-14	Trapnet		3.2	0.459	1.4			23-Aug-14	BHSEINE1		2.5	0.243	1.6		no clip
23-Aug-14	Trapnet		3.7	0.746	1.5			23-Aug-14	BHSEINE1		4.3	1.333	1.7		
23-Aug-14	Trapnet		3.3	0.448	1.2			23-Aug-14	BHSEINE1		2.8	0.326	1.5		no clip
23-Aug-14	Trapnet		3.1	0.4	1.3			23-Aug-14	BHSEINE1		2.1	0.174	1.9		no clip
23-Aug-14	Trapnet		3.8	0.801	1.5			23-Aug-14	BHSEINE1		6.9	4.495	1.4		
23-Aug-14	Trapnet		3.4	0.561	1.4			23-Aug-14	BHSEINE1		4.4	1.356	1.6		
23-Aug-14	Trapnet		3.6	0.602	1.3			23-Aug-14	BHSEINE1		5.2	2.046	1.5		
23-Aug-14	Trapnet		3.6	0.595	1.3			23-Aug-14	BHSEINE1		4.8	1.623	1.5		
23-Aug-14	Trapnet		4.1	0.821	1.2			23-Aug-14	BHSEINE1		6.9	4.823	1.5		
23-Aug-14	Trapnet		3.7	0.673	1.3			23-Aug-14	BHSEINE1		2.6	0.222	1.3		no clip
23-Aug-14	Trapnet		3.7	0.667	1.3			23-Aug-14	BHSEINE1		2.9	0.365	1.5		no clip
23-Aug-14	Trapnet		3.9	0.73	1.2			23-Aug-14	BHSEINE1		6.9	4.839	1.5		
23-Aug-14	Trapnet		3.9	0.82	1.4			23-Aug-14	BHSEINE1		4.8	1.532	1.4		
23-Aug-14	Trapnet		3.7	0.724	1.4			23-Aug-14	BHSEINE1		5.3	2.054	1.4		
23-Aug-14	Trapnet		4.0	0.785	1.2			23-Aug-14	BHSEINE1		5.2	1.996	1.4		
23-Aug-14	Trapnet		3.9	0.791	1.3			23-Aug-14	BHSEINE1		7.6	5.665	1.3		

Table E.12: Fish Measurements at Boat Harbour - August 2014

Date	GearID	Sex	Total Length (cm)	Body Weight (g)	Condition	Liver Weight (g)	Comments	Date	GearID	Sex	Total Length (cm)	Body Weight (g)	Condition	Liver Weight (g)	Comments
23-Aug-14	Trapnet		3.7	0.661	1.3			23-Aug-14	BHSEINE1		2.6	0.224	1.3		no clip
23-Aug-14	Trapnet		4.0	0.864	1.4			23-Aug-14	BHSEINE1		2.5	0.21	1.3		no clip
23-Aug-14	Trapnet		3.5	0.588	1.4			23-Aug-14	BHSEINE1		1.9	0.104	1.5		no clip
23-Aug-14	Trapnet		3.6	0.619	1.3			23-Aug-14	BHSEINE1		1.9	0.128	1.9		no clip
23-Aug-14	Trapnet		3.6	0.64	1.4			23-Aug-14	BHSEINE1		5.2	2.072	1.5		
23-Aug-14	Trapnet	M	6.3	3.34	1.3			23-Aug-14	BHSEINE1		5.1	1.756	1.3		
23-Aug-14	Trapnet		3.2	0.447	1.4			23-Aug-14	BHSEINE1		2.4	0.226	1.6		no clip
23-Aug-14	Trapnet	M	6.8	4.056	1.3			23-Aug-14	BHSEINE1		2.0	0.111	1.4		
23-Aug-14	Trapnet	F	7.3	5.422	1.4			23-Aug-14	BHSEINE1		2.0	0.122	1.5		
23-Aug-14	Trapnet		3.4	0.581	1.5			23-Aug-14	BHSEINE1		1.9	0.125	1.8		
23-Aug-14	Trapnet		3.1	0.396	1.3			23-Aug-14	BHSEINE1		5.4	2.281	1.4		
23-Aug-14	Trapnet	M	10.3	15.084	1.4			23-Aug-14	BHSEINE1		5.0	1.728	1.4		
23-Aug-14	Trapnet	M	9.0	11.186	1.5			23-Aug-14	BHSEINE1		5.8	1.715	0.9		
23-Aug-14	Trapnet		3.3	0.536	1.5			23-Aug-14	BHSEINE1		4.9	1.856	1.6		
23-Aug-14	Trapnet		3.7	0.703	1.4			23-Aug-14	BHSEINE1		4.9	1.687	1.4		
23-Aug-14	Trapnet	F	7.8	6.189	1.3		lesion left pectoral fin	23-Aug-14	BHSEINE1	F	7.2	4.995	1.3		
23-Aug-14	Trapnet		4.0	0.831	1.3			23-Aug-14	BHSEINE1		4.8	1.612	1.5		
23-Aug-14	Trapnet		3.9	0.795	1.3			23-Aug-14	BHSEINE1		4.9	1.737	1.5		
23-Aug-14	Trapnet		3.7	0.699	1.4			23-Aug-14	BHSEINE1		7.7	5.89	1.3		previously left clipped
23-Aug-14	Trapnet		5.2	1.698	1.2			23-Aug-14	BHSEINE1		7.3	6.145	1.6		
23-Aug-14	Trapnet		3.6	0.582	1.2			23-Aug-14	BHSEINE1	M	7.7	6.688	1.5		
23-Aug-14	Trapnet		4.4	1.208	1.4			23-Aug-14	BHSEINE1	F	7.6	6.636	1.5		
23-Aug-14	Trapnet		3.9	0.776	1.3			23-Aug-14	BHSEINE1		4.7	1.507	1.5		
23-Aug-14	Trapnet		3.7	0.694	1.4			23-Aug-14	BHSEINE1		5.0	1.789	1.4		
23-Aug-14	Trapnet		2.9	0.357	1.5			23-Aug-14	BHSEINE1	M	7.1	5.193	1.5		
23-Aug-14	Trapnet		3.7	0.689	1.4			23-Aug-14	BHSEINE1	F	6.8	4.137	1.3		
23-Aug-14	Trapnet		3.3	0.504	1.4			23-Aug-14	BHSEINE1	M	9.8	12.86	1.4		
23-Aug-14	Trapnet		3.2	0.427	1.3			23-Aug-14	BHSEINE1	F	7.2	5.32	1.4		
23-Aug-14	Trapnet		3.8	0.723	1.3			23-Aug-14	BHSEINE1	F	7.1	5.341	1.5		
23-Aug-14	Trapnet		3.9	0.767	1.3			23-Aug-14	BHSEINE1	M	7.5	6.232	1.5		
23-Aug-14	Trapnet	M	7.6	5.785	1.3			23-Aug-14	BHSEINE1	F	5.1	1.848	1.4		
23-Aug-14	Trapnet	M	6.6	3.747	1.3			23-Aug-14	BHSEINE1	M	6.4	3.872	1.5		
23-Aug-14	Trapnet	F	7.7	5.667	1.2			23-Aug-14	BHSEINE1	F	9.8	13.541	1.4		
23-Aug-14	Trapnet		4.8	1.458	1.3			23-Aug-14	BHSEINE1	M	9.8	13.563	1.4		
23-Aug-14	Trapnet	F	7.6	6.239	1.4			23-Aug-14	BHSEINE1	F	7.4	6.621	1.6		
23-Aug-14	Trapnet		3.7	0.691	1.4			23-Aug-14	BHSEINE1	F	7.2	5.397	1.4		
23-Aug-14	Trapnet	M	8.1	5.939	1.1			23-Aug-14	BHSEINE1	F	8.0	7.394	1.4		
23-Aug-14	Trapnet	F	8.1	7.298	1.4			23-Aug-14	BHSEINE1	M	6.7	4.608	1.5		
23-Aug-14	Trapnet		4.0	0.896	1.4			23-Aug-14	BHSEINE1	M	7.5	6.607	1.6		
23-Aug-14	Trapnet		3.2	0.47	1.4			23-Aug-14	BHSEINE1	M	7.4	5.936	1.5		
23-Aug-14	Trapnet	F	6.9	4.408	1.3			23-Aug-14	BHSEINE1		5.4	2.247	1.4		
23-Aug-14	Trapnet		3.7	0.697	1.4			23-Aug-14	BHSEINE1		4.7	1.672	1.6		
23-Aug-14	Trapnet		3.6	0.667	1.4			23-Aug-14	BHSEINE1	F	7.2	5.535	1.5		
23-Aug-14	Trapnet		3.5	0.639	1.5			23-Aug-14	BHSEINE1	M	7.3	6.170	1.6		
23-Aug-14	Trapnet	F	7.7	5.939	1.3			23-Aug-14	BHSEINE1	M	6.2	3.483	1.5		
23-Aug-14	Trapnet		3.5	0.615	1.4			23-Aug-14	BHSEINE1	F	7.3	5.625	1.4		
23-Aug-14	Trapnet		3.2	0.438	1.3			23-Aug-14	BHSEINE1	M	6.7	4.163	1.4		
23-Aug-14	Trapnet		3.7	0.679	1.3			23-Aug-14	BHSEINE1	F	4.9	1.825	1.6		
23-Aug-14	Trapnet		3.5	0.596	1.4			23-Aug-14	BHSEINE1	M	11.4	18.249	1.2	0.500	Fish 10
23-Aug-14	Trapnet		3.5	0.579	1.4			23-Aug-14	BHSEINE1	M	9.4	10.801	1.3	0.321	Fish 11
23-Aug-14	Trapnet		3.7	0.643	1.3			23-Aug-14	BHSEINE1	F	10.1	12.843	1.2	0.473	Fish 12
23-Aug-14	Trapnet		3.5	0.611	1.4			23-Aug-14	BHSEINE1		5.3	1.88	1.3		
23-Aug-14	Trapnet		3.8	0.704	1.3			23-Aug-14	BHSEINE1	M	7.1	4.619	1.3		
23-Aug-14	Trapnet		7.9	6.46	1.3			23-Aug-14	BHSEINE1	M	7.2	5.344	1.4		
23-Aug-14	Trapnet	M	7.4	5.131	1.3			23-Aug-14	BHSEINE1	M	7.5	5.516	1.3		
23-Aug-14	Trapnet	M	6.6	3.808	1.3			23-Aug-14	BHSEINE1	F	11.7	22.838	1.4	0.725	FISH 20
23-Aug-14	Trapnet		3.7	0.784	1.5			23-Aug-14	BHSEINE1	F	7.3	5.563	1.4	0.202	FISH 21
23-Aug-14	Trapnet		3.9	0.792	1.3			23-Aug-14	BH SEINE 2		5.7	1.6	0.9		
23-Aug-14	Trapnet		3.2	0.518	1.6			23-Aug-14	BH SEINE 2		4.7	1.344	1.3		
23-Aug-14	Trapnet	M	2.9	0.376	1.5			23-Aug-14	BH SEINE 2	F	9.3	11.551	1.4		
23-Aug-14	Trapnet	M	7.0	4.675	1.4			23-Aug-14	BH SEINE 2	M	8.2	8.869	1.6		
23-Aug-14	Trapnet	M	7.3	5.031	1.3			23-Aug-14	BH SEINE 2	F	9.2	10.19	1.3		
23-Aug-14	Trapnet		7.6	5.785	1.3			23-Aug-14	BH SEINE 2	M	7	5.379	1.6		
23-Aug-14	Trapnet		3.9	0.783	1.3			23-Aug-14	BH SEINE 2	F	6.9	4.775	1.5		

Table E.12: Fish Measurements at Boat Harbour - August 2014

Date	GearID	Sex	Total Length (cm)	Body Weight (g)	Condition	Liver Weight (g)	Comments	Date	GearID	Sex	Total Length (cm)	Body Weight (g)	Condition	Liver Weight (g)	Comments
23-Aug-14	Trapnet		3.9	0.878	1.5			23-Aug-14	BH SEINE 2		4.8	1.597	1.4		
23-Aug-14	Trapnet		4.2	0.975	1.3			23-Aug-14	BH SEINE 2		5	1.865	1.5		
23-Aug-14	Trapnet	M	3.0	0.343	1.3			23-Aug-14	BH SEINE 2	M	6.8	4.741	1.5		
23-Aug-14	Trapnet		10.1	13.497	1.3			23-Aug-14	BH SEINE 2		4.2	1.108	1.5		
23-Aug-14	Trapnet		3.9	0.741	1.2			24-Aug-14	BH SEINE 3	M	8	7.093	1.4		
23-Aug-14	Trapnet		4.0	0.886	1.4			24-Aug-14	BH SEINE 3	M	7.2	5.712	1.5		
23-Aug-14	Trapnet		4.0	0.879	1.4			24-Aug-14	BH SEINE 3		5.3	1.953	1.3		
23-Aug-14	Trapnet		4.4	1.245	1.5			24-Aug-14	BH SEINE 3	M	7.4	5.716	1.4		
23-Aug-14	Trapnet		3.9	0.785	1.3			24-Aug-14	BH SEINE 3	M	8.4	7.62	1.3		RECAP THIS OR LAST YR
23-Aug-14	Trapnet		3.1	0.404	1.4			24-Aug-14	BH SEINE 3	F	8	7.518	1.5		
23-Aug-14	Trapnet		3.9	0.723	1.2			24-Aug-14	BH SEINE 3	M	8.5	9.155	1.5		
23-Aug-14	Trapnet		2.8	0.326	1.5			24-Aug-14	BH SEINE 3	M	8.7	9.578	1.5		
23-Aug-14	Trapnet		4.1	0.849	1.2			24-Aug-14	BH SEINE 3	M	7.6	7.032	1.6		
23-Aug-14	Trapnet		3.7	0.693	1.4			24-Aug-14	BH SEINE 3	F	7.5	6.183	1.5		
23-Aug-14	Trapnet		3.6	0.745	1.6			24-Aug-14	BH SEINE 3	F	7.7	6.678	1.5		
23-Aug-14	Trapnet		3.9	0.664	1.1			24-Aug-14	BH SEINE 3	M	7.4	5.693	1.4		
23-Aug-14	Trapnet		3.3	0.478	1.3			24-Aug-14	BH SEINE 3	F	7.1	5.01	1.4		
23-Aug-14	Trapnet		4.0	0.731	1.1			24-Aug-14	BH SEINE 3	M	7.9	7.514	1.5		
23-Aug-14	Trapnet	M	6.9	3.73	1.1			24-Aug-14	BH SEINE 3	M	8.3	8.47	1.5		RECAPTURE THIS OR LAST YEAR
23-Aug-14	Trapnet	M	5.2	1.949	1.4			24-Aug-14	BH SEINE 3	M	7.8	6.719	1.4		
23-Aug-14	Trapnet	M	11.4	20.414	1.4			24-Aug-14	BH SEINE 3	F	7.2	5.078	1.4		
23-Aug-14	Trapnet	F	8.0	7.11	1.4			24-Aug-14	BH SEINE 3		6.7	4.233	1.4		
23-Aug-14	Trapnet	M	9.8	13.867	1.5			24-Aug-14	BH SEINE 3		5.6	2.465	1.4		
23-Aug-14	Trapnet		3.6	0.643	1.4			24-Aug-14	BH SEINE 3	M	7	5.013	1.5		
23-Aug-14	Trapnet		5.2	2.106	1.5			24-Aug-14	BH SEINE 3	M	10.2	16.358	1.5		
23-Aug-14	Trapnet	F	8.4	7.742	1.3			24-Aug-14	BH SEINE 3	M	9.8	13.575	1.4		
23-Aug-14	Trapnet	M	11.0	18.238	1.4			24-Aug-14	BH SEINE 3	F	7	4.505	1.3		
23-Aug-14	Trapnet		3.7	0.677	1.3			24-Aug-14	BH SEINE 3	M	8.8	9.399	1.4		
23-Aug-14	Trapnet		6.3	3.485	1.4			24-Aug-14	BH SEINE 3	F	7.7	6.03	1.3		
23-Aug-14	Trapnet		5.8	2.611	1.3			24-Aug-14	BH SEINE 3	F	7.1	5.304	1.5		
23-Aug-14	Trapnet		3.6	0.714	1.5			24-Aug-14	BH SEINE 3	F	8	6.616	1.3		
23-Aug-14	Trapnet		3.5	0.588	1.4			24-Aug-14	BH SEINE 3	M	6.7	4.186	1.4		
23-Aug-14	Trapnet	F	7.7	6.057	1.3			24-Aug-14	BH SEINE 3	M	7.1	4.985	1.4		
23-Aug-14	Trapnet		3.4	0.574	1.5			24-Aug-14	BH SEINE 3	M	6.4	3.450	1.3		
23-Aug-14	Trapnet	F	6.6	3.827	1.3			24-Aug-14	BH SEINE 3		5.4	2.289	1.5		
23-Aug-14	Trapnet		4.1	0.966	1.4			24-Aug-14	BH SEINE 3	M	6.8	4.788	1.5		
23-Aug-14	Trapnet		3.3	0.461	1.3			24-Aug-14	BH SEINE 3	F	7.6	6.876	1.6		
23-Aug-14	Trapnet		3.4	0.589	1.5			24-Aug-14	BH SEINE 3	M	7.4	6.188	1.5		
23-Aug-14	Trapnet	F	10.9	17.697	1.4			24-Aug-14	BH SEINE 3	M	7.2	5.845	1.6		
23-Aug-14	Trapnet		3.4	0.589	1.5			24-Aug-14	BH SEINE 3	F	7.3	5.39	1.4		
23-Aug-14	Trapnet	M	10.8	18.48	1.5			24-Aug-14	BH SEINE 3	M	7.2	5.812	1.6		
23-Aug-14	Trapnet	F	7.9	5.958	1.2			24-Aug-14	BH SEINE 3	F	8.2	8.536	1.5		
23-Aug-14	Trapnet	F	7.9	6.4	1.3			24-Aug-14	BH SEINE 3	F	7.2	4.913	1.3		
23-Aug-14	Trapnet	M	8.9	9.644	1.4			24-Aug-14	BH SEINE 3	F	6.9	4.897	1.5		
23-Aug-14	Trapnet	M	9.0	10.57	1.4			24-Aug-14	BH SEINE 3	F	8	7.873	1.5		
23-Aug-14	Trapnet		4.1	0.855	1.2			24-Aug-14	BH SEINE 3	M	7.4	5.487	1.4		
23-Aug-14	Trapnet	M	6.9	4.382	1.3			24-Aug-14	BH SEINE 3	M	8.8	9.952	1.5		
23-Aug-14	Trapnet	M	6.7	3.974	1.3			24-Aug-14	BH SEINE 3	F	7.6	6.976	1.6		
23-Aug-14	Trapnet	M	8.1	7.772	1.5			24-Aug-14	BH SEINE 3	M	8.5	10.054	1.6		
23-Aug-14	Trapnet		3.6	0.636	1.4			24-Aug-14	BH SEINE 3	M	9.8		0.0		
23-Aug-14	Trapnet	F	7.5	5.572	1.3			24-Aug-14	BH SEINE 3	M	7.6	6.449	1.5		
23-Aug-14	Trapnet		3.8	0.753	1.4			24-Aug-14	BH SEINE 3	M	6.7	5.301	1.8		
23-Aug-14	Trapnet	F	7.5	5.46	1.3			24-Aug-14	BH SEINE 3	F	7.6	6.776	1.5		
23-Aug-14	Trapnet		3.2	0.458	1.4			24-Aug-14	BH SEINE 3	M	7.7	6.817	1.5		
23-Aug-14	Trapnet		4.7	1.294	1.2			24-Aug-14	BH SEINE 3	M	7.6	6.48	1.5		
23-Aug-14	Trapnet		3.3	0.486	1.4			24-Aug-14	BH SEINE 3	F	8.9	11.044	1.6		
23-Aug-14	Trapnet		3.8	0.741	1.4			24-Aug-14	BH SEINE 3	F	11.5	19.388	1.3		
23-Aug-14	Trapnet		3.7	0.697	1.4			24-Aug-14	BH SEINE 3	F	7.3	6.035	1.6		
23-Aug-14	Trapnet		4.8	1.523	1.4			24-Aug-14	BH SEINE 3	F	6.8	4.465	1.4		
23-Aug-14	Trapnet		3.8	0.747	1.4			24-Aug-14	BH SEINE 3	F	7.7	6.546	1.4		
23-Aug-14	Trapnet		3.7	0.672	1.3			24-Aug-14	BH SEINE 3		6.8	4.12	1.3		
23-Aug-14	Trapnet		3.5	0.604	1.4			24-Aug-14	BH SEINE 3	F	7	5.028	1.5		
23-Aug-14	Trapnet		3.6	0.648	1.4			24-Aug-14	BH SEINE 3	M	7.7	6.731	1.5		

Table E.12: Fish Measurements at Boat Harbour - August 2014

Date	GearID	Sex	Total Length (cm)	Body Weight (g)	Condition	Liver Weight (g)	Comments	Date	GearID	Sex	Total Length (cm)	Body Weight (g)	Condition	Liver Weight (g)	Comments
23-Aug-14	Trapnet		3.2	0.463	1.4			24-Aug-14	BH SEINE 3	F	7.4	6.273	1.5		
23-Aug-14	Trapnet		2.8	0.286	1.3			24-Aug-14	BH SEINE 3	M	6.8	4.138	1.3		
23-Aug-14	Trapnet		4.9	1.583	1.3			24-Aug-14	BH SEINE 3	M	9.6	13.562	1.5		
23-Aug-14	Trapnet		3.9	0.718	1.2			24-Aug-14	BH SEINE 3	M	9.5	12.785	1.5		
23-Aug-14	Trapnet		4.0	0.868	1.4			24-Aug-14	BH SEINE 3	M	7.3	5.999	1.5		
23-Aug-14	Trapnet		3.6	0.575	1.2			24-Aug-14	BH SEINE 3	M	7.8	6.658	1.4		
23-Aug-14	Trapnet	F	8.2	7.398	1.3			24-Aug-14	BH SEINE 3	M	8.7	10.219	1.6		
23-Aug-14	Trapnet		4.2	1.051	1.4			24-Aug-14	BH SEINE 3	F	7.4	5.987	1.5		
23-Aug-14	Trapnet		3.6	0.629	1.3			24-Aug-14	BH SEINE 3	F	11.2	19.103	1.4		
23-Aug-14	Trapnet		3.8	0.666	1.2			24-Aug-14	BH SEINE 3	M	7.1	4.94	1.4		
23-Aug-14	Trapnet		4.0	0.813	1.3			24-Aug-14	BH SEINE 3	M	7.8	6.785	1.4		
23-Aug-14	Trapnet		3.0	0.332	1.2			24-Aug-14	BH SEINE 3	M	6.6	4.221	1.5		
23-Aug-14	Trapnet		3.0	0.38	1.4			24-Aug-14	BH SEINE 3	M	9.9	13.78	1.4		
23-Aug-14	Trapnet		3.8	0.687	1.3			24-Aug-14	BH SEINE 3	F	8.8	9.755	1.4		
23-Aug-14	Trapnet		3.6	0.671	1.4			24-Aug-14	BH SEINE 3	M	7	5.352	1.6		
23-Aug-14	Trapnet	F	11.7	25.932	1.6	0.717	Fish 1 for lipid and glycogen	24-Aug-14	BH SEINE 3	F	7.2	5.464	1.5		
23-Aug-14	Trapnet	F	10.1	13.119	1.3	0.419	Fish 2 for lipid and glycogen	24-Aug-14	BH SEINE 3	F	9.6	14.451	1.6		
23-Aug-14	Trapnet	M	8.9	9.466	1.3	0.316	Fish 3	24-Aug-14	BH SEINE 3	M	8.3	7.919	1.4		
23-Aug-14	Trapnet	M	8.3	6.943	1.2	0.204	Fish 4	24-Aug-14	BH SEINE 3	M	6.9	5.222	1.6		
23-Aug-14	Trapnet	M	7.6	5.821	1.3	0.214	Fish 6	24-Aug-14	BH SEINE 3	F	9.6	13.124	1.5		
23-Aug-14	Trapnet	M	6.9	4.483	1.4	0.120	Fish 7	24-Aug-14	BH SEINE 3	F	8.6	8.585	1.3		
23-Aug-14	Trapnet	F	7.1	4.305	1.2	0.114	Fish 8	24-Aug-14	BH SEINE 3	M	8.3	9.028	1.6		
23-Aug-14	Trapnet	M	6.5	3.41	1.2	0.099	Fish 9	24-Aug-14	BH SEINE 3		4.9	2.097	1.8		SCOLIOSIS
23-Aug-14	Trapnet		6.7	3.701	1.2			24-Aug-14	BH SEINE 3	M	6.9	4.755	1.4		
23-Aug-14	Trapnet	F	9.8	13.984	1.5	0.530	Fish 13	24-Aug-14	BH SEINE 3	M	7.1	5.101	1.4		
23-Aug-14	Trapnet	F	9.6	11.684	1.3	0.347	Fish 14	24-Aug-14	BH SEINE 3	F	7.8	6.832	1.4		
23-Aug-14	Trapnet	F	8.2	7.538	1.4	0.391	Fish 15	24-Aug-14	BH SEINE 3	M	7.6	6.508	1.5		
23-Aug-14	Trapnet	M	11.4	21.38	1.4		Fish 16	24-Aug-14	BH SEINE 3	M	7.7	6.45	1.4		
23-Aug-14	Trapnet	F	8.9	9.132	1.3	0.282	Fish 17	24-Aug-14	BH SEINE 3	M	9.7	12.714	1.4		
23-Aug-14	Trapnet	M	9.8	13.197	1.4	0.406	Fish 18	24-Aug-14	BH SEINE 3	M	7.1	5.086	1.4		
23-Aug-14	Trapnet	F	6.7	3.431	1.1	0.102	Fish 19	24-Aug-14	BH SEINE 3	M	6.8	5.1	1.6		
24-Aug-14	Trapnet	M	8.9	9.701	1.4			24-Aug-14	BH SEINE 3	M	7.6	6.309	1.4		
24-Aug-14	Trapnet	M	7.8	6.463	1.4			24-Aug-14	BH SEINE 3	M	7.7	7.235	1.6		
24-Aug-14	Trapnet	M	7.8	6.812	1.4			24-Aug-14	BH SEINE 3	M	8.1	8.414	1.6		
24-Aug-14	Trapnet	M	9.0	8.931	1.2			24-Aug-14	BH SEINE 3	M	10.1	15.932	1.5		
24-Aug-14	Trapnet	M	8.4	7.465	1.3			24-Aug-14	BH SEINE 3	F	7.8	7.241	1.5		
24-Aug-14	Trapnet	F	7.6	5.936	1.4			24-Aug-14	BH SEINE 3	M	6.8	5.089	1.6		
24-Aug-14	Trapnet	M	6.9	4.364	1.3			24-Aug-14	BH SEINE 3	M	7.7	6.691	1.5		
24-Aug-14	Trapnet	M	7.2	5.243	1.4			24-Aug-14	BH SEINE 3	M	10.3	15.37	1.4		
24-Aug-14	Trapnet	F	7.9	7.013	1.4			24-Aug-14	BH SEINE 3	F	10.2	17.121	1.6		
24-Aug-14	Trapnet	M	8.3	7.712	1.3			24-Aug-14	BH SEINE 3	F	9.7	12.995	1.4		
24-Aug-14	Trapnet	M	9.3	10.405	1.3			24-Aug-14	BH SEINE 3	M	7.2	5.218	1.4		
24-Aug-14	Trapnet	M	8.0	7.495	1.5			24-Aug-14	BH SEINE 3	F	11.2	18.812	1.3		
24-Aug-14	Trapnet	F	8.6	9.227	1.5			24-Aug-14	BH SEINE 3	M	9.2	10.203	1.3		
24-Aug-14	Trapnet	M	7.0	4.805	1.4			24-Aug-14	BH SEINE 3	M	8.1	8.222	1.5		
24-Aug-14	Trapnet	M	7.4	5.103	1.3			24-Aug-14	BH SEINE 3	M	7.6	6.617	1.5		
24-Aug-14	Trapnet	F	10.4	14.143	1.3			24-Aug-14	BH SEINE 3	F	7.3	5.197	1.3		
24-Aug-14	Trapnet	F	9.6	11.718	1.3			24-Aug-14	BH SEINE 3	M	7.6	6.819	1.6		
24-Aug-14	Trapnet	F	9.7	10.068	1.1			24-Aug-14	BH SEINE 3	F	6.9	5.537	1.7		
24-Aug-14	Trapnet	M	11.2	17.929	1.3			24-Aug-14	BH SEINE 3	M	6.8	5.242	1.7		
24-Aug-14	Trapnet	F	8.9	8.417	1.2			24-Aug-14	BH SEINE 3		5.3	2.335	1.6		
24-Aug-14	Trapnet	F	7.3	4.466	1.1			24-Aug-14	BH SEINE 3	M	8.1	6.957	1.3		
24-Aug-14	Trapnet	F	8.4	7.634	1.3			24-Aug-14	BH SEINE 3	F	7.8	6.598	1.4		Not clipped
24-Aug-14	Trapnet		5.1	1.591	1.2		FISH 99	24-Aug-14	BH SEINE 3	F	7.1	5.564	1.6		
24-Aug-14	Trapnet		4.2	0.949	1.3			24-Aug-14	BH SEINE 3	M	7.7	6.731	1.5		
24-Aug-14	Trapnet		5.1	1.582	1.2			24-Aug-14	BH SEINE 3	F	6.7	4.445	1.5		
23-Aug-14	BHMT3	F	10.2	13.474	1.3	0.407	Fish 5	24-Aug-14	BH SEINE 3	M	7.7	6.961	1.5		
23-Aug-14	BHMT4		3.8	0.751	1.4			24-Aug-14	BH SEINE 3	M	11.2	20.03	1.4		
23-Aug-14	BHMT4		4.7	1.344	1.3			24-Aug-14	BH SEINE 3	F	10.4	14.531	1.3		
23-Aug-14	BHMT4		4.5	1.232	1.4			24-Aug-14	BH SEINE 3	M	9.2	10.518	1.4		
23-Aug-14	BHSEINE1		2.4	0.196	1.4			24-Aug-14	BH SEINE 3	F	11.1	19.524	1.4		
23-Aug-14	BHSEINE1		3.9	0.913	1.5			24-Aug-14	BH SEINE 3	F	8.6	9.513	1.5		

Table E.13: Fish Measurements at Little Lake - August 2014

Date	GearID	Sex	Total Length (cm)	Body Weight (g)	Condition	Liver Weight (g)	Comments	Date	GearID	Sex	Total Length (cm)	Body Weight (g)	Condition	Liver Weight (g)	Comments
25-Aug-14	LL SEINE 1		2	0.109	1.4			26-Aug-14	LL SEINE 2	M	6.1	3.089	1.4		
25-Aug-14	LL SEINE 1		2.3	0.158	1.3			26-Aug-14	LL SEINE 2	M	6	2.867	1.3		
25-Aug-14	LL SEINE 1		2.7	0.266	1.4			26-Aug-14	LL SEINE 2	F	6.5	3.947	1.4		
25-Aug-14	LL SEINE 1		2.3	0.168	1.4			26-Aug-14	LL SEINE 2	F	7.8	5.893	1.2		
25-Aug-14	LL SEINE 1	M	6.4	4.032	1.5			26-Aug-14	LL SEINE 2	M	7.1	4.74	1.3		
25-Aug-14	LL SEINE 1		6.7	4.182	1.4			26-Aug-14	LL SEINE 2		5.2	1.884	1.3		
25-Aug-14	LL SEINE 1	M	6.7	4.14	1.4			26-Aug-14	LL SEINE 2	F	7.3	4.671	1.2		
25-Aug-14	LL SEINE 1		5.9	3.191	1.6			26-Aug-14	LL SEINE 2	M	6.6	3.777	1.3		
25-Aug-14	LL SEINE 1	M	6	3.251	1.5			26-Aug-14	LL SEINE 2	M	7.8	6.511	1.4		
25-Aug-14	LL SEINE 1		3.8	0.744	1.4			26-Aug-14	LL SEINE 2		6.1	3.211	1.4		
25-Aug-14	LL SEINE 1		5.4	1.413	0.9			26-Aug-14	LL SEINE 2	M	6.2	3.29	1.4		
25-Aug-14	LL SEINE 1		6.6	3.634	1.3			26-Aug-14	LL SEINE 2	F	9.6	11.573	1.3		
25-Aug-14	LL SEINE 1	M	6.3	3.326	1.3			26-Aug-14	LL SEINE 2	M	6.5	3.631	1.3		
25-Aug-14	LL SEINE 1	M	6.2	3.379	1.4			26-Aug-14	LL SEINE 2		6.3	3.284	1.3		
25-Aug-14	LL SEINE 1	M	6.8	4.283	1.4			26-Aug-14	LL SEINE 2		4.8	1.639	1.5		
25-Aug-14	LL SEINE 1	M	7.2	5.819	1.6			26-Aug-14	LL SEINE 2		5.9	2.728	1.3		
25-Aug-14	LL SEINE 1	M	5.4	2.221	1.4			26-Aug-14	LL SEINE 2	M	6.2	3.258	1.4		
25-Aug-14	LL SEINE 1		2.5	0.25	1.6			26-Aug-14	LL SEINE 2	F	8.1	7.299	1.4		
25-Aug-14	LL SEINE 1		3.3	0.455	1.3			26-Aug-14	LL SEINE 2		5.1	1.646	1.2		
25-Aug-14	LL SEINE 1		2.8	0.278	1.3			26-Aug-14	LL SEINE 2	F	6.7	3.945	1.3		
25-Aug-14	LL SEINE 1		2.4	0.226	1.6			26-Aug-14	LL SEINE 2	F	7.6	5.569	1.3		
25-Aug-14	LL SEINE 1		2.6	0.293	1.7			26-Aug-14	LL SEINE 2		4.5	1.042	1.1		
25-Aug-14	LL SEINE 1		5.8	2.947	1.5			26-Aug-14	LL SEINE 2	F	8.2	8.524	1.5		
25-Aug-14	LL SEINE 1	M	6	2.976	1.4			26-Aug-14	LL SEINE 2		6.6	4.328	1.5		
25-Aug-14	LL SEINE 1	M	6.6	3.906	1.4			26-Aug-14	LL SEINE 2	M	7.1	4.823	1.3		
25-Aug-14	LL SEINE 1	M	6.8	4.589	1.5			26-Aug-14	LL SEINE 2		5.1	1.743	1.3		
25-Aug-14	LL SEINE 1		5.4	2.265	1.4			26-Aug-14	LL SEINE 2	F	6.6	3.855	1.3		
25-Aug-14	LL SEINE 1	F	6.9	5.06	1.5			26-Aug-14	LL SEINE 2	M	7.7	5.871	1.3		
25-Aug-14	LL SEINE 1	F	6.3	3.432	1.4			26-Aug-14	LL SEINE 2	M	6.2	2.841	1.2		
25-Aug-14	LL SEINE 1		4.3	1.15	1.4			26-Aug-14	LL SEINE 2	M	6.3	3.28	1.3		
25-Aug-14	LL SEINE 1		6.6	3.88	1.3			26-Aug-14	LL SEINE 2	F	6.6	3.716	1.3		
25-Aug-14	LL SEINE 1		4.6	1.177	1.2			26-Aug-14	LL SEINE 2	M	7	4.546	1.3		
25-Aug-14	LL SEINE 1		4.4	1.142	1.3			26-Aug-14	LL SEINE 2	F	6.7	3.912	1.3		
25-Aug-14	LL SEINE 1	M	6.5	3.994	1.5			26-Aug-14	LL SEINE 2	F	7.3	5.155	1.3		
25-Aug-14	LL SEINE 1	M	7.2	4.747	1.3			26-Aug-14	LL SEINE 2	M	7.1	4.424	1.2		
25-Aug-14	LL SEINE 1	M	6.7	3.998	1.3			26-Aug-14	LL SEINE 2		6.3	3.296	1.3		
25-Aug-14	LL SEINE 1	M	5.9	2.677	1.3			26-Aug-14	LL SEINE 2	F	6.9	4.457	1.4		
25-Aug-14	LL SEINE 1	F	6.5	4.336	1.6			26-Aug-14	LL SEINE 2	M	6.3	3.331	1.3		
25-Aug-14	LL SEINE 1	F	6.7	4.374	1.5			26-Aug-14	LL SEINE 2		5.7	2.423	1.3		
25-Aug-14	LL SEINE 1	F	7.7	5.94	1.3			26-Aug-14	LL SEINE 2	M	6.4	3.713	1.4		
25-Aug-14	LL SEINE 1	M	6.2	3.608	1.5			27-Aug-14	LLMT8	F	7.7	7.129	1.6		
25-Aug-14	LL SEINE 1	M	6.9	4.321	1.3			27-Aug-14	LLMT8		11.3	1.012	0.1		
25-Aug-14	LL SEINE 1	F	7	3.419	1			27-Aug-14	LLMT9	F	7.7	6.144	1.3		
25-Aug-14	LL SEINE 1	M	6.3	3.408	1.4			27-Aug-14	LLMT9		5.1	1.815	1.4		
25-Aug-14	LL SEINE 1		3.6	0.623	1.3			27-Aug-14	LLMT9	F	7.2	5.043	1.4		
25-Aug-14	LL SEINE 1	F	6.1	3.249	1.4			27-Aug-14	LLMT14	F	7.4	6.652	1.6		
25-Aug-14	LL SEINE 1		2.9	0.306	1.3			27-Aug-14	LLMT14	F	6.9	4.84	1.5		
25-Aug-14	LL SEINE 1	F	6.7	3.774	1.3			27-Aug-14	LLMT14	F	7.2	5.151	1.4		
25-Aug-14	LL SEINE 1	F	6.9	4.329	1.3			27-Aug-14	LLMT13		5.9	2.777	1.4		
25-Aug-14	LL SEINE 1		3.1	0.336	1.1			27-Aug-14	LLMT13		5.7	2.574	1.4		
25-Aug-14	LL SEINE 1		4.4	1.406	1.7			27-Aug-14	LLMT13		4.4	1.073	1.3		
25-Aug-14	LL SEINE 1		3.2	0.404	1.2			27-Aug-14	LLMT13	M	5.8	2.632	1.3		
25-Aug-14	LL SEINE 1		2.5	0.223	1.4			27-Aug-14	LLMT13	F	7.2	4.913	1.3		
25-Aug-14	LL SEINE 1		2.8	0.248	1.1			27-Aug-14	LLMT13	M	6.1	3.076	1.4		
25-Aug-14	LL SEINE 1		3.8	0.72	1.3			27-Aug-14	LLMT13	M	6.8	4.148	1.3		
25-Aug-14	LL SEINE 1	F	7.9	7.326	1.5			27-Aug-14	LLMT13	F	7.8	6.783	1.4		
25-Aug-14	LL SEINE 1	M	5.7	2.622	1.4			27-Aug-14	LLMT13		4.6	1.305	1.3		
25-Aug-14	LL SEINE 1		2.1	0.12	1.3			27-Aug-14	LLMT13		5.3	1.855	1.2		
25-Aug-14	LL SEINE 1		2.2	0.159	1.5			27-Aug-14	LLMT13		4.6	1.174	1.2		
25-Aug-14	LL SEINE 1	F	6.6	3.73	1.3			27-Aug-14	LLMT10	F	7.2	5.081	1.4		
25-Aug-14	LL SEINE 1	M	5.7	2.719	1.5			27-Aug-14	LLMT10		4.6	1.158	1.2		
25-Aug-14	LL SEINE 1	F	7.5	5.979	1.4			27-Aug-14	LLMT10		5.6	1.291	0.7		
25-Aug-14	LL SEINE 1		6.8	4.031	1.3			27-Aug-14	LLMT10		4.7	1.279	1.2		
25-Aug-14	LL SEINE 1	F	7.1	4.501	1.3			27-Aug-14	LLMT10		5.1	1.775	1.3		
25-Aug-14	LL SEINE 1	M	5.5	2.206	1.3			27-Aug-14	LLMT10		4.2	1.083	1.5		
25-Aug-14	LL SEINE 1	F	6.7	4.499	1.5			27-Aug-14	LLMT10		3.9	0.736	1.2		
25-Aug-14	LL SEINE 1	M	6	2.964	1.4			27-Aug-14	LLMT10		4.2	0.928	1.3		
25-Aug-14	LL SEINE 1		3.6	0.605	1.3			27-Aug-14	LLMT10		4.5	1.192	1.3		
25-Aug-14	LL SEINE 1	F	6.8	4.518	1.4			27-Aug-14	LLMT10	M	5.7	2.791	1.5		
25-Aug-14	LL SEINE 1	M	6.2	3.485	1.5			27-Aug-14	LLMT10		4.8	1.245	1.1		

Table E.13: Fish Measurements at Little Lake - August 2014

Date	GearID	Sex	Total Length (cm)	Body Weight (g)	Condition	Liver Weight (g)	Comments	Date	GearID	Sex	Total Length (cm)	Body Weight (g)	Condition	Liver Weight (g)	Comments
25-Aug-14	LL SEINE 1	F	7.2	5.239	1.4			27-Aug-14	LLMT10		4.1	0.875	1.3		
25-Aug-14	LL SEINE 1	F	6.4	3.626	1.4			27-Aug-14	LLMT10		4.2	0.896	1.2		
25-Aug-14	LL SEINE 1		4.4	1.089	1.3			27-Aug-14	LLMT10	M	5.6	2.096	1.2		
25-Aug-14	LL SEINE 1		4	0.949	1.5			27-Aug-14	LLMT10		3.5	0.612	1.4		
25-Aug-14	LL SEINE 1	M	7.1	4.751	1.3			27-Aug-14	LLMT10		5.6	1.947	1.1		
25-Aug-14	LL SEINE 1	M	5.7	2.554	1.4			27-Aug-14	LLMT10		3.7	0.626	1.2		
25-Aug-14	LL SEINE 1		2.2	0.162	1.5			27-Aug-14	LLMT10		4.3	1.18	1.5		
25-Aug-14	LL SEINE 1		6	2.855	1.3			27-Aug-14	LLMT10		3.6	0.669	1.4		
25-Aug-14	LL SEINE 1	F	6.2	3.079	1.3			27-Aug-14	LLMT10		4.1	0.991	1.4		
25-Aug-14	LL SEINE 1	M	7.3	5.612	1.4			27-Aug-14	LLMT10		3.7	0.621	1.2		
25-Aug-14	LL SEINE 1	M	7.1	4.626	1.3			27-Aug-14	LLMT10		3.6	0.571	1.2		
25-Aug-14	LL SEINE 1	M	5.9	3.005	1.5			27-Aug-14	LLMT10		4.4	1.27	1.5		
25-Aug-14	LL SEINE 1	F	7.3	5.346	1.4			27-Aug-14	LLMT10		4.3	1.009	1.3		
25-Aug-14	LL SEINE 1		6.9	4.801	1.5			27-Aug-14	LLMT10		4.2	0.98	1.3		
25-Aug-14	LL SEINE 1	F	7.5	5.932	1.4			27-Aug-14	LLMT10		4.4	1.145	1.3		
25-Aug-14	LL SEINE 1	F	7.6	6.654	1.5			27-Aug-14	LLMT12	M	6	2.892	1.3		
25-Aug-14	LL SEINE 1	F	7.8	6.436	1.4			27-Aug-14	LLMT12	F	6.6	3.94	1.4		
25-Aug-14	LL SEINE 1	F	6.2	2.991	1.3			27-Aug-14	LLMT12	F	6.6	3.944	1.4		
25-Aug-14	LL SEINE 1	F	7.1	5.027	1.4			27-Aug-14	LLMT12		7.1	4.77	1.3		
25-Aug-14	LL SEINE 1	M	6.8	4.727	1.5			27-Aug-14	LLMT12		5.6	2.616	1.5		
25-Aug-14	LL SEINE 1	F	6.9	4.532	1.4			27-Aug-14	LLMT12	F	7.7	5.964	1.3		
25-Aug-14	LL SEINE 1		6.6	3.538	1.2			27-Aug-14	LLMT12	M	7.3	4.71	1.2		
25-Aug-14	LL SEINE 1	M	6.4	3.998	1.5			27-Aug-14	LLMT12	M	7.9	6.819	1.4		
25-Aug-14	LL SEINE 1	F	6.7	4.321	1.4			27-Aug-14	LLMT12	M	6.2				
25-Aug-14	LL SEINE 1		5.8	2.871	1.5			27-Aug-14	LLMT12	F	7.1	4.906	1.4		
25-Aug-14	LL SEINE 1		5.5	2.506	1.5			27-Aug-14	LLMT12	M	6.2	3.532	1.5		
25-Aug-14	LL SEINE 1		6.7	3.975	1.3			27-Aug-14	LLMT12	M	6.2	3.019	1.3		
25-Aug-14	LL SEINE 1	M	6.7	4.275	1.4			27-Aug-14	LLMT12		6.8	3.764	1.2		
25-Aug-14	LL SEINE 1		5	1.705	1.4			27-Aug-14	LLMT12		6.4	3.37	1.3		
25-Aug-14	LL SEINE 1	M	5.6	2.801	1.6			27-Aug-14	LLMT12	F	7.7	5.765	1.3		
25-Aug-14	LL SEINE 1	M	6.7	4.398	1.5			27-Aug-14	LLMT12	M	6.6	3.645	1.3		
25-Aug-14	LL SEINE 1	F	6.8	4.316	1.4			27-Aug-14	LLMT12	M	7.1	4.644	1.3		
25-Aug-14	LL SEINE 1	F	7.3	5.431	1.4			27-Aug-14	LLMT12	F	6.2	3.206	1.3		
25-Aug-14	LL SEINE 1		5.8	2.993	1.5			27-Aug-14	LLMT12		5.8	2.752	1.4		
25-Aug-14	LL SEINE 1		5.6	2.43	1.4			27-Aug-14	LLMT12	M	5.7	2.559	1.4		
25-Aug-14	LL SEINE 1		3.7	0.576	1.1			27-Aug-14	LLMT12	F	7.1	4.554	1.3		
25-Aug-14	LL SEINE 1		4.7	1.331	1.3			27-Aug-14	LLMT12	M	7.3	5.309	1.4		
25-Aug-14	LL SEINE 1	F	6.9	4.293	1.3	0.068	FISH 1	27-Aug-14	LLMT12	M	5.6	2.613	1.5		
25-Aug-14	LL SEINE 1	F	8.7	8.832	1.3	0.155	FISH 2	27-Aug-14	LL SEINE 3		2.6	0.236	1.3		
25-Aug-14	LL SEINE 1	M	8.2	6.957	1.3	0.114	FISH 3	27-Aug-14	LL SEINE 3		2.7	0.246	1.2		
25-Aug-14	LL SEINE 1	F	7.4	5.075	1.3	0.089	FISH 4	27-Aug-14	LL SEINE 3		5.3	1.935	1.3		
25-Aug-14	LL SEINE 1	M	7.1	4.806	1.3	0.085	FISH 5	27-Aug-14	LL SEINE 3		6.3	3.022	1.2		
25-Aug-14	LL SEINE 1	M	6.6	3.406	1.2	0.053	FISH 6	27-Aug-14	LL SEINE 3	M	6.8	4.006	1.3		
26-Aug-14	LL SEINE 2	M	6.2	3.153	1.3	0.059	FISH 7	27-Aug-14	LL SEINE 3	F	8.1	6.967	1.3		
26-Aug-14	LL SEINE 2	F	9.6	12.902	1.5	0.288	FISH 8	27-Aug-14	LL SEINE 3	M	6.9	3.355	1		
26-Aug-14	LL SEINE 2	F	8.3	7.235	1.3	0.226	FISH 9	27-Aug-14	LL SEINE 3	M	6.3	3.349	1.3		
26-Aug-14	LL SEINE 2	M	7.8	6.701	1.4	0.138	FISH 10	27-Aug-14	LL SEINE 3	F	7.8	5.752	1.2		
26-Aug-14	LL SEINE 2	F	7.2	4.981	1.3	0.086	FISH 11	27-Aug-14	LL SEINE 3	F	7.1	4.688	1.3		
26-Aug-14	LL SEINE 2	F	6.7	4.303	1.4	0.085	FISH 12	27-Aug-14	LL SEINE 3	F	8.2	6.763	1.2		
26-Aug-14	LL SEINE 2	M	6.1	3.204	1.4		FISH 99	27-Aug-14	LL SEINE 3	M	7.8	6.253	1.3		
26-Aug-14	LL SEINE 2	M	5.1	1.781	1.3		FISH 98	27-Aug-14	LL SEINE 3	F	7.1	4.239	1.2		
26-Aug-14	MINNOW TRAP	F	10.1	12.545	1.2	0.207	FISH 13	27-Aug-14	LL SEINE 3	F	6.9	4.186	1.3		
26-Aug-14	MINNOW TRAP	F	9	9.416	1.3	0.15	FISH 14	27-Aug-14	LL SEINE 3		6.4	3.469	1.3		
26-Aug-14	LLMT2	F	8.9	9.988	1.4			27-Aug-14	LL SEINE 3		4.1	0.868	1.3		
26-Aug-14	LLMT2	M	6.8	3.989	1.3			27-Aug-14	LL SEINE 3	F	7	3.934	1.1		
26-Aug-14	LLMT2	F	6.9	4.559	1.4			27-Aug-14	LL SEINE 3	F	7.4	5.014	1.2		
26-Aug-14	LLMT2	F	7.3	4.845	1.2			27-Aug-14	LL SEINE 3	F	7.9	6.136	1.2		
26-Aug-14	LLMT4		5.3	2.056	1.4			27-Aug-14	LL SEINE 3	M	6.9	4.375	1.3		
26-Aug-14	LLMT4	M	5.7	2.726	1.5			27-Aug-14	LL SEINE 3		3.4	0.505	1.3		
26-Aug-14	LLMT4	F	7	4.942	1.4			27-Aug-14	LL SEINE 3		2.9	0.281	1.2		
26-Aug-14	LLMT4		4.7	1.381	1.3			27-Aug-14	LL SEINE 3		2.7	0.345	1.8		
26-Aug-14	LLMT4	F	5.9	3.339	1.6			27-Aug-14	LL SEINE 3		2.2	0.132	1.2		
26-Aug-14	LLMT4		4.2	1.085	1.5			27-Aug-14	LL SEINE 3		2.9	0.193	0.8		
26-Aug-14	LLMT4	M	7.1	4.762	1.3			27-Aug-14	LL SEINE 3		3.7	0.512	1		
26-Aug-14	LLMT4		4.2	1.033	1.4			27-Aug-14	LL SEINE 3		2.8	0.259	1.2		
26-Aug-14	LLMT4		4.3	1.006	1.3			27-Aug-14	LL SEINE 3	F	6.4	3.607	1.4		
26-Aug-14	LLMT4		3.8	0.768	1.4			27-Aug-14	LL SEINE 3		4.6	1.244	1.3		
26-Aug-14	LLMT4		4.4	1.166	1.4			27-Aug-14	LL SEINE 3	F	6.8	4.317	1.4		
26-Aug-14	LLMT4		3.8	0.718	1.3			27-Aug-14	LL SEINE 3		4.7	1.361	1.3		
26-Aug-14	LLMT4		3.7	0.81	1.6			27-Aug-14	LL SEINE 3	M	7.2	4.469	1.2		

Table E.13: Fish Measurements at Little Lake - August 2014

Date	GearID	Sex	Total Length (cm)	Body Weight (g)	Condition	Liver Weight (g)	Comments	Date	GearID	Sex	Total Length (cm)	Body Weight (g)	Condition	Liver Weight (g)	Comments
26-Aug-14	LLMT4		4.2	0.979	1.3			27-Aug-14	LL SEINE 3	F	8.3	8.318	1.5		
26-Aug-14	LLMT4		4.1	0.938	1.4			27-Aug-14	LL SEINE 3	F	7.2	5.086	1.4		
26-Aug-14	LLMT4		3.9	0.835	1.4			27-Aug-14	LL SEINE 3	F	6.7	3.596	1.2		
26-Aug-14	LLMT4		3.9	0.817	1.4			27-Aug-14	LL SEINE 3	F	8.3	6.863	1.2		
26-Aug-14	LLMT4		4.2	0.948	1.3			27-Aug-14	LL SEINE 3		5.3	2.039	1.4		
26-Aug-14	LLMT4		5.2	2.057	1.5			27-Aug-14	LL SEINE 3	F	7.6	5.461	1.2		
26-Aug-14	LLMT4		3.5	0.674	1.6			27-Aug-14	LL SEINE 3		4.6	1.164	1.2		
26-Aug-14	LLMT4		3.7	0.643	1.3			27-Aug-14	LL SEINE 3		3	0.31	1.1		
26-Aug-14	LLMT4		3.9	0.73	1.2			27-Aug-14	LL SEINE 3	M	7.4	5.45	1.3		
26-Aug-14	LLMT4		4.1	0.997	1.4			27-Aug-14	LL SEINE 3	M	6.6	3.653	1.3		
26-Aug-14	LLMT4		4.4	1.101	1.3			27-Aug-14	LL SEINE 3		6.3	3.229	1.3		2 PHOTOS
26-Aug-14	LLMT4		4.3	1.1	1.4			27-Aug-14	LL SEINE 3	F	7.2	4.685	1.3		3 PHOTOS
26-Aug-14	LLMT4		4.1	0.996	1.4			27-Aug-14	LL SEINE 3		4.9	1.451	1.2		
26-Aug-14	LLMT4		3.8	0.68	1.2			27-Aug-14	LL SEINE 3		5.6	2.263	1.3		
26-Aug-14	LLMT1		5.2	1.79	1.3			27-Aug-14	LL SEINE 3		3.5	0.563	1.3		
26-Aug-14	LLMT1		5.3	1.902	1.3			27-Aug-14	LL SEINE 3	M	6.9	4.061	1.2		
26-Aug-14	LLMT1	M	6.6	3.991	1.4			27-Aug-14	LL SEINE 3	F	9.1	9.84	1.3		3 PHOTOS
26-Aug-14	LLMT1	M	6.4	3.442	1.3			27-Aug-14	LL SEINE 3	F	9.5	10.343	1.2		
26-Aug-14	LLMT1	M	7.2	5.932	1.6			27-Aug-14	LL SEINE 3	M	7.2	4.322	1.2		
26-Aug-14	LLMT1	M	6.3	3.34	1.3			27-Aug-14	LL SEINE 3	F	7.4	5.037	1.2		
26-Aug-14	LLMT1	F	6.7	3.998	1.3			27-Aug-14	LL SEINE 3	F	6.4	3.138	1.2		
26-Aug-14	LLMT1	M	6.4	3.86	1.5			27-Aug-14	LL SEINE 3		4.8	1.443	1.3		
26-Aug-14	LLMT1		4.9	1.534	1.3			27-Aug-14	LL SEINE 3	M	6.9	4.678	1.4		
26-Aug-14	LLMT1		6	2.785	1.3			27-Aug-14	LL SEINE 3	M	6.7	3.39	1.1		
26-Aug-14	LLMT1		5.9	2.546	1.2			27-Aug-14	LL SEINE 3		5.4	2.059	1.3		
26-Aug-14	LLMT1		3.9	0.759	1.3			27-Aug-14	LL SEINE 3	F	7.1	4.654	1.3		
26-Aug-14	LLMT1		4.8	1.363	1.2			27-Aug-14	LL SEINE 3	F	6.2	2.919	1.2		
26-Aug-14	LLMT1		4.7	1.3	1.3			27-Aug-14	LL SEINE 3	F	7.1	4.676	1.3		2 PHOTOS
26-Aug-14	LLMT1		4.6	1.329	1.4			27-Aug-14	LL SEINE 3	M	6.1	3.127	1.4		
26-Aug-14	LLMT1		5.2	1.715	1.2			27-Aug-14	LL SEINE 3	M	7.2	4.555	1.2		
26-Aug-14	LLMT1	M	5.6	2.402	1.4			27-Aug-14	LL SEINE 3	M	5.7	2.339	1.3		
26-Aug-14	LLMT1		4.8	1.463	1.3			27-Aug-14	LL SEINE 3	F	6.7	3.936	1.3		
26-Aug-14	LLMT1		5.2	1.815	1.3			27-Aug-14	LL SEINE 3	M	6.7	4.255	1.4		
26-Aug-14	LLMT1		4.7	1.485	1.4			27-Aug-14	LL SEINE 3	M	7.4	5.002	1.2		
26-Aug-14	LLMT1		6.5	3.264	1.2			27-Aug-14	LL SEINE 3	M	5.6	2.267	1.3		
26-Aug-14	LLMT6	M	6.7	3.935	1.3			27-Aug-14	LL SEINE 3	M	6.5	3.36	1.2		
26-Aug-14	LLMT6	F	7.9	6.623	1.3			27-Aug-14	LL SEINE 3	F	8.1	6.65	1.3		
26-Aug-14	LLMT6	M	5.9	2.962	1.4			27-Aug-14	LL SEINE 3	F	6.8	3.139	1		
26-Aug-14	LLMT6	M	5.9	3.035	1.5			27-Aug-14	LL SEINE 3	F	6.7	4.478	1.5		
26-Aug-14	LLMT6	F	6.7	4.004	1.3			27-Aug-14	LL SEINE 3	M	5.8	2.672	1.4		
26-Aug-14	LLMT6	M	7.9	7.099	1.4			27-Aug-14	LL SEINE 3	M	6.7	6.679	2.2		
26-Aug-14	LLMT6		6.6	3.778	1.3			27-Aug-14	LL SEINE 3	M	6.9	4.33	1.3		
26-Aug-14	LLMT6	M	6.2	3.148	1.3			27-Aug-14	LL SEINE 3	F	6.1	3.108	1.4		
26-Aug-14	LLMT6		5.9	2.812	1.4			27-Aug-14	LL SEINE 3		4.7	1.132	1.1		
26-Aug-14	LLMT5	F	7.8	6.098	1.3			27-Aug-14	LL SEINE 3	F	8.6	8.451	1.3		
26-Aug-14	LLMT5		6.3	3.648	1.5			27-Aug-14	LL SEINE 3	F	7.7	5.596	1.2		
26-Aug-14	LLMT5	M	6.7	4.132	1.4			27-Aug-14	LL SEINE 3		5.2	1.14	0.8		
26-Aug-14	LLMT5	F	6.7	3.985	1.3			27-Aug-14	LL SEINE 3		4.6	1.311	1.3		
26-Aug-14	LLMT5	M	7.7	5.791	1.3			27-Aug-14	LL SEINE 3		4.4	1.096	1.3		
26-Aug-14	LLMT5	F	8.2	8.94	1.6			27-Aug-14	LL SEINE 3		4	0.714	1.1		
26-Aug-14	LLMT5	F	7.3	5.43	1.4			27-Aug-14	LL SEINE 3	M	6.9	4.348	1.3		
26-Aug-14	LLMT5		6.3	3.307	1.3			27-Aug-14	LL SEINE 3	F	7.2	4.97	1.3		
26-Aug-14	LLMT5		7.3	5.002	1.3			27-Aug-14	LL SEINE 3	F	9.4	1.868	0.2		
26-Aug-14	LLMT5		5.8	2.416	1.2			27-Aug-14	LL SEINE 3	F	7.9	6.936	1.4		
26-Aug-14	LLMT5		6.2	2.979	1.2			27-Aug-14	LL SEINE 3		4.7	1.275	1.2		
26-Aug-14	LLMT5		6.1	2.782	1.2			27-Aug-14	LL SEINE 3		3.3	0.394	1.1		
26-Aug-14	LLMT5		6.2	2.912	1.2			27-Aug-14	LL SEINE 3	F	6.4	3.516	1.3		
26-Aug-14	LLMT5		6.7	3.72	1.2			27-Aug-14	LL SEINE 3	F	6.6	3.449	1.2		
26-Aug-14	LLMT5		6.2	3.266	1.4			27-Aug-14	LL SEINE 3	M	7.9	6.91	1.4		
26-Aug-14	LLMT5		4.7	1.409	1.4			27-Aug-14	LL SEINE 3		5.1	1.766	1.3		
26-Aug-14	LLMT5	M	7.3	4.87	1.3			27-Aug-14	LL SEINE 3		3.1	0.328	1.1		
26-Aug-14	LLMT5	F	7.1	4.51	1.3			27-Aug-14	LL SEINE 3		3.4	0.546	1.4		
26-Aug-14	LLMT5	M	6.1	3.343	1.5			27-Aug-14	LL SEINE 3		2.9	0.301	1.2		
26-Aug-14	LLMT5	M	6.1	2.987	1.3		KEPT FOR AGING	27-Aug-14	LL SEINE 3		2.5	0.19	1.2		
26-Aug-14	LLMT5		5.2	2.024	1.4			27-Aug-14	LL SEINE 3	M	6.4	3.275	1.2		
26-Aug-14	LLMT5		6.4	3.286	1.3			27-Aug-14	LL SEINE 3		4.6	1.145	1.2		
26-Aug-14	LLMT5		6.3	3.349	1.3			27-Aug-14	LL SEINE 3	M	7.9	6.321	1.3		
26-Aug-14	LLMT5	F	6.7	4.084	1.4			27-Aug-14	LL SEINE 3		3	0.376	1.4		
26-Aug-14	LLMT5		5.3	1.979	1.3			27-Aug-14	LL SEINE 3		5.9	2.514	1.2		
26-Aug-14	LL SEINE 2		6.7	4.047	1.3			27-Aug-14	LL SEINE 3		4.3	1.056	1.3		

Table E.14: Fish Measurements at Boat Harbour - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments	Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments
13-May-15	Seines 1-4	5.0	1.345	1.08		14-May-15	Trapnet	8.2	7.765	1.41	
13-May-15	Seines 1-4	4.4	0.908	1.07		14-May-15	Trapnet	7.8	6.096	1.28	
13-May-15	Seines 1-4	6.7	3.847	1.28		14-May-15	Trapnet	9.2	9.721	1.25	
13-May-15	Seines 1-4	7.9	6.374	1.29		14-May-15	Trapnet	8.9	8.153	1.16	
13-May-15	Seines 1-4	6.1	2.691	1.19		14-May-15	Trapnet	8.2	7.679	1.39	
13-May-15	Seines 1-4	7.8	5.724	1.21		14-May-15	Trapnet	8.4	7.448	1.26	
13-May-15	Seines 1-4	7.1	4.346	1.21		14-May-15	Trapnet	6.4	3.620	1.38	
13-May-15	Seines 1-4	6.7	3.976	1.32		14-May-15	Trapnet	5.2	1.857	1.32	
13-May-15	Seines 1-4	7.1	4.140	1.16		14-May-15	Trapnet	5.4	1.593	1.01	
13-May-15	Seines 1-4	4.2	0.886	1.20		14-May-15	Trapnet	4.7	1.198	1.15	
13-May-15	Seines 1-4	4.6	1.255	1.29		14-May-15	Trapnet	7.3	4.929	1.27	
13-May-15	Seines 1-4	4.3	0.913	1.15		14-May-15	Trapnet	9.7	11.220	1.23	
13-May-15	Seines 1-4	7.1	4.729	1.32		14-May-15	Trapnet	8.1	6.619	1.25	
13-May-15	Seines 1-4	5.6	2.131	1.21		14-May-15	Trapnet	8.9	8.271	1.17	
13-May-15	Seines 1-4	5.2	1.839	1.31		14-May-15	Trapnet	7.4	4.591	1.13	
13-May-15	Seines 1-4	5.0	1.478	1.18		14-May-15	Trapnet	10.1	13.377	1.30	
13-May-15	Seines 1-4	6.6	3.337	1.16		14-May-15	Trapnet	5.7	2.252	1.22	
13-May-15	Seines 1-4	7.8	5.217	1.10		14-May-15	Trapnet	10.0	13.734	1.37	
13-May-15	Seines 1-4	7.8	5.951	1.25		14-May-15	Trapnet	8.7	8.856	1.34	
13-May-15	Seines 1-4	6.3	3.124	1.25		14-May-15	Trapnet	8.5	8.062	1.31	
13-May-15	Seines 1-4	4.6	1.254	1.29		14-May-15	Trapnet	7.8	5.823	1.23	
13-May-15	Seines 1-4	5.6	2.247	1.28		14-May-15	Trapnet	8.1	6.459	1.22	
13-May-15	Seines 1-4	6.1	2.870	1.26		14-May-15	Trapnet	7.4	4.925	1.22	
13-May-15	Seines 1-4	5.9	2.594	1.26		14-May-15	Trapnet	5.1	1.575	1.19	
13-May-15	Seines 1-4	4.6	1.152	1.18		14-May-15	Trapnet	9.0	8.973	1.23	
13-May-15	Seines 1-4	8.5	8.003	1.30		14-May-15	Trapnet	9.3	10.277	1.28	
13-May-15	Seines 1-4	7.9	6.502	1.32		14-May-15	Trapnet	7.1	4.481	1.25	
13-May-15	Seines 1-4	6.7	3.577	1.19		14-May-15	Trapnet	10.4	15.376	1.37	
13-May-15	Seines 1-4	4.9	1.433	1.22		14-May-15	Trapnet	11.1	18.717	1.37	
13-May-15	Seines 1-4	4.8	1.368	1.24		14-May-15	Trapnet	8.2	7.209	1.31	
13-May-15	Seines 1-4	8.1	7.180	1.35		14-May-15	Trapnet	4.8	1.153	1.04	
13-May-15	Seines 1-4	7.2	4.319	1.16		14-May-15	Trapnet	8.4	7.376	1.24	
13-May-15	Seines 1-4	5.8	2.547	1.31		14-May-15	Trapnet	8.3	6.831	1.19	
13-May-15	Seines 1-4	5.4	2.033	1.29		14-May-15	Trapnet	10.3	13.387	1.23	
13-May-15	Seines 1-4	7.0	4.015	1.17		14-May-15	Trapnet	6.7	3.793	1.26	
13-May-15	Seines 1-4	5.3	1.831	1.23		14-May-15	Trapnet	10.4	15.217	1.35	
13-May-15	Seines 1-4	5.1	1.358	1.02		14-May-15	Trapnet	8.9	9.601	1.36	
13-May-15	Seines 1-4	4.6	1.056	1.08		14-May-15	Trapnet	6.1	2.844	1.25	
13-May-15	Seines 1-4	4.3	0.854	1.07		14-May-15	Trapnet	9.5	12.207	1.42	
13-May-15	Seines 1-4	7.2	4.953	1.33		14-May-15	Trapnet	9.1	9.808	1.30	
13-May-15	Seines 1-4	7.7	5.227	1.14		14-May-15	Trapnet	9.6	11.346	1.28	
13-May-15	Seines 1-4	6.1	2.992	1.32		14-May-15	Trapnet	9.3	10.950	1.36	
13-May-15	Seines 1-4	4.5	1.161	1.27		14-May-15	Trapnet	8.1	6.182	1.16	
13-May-15	Seines 1-4	5.4	1.986	1.26		14-May-15	Trapnet	6.9	4.064	1.24	
13-May-15	Seines 1-4	4.6	1.130	1.16		14-May-15	Trapnet	5.3	1.758	1.18	
13-May-15	Seines 1-4	7.3	5.077	1.31		14-May-15	Trapnet	7.9	6.233	1.26	
13-May-15	Seines 1-4	7.6	5.309	1.21		14-May-15	Trapnet	8.1	5.931	1.12	
13-May-15	Seines 1-4	6.7	4.133	1.37		14-May-15	Trapnet	7.3	5.243	1.35	
13-May-15	Seines 1-4	6.6	3.496	1.22		14-May-15	Trapnet	8.8	9.410	1.38	
13-May-15	Seines 1-4	5.1	1.708	1.29		14-May-15	Trapnet	8.3	7.978	1.40	
13-May-15	Seines 1-4	4.4	1.031	1.21		14-May-15	Trapnet	4.8	1.388	1.26	
13-May-15	Seines 1-4	7.4	5.342	1.32		14-May-15	Trapnet	9.7	11.600	1.27	
13-May-15	Seines 1-4	5.8	2.357	1.21		14-May-15	Trapnet	8.8	8.294	1.22	

Table E.14: Fish Measurements at Boat Harbour - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments	Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments
13-May-15	Seines 1-4	5.1	1.709	1.29		14-May-15	Trapnet	8.9	9.538	1.35	
13-May-15	Seines 1-4	3.9	0.678	1.14		14-May-15	Trapnet	9.2	10.771	1.38	
13-May-15	Seines 1-4	4.6	1.009	1.04		14-May-15	Trapnet	7.2	4.899	1.31	
13-May-15	Seines 1-4	4.2	0.884	1.19		14-May-15	Trapnet	9.6	13.018	1.47	
13-May-15	Seines 1-4	4.1	0.663	0.96		14-May-15	Trapnet	8.1	7.387	1.39	
13-May-15	Seines 1-4	6.7	3.721	1.24		14-May-15	Trapnet	10.4	15.515	1.38	
13-May-15	Seines 1-4	7.3	5.197	1.34		14-May-15	Trapnet	7.4	4.719	1.16	
13-May-15	Seines 1-4	5.6	2.043	1.16		14-May-15	Trapnet	8.7	8.649	1.31	
13-May-15	Seines 1-4	5.7	2.499	1.35		14-May-15	Trapnet	9.2	9.849	1.26	
13-May-15	Seines 1-4	6.0	2.690	1.25		14-May-15	Trapnet	6.8	4.558	1.45	
13-May-15	Seines 1-4	6.1	2.882	1.27		14-May-15	Trapnet	9.8	12.091	1.28	
13-May-15	Seines 1-4	4.9	1.345	1.14		14-May-15	Trapnet	8.7	9.154	1.39	
13-May-15	Seines 1-4	4.5	0.961	1.05		14-May-15	Trapnet	8.7	7.895	1.20	
13-May-15	Seines 1-4	4.2	1.032	1.39		14-May-15	Trapnet	8.3	7.813	1.37	
13-May-15	Seines 1-4	6.6	3.798	1.32		14-May-15	Trapnet	7.7	5.585	1.22	
13-May-15	Seines 1-4	7.4	5.268	1.30		14-May-15	Trapnet	9.8	11.684	1.24	
13-May-15	Seines 1-4	6.4	3.327	1.27		14-May-15	Trapnet	10.6	14.733	1.24	
13-May-15	Seines 1-4	6.3	3.205	1.28		14-May-15	Trapnet	7.0	4.174	1.22	
13-May-15	Seines 1-4	4.7	1.215	1.17		14-May-15	Trapnet	5.6	2.149	1.22	
13-May-15	Seines 1-4	4.8	1.547	1.40		14-May-15	Trapnet	9.1	9.505	1.26	
13-May-15	Seines 1-4	4.1	0.957	1.39		14-May-15	Trapnet	6.1	2.550	1.12	
13-May-15	Seines 1-4	8.0	5.941	1.16		14-May-15	Trapnet	8.0	5.768	1.13	
13-May-15	Seines 1-4	6.9	4.463	1.36		14-May-15	Trapnet	10.5	16.084	1.39	
13-May-15	Seines 1-4	6.2	3.292	1.38		14-May-15	Trapnet	9.7	12.299	1.35	
13-May-15	Seines 1-4	5.8	2.118	1.09		14-May-15	Trapnet	7.3	6.500	1.67	
13-May-15	Seines 1-4	5.3	1.750	1.18		14-May-15	Trapnet	11.5	21.479	1.41	
13-May-15	Seines 1-4	5.3	1.862	1.25		14-May-15	Trapnet	11.9	23.035	1.37	
13-May-15	Seines 1-4	8.4	7.801	1.32		14-May-15	Trapnet	9.5	11.753	1.37	checked ok
13-May-15	Seines 1-4	6.4	3.682	1.40		14-May-15	Trapnet	8.4	7.834	1.32	
13-May-15	Seines 1-4	5.9	2.608	1.27		14-May-15	Trapnet	6.6	3.630	1.26	
13-May-15	Seines 1-4	6.1	2.778	1.22		14-May-15	Trapnet	9.1	8.998	1.19	
13-May-15	Seines 1-4	5.8	2.300	1.18		14-May-15	Trapnet	8.8	8.064	1.18	
13-May-15	Seines 1-4	4.8	1.359	1.23		14-May-15	Trapnet	10.6	16.654	1.40	
13-May-15	Seines 1-4	4.9	1.296	1.10		14-May-15	Trapnet	10.1	15.623	1.52	
13-May-15	Seines 1-4	5.4	2.098	1.33		14-May-15	Trapnet	8.3	8.129	1.42	
13-May-15	Seines 1-4	5.2	1.844	1.31		14-May-15	Trapnet	8.4	8.599	1.45	
13-May-15	Seines 1-4	4.9	1.443	1.23		14-May-15	Trapnet	6.7	3.678	1.22	
13-May-15	Seines 1-4	4.4	1.098	1.29		14-May-15	Trapnet	9.2	9.723	1.25	
13-May-15	Seines 1-4	4.1	0.798	1.16		14-May-15	Trapnet	8.1	6.904	1.30	
13-May-15	Seines 1-4	4.1	0.925	1.34		14-May-15	Trapnet	7.9	6.340	1.29	
13-May-15	Seines 1-4	4.6	1.302	1.34		14-May-15	Trapnet	10.4	13.960	1.24	
13-May-15	Seines 1-4	4.9	1.598	1.36		14-May-15	Trapnet	9.4	10.693	1.29	
13-May-15	Seines 1-4	9.0	8.413	1.15		14-May-15	Trapnet	9.7	12.140	1.33	
13-May-15	Seines 1-4	9.1	8.786	1.17		14-May-15	Trapnet	7.6	5.560	1.27	
13-May-15	Seines 1-4	8.0	7.231	1.41		14-May-15	Trapnet	8.8	8.070	1.18	
13-May-15	Seines 1-4	8.6	8.546	1.34		14-May-15	Trapnet	8.7	8.784	1.33	
13-May-15	Seines 1-4	8.2	7.843	1.42		14-May-15	Trapnet	9.6	11.275	1.27	
13-May-15	Seines 1-4	8.3	8.173	1.43		14-May-15	Trapnet	7.9	4.593	0.93	
13-May-15	Seines 1-4	7.8	6.370	1.34		14-May-15	Trapnet	6.1	2.379	1.05	
13-May-15	Seines 1-4	8.8	9.521	1.40		14-May-15	Trapnet	8.3	7.332	1.28	
13-May-15	Seines 1-4	8.7	9.070	1.38		14-May-15	Trapnet	9.2	7.331	0.94	checked ok

Table E.14: Fish Measurements at Boat Harbour - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments	Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments
13-May-15	Seines 1-4	8.8	8.587	1.26		14-May-15	Trapnet	6.8	3.770	1.20	
13-May-15	Seines 1-4	8.8	9.143	1.34		14-May-15	Trapnet	9.6	11.652	1.32	
13-May-15	Seines 1-4	8.4	8.166	1.38		14-May-15	Trapnet	8.9	10.215	1.45	checked ok
13-May-15	Seines 1-4	8.0	7.479	1.46		14-May-15	Trapnet	10.2	15.857	1.49	
13-May-15	Seines 1-4	7.7	6.710	1.47		14-May-15	Trapnet	6.7	3.258	1.08	
13-May-15	Seines 1-4	9.9	11.120	1.15		14-May-15	Trapnet	7.8	7.951	1.68	
13-May-15	Seines 1-4	8.2	7.593	1.38		14-May-15	Trapnet	9.1	8.426	1.12	
13-May-15	Seines 1-4	8.3	8.070	1.41		14-May-15	Trapnet	8.3	7.404	1.29	
13-May-15	Seines 1-4	9.1	9.891	1.31		14-May-15	Trapnet	5.1	1.383	1.04	checked ok
13-May-15	Seines 1-4	8.8	8.862	1.30		14-May-15	Trapnet	9.1	9.570	1.27	
13-May-15	Seines 1-4	8.9	9.996	1.42		14-May-15	Trapnet	10.2	13.417	1.26	
13-May-15	Seines 1-4	7.6	6.169	1.41		14-May-15	Trapnet	9.7	11.352	1.24	
13-May-15	Seines 1-4	7.7	6.039	1.32		14-May-15	Trapnet	8.7	9.106	1.38	
13-May-15	Seines 1-4	8.4	7.303	1.23		14-May-15	Trapnet	7.6	5.918	1.35	
13-May-15	Seines 1-4	8.3	6.426	1.12		14-May-15	Trapnet	9.8	13.217	1.40	
13-May-15	Seines 1-4	9.3	9.176	1.14		14-May-15	Trapnet	8.6	8.529	1.34	
13-May-15	Seines 1-4	9.0	10.546	1.45		14-May-15	Trapnet	8.7	8.793	1.34	
13-May-15	Seines 1-4	9.0	10.258	1.41		14-May-15	Trapnet	7.6	6.305	1.44	
13-May-15	Seines 1-4	8.3	7.092	1.24		14-May-15	Trapnet	9.6	11.694	1.32	
13-May-15	Seines 1-4	8.7	7.852	1.19		14-May-15	Trapnet	9.4	15.131	1.82	
13-May-15	Seines 1-4	8.4	7.755	1.31		14-May-15	Trapnet	6.9	4.246	1.29	
13-May-15	Seines 1-4	8.8	9.261	1.36		14-May-15	Trapnet	10.1	13.825	1.34	
13-May-15	Seines 1-4	7.7	7.182	1.57	checked ok	14-May-15	Trapnet	8.2	6.414	1.16	checked ok
13-May-15	Seines 1-4	7.9	6.896	1.40		14-May-15	Trapnet	5.4	2.135	1.36	
13-May-15	Seines 1-4	8.9	10.031	1.42		14-May-15	Trapnet	10.1	14.202	1.38	
13-May-15	Seines 1-4	7.6	5.995	1.37		14-May-15	Trapnet	7.3	5.247	1.35	
14-May-15	BMT10	8.6	8.351	1.31		14-May-15	Trapnet	6.6	3.853	1.34	
14-May-15	BMT10	7.1	4.705	1.31		14-May-15	Trapnet	7.4	4.809	1.19	
14-May-15	BMT10	9.8	12.996	1.38		14-May-15	Trapnet	9.1	10.510	1.39	
14-May-15	BMT10	4.8	1.365	1.23		14-May-15	Trapnet	8.4	7.428	1.25	
14-May-15	BMT10	5.4	1.849	1.17		14-May-15	Trapnet	9.4	11.340	1.37	
14-May-15	BMT10	5.0	1.488	1.19		14-May-15	Trapnet	12.1	24.412	1.38	
14-May-15	BMT10	7.7	5.773	1.26		14-May-15	Trapnet	10.1	13.459	1.31	
14-May-15	BMT10	10.9	17.767	1.37		14-May-15	Trapnet	8.9	8.979	1.27	
14-May-15	BMT10	8.4	6.395	1.08		14-May-15	Trapnet	10.2	15.414	1.45	
14-May-15	BMT10	5.1	1.657	1.25		14-May-15	Trapnet	10.0	13.489	1.35	
14-May-15	BMT10	6.4	3.145	1.20		14-May-15	Trapnet	9.3	10.736	1.33	
14-May-15	BMT10	4.2	1.052	1.42		14-May-15	Trapnet	8.6	7.112	1.12	
14-May-15	BMT10	8.6	8.709	1.37		14-May-15	Trapnet	6.3	2.976	1.19	
14-May-15	BMT10	9.4	10.818	1.30		14-May-15	Trapnet	10.0	14.802	1.48	
14-May-15	BMT10	8.9	8.663	1.23		14-May-15	Trapnet	9.1	9.934	1.32	
14-May-15	BMT10	5.8	2.235	1.15		14-May-15	Trapnet	5.1	1.674	1.26	
14-May-15	BMT10	4.9	1.362	1.16		14-May-15	Trapnet	9.5	11.359	1.32	
14-May-15	BMT10	4.7	1.254	1.21		14-May-15	Trapnet	8.1	6.583	1.24	
14-May-15	BMT10	8.7	8.248	1.25		14-May-15	Trapnet	8.0	7.290	1.42	
14-May-15	BMT10	8.5	8.669	1.41		14-May-15	Trapnet	9.2	9.618	1.24	
14-May-15	BMT10	4.6	1.060	1.09		14-May-15	Trapnet	8.5	7.406	1.21	
14-May-15	BMT10	7.9	6.282	1.27		14-May-15	Trapnet	5.5	2.084	1.25	
14-May-15	BMT10	4.8	1.373	1.24		14-May-15	Trapnet	5.2	1.640	1.17	
14-May-15	Shallow MT	8.7	8.856	1.34		14-May-15	Trapnet	9.1	9.401	1.25	

Table E.14: Fish Measurements at Boat Harbour - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments	Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments
14-May-15	Shallow MT	5.7	2.117	1.14		14-May-15	Trapnet	7.8	6.215	1.31	
14-May-15	Shallow MT	7.9	6.563	1.33		14-May-15	Trapnet	11.1	18.336	1.34	
14-May-15	Shallow MT	4.4	1.148	1.35		14-May-15	Trapnet	7.1	4.878	1.36	
14-May-15	Shallow MT	9.2	9.105	1.17		14-May-15	Trapnet	9.6	9.896	1.12	
14-May-15	Shallow MT	4.5	1.097	1.20		14-May-15	Trapnet	6.8	3.810	1.21	
14-May-15	Shallow MT	6.6	3.520	1.22		14-May-15	Trapnet	7.2	4.885	1.31	
14-May-15	Shallow MT	5.9	2.567	1.25		14-May-15	Trapnet	11.7	21.529	1.34	
14-May-15	Shallow MT	8.5	8.368	1.36		14-May-15	Trapnet	9.1	9.658	1.28	
14-May-15	Shallow MT	5.2	1.726	1.23		14-May-15	Trapnet	9.8	13.606	1.45	
14-May-15	Shallow MT	5.8	2.127	1.09		14-May-15	Trapnet	8.9	10.042	1.42	
14-May-15	Shallow MT	9.0	10.193	1.40		14-May-15	Trapnet	11.4	20.165	1.36	
14-May-15	Shallow MT	5.2	1.650	1.17		14-May-15	Trapnet	11.9	23.559	1.40	
14-May-15	Shallow MT	4.8	1.318	1.19		14-May-15	Trapnet	11.7	20.952	1.31	
14-May-15	Shallow MT	4.2	1.057	1.43		14-May-15	Trapnet	10.6	14.716	1.24	
14-May-15	Shallow MT	4.8	1.272	1.15		14-May-15	Trapnet	5.0	1.460	1.17	
14-May-15	Shallow MT	5.6	1.902	1.08		14-May-15	Trapnet	9.9	14.013	1.44	
14-May-15	Shallow MT	6.7	3.784	1.26		14-May-15	Trapnet	8.5	8.899	1.45	
14-May-15	Shallow MT	6.0	2.535	1.17		14-May-15	Trapnet	7.7	6.048	1.32	
14-May-15	Shallow MT	4.7	1.204	1.16	recap from August	14-May-15	Trapnet	9.3	11.234	1.40	
14-May-15	Shallow MT	8.1	6.463	1.22		14-May-15	Trapnet	6.2	2.875	1.21	
14-May-15	Shallow MT	6.9	4.166	1.27		14-May-15	Trapnet	5.0	1.534	1.23	
14-May-15	Shallow MT	9.0	9.564	1.31		14-May-15	Trapnet	9.9	13.361	1.38	
14-May-15	Shallow MT	9.7	11.005	1.21		14-May-15	Trapnet	9.5	11.921	1.39	
14-May-15	Shallow MT	8.9	8.359	1.19		14-May-15	Trapnet	8.1	6.137	1.15	
14-May-15	Shallow MT	9.6	10.119	1.14		14-May-15	Trapnet	7.5	5.675	1.35	
14-May-15	Shallow MT	8.2	6.744	1.22		14-May-15	Trapnet	7.8	6.757	1.42	
14-May-15	Shallow MT	4.8	1.308	1.18		14-May-15	Trapnet	4.8	1.239	1.12	
14-May-15	Shallow MT	8.7	7.622	1.16		14-May-15	Trapnet	8.5	7.577	1.23	
14-May-15	Shallow MT	5.0	1.479	1.18		14-May-15	Trapnet	8.4	8.595	1.45	
14-May-15	Shallow MT	4.7	1.200	1.16		14-May-15	Trapnet	9.2	9.705	1.25	
14-May-15	Shallow MT	4.9	1.379	1.17		14-May-15	Trapnet	6.0	2.726	1.26	
14-May-15	Shallow MT	4.9	1.412	1.20		14-May-15	Trapnet	10.7	15.460	1.26	
14-May-15	Shallow MT	7.7	5.732	1.26		14-May-15	Trapnet	11.2	19.345	1.38	
14-May-15	Shallow MT	5.8	2.463	1.26		14-May-15	Trapnet	5.9	2.463	1.20	
14-May-15	Shallow MT	7.4	5.058	1.25		14-May-15	Trapnet	8.2	7.099	1.29	
14-May-15	Shallow MT	4.6	1.194	1.23		14-May-15	Trapnet	10.1	13.241	1.29	
14-May-15	Shallow MT	4.9	1.383	1.18		14-May-15	Trapnet	8.3	7.684	1.34	
14-May-15	Shallow MT	9.1	10.285	1.36		14-May-15	Trapnet	4.7	1.380	1.33	
14-May-15	Shallow MT	5.2	1.700	1.21		14-May-15	Trapnet	5.0	1.533	1.23	
14-May-15	Shallow MT	6.1	2.798	1.23		14-May-15	Trapnet	9.2	9.158	1.18	
14-May-15	Shallow MT	6.4	3.160	1.21		14-May-15	Trapnet	9.0	8.845	1.21	
14-May-15	Shallow MT	7.4	4.940	1.22		14-May-15	Trapnet	7.9	6.586	1.34	
14-May-15	Shallow MT	4.7	1.305	1.26		14-May-15	Trapnet	7.6	5.382	1.23	
14-May-15	Shallow MT	4.8	1.391	1.26		14-May-15	Trapnet	8.1	6.959	1.31	
14-May-15	Shallow MT	5.1	1.516	1.14		14-May-15	Trapnet	11.1	19.946	1.46	
14-May-15	Shallow MT	4.8	1.277	1.15		14-May-15	Trapnet	7.1	3.905	1.09	
14-May-15	Shallow MT	4.5	1.224	1.34		14-May-15	Trapnet	9.9	12.306	1.27	
14-May-15	Shallow MT	4.7	1.338	1.29		14-May-15	Trapnet	7.4	4.550	1.12	
14-May-15	Shallow MT	5.0	1.378	1.10		14-May-15	Trapnet	10.6	17.117	1.44	
14-May-15	Shallow MT	4.4	1.156	1.36		14-May-15	Trapnet	8.8	8.915	1.31	
14-May-15	Shallow MT	4.2	0.931	1.26		14-May-15	Trapnet	8.1	6.172	1.16	
14-May-15	Shallow MT	5.7	2.200	1.19		14-May-15	Trapnet	9.6	12.165	1.37	

Table E.14: Fish Measurements at Boat Harbour - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments	Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments
14-May-15	Shallow MT	4.7	1.482	1.43		14-May-15	Trapnet	9.3	12.183	1.51	
14-May-15	Shallow MT	4.7	1.176	1.13		14-May-15	Trapnet	4.2	0.881	1.19	
14-May-15	Shallow MT	4.6	1.132	1.16		14-May-15	Trapnet	9.7	11.067	1.21	
14-May-15	Trapnet	9.4	10.721	1.29		14-May-15	Trapnet	8.9	9.053	1.28	
14-May-15	Trapnet	10.4	17.953	1.60	checked ok	14-May-15	Trapnet	11.2	19.909	1.42	
14-May-15	Trapnet	9.5	12.104	1.41		14-May-15	Trapnet	8.7	7.862	1.19	
14-May-15	Trapnet	8.1	7.980	1.50		14-May-15	Trapnet	7.9	6.663	1.35	
14-May-15	Trapnet	9.4	10.552	1.27		14-May-15	Trapnet	8.5	8.174	1.33	
14-May-15	Trapnet	8.2	7.276	1.32		14-May-15	Trapnet	9.3	11.337	1.41	
14-May-15	Trapnet	8.6	7.289	1.15		14-May-15	Trapnet	6.5	3.513	1.28	
14-May-15	Trapnet	9.9	12.608	1.30		14-May-15	Trapnet	8.7	8.349	1.27	
14-May-15	Trapnet	7.2	4.595	1.23		14-May-15	Trapnet	9.8	12.610	1.34	
14-May-15	Trapnet	10.3	13.274	1.21		14-May-15	Trapnet	8.5	7.579	1.23	
14-May-15	Trapnet	9.2	9.902	1.27		14-May-15	Trapnet	9.1	8.587	1.14	
14-May-15	Trapnet	7.1	4.329	1.21		14-May-15	Trapnet	8.0	6.142	1.20	
14-May-15	Trapnet	9.8	13.327	1.42		14-May-15	Trapnet	7.3	5.501	1.41	
14-May-15	Trapnet	10.5	16.094	1.39		14-May-15	Trapnet	9.1	9.119	1.21	
14-May-15	Trapnet	11.3	17.994	1.25		14-May-15	Trapnet	7.8	6.123	1.29	
14-May-15	Trapnet	7.9	5.997	1.22		14-May-15	Trapnet	10.2	13.888	1.31	
14-May-15	Trapnet	9.9	13.141	1.35		14-May-15	Trapnet	9.6	13.162	1.49	
14-May-15	Trapnet	7.2	5.121	1.37		14-May-15	Trapnet	8.9	10.164	1.44	
14-May-15	Trapnet	9.9	13.190	1.36	recap from August	14-May-15	Trapnet	10.9	19.816	1.53	
14-May-15	Trapnet	7.3	4.721	1.21		14-May-15	Trapnet	10.4	14.525	1.29	
14-May-15	Trapnet	7.9	6.355	1.29		14-May-15	Trapnet	9.8	12.102	1.29	
14-May-15	Trapnet	11.9	21.469	1.27		14-May-15	Trapnet	8.1	6.437	1.21	checked ok
14-May-15	Trapnet	7.1	4.259	1.19		14-May-15	Trapnet	11.9	24.375	1.45	
14-May-15	Trapnet	8.6	7.481	1.18		14-May-15	Trapnet	9.2	10.080	1.29	
14-May-15	Trapnet	7.3	4.969	1.28		14-May-15	Trapnet	6.7	3.828	1.27	
14-May-15	Trapnet	10.1	12.692	1.23		14-May-15	Trapnet	5.4	2.178	1.38	
14-May-15	Trapnet	7.1	4.884	1.36		14-May-15	Trapnet	7.6	6.081	1.39	
14-May-15	Trapnet	8.9	8.847	1.25		14-May-15	Trapnet	5.5	1.959	1.18	
14-May-15	Trapnet	8.8	9.419	1.38		14-May-15	Trapnet	5.9	2.549	1.24	
14-May-15	Trapnet	7.7	6.351	1.39		14-May-15	Trapnet	7.6	5.338	1.22	
14-May-15	Trapnet	7.2	4.721	1.26		14-May-15	Trapnet	7.0	4.208	1.23	
14-May-15	Trapnet	9.6	12.576	1.42		14-May-15	Trapnet	7.9	5.916	1.20	
14-May-15	Trapnet	8.8	7.939	1.16		14-May-15	Trapnet	9.1	8.648	1.15	
14-May-15	Trapnet	8.0	7.252	1.42		14-May-15	Trapnet	11.5	21.032	1.38	
14-May-15	Trapnet	8.6	9.378	1.47		14-May-15	Trapnet	5.5	2.295	1.38	
14-May-15	Trapnet	9.7	13.199	1.45		14-May-15	Trapnet	5.8	2.593	1.33	
14-May-15	Trapnet	8.4	7.548	1.27		14-May-15	Trapnet	4.7	1.267	1.22	
14-May-15	Trapnet	10.5	16.337	1.41		14-May-15	Trapnet	9.3	11.627	1.45	
14-May-15	Trapnet	7.7	6.311	1.38		14-May-15	Trapnet	10.2	17.209	1.62	
14-May-15	Trapnet	7.5	5.056	1.20		14-May-15	Trapnet	7.6	5.707	1.30	
14-May-15	Trapnet	9.7	11.470	1.26		14-May-15	Trapnet	12.8	30.816	1.47	
14-May-15	Trapnet	5.4	1.978	1.26		14-May-15	Trapnet	4.8	1.309	1.18	checked ok
14-May-15	Trapnet	9.3	10.302	1.28		14-May-15	Trapnet	7.8	6.319	1.33	
14-May-15	Trapnet	8.2	7.404	1.34		14-May-15	Trapnet	9.0	10.140	1.39	
14-May-15	Trapnet	5.4	2.218	1.41		14-May-15	Trapnet	7.7	6.185	1.35	
14-May-15	Trapnet	9.0	10.462	1.44		14-May-15	Trapnet	5.3	1.758	1.18	
14-May-15	Trapnet	10.2	16.360	1.54	checked ok	14-May-15	Trapnet	12.0	22.090	1.28	

Table E.14: Fish Measurements at Boat Harbour - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments	Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments
14-May-15	Trapnet	7.6	5.323	1.21		14-May-15	Trapnet	9.0	9.605	1.32	
14-May-15	Trapnet	7.3	5.121	1.32		14-May-15	Trapnet	10.7	18.826	1.54	
14-May-15	Trapnet	7.4	5.009	1.24		14-May-15	Trapnet	10.1	15.281	1.48	
14-May-15	Trapnet	6.8	4.512	1.43		14-May-15	Trapnet	7.3	5.395	1.39	
14-May-15	Trapnet	8.3	6.641	1.16		14-May-15	Trapnet	8.9	9.686	1.37	checked ok
14-May-15	Trapnet	9.0	10.293	1.41		14-May-15	Trapnet	11.4	20.326	1.37	
14-May-15	Trapnet	11.2	17.564	1.25		14-May-15	Trapnet	9.0	8.835	1.21	
14-May-15	Trapnet	6.6	3.381	1.18		14-May-15	Trapnet	7.3	5.189	1.33	
14-May-15	Trapnet	8.2	7.030	1.28		14-May-15	Trapnet	5.2	1.732	1.23	
14-May-15	Trapnet	7.2	4.806	1.29		14-May-15	Trapnet	7.4	5.294	1.31	
14-May-15	Trapnet	5.3	1.951	1.31		14-May-15	Trapnet	7.7	5.743	1.26	
14-May-15	Trapnet	8.8	8.956	1.31		14-May-15	Trapnet	10.0	13.177	1.32	
14-May-15	Trapnet	9.3	10.457	1.30		14-May-15	Trapnet	8.1	6.665	1.25	
14-May-15	Trapnet	10.7	16.506	1.35		14-May-15	Trapnet	7.4	5.136	1.27	recap from August
14-May-15	Trapnet	8.9	8.196	1.16		14-May-15	Trapnet	7.5	5.758	1.36	
14-May-15	Trapnet	7.7	5.649	1.24		14-May-15	Trapnet	5.3	2.097	1.41	
14-May-15	Trapnet	7.7	6.092	1.33		14-May-15	Trapnet	6.6	3.293	1.15	
14-May-15	Trapnet	6.6	3.328	1.16		14-May-15	Trapnet	8.9	10.432	1.48	
14-May-15	Trapnet	8.2	7.984	1.45		14-May-15	Trapnet	7.7	5.262	1.15	
14-May-15	Trapnet	7.4	5.112	1.26		14-May-15	Trapnet	5.0	1.610	1.29	
14-May-15	Trapnet	4.8	1.484	1.34		14-May-15	Trapnet	9.1	8.536	1.13	
14-May-15	Trapnet	7.4	5.053	1.25		14-May-15	Trapnet	4.7	1.368	1.32	
14-May-15	Trapnet	7.3	4.360	1.12		14-May-15	Trapnet	7.7	6.043	1.32	
14-May-15	Trapnet	7.3	5.411	1.39		14-May-15	Trapnet	8.5	7.878	1.28	
14-May-15	Trapnet	4.9	1.567	1.33		14-May-15	Trapnet	9.2	12.024	1.54	
14-May-15	Trapnet	5.2	1.927	1.37		14-May-15	Trapnet	9.5	11.338	1.32	
14-May-15	Trapnet	5.1	1.594	1.20		14-May-15	Trapnet	9.2	11.030	1.42	
14-May-15	Trapnet	6.6	3.374	1.17		14-May-15	Trapnet	8.9	8.535	1.21	checked ok
14-May-15	Trapnet	7.5	5.409	1.28		14-May-15	Trapnet	8.1	6.701	1.26	
14-May-15	Trapnet	5.3	1.708	1.15		14-May-15	Trapnet	9.0	8.902	1.22	
14-May-15	Trapnet	7.5	5.841	1.38		14-May-15	Trapnet	8.9	9.462	1.34	
14-May-15	Trapnet	7.2	4.927	1.32		14-May-15	Trapnet	11.4	21.272	1.44	
14-May-15	Trapnet	8.7	7.926	1.20		14-May-15	Trapnet	12.9	29.901	1.39	
14-May-15	Trapnet	10.4	16.444	1.46		14-May-15	Trapnet	10.0	13.221	1.32	
14-May-15	Trapnet	10.1	13.467	1.31		14-May-15	Trapnet	5.7	2.466	1.33	
14-May-15	Trapnet	6.7	4.030	1.34		14-May-15	Trapnet	5.9	2.797	1.36	
14-May-15	Trapnet	10.7	17.443	1.42		14-May-15	Trapnet	5.4	2.001	1.27	
14-May-15	Trapnet	9.4	10.787	1.30		14-May-15	Trapnet	8.2	7.418	1.35	
14-May-15	Trapnet	8.2	6.522	1.18		14-May-15	Trapnet	7.7	5.810	1.27	
14-May-15	Trapnet	8.7	9.463	1.44		14-May-15	Trapnet	5.6	2.328	1.33	
14-May-15	Trapnet	13.1	28.041	1.25		14-May-15	Trapnet	10.1	13.487	1.31	
14-May-15	Trapnet	10.9	18.744	1.45		14-May-15	Trapnet	9.7	12.383	1.36	
14-May-15	Trapnet	8.7	8.649	1.31		14-May-15	Trapnet	9.6	12.278	1.39	
14-May-15	Trapnet	8.5	9.309	1.52		14-May-15	Trapnet	9.1	12.206	1.62	
14-May-15	Trapnet	8.5	8.539	1.39		14-May-15	Trapnet	9.3	11.675	1.45	
14-May-15	Trapnet	7.6	5.522	1.26		14-May-15	Trapnet	5.2	1.525	1.08	
14-May-15	Trapnet	8.7	8.170	1.24		14-May-15	Trapnet	8.1	6.689	1.26	checked ok
14-May-15	Trapnet	9.6	13.327	1.51		14-May-15	Trapnet	6.9	4.332	1.32	
14-May-15	Trapnet	7.5	5.512	1.31		14-May-15	Trapnet	4.9	1.496	1.27	

Table E.14: Fish Measurements at Boat Harbour - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments	Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments
14-May-15	Trapnet	6.1	2.907	1.28		14-May-15	Trapnet	4.8	1.381	1.25	
14-May-15	Trapnet	8.2	7.327	1.33		14-May-15	Trapnet	10.9	15.512	1.20	
14-May-15	Trapnet	8.9	8.406	1.19		14-May-15	Trapnet	7.1	4.644	1.30	
14-May-15	Trapnet	9.2	10.658	1.37		14-May-15	Trapnet	10.6	14.830	1.25	
14-May-15	Trapnet	8.1	6.446	1.21		14-May-15	Trapnet	8.2	7.134	1.29	
14-May-15	Trapnet	9.2	8.429	1.08		14-May-15	Trapnet	6.8	4.603	1.46	
14-May-15	Trapnet	7.9	6.481	1.31		14-May-15	Trapnet	11.5	21.566	1.42	
14-May-15	Trapnet	9.3	11.158	1.39		14-May-15	Trapnet	9.4	11.157	1.34	
14-May-15	Trapnet	12.4	25.165	1.32		14-May-15	Trapnet	8.3	7.892	1.38	
14-May-15	Trapnet	11.7	21.351	1.33		14-May-15	Trapnet	11.5	23.796	1.56	
14-May-15	Trapnet	8.3	7.174	1.25		14-May-15	Trapnet	12.7	25.321	1.24	
14-May-15	Trapnet	9.2	10.800	1.39		14-May-15	Trapnet	6.7	3.748	1.25	
14-May-15	Trapnet	5.3	1.770	1.19		14-May-15	Trapnet	7.2	4.840	1.30	checked ok
14-May-15	Trapnet	7.8	6.362	1.34		14-May-15	Trapnet	5.3	1.711	1.15	
14-May-15	Trapnet	7.7	6.512	1.43		14-May-15	Trapnet	7.6	5.569	1.27	
14-May-15	Trapnet	10.1	13.943	1.35		14-May-15	Trapnet	4.8	1.256	1.14	
14-May-15	Trapnet	8.4	8.352	1.41		14-May-15	Trapnet	4.9	1.492	1.27	
14-May-15	Trapnet	7.3	4.615	1.19		14-May-15	Trapnet	5.2	1.793	1.28	
14-May-15	Trapnet	9.6	11.823	1.34		14-May-15	Trapnet	4.6	1.163	1.19	
14-May-15	Trapnet	5.5	2.188	1.32		14-May-15	Trapnet	8.4	7.894	1.33	
14-May-15	Trapnet	7.9	6.056	1.23		14-May-15	Trapnet	5.2	1.767	1.26	
14-May-15	Trapnet	7.0	4.490	1.31		14-May-15	Trapnet	9.6	11.890	1.34	
14-May-15	Trapnet	8.8	8.947	1.31		14-May-15	Trapnet	11.1	16.599	1.21	
14-May-15	Trapnet	8.6	7.407	1.16		14-May-15	Trapnet	7.4	5.260	1.30	
14-May-15	Trapnet	9.2	11.747	1.51		14-May-15	Trapnet	8.9	9.519	1.35	
14-May-15	Trapnet	8.1	7.134	1.34		14-May-15	Trapnet	10.7	17.425	1.42	
14-May-15	Trapnet	9.0	9.169	1.26		14-May-15	Trapnet	4.6	1.223	1.26	
14-May-15	Trapnet	9.2	9.461	1.21		14-May-15	Trapnet	7.1	4.333	1.21	
14-May-15	Trapnet	10.6	17.421	1.46		14-May-15	Trapnet	11.4	21.009	1.42	
14-May-15	Trapnet	9.2	10.383	1.33		14-May-15	Trapnet	8.1	7.226	1.36	
14-May-15	Trapnet	8.7	8.575	1.30		14-May-15	Trapnet	11.3	19.396	1.34	
14-May-15	Trapnet	7.9	6.343	1.29		14-May-15	Trapnet	10.7	17.092	1.40	
14-May-15	Trapnet	7.2	4.711	1.26		14-May-15	Trapnet	8.8	7.797	1.14	
14-May-15	Trapnet	7.8	5.709	1.20		14-May-15	Trapnet	8.1	6.921	1.30	
14-May-15	Trapnet	11.7	21.463	1.34		14-May-15	Trapnet	8.1	6.903	1.30	
14-May-15	Trapnet	8.1	6.944	1.31		14-May-15	Trapnet	6.4	3.416	1.30	
14-May-15	Trapnet	7.1	5.302	1.48		14-May-15	Trapnet	8.5	7.798	1.27	
14-May-15	Trapnet	9.1	8.905	1.18		14-May-15	Trapnet	9.6	12.131	1.37	
14-May-15	Trapnet	7.9	5.893	1.20		14-May-15	Trapnet	8.0	7.350	1.44	
14-May-15	Trapnet	7.9	6.572	1.33		14-May-15	Trapnet	4.8	1.313	1.19	
14-May-15	Trapnet	7.9	6.891	1.40		14-May-15	Trapnet	4.8	1.557	1.41	
14-May-15	Trapnet	7.9	6.190	1.26		14-May-15	Trapnet	5.7	2.072	1.12	
14-May-15	Trapnet	9.3	11.338	1.41		14-May-15	Trapnet	7.6	6.118	1.39	
14-May-15	Trapnet	7.8	5.423	1.14		14-May-15	Trapnet	7.9	6.608	1.34	
14-May-15	Trapnet	10.1	15.395	1.49		14-May-15	Trapnet	10.3	14.803	1.35	
14-May-15	Trapnet	10.1	13.925	1.35		14-May-15	Trapnet	5.1	1.580	1.19	
14-May-15	Trapnet	9.1	9.752	1.29		14-May-15	Trapnet	5.6	2.115	1.20	
14-May-15	Trapnet	8.7	8.714	1.32		14-May-15	Trapnet	6.2	2.909	1.22	
14-May-15	Trapnet	9.1	9.843	1.31		14-May-15	Trapnet	5.1	1.705	1.29	
14-May-15	Trapnet	8.7	8.276	1.26		14-May-15	Trapnet	10.7	16.464	1.34	
14-May-15	Trapnet	6.6	3.342	1.16		14-May-15	Trapnet	4.1	0.829	1.20	
14-May-15	Trapnet	5.7	2.287	1.23		14-May-15	Trapnet	8.3	7.703	1.35	
14-May-15	Trapnet	4.8	1.318	1.19		14-May-15	Trapnet	8.4	8.207	1.38	

Table E.14: Fish Measurements at Boat Harbour - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments	Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Comments
14-May-15	Trapnet	7.3	4.825	1.24		14-May-15	Trapnet	8.8	8.415	1.23	
14-May-15	Trapnet	7.7	6.659	1.46		14-May-15	Trapnet	4.7	1.196	1.15	
14-May-15	Trapnet	8.9	9.169	1.30		14-May-15	Trapnet	5.2	1.601	1.14	
14-May-15	Trapnet	5.5	2.096	1.26		14-May-15	Trapnet	6.4	3.633	1.39	
14-May-15	Trapnet	5.3	1.841	1.24		14-May-15	Trapnet	4.4	0.978	1.15	
14-May-15	Trapnet	8.1	6.977	1.31		14-May-15	Trapnet	7.5	5.399	1.28	
14-May-15	Trapnet	7.7	5.220	1.14		14-May-15	Trapnet	4.9	1.363	1.16	
14-May-15	Trapnet	10.3	13.927	1.27							
Sample Size		731	731	731							
Mean		7.8	7.3	1.3							
Median		8.0	6.5	1.3							
Minimum		3.9	0.7	0.9							
Maximum		13.1	30.8	1.8							
Standard Deviation		1.94	5.22	0.11							
Standard Error		0.07	0.19	0.00							

Table E.15: Fish Measurements at Little Lake - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Date	GearID	Total Length (cm)	Body Weight (g)	Condition
16-May-15	Minnow Traps	7.4	5.232	1.29	17-May-15	Minnow	5.1	1.687	1.27
16-May-15	Minnow Traps	8.1	7.187	1.35	17-May-15	Minnow	6.6	3.649	1.27
16-May-15	Minnow Traps	6.7	3.767	1.25	17-May-15	Minnow	5.4	1.867	1.19
16-May-15	Minnow Traps	7.8	6.127	1.29	17-May-15	Minnow	4.8	1.221	1.10
16-May-15	Minnow Traps	7.0	4.169	1.22	17-May-15	Minnow	6.8	4.896	1.56
16-May-15	Minnow Traps	5.9	2.491	1.21	17-May-15	Minnow	5.5	2.061	1.24
16-May-15	Minnow Traps	6.0	2.561	1.19	17-May-15	Minnow	6.9	4.232	1.29
16-May-15	Minnow Traps	5.9	2.370	1.15	17-May-15	Minnow	4.7	1.223	1.18
16-May-15	Minnow Traps	7.6	5.268	1.20	17-May-15	Minnow	5.1	1.334	1.01
16-May-15	Minnow Traps	4.7	1.121	1.08	17-May-15	Minnow	6.2	2.958	1.24
16-May-15	Minnow Traps	7.9	6.261	1.27	17-May-15	Minnow	5.9	2.697	1.31
16-May-15	Minnow Traps	6.7	3.789	1.26	17-May-15	Seine Net	5.8	2.493	1.28
16-May-15	Minnow Traps	6.2	2.793	1.17	17-May-15	Seine Net	6.8	4.159	1.32
16-May-15	Minnow Traps	5.0	1.576	1.26	17-May-15	Seine Net	7.7	6.460	1.42
16-May-15	Minnow Traps	6.5	3.321	1.21	17-May-15	Seine Net	8.2	7.373	1.34
16-May-15	Minnow Traps	4.6	1.137	1.17	17-May-15	Seine Net	8.3	7.504	1.31
16-May-15	Minnow Traps	4.6	1.062	1.09	17-May-15	Seine Net	7.7	5.321	1.17
16-May-15	Minnow Traps	4.7	1.066	1.03	17-May-15	Seine Net	6.9	4.029	1.23
16-May-15	Minnow Traps	7.6	5.288	1.20	17-May-15	Seine Net	6.4	3.032	1.16
16-May-15	Minnow Traps	7.8	5.638	1.19	17-May-15	Seine Net	8.1	6.467	1.22
16-May-15	Minnow Traps	5.6	2.077	1.18	17-May-15	Seine Net	8.4	8.229	1.39
16-May-15	Minnow Traps	5.4	1.835	1.17	17-May-15	Seine Net	7.8	6.489	1.37
16-May-15	Minnow Traps	4.7	1.123	1.08	17-May-15	Seine Net	6.5	3.436	1.25
16-May-15	Minnow Traps	4.2	0.809	1.09	17-May-15	Seine Net	6.3	3.065	1.23
16-May-15	Minnow Traps	4.1	0.729	1.06	17-May-15	Seine Net	8.1	7.053	1.33
16-May-15	Minnow Traps	6.4	3.126	1.19	17-May-15	Seine Net	8.3	7.918	1.38
16-May-15	Minnow Traps	7.9	6.548	1.33	17-May-15	Seine Net	8.1	6.984	1.31
16-May-15	Minnow Traps	5.5	2.195	1.32	17-May-15	Seine Net	8.1	6.633	1.25
16-May-15	Minnow Traps	6.0	2.513	1.16	17-May-15	Seine Net	7.7	6.703	1.47
16-May-15	Minnow Traps	6.1	2.853	1.26	17-May-15	Seine Net	6.9	4.288	1.31
16-May-15	Minnow Traps	5.4	1.649	1.05	17-May-15	Seine Net	8.4	7.761	1.31
16-May-15	Minnow Traps	4.2	0.726	0.98	17-May-15	Seine Net	7.9	6.062	1.23
16-May-15	Minnow Traps	7.3	4.726	1.21	17-May-15	Seine Net	8.7	8.932	1.36
16-May-15	Minnow Traps	8.6	8.309	1.31	17-May-15	Seine Net	7.1	4.928	1.38
16-May-15	Minnow Traps	6.3	3.108	1.24	17-May-15	Seine Net	8.3	7.770	1.36
16-May-15	Minnow Traps	6.2	3.025	1.27	17-May-15	Seine Net	7.2	5.395	1.45
16-May-15	Minnow Traps	5.5	1.810	1.09	17-May-15	Seine Net	7.1	5.052	1.41
16-May-15	Minnow Traps	5.1	1.459	1.10	17-May-15	Seine Net	8.4	7.501	1.27
16-May-15	Minnow Traps	7.1	5.181	1.45	17-May-15	Seine Net	8.1	7.016	1.32
16-May-15	Minnow Traps	6.9	4.219	1.28	17-May-15	Seine Net	8.1	7.141	1.34
16-May-15	Minnow Traps	7.1	4.606	1.29	17-May-15	Seine Net	6.2	3.201	1.34
16-May-15	Minnow Traps	6.1	2.540	1.12	17-May-15	Seine Net	7.8	6.158	1.30
16-May-15	Minnow Traps	6.0	2.499	1.16	17-May-15	Seine Net	7.1	4.345	1.21

Table E.15: Fish Measurements at Little Lake - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Date	GearID	Total Length (cm)	Body Weight (g)	Condition
16-May-15	Minnow Traps	4.8	1.258	1.14	17-May-15	Seine Net	8.1	6.239	1.17
16-May-15	Minnow Traps	4.3	0.869	1.09	17-May-15	Seine Net	7.6	6.308	1.44
16-May-15	Minnow Traps	4.8	1.292	1.17	17-May-15	Seine Net	7.5	5.254	1.25
16-May-15	Minnow Traps	7.0	4.245	1.24	17-May-15	Seine Net	8.1	6.546	1.23
16-May-15	Minnow Traps	7.4	5.074	1.25	17-May-15	Seine Net	8.0	6.301	1.23
16-May-15	Minnow Traps	6.6	3.589	1.25	17-May-15	Seine Net	8.2	7.396	1.34
16-May-15	Minnow Traps	6.8	4.605	1.46	17-May-15	Seine Net	6.2	3.058	1.28
16-May-15	Minnow Traps	7.8	5.851	1.23	17-May-15	Seine Net	8.1	7.136	1.34
16-May-15	Minnow Traps	5.5	1.970	1.18	17-May-15	Seine Net	8.4	8.433	1.42
16-May-15	Minnow Traps	7.9	5.633	1.14	17-May-15	Seine Net	8.4	7.949	1.34
16-May-15	Minnow Traps	7.7	5.509	1.21	17-May-15	Seine Net	6.4	3.383	1.29
16-May-15	Minnow Traps	7.3	5.178	1.33	17-May-15	Seine Net	7.6	5.458	1.24
16-May-15	Minnow Traps	6.9	4.399	1.34	17-May-15	Seine Net	7.8	7.203	1.52
16-May-15	Minnow Traps	7.2	4.325	1.16	17-May-15	Seine Net	6.3	3.435	1.37
16-May-15	Minnow Traps	5.7	2.559	1.38	17-May-15	Seine Net	8.1	7.374	1.39
16-May-15	Minnow Traps	5.2	1.714	1.22	17-May-15	Seine Net	6.2	2.984	1.25
16-May-15	Minnow Traps	4.2	0.795	1.07	17-May-15	Seine Net	8.7	8.654	1.31
17-May-15	Minnow Traps	7.3	4.758	1.22	17-May-15	Seine Net	7.8	6.229	1.31
17-May-15	Minnow Traps	6.4	3.388	1.29	17-May-15	Seine Net	6.8	4.286	1.36
17-May-15	Minnow Traps	6.8	3.817	1.21	17-May-15	Seine Net	7.4	5.038	1.24
17-May-15	Minnow Traps	7.1	4.098	1.14	17-May-15	Seine Net	7.5	5.550	1.32
17-May-15	Minnow Traps	6.2	2.997	1.26	17-May-15	Seine Net	7.1	4.178	1.17
17-May-15	Minnow Traps	5.8	2.672	1.37	17-May-15	Seine Net	7.9	6.478	1.31
17-May-15	Minnow Traps	5.9	2.361	1.15	17-May-15	Seine Net	7.1	4.825	1.35
17-May-15	Minnow Traps	5.9	2.457	1.20	17-May-15	Seine Net	7.4	6.204	1.53
17-May-15	Minnow Traps	5.0	1.348	1.08	17-May-15	Seine Net	7.0	4.218	1.23
17-May-15	Minnow Traps	4.8	1.374	1.24	17-May-15	Seine Net	7.6	5.862	1.34
17-May-15	Minnow Traps	7.7	5.701	1.25	17-May-15	Seine Net	8.8	8.665	1.27
17-May-15	Minnow Traps	6.9	3.644	1.11	17-May-15	Seine Net	8.8	9.195	1.35
17-May-15	Minnow Traps	7.1	4.547	1.27	17-May-15	Seine Net	7.2	4.613	1.24
17-May-15	Minnow Traps	6.2	2.772	1.16	17-May-15	Seine Net	7.8	6.601	1.39
17-May-15	Minnow Traps	5.7	2.233	1.21	17-May-15	Seine Net	7.1	4.293	1.20
17-May-15	Minnow Traps	5.2	1.575	1.12	17-May-15	Seine Net	6.6	3.733	1.30
17-May-15	Minnow Traps	7.6	5.416	1.23	17-May-15	Seine Net	8.5	8.447	1.38
17-May-15	Minnow Traps	6.9	4.128	1.26	17-May-15	Seine Net	8.2	7.009	1.27
17-May-15	Minnow Traps	6.7	3.552	1.18	17-May-15	Seine Net	8.7	9.050	1.37
17-May-15	Minnow Traps	4.4	0.966	1.13	17-May-15	Seine Net	8.1	6.984	1.31
17-May-15	Minnow Traps	7.2	4.776	1.28	17-May-15	Seine Net	7.3	5.415	1.39
17-May-15	Minnow Traps	6.1	2.985	1.32	17-May-15	Seine Net	6.7	4.215	1.40
17-May-15	Minnow Traps	6.6	3.501	1.22	17-May-15	Seine Net	7.7	5.672	1.24
17-May-15	Minnow Traps	7.4	4.964	1.23	17-May-15	Seine Net	8.2	7.164	1.30
17-May-15	Minnow Traps	7.1	4.658	1.30	17-May-15	Seine Net	8.2	7.076	1.28
17-May-15	Minnow Traps	6.4	3.175	1.21	17-May-15	Seine Net	7.1	4.375	1.22

Table E.15: Fish Measurements at Little Lake - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Date	GearID	Total Length (cm)	Body Weight (g)	Condition
17-May-15	Minnow Traps	5.2	1.481	1.05	17-May-15	Seine Net	5.8	2.384	1.22
17-May-15	Minnow Traps	4.4	0.912	1.07	17-May-15	Seine Net	8.6	8.441	1.33
17-May-15	Minnow Traps	4.9	1.351	1.15	17-May-15	Seine Net	7.5	5.672	1.34
17-May-15	Minnow Traps	4.5	1.060	1.16	17-May-15	Seine Net	8.1	6.948	1.31
17-May-15	Minnow Traps	5.3	1.665	1.12	17-May-15	Seine Net	6.2	3.123	1.31
17-May-15	Minnow Traps	6.4	3.044	1.16	17-May-15	Seine Net	8.4	7.165	1.21
17-May-15	Minnow Traps	4.3	0.910	1.14	17-May-15	Seine Net	7.6	5.937	1.35
17-May-15	Minnow Traps	7.2	4.488	1.20	17-May-15	Seine Net	7.6	5.402	1.23
17-May-15	Minnow Traps	5.1	1.589	1.20	17-May-15	Seine Net	7.0	4.618	1.35
17-May-15	Minnow Traps	7.5	5.298	1.26	17-May-15	Seine Net	7.5	5.364	1.27
17-May-15	Minnow Traps	6.4	3.589	1.37	17-May-15	Seine Net	7.9	7.225	1.47
17-May-15	Minnow Traps	6.1	2.531	1.12	17-May-15	Seine Net	7.5	5.264	1.25
17-May-15	Minnow Traps	5.3	1.897	1.27	17-May-15	Seine Net	7.9	6.305	1.28
17-May-15	Minnow Traps	5.4	1.816	1.15	17-May-15	Seine Net	8.3	7.640	1.34
17-May-15	Minnow Traps	4.4	1.100	1.29	17-May-15	Seine Net	7.2	4.508	1.21
17-May-15	Minnow Traps	4.8	1.323	1.20	17-May-15	Seine Net	6.5	4.057	1.48
17-May-15	Minnow Traps	5.1	1.546	1.17	17-May-15	Seine Net	6.3	3.134	1.25
17-May-15	Minnow Traps	6.7	3.679	1.22	17-May-15	Seine Net	8.1	6.449	1.21
17-May-15	Minnow Traps	7.8	6.423	1.35	17-May-15	Seine Net	7.4	5.667	1.40
17-May-15	Minnow Traps	6.2	2.661	1.12	17-May-15	Seine Net	8.1	6.920	1.30
17-May-15	Minnow Traps	7.8	5.599	1.18	17-May-15	Seine Net	7.6	6.181	1.41
17-May-15	Minnow Traps	6.7	3.548	1.18	17-May-15	Seine Net	6.3	3.252	1.30
17-May-15	Minnow Traps	6.4	3.587	1.37	17-May-15	Seine Net	6.2	2.949	1.24
17-May-15	Minnow Traps	6.1	2.820	1.24	17-May-15	Seine Net	7.8	6.257	1.32
17-May-15	Minnow Traps	6.6	3.543	1.23	17-May-15	Seine Net	5.1	1.481	1.12
17-May-15	Minnow Traps	6.3	3.457	1.38	17-May-15	Seine Net	7.2	4.550	1.22
17-May-15	Minnow Traps	6.7	3.578	1.19	17-May-15	Seine Net	6.6	3.742	1.30
17-May-15	Minnow Traps	6.9	4.040	1.23	17-May-15	Seine Net	7.3	5.017	1.29
17-May-15	Minnow Traps	6.4	3.107	1.19	17-May-15	Seine Net	7.6	6.223	1.42
17-May-15	Minnow Traps	5.9	2.806	1.37	17-May-15	Seine Net	7.5	5.572	1.32
17-May-15	Minnow Traps	7.9	6.324	1.28	17-May-15	Seine Net	7.2	4.803	1.29
17-May-15	Minnow Traps	7.1	4.357	1.22	17-May-15	Seine Net	7.1	4.109	1.15
17-May-15	Minnow Traps	7.7	5.808	1.27	17-May-15	Seine Net	2.8	0.225	1.02
17-May-15	Minnow Traps	7.7	5.187	1.14	17-May-15	Seine Net	5.8	2.538	1.30
17-May-15	Minnow Traps	6.6	3.298	1.15	17-May-15	Seine Net	7.9	6.545	1.33
17-May-15	Minnow Traps	6.0	2.326	1.08	17-May-15	Seine Net	6.7	4.278	1.42
17-May-15	Minnow Traps	7.1	4.280	1.20	17-May-15	Seine Net	7.4	5.314	1.31
17-May-15	Minnow Traps	6.1	2.519	1.11	17-May-15	Seine Net	5.6	2.178	1.24
17-May-15	Minnow Traps	5.5	2.054	1.23	17-May-15	Seine Net	4.2	0.856	1.16
17-May-15	Minnow Traps	7.2	4.503	1.21	17-May-15	Seine Net	6.7	4.115	1.37
17-May-15	Minnow Traps	6.7	3.820	1.27	17-May-15	Seine Net	7.7	6.270	1.37
17-May-15	Minnow Traps	6.9	4.227	1.29	17-May-15	Seine Net	7.1	4.960	1.39
17-May-15	Minnow Traps	6.2	2.919	1.22	17-May-15	Seine Net	7.6	5.871	1.34

Table E.15: Fish Measurements at Little Lake - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Date	GearID	Total Length (cm)	Body Weight (g)	Condition
17-May-15	Minnow Traps	7.1	5.002	1.40	17-May-15	Seine Net	6.7	3.653	1.21
17-May-15	Minnow Traps	7.1	4.241	1.18	17-May-15	Seine Net	7.3	4.795	1.23
17-May-15	Minnow Traps	7.2	4.680	1.25	17-May-15	Seine Net	6.9	4.653	1.42
17-May-15	Minnow Traps	6.7	4.331	1.44	17-May-15	Seine Net	7.1	4.152	1.16
17-May-15	Minnow Traps	6.1	2.972	1.31	17-May-15	Seine Net	7.2	4.854	1.30
17-May-15	Minnow Traps	6.5	3.686	1.34	17-May-15	Seine Net	6.6	3.702	1.29
17-May-15	Minnow Traps	7.4	5.615	1.39	17-May-15	Seine Net	4.5	1.191	1.31
17-May-15	Minnow Traps	7.3	4.705	1.21	17-May-15	Seine Net	6.2	2.778	1.17
17-May-15	Minnow Traps	5.1	1.556	1.17	17-May-15	Seine Net	7.7	5.921	1.30
17-May-15	Minnow Traps	4.9	1.195	1.02	17-May-15	Seine Net	6.6	3.621	1.26
17-May-15	Minnow Traps	4.7	1.325	1.28	17-May-15	Seine Net	7.1	4.826	1.35
17-May-15	Minnow Traps	6.8	4.050	1.29	17-May-15	Seine Net	6.7	3.926	1.31
17-May-15	Minnow Traps	6.7	4.199	1.40	17-May-15	Seine Net	7.3	4.632	1.19
17-May-15	Minnow Traps	7.1	4.940	1.38	17-May-15	Seine Net	7.6	5.306	1.21
17-May-15	Minnow Traps	6.9	3.887	1.18	17-May-15	Seine Net	7.3	5.057	1.30
17-May-15	Minnow Traps	7.0	4.226	1.23	17-May-15	Seine Net	7.3	5.152	1.32
17-May-15	Minnow Traps	8.1	6.800	1.28	17-May-15	Seine Net	5.6	2.103	1.20
17-May-15	Minnow Traps	6.9	3.849	1.17	17-May-15	Seine Net	7.3	4.815	1.24
17-May-15	Minnow Traps	7.3	5.379	1.38	17-May-15	Seine Net	7.2	4.808	1.29
17-May-15	Minnow Traps	5.2	1.612	1.15	17-May-15	Seine Net	6.8	4.385	1.39
17-May-15	Minnow Traps	7.5	5.389	1.28	17-May-15	Seine Net	6.7	3.805	1.27
17-May-15	Minnow Traps	8.0	7.159	1.40	17-May-15	Seine Net	7.0	4.186	1.22
17-May-15	Minnow Traps	7.1	4.737	1.32	17-May-15	Seine Net	6.4	3.245	1.24
17-May-15	Minnow Traps	7.7	7.146	1.57	17-May-15	Seine Net	6.9	3.812	1.16
17-May-15	Minnow Traps	7.2	5.062	1.36	17-May-15	Seine Net	6.8	4.168	1.33
17-May-15	Minnow Traps	6.2	3.000	1.26	17-May-15	Seine Net	7.7	5.789	1.27
17-May-15	Minnow Traps	5.8	2.465	1.26	17-May-15	Seine Net	7.4	5.233	1.29
17-May-15	Minnow Traps	6.8	4.069	1.29	17-May-15	Seine Net	7.1	4.992	1.39
17-May-15	Minnow Traps	4.8	1.253	1.13	17-May-15	Seine Net	6.8	4.059	1.29
17-May-15	Minnow Traps	7.4	5.114	1.26	17-May-15	Seine Net	7.8	6.209	1.31
17-May-15	Minnow Traps	6.4	3.522	1.34	17-May-15	Seine Net	7.4	5.778	1.43
17-May-15	Minnow Traps	5.6	2.489	1.42	17-May-15	Seine Net	6.5	3.641	1.33
17-May-15	Minnow Traps	6.1	2.871	1.26	17-May-15	Seine Net	7.2	4.478	1.20
17-May-15	Minnow Traps	4.5	1.026	1.13	17-May-15	Seine Net	6.4	3.436	1.31
17-May-15	Minnow Traps	4.9	1.149	0.98	17-May-15	Seine Net	7.6	5.318	1.21
17-May-15	Minnow Traps	6.9	4.247	1.29	17-May-15	Seine Net	7.1	4.582	1.28
17-May-15	Minnow Traps	5.4	1.836	1.17	17-May-15	Seine Net	7.9	6.554	1.33
17-May-15	Minnow Traps	7.1	4.325	1.21	17-May-15	Seine Net	7.4	4.698	1.16
17-May-15	Minnow Traps	6.3	2.920	1.17	17-May-15	Seine Net	6.7	3.765	1.25
17-May-15	Minnow Traps	7.3	4.809	1.24	17-May-15	Seine Net	7.5	5.459	1.29
17-May-15	Minnow Traps	7.1	4.740	1.32	17-May-15	Seine Net	7.1	4.737	1.32
17-May-15	Minnow Traps	6.8	4.201	1.34	17-May-15	Seine Net	7.8	6.447	1.36
17-May-15	Minnow Traps	7.7	5.195	1.14	17-May-15	Seine Net	8.7	8.789	1.33

Table E.15: Fish Measurements at Little Lake - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Date	GearID	Total Length (cm)	Body Weight (g)	Condition
17-May-15	Minnow Traps	7.1	5.028	1.40	17-May-15	Seine Net	6.6	4.158	1.45
17-May-15	Minnow Traps	6.4	3.429	1.31	17-May-15	Seine Net	7.4	5.278	1.30
17-May-15	Minnow Traps	6.6	3.632	1.26	17-May-15	Seine Net	6.8	4.093	1.30
17-May-15	Minnow Traps	6.1	2.834	1.25	17-May-15	Seine Net	6.2	3.176	1.33
17-May-15	Minnow Traps	6.2	3.048	1.28	17-May-15	Seine Net	3.7	0.564	1.11
17-May-15	Minnow Traps	6.6	3.810	1.33	17-May-15	Seine Net	7.5	5.728	1.36
17-May-15	Minnow Traps	6.8	3.606	1.15	17-May-15	Seine Net	5.9	2.983	1.45
17-May-15	Minnow Traps	6.9	3.824	1.16	17-May-15	Seine Net	7.4	5.561	1.37
17-May-15	Minnow Traps	7.1	5.436	1.52	17-May-15	Seine Net	6.9	4.277	1.30
17-May-15	Minnow Traps	5.0	1.578	1.26	17-May-15	Seine Net	7.4	5.026	1.24
17-May-15	Minnow Traps	6.8	3.833	1.22	17-May-15	Seine Net	6.8	4.133	1.31
17-May-15	Minnow Traps	6.6	3.511	1.22	17-May-15	Seine Net	7.2	5.854	1.57
17-May-15	Minnow Traps	5.5	1.808	1.09	17-May-15	Seine Net	6.3	3.011	1.20
17-May-15	Minnow Traps	5.4	1.952	1.24	17-May-15	Seine Net	7.4	5.310	1.31
17-May-15	Minnow Traps	6.7	3.877	1.29	17-May-15	Seine Net	6.7	3.872	1.29
17-May-15	Minnow Traps	6.5	3.781	1.38	17-May-15	Seine Net	7.4	4.993	1.23
17-May-15	Minnow Traps	5.1	1.658	1.25	17-May-15	Seine Net	7.3	5.146	1.32
17-May-15	Minnow Traps	7.0	4.275	1.25	17-May-15	Seine Net	7.2	4.567	1.22
17-May-15	Minnow Traps	5.7	2.568	1.39	17-May-15	Seine Net	7.1	4.365	1.22
17-May-15	Minnow Traps	4.7	1.189	1.15	17-May-15	Seine Net	7.4	5.274	1.30
17-May-15	Minnow Traps	5.2	1.694	1.20	17-May-15	Seine Net	7.3	4.618	1.19
17-May-15	Minnow Traps	5.6	1.909	1.09	17-May-15	Seine Net	6.8	4.517	1.44
17-May-15	Minnow Traps	6.5	3.300	1.20	17-May-15	Seine Net	7.0	4.615	1.35
17-May-15	Minnow Traps	5.9	2.638	1.28	17-May-15	Seine Net	7.2	5.368	1.44
17-May-15	Minnow Traps	7.7	5.905	1.29	17-May-15	Seine Net	7.5	6.068	1.44
17-May-15	Minnow Traps	6.5	3.278	1.19	17-May-15	Seine Net	6.1	3.107	1.37
17-May-15	Minnow Traps	5.8	2.098	1.08	17-May-15	Seine Net	7.0	4.322	1.26
17-May-15	Minnow Traps	5.3	1.861	1.25	17-May-15	Seine Net	7.3	5.088	1.31
17-May-15	Minnow Traps	5.2	1.595	1.13	17-May-15	Seine Net	4.5	1.127	1.24
17-May-15	Minnow Traps	7.2	4.984	1.34	17-May-15	Seine Net	7.8	6.286	1.32
17-May-15	Minnow Traps	5.3	1.676	1.13	17-May-15	Seine Net	7.0	4.699	1.37
17-May-15	Minnow Traps	6.8	4.727	1.50	17-May-15	Seine Net	6.2	2.934	1.23
17-May-15	Minnow Traps	6.7	4.143	1.38	17-May-15	Seine Net	7.1	5.013	1.40
17-May-15	Minnow Traps	6.9	4.050	1.23	17-May-15	Seine Net	5.2	1.759	1.25
17-May-15	Minnow Traps	5.1	1.749	1.32	17-May-15	Seine Net	7.6	5.528	1.26
17-May-15	Minnow Traps	7.3	5.465	1.40	17-May-15	Seine Net	7.3	5.434	1.40
17-May-15	Minnow Traps	6.2	3.104	1.30	17-May-15	Seine Net	7.0	4.755	1.39
17-May-15	Minnow Traps	6.7	4.000	1.33	17-May-15	Seine Net	7.1	5.623	1.57
17-May-15	Minnow Traps	6.9	4.015	1.22	17-May-15	Seine Net	6.1	2.518	1.11
17-May-15	Minnow Traps	7.3	4.685	1.20	17-May-15	Seine Net	8.2	7.190	1.30
17-May-15	Minnow Traps	6.5	3.849	1.40	17-May-15	Seine Net	7.1	4.247	1.19
17-May-15	Minnow Traps	5.2	1.811	1.29	17-May-15	Seine Net	7.9	7.005	1.42
17-May-15	Minnow Traps	5.9	2.256	1.10	17-May-15	Seine Net	7.5	5.157	1.22

Table E.15: Fish Measurements at Little Lake - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Date	GearID	Total Length (cm)	Body Weight (g)	Condition
17-May-15	Minnow Traps	6.4	3.146	1.20	17-May-15	Seine Net	7.0	5.052	1.47
17-May-15	Minnow Traps	7.1	4.597	1.28	17-May-15	Seine Net	6.8	3.871	1.23
17-May-15	Minnow Traps	7.0	4.327	1.26	17-May-15	Seine Net	7.6	5.387	1.23
17-May-15	Minnow Traps	6.4	3.668	1.40	17-May-15	Seine Net	5.9	2.475	1.21
17-May-15	Minnow Traps	7.6	6.332	1.44	17-May-15	Seine Net	4.1	0.759	1.10
17-May-15	Minnow Traps	6.5	3.685	1.34	17-May-15	Seine Net	6.9	4.061	1.24
17-May-15	Minnow Traps	7.7	5.385	1.18	17-May-15	Seine Net	3.4	0.453	1.15
17-May-15	Minnow Traps	5.5	2.062	1.24	17-May-15	Seine Net	8.1	7.014	1.32
17-May-15	Minnow Traps	6.7	3.687	1.23	17-May-15	Seine Net	6.9	4.786	1.46
17-May-15	Minnow Traps	7.7	6.505	1.42	17-May-15	Seine Net	7.3	5.101	1.31
17-May-15	Minnow Traps	5.9	2.423	1.18	17-May-15	Seine Net	6.9	4.381	1.33
17-May-15	Minnow Traps	6.6	3.336	1.16	17-May-15	Seine Net	3.4	0.525	1.34
17-May-15	Minnow Traps	6.5	3.338	1.22	17-May-15	Seine Net	5.7	2.169	1.17
17-May-15	Minnow Traps	7.0	4.313	1.26	17-May-15	Seine Net	6.9	4.084	1.24
17-May-15	Minnow Traps	7.7	6.471	1.42	17-May-15	Seine Net	7.5	5.198	1.23
17-May-15	Minnow Traps	6.4	3.586	1.37	17-May-15	Seine Net	7.6	5.263	1.20
17-May-15	Minnow Traps	7.0	4.441	1.29	17-May-15	Seine Net	6.8	4.190	1.33
17-May-15	Minnow Traps	7.6	5.546	1.26	17-May-15	Seine Net	6.7	3.999	1.33
17-May-15	Minnow Traps	5.2	1.681	1.20	17-May-15	Seine Net	7.2	4.971	1.33
17-May-15	Minnow Traps	6.6	3.877	1.35	17-May-15	Seine Net	7.2	4.524	1.21
17-May-15	Minnow Traps	6.8	4.117	1.31	17-May-15	Seine Net	6.7	4.182	1.39
17-May-15	Minnow Traps	5.5	2.036	1.22	17-May-15	Seine Net	6.3	3.174	1.27
17-May-15	Minnow Traps	6.2	3.230	1.36	17-May-15	Seine Net	6.7	3.723	1.24
17-May-15	Minnow Traps	7.2	4.618	1.24	17-May-15	Seine Net	6.0	2.517	1.17
17-May-15	Minnow Traps	7.7	5.425	1.19	17-May-15	Seine Net	7.6	5.514	1.26
17-May-15	Minnow Traps	7.8	7.038	1.48	17-May-15	Seine Net	7.0	4.402	1.28
17-May-15	Minnow Traps	6.8	3.878	1.23	17-May-15	Seine Net	7.1	4.122	1.15
17-May-15	Minnow Traps	6.0	2.422	1.12	17-May-15	Seine Net	6.9	4.223	1.29
17-May-15	Minnow Traps	6.5	3.399	1.24	17-May-15	Seine Net	3.1	0.404	1.36
17-May-15	Minnow Traps	6.4	3.216	1.23	17-May-15	Seine Net	7.4	5.464	1.35
17-May-15	Minnow Traps	6.8	3.822	1.22	17-May-15	Seine Net	7.2	5.182	1.39
17-May-15	Minnow Traps	7.2	4.645	1.24	17-May-15	Seine Net	7.3	4.403	1.13
17-May-15	Minnow Traps	7.0	4.721	1.38	17-May-15	Seine Net	4.8	1.239	1.12
17-May-15	Minnow Traps	7.0	3.673	1.07	17-May-15	Seine Net	5.6	2.129	1.21
17-May-15	Minnow Traps	7.7	6.289	1.38	17-May-15	Seine Net	6.6	4.159	1.45
17-May-15	Minnow Traps	7.1	4.443	1.24	17-May-15	Seine Net	3.6	0.592	1.27
17-May-15	Minnow Traps	6.0	2.750	1.27	17-May-15	Seine Net	3.6	0.502	1.08
17-May-15	Minnow Traps	7.7	5.792	1.27	17-May-15	Seine Net	6.0	2.475	1.15
17-May-15	Minnow Traps	7.4	5.300	1.31	17-May-15	Seine Net	7.4	5.221	1.29
17-May-15	Minnow Traps	8.1	7.149	1.35	17-May-15	Seine Net	7.2	4.856	1.30
17-May-15	Minnow Traps	7.2	5.162	1.38	17-May-15	Seine Net	6.9	4.339	1.32
17-May-15	Minnow Traps	6.1	2.663	1.17	17-May-15	Seine Net	7.7	6.387	1.40
17-May-15	Minnow Traps	7.3	5.015	1.29	17-May-15	Seine Net	8.9	9.136	1.30

Table E.15: Fish Measurements at Little Lake - May 2015

Date	GearID	Total Length (cm)	Body Weight (g)	Condition	Date	GearID	Total Length (cm)	Body Weight (g)	Condition
17-May-15	Minnow Traps	4.4	0.993	1.17	17-May-15	Seine Net	8.8	9.221	1.35
17-May-15	Minnow Traps	6.2	2.876	1.21	17-May-15	Seine Net	8.9	9.706	1.38
17-May-15	Minnow Traps	5.4	1.837	1.17	17-May-15	Seine Net	8.6	9.168	1.44
17-May-15	Minnow Traps	6.6	3.372	1.17	17-May-15	Seine Net	8.9	9.388	1.33
17-May-15	Minnow Traps	7.7	5.832	1.28	17-May-15	Seine Net	8.7	10.441	1.59
17-May-15	Minnow Traps	8.1	7.059	1.33	17-May-15	Seine Net	7.7	5.851	1.28
17-May-15	Minnow Traps	6.9	4.417	1.34	17-May-15	Seine Net	7.8	6.856	1.44
17-May-15	Minnow Traps	6.8	4.176	1.33	17-May-15	Seine Net	7.6	5.815	1.32
17-May-15	Minnow Traps	4.4	1.102	1.29	17-May-15	Seine Net	8.4	8.352	1.41
17-May-15	Minnow Traps	6.9	4.735	1.44	17-May-15	Seine Net	7.8	6.612	1.39
17-May-15	Minnow Traps	7.5	5.499	1.30	17-May-15	Seine Net	7.7	6.948	1.52
17-May-15	Minnow Traps	7.1	4.951	1.38	17-May-15	Seine Net	9.0	9.756	1.34
17-May-15	Minnow Traps	7.5	5.289	1.25	17-May-15	Seine Net	8.7	8.315	1.26
17-May-15	Minnow Traps	4.9	1.702	1.45	17-May-15	Seine Net	8.6	9.632	1.51
17-May-15	Minnow Traps	7.0	4.543	1.32	17-May-15	Seine Net	7.7	5.734	1.26
17-May-15	Minnow Traps	6.9	4.173	1.27	17-May-15	Seine Net	7.7	5.406	1.18
17-May-15	Minnow Traps	6.5	3.422	1.25	17-May-15	Seine Net	7.8	6.122	1.29
17-May-15	Minnow Traps	7.6	5.315	1.21	17-May-15	Seine Net	8.1	7.012	1.32
17-May-15	Minnow Traps	6.1	3.543	1.56	17-May-15	Seine Net	8.5	8.151	1.33
17-May-15	Minnow Traps	6.9	4.221	1.28	17-May-15	Seine Net	7.4	5.821	1.44
17-May-15	Minnow Traps	6.4	3.026	1.15	17-May-15	Seine Net	7.8	6.825	1.44
17-May-15	Minnow Traps	6.6	3.525	1.23	17-May-15	Seine Net	8.2	6.492	1.18
17-May-15	Minnow Traps	6.5	2.885	1.05	17-May-15	Seine Net	8.8	8.910	1.31
17-May-15	Minnow Traps	5.4	2.123	1.35	17-May-15	Seine Net	8.1	7.021	1.32
17-May-15	Minnow Traps	7.0	4.170	1.22	17-May-15	Seine Net	7.4	4.955	1.22
17-May-15	Minnow Traps	4.7	1.193	1.15	17-May-15	Seine Net	7.6	6.001	1.37
17-May-15	Minnow Traps	5.3	1.716	1.15	17-May-15	Seine Net	7.2	5.288	1.42
17-May-15	Minnow Traps	6.3	3.081	1.23	17-May-15	Seine Net	8.5	9.044	1.47
17-May-15	Minnow Traps	7.2	5.410	1.45	17-May-15	Seine Net	7.8	5.720	1.21
17-May-15	Minnow Traps	7.6	4.874	1.11	17-May-15	Seine Net	8.0	7.330	1.43
17-May-15	Minnow Traps	5.1	1.426	1.08					
Sample Size		577	577	577					
Mean		6.8	4.315	1.3					
Median		6.9	4.277	1.3					
Minimum		2.8	0.225	1.0					
Maximum		9.0	10.441	1.6					
Standard Deviation		1.09	1.95	0.10					
Standard Error		0.05	0.08	0.00					

Table E.16: Set and Lift Times for All Fishing Gear at NPNS - August 2014.

Location	GearType	GearID	Set Time	Set Date	Lift Time	Lift Date	Hours	All Fish CPUE	Mummichog CPUE	Depth	Location	Species	Catch	Comments	
Boat Harbour	Baited Minnow Trap	BH1	11:55:00	22-Aug-14	10:00:00	23-Aug-14	22.08	0.00	0.00	0.80	N45 40 27.3 W62 38 21.3		0	reset of BMT7 from May 2012	
	Baited Minnow Trap	BH2	12:05:00	22-Aug-14	10:10:00	23-Aug-14	22.08	0.00	0.00	0.50	N45 40 30.3 W62 38 21.2		0		
	Baited Minnow Trap	BH3	12:05:00	22-Aug-14	10:10:00	23-Aug-14	22.08	0.05	0.05	0.50	N45 40 29.7 W62 38 19.5	Mummichog	1	reset of BMT10 from May 2012	
	Baited Minnow Trap	BH4	12:10:00	22-Aug-14	10:15:00	23-Aug-14	22.08	0.14	0.14	0.75	N45 40 24.5 W62 38 13.7	Mummichog	3	3 small ones, rest of BMT11 from May 2012	
	Baited Minnow Trap	BH5	12:15:00	22-Aug-14	10:25:00	23-Aug-14	22.17	0.00	0.00	1.20	N45 40 22.2 W62 38 16.9		0	may also have been buried in sediment	
	Baited Minnow Trap	BH6	12:20:00	22-Aug-14	10:25:00	23-Aug-14	22.08	0.00	0.00	1.80	N45 40 20.5 W62 38 19.5		0	may also have been buried in sediment	
	Baited Minnow Trap	BH7	12:25:00	22-Aug-14	10:35:00	23-Aug-14	22.17	0.54	0.50	0.50	N45 40 21.4 W62 38 21.5	American eel	1	approx 50 cm	
												Mummichog	11	all dead - stress or dewatered?	
	Baited Minnow Trap	BH8	10:00:00	23-Aug-14	11:20:00	24-Aug-14	25.33	0.12	0.12	0.80	N45 40 27.3 W62 38 21.3	Mummichog	3	all small	
	Baited Minnow Trap	BH9	10:10:00	23-Aug-14	11:25:00	24-Aug-14	25.25	0.08	0.08	0.50	N45 40 30.3 W62 38 21.2	Mummichog	2	largish adults	
	Baited Minnow Trap	BH10	10:10:00	23-Aug-14	11:30:00	24-Aug-14	25.33	0.12	0.12	0.50	N45 40 29.7 W62 38 19.5	Mummichog	3	1 adult, 2 YOY	
	Baited Minnow Trap	BH11	10:10:00	23-Aug-14	11:30:00	24-Aug-14	25.33	0.24	0.24	0.75	N45 40 24.5 W62 38 13.7	Mummichog	6	adults	
	Baited Minnow Trap	BH12	10:30:00	23-Aug-14	11:35:00	24-Aug-14	25.08	0.16	0.16	0.50	N45 40 16.1 W62 38 21.1	Mummichog	4	4 YOY, on west side in weeds	
	Baited Minnow Trap	BH13	10:35:00	23-Aug-14	11:40:00	24-Aug-14	25.08	0.00	0.00	1.00	N45 40 17.6 W62 38 18.4		0	east side near rocky shore with limits amounts of weeks	
	Baited Minnow Trap	BH14	10:40:00	23-Aug-14	11:40:00	24-Aug-14	25.00	0.44	0.44	0.70	N45 40 27.6 W62 38 21.4	Mummichog	11	1 adult, closer to weed edge 5 m north of BH7	
	Trapnet	BHTN1	13:30:00	22-Aug-14	11:00:00	23-Aug-14	21.50	11.95	11.72	2.00	N45 40 25.9 W62 38 17.4	American eel	3		
												Banded Killifish	1	YOY	
												Mummichog	252		
												Ninespine Stickleback	1		
	Trapnet	BHTN1	11:00:00	23-Aug-14	12:20:00	24-Aug-14	25.33	3.28	3.20	2.00	N45 40 25.9 W62 38 17.4	American eel	2		
												Mummichog	81		
		Seine	BHSeine1		23-Aug-14			200.00	4.39	4.39			Mummichog	878	
		Seine	BHSeine2		23-Aug-14			200.00	0.57	0.57			Mummichog	113	
												Ninespine Stickleback	2		
		Seine	BHSeine3		24-Aug-14			200.00	7.72	7.69			Mummichog	1,538	
												killifish	4		
												Ninespine Stickleback	1		
	Little Lake	Baited Minnow Trap	LL1	12:30:00	25-Aug-14	10:30:00	26-Aug-14	22.00	1.27	0.95	0.50	N45 45 49.9 W61 54 38.0	Mummichog	21	
													Banded Killifish	7	
		Baited Minnow Trap	LL2	12:35:00	25-Aug-14	10:40:00	26-Aug-14	22.08	0.23	0.18	0.75	N45 45 53.3 W61 54 29.5	Mummichog	4	
													Banded Killifish	1	
		Baited Minnow Trap	LL3	12:40:00	25-Aug-14	10:50:00	26-Aug-14	22.17	0.00	0.00	3.10	N45 45 49.4 W61 54 30.9		0	
		Baited Minnow Trap	LL4	12:50:00	25-Aug-14	10:55:00	26-Aug-14	22.08	1.36	1.22	0.40	N45 45 42.3 W61 54 28.7	Mummichog	27	
												Banded Killifish	3		
Baited Minnow Trap		LL5	13:05:00	25-Aug-14	11:05:00	26-Aug-14	22.00	1.41	1.14	0.30	N45 45 46.7 W61 54 25.8	Mummichog	25		
												Banded Killifish	6		
Baited Minnow Trap		LL6	13:10:00	25-Aug-14	11:10:00	26-Aug-14	22.00	0.64	0.41	0.30	N45 45 46.7 W61 54 24.2	Mummichog	9		
												Banded Killifish	5		
Baited Minnow Trap		LL7	13:15:00	25-Aug-14	11:15:00	26-Aug-14	22.00	0.00	0.00	0.90	N45 45 50.4 W61 54 22.8		0		
Baited Minnow Trap		LL11	11:00:00	26-Aug-14	09:10:00	27-Aug-14	22.17	0.00	0.00	2.25	N45 45 46.2 W61 54 32.2		0		
Baited Minnow Trap		LL14	11:20:00	26-Aug-14	09:20:00	27-Aug-14	22.00	0.18	0.14	1.10	N45 45 48.4 W61 54 26.4	Mummichog	3		
												Banded Killifish	1		
Baited Minnow Trap		LL8	10:30:00	26-Aug-14	08:55:00	27-Aug-14	22.42	0.09	0.09	0.70	N45 45 49.9 W61 54 38.0	Mummichog	2		
Baited Minnow Trap		LL9	10:40:00	26-Aug-14	09:00:00	27-Aug-14	22.33	0.13	0.13	0.75	N45 45 53.3 W61 54 29.5	Mummichog	3		
Baited Minnow Trap		LL10	10:55:00	26-Aug-14	09:05:00	27-Aug-14	22.17	2.07	1.17	1.10	N45 45 48.4 W61 54 26.4	Mummichog	26		
												Banded Killifish	20		
Baited Minnow Trap		LL12	10:55:00	26-Aug-14	09:10:00	27-Aug-14	22.25	1.53	1.03	0.40	N45 45 42.3 W61 54 28.7	Mummichog	23		
												Banded Killifish	11		
Baited Minnow Trap		LL13	11:05:00	26-Aug-14	09:15:00	27-Aug-14	22.17	1.08	0.50	0.30	N45 45 46.7 W61 54 25.8	Mummichog	11		
												Banded Killifish	13		
Baited Minnow Trap		LL15	11:05:00	27-Aug-14	14:45:00	27-Aug-14	3.67	14.44	11.72	0.40	N45 45 47.1 W61 54 23.4	Mummichog	43		
												Banded Killifish	10		
Baited Minnow Trap		LL16	11:10:00	27-Aug-14	14:40:00	27-Aug-14	3.50	4.00	14.00	0.40	N45 45 46.8 W61 54 23.6	Mummichog	11		
												Banded Killifish	3		
Baited Minnow Trap		LL17	11:10:00	27-Aug-14	14:40:00	27-Aug-14	3.50	16.57	15.14	0.40	N45 45 47.1 W61 54 24.3	Mummichog	53		
												Banded Killifish	5		
Baited Minnow Trap		LL18	11:15:00	27-Aug-14	14:35:00	27-Aug-14	3.33	7.81	5.71	0.40	N45 45 46.4 W61 54 24.8	Mummichog	19		
												Banded Killifish	7		
Baited Minnow Trap		LL19	11:15:00	27-Aug-14	14:35:00	27-Aug-14	3.33	5.71	4.20	0.40	N45 45 46.6 W61 54 25.8	Mummichog	14		
												Banded Killifish	5		
Baited Minnow Trap		LL20	11:20:00	27-Aug-14	14:30:00	27-Aug-14	3.17	19.56	15.46	0.40	N45 45 46.1 W61 54 27.6	Mummichog	49		
												Banded Killifish	13		
Trapnet		LLT	13:50:00	25-Aug-14	10:10:00	26-Aug-14	20.33	0.64	0.30	3.00	N45 45 50.2 W61 54 28.1	Alewife	3		
												American Eel	3		
												White Perch	1		
												Mummichog	6		
Trapnet		LLT	10:10:00	26-Aug-14	08:10:00	27-Aug-14	22.00	1.18	0.00	3.00	N45 45 50.2 W61 54 28.1	Mummichog	0		
											American Eel	2			
											White Perch	4			
											Alewife	18			
											Striped Bass	2			
Seine	LLS1		25-Aug-14				200.00	2.84	0.57		N45 45 47.7 W61 54 24.4	Mummichog	113		
											Banded Killifish	449			
											Atlantic Silverside	5			
Seine	LLS2	13:45:00	26-Aug-14				100.00	19.36	0.76		N45 45 52.9 W61 54 29.9	Mummichog	76		
											Banded Killifish	1350			
											Atlantic Silverside	510			
Seine	LLS3	11:40:00	27-Aug-14				160.00	3.34	0.72		N45 45 48.6 W61 54 24.1	Mummichog	115		
											Banded Killifish	315			
											Atlantic Silverside	104			

Table E.17: Set and Lift Times for All Fishing Gear at NPNS - May 2015

Location	Gear Type	Gear ID	Set Time	Set Date	Lift Time	Lift Date	Hours	All Fish CPUE	Mummichog CPU	Depth	Location	Species	Catch	Comments
Boat Harbour	Baited Minnow Trap	BH1	11:40:00	13-May-15	10:15:00	14-May-15	22.4	0.85	0.71	0.5	N45 40 18.0 W62 38 21.0	Mummichogs	16	
												Threespine Stickleback	1	
												Ninespine Stickleback	2	
												Mummichogs	2	
												Mummichogs	5	
													0	
												Mummichogs	12	
													0	
	Baited Minnow Trap	BH2	11:40:00	13-May-15	10:20:00	14-May-15	22.7	0.09	0.09	0.5	N45 40 20.3 W62 38 21.6	Mummichogs	2	
	Baited Minnow Trap	BH3	11:50:00	13-May-15	10:20:00	14-May-15	22.5	0.22	0.22	0.5	N45 40 25.1 W62 38 21.9	Mummichogs	5	
	Baited Minnow Trap	BH4	11:55:00	13-May-15	10:25:00	14-May-15	22.5	0.00	0.00	1	N45 40 25.4 W62 38 20.5		0	
	Baited Minnow Trap	BH5	12:00:00	13-May-15	10:30:00	14-May-15	22.5	0.53	0.53	0.5	N45 40 28.2 W62 38 21.7	Mummichogs	12	
	Baited Minnow Trap	BH6	12:00:00	13-May-15	10:30:00	14-May-15	22.5	0.00	0.00	1.2	N45 40 28.4 W62 38 20.8		0	
	Baited Minnow Trap	BH7	12:05:00	13-May-15	10:30:00	14-May-15	22.4	0.00	0.00	1.25	N45 40 28.8 W62 38 18.7		0	
	Baited Minnow Trap	BH8	12:05:00	13-May-15	10:35:00	14-May-15	22.5	0.62	0.62	0.5	N45 40 24.4 W62 38 13.9	Mummichogs	14	
	Baited Minnow Trap	BH9	12:10:00	13-May-15	10:35:00	14-May-15	22.4	0.27	0.27	0.5	N45 40 22.0 W62 38 14.3	Threespine Stickleback	3	
												Ninespine Stickleback	12	
												Mummichogs	6	
												Threespine Stickleback	1	
												Ninespine Stickleback	12	
												Mummichogs	23	
	Baited Minnow Trap	BH10	12:10:00	13-May-15	10:40:00	14-May-15	22.5	1.02	1.02	1	N45 40 22.0 W62 38 15.0	Mummichogs	23	
Trapnet	BH10	11:00:00	13-May-15	9:30:00	14-May-15	22.5	24.04	24.04	1.2	N45 40 25.5 W62 38 16.8	Mummichogs	541		
											Banded Killifish	1		
											Ninespine Stickleback	69		
											Threespine Stickleback	7		
											White Perch	1		
Seine	BHSeine1	13:15	13-May-15	14:00	13-May-15	195	0.68	0.67		N45 40 29.93 W62 38 19.34	Mummichogs	130		
											Threespine Stickleback	1		
											Ninespine Stickleback	1		
Little Lake	Baited Minnow Trap	LL1	14:05:00	15-May-15	11:05:00	16-May-15	21.0	0.48	0.38	0.5	N45 45 48.6 W61 54 39.2	Mummichogs	8	
												Threespine Stickleback	2	
	Baited Minnow Trap	LL2	14:10:00	15-May-15	11:10:00	16-May-15	21.0	0.76	0.33	0.6	N45 45 49.0 W61 54 38.6	Mummichogs	7	
												Banded Killifish	5	
												Fourspine Stickleback	1	
												Threespine Stickleback	2	
												Ninespine Stickleback	1	
	Baited Minnow Trap	LL3	14:15:00	15-May-15	11:15	16-May-15	21.0	0.19	0.00	1.0	N45 45 52.9 W61 54 35.0	White Perch	2	
												Fourspine Stickleback	1	
	Baited Minnow Trap	LL4	14:20:00	15-May-15	14:35:00	15-May-15	0.25	700.00	560.00	0.3	N45 45 50.3 W61 54 34.9	Blackspotted Stickleback	1	
												Mummichogs	140	
	Baited Minnow Trap	LL4a	14:35:00	15-May-15	11:20:00	16-May-15	20.8	2.22	1.93	0.3	N45 45 50.3 W61 54 34.9	Banded Killifish	35	
												Mummichogs	40	
												Banded Killifish	5	
												Fourspine Stickleback	1	
	Baited Minnow Trap	LL5	14:50:00	15-May-15	11:25:00	16-May-15	20.6	0.05	0.00	1.0	N45 45 47.9 W61 54 33.6	Blackspotted Stickleback	1	
	Baited Minnow Trap	LL6	15:10	15-May-15	11:30:00	16-May-15	20.3	0.20	0.05	0.5	N45 45 48.1 W61 54 28.4	Mummichogs	1	
	Baited Minnow Trap	LL7	15:10:00	15-May-15	11:30:00	16-May-15	20.3	0.10	0.00	1.3	N45 45 48.4 W61 54 27.7	Threespine Stickleback	3	
												Threespine Stickleback	1	
	Baited Minnow Trap	LL8	15:15:00	15-May-15	11:35:00	16-May-15	20.3	0.39	0.00	0.8	N45 45 50.8 W61 54 27.6	Blackspotted Stickleback	1	
	Baited Minnow Trap	LL9	15:20:00	15-May-15	11:35:00	16-May-15	20.3	0.15	0.00	0.8	N45 45 53.5 W61 54 30.1	Threespine Stickleback	5	
												Fourspine Stickleback	3	
												White Perch	1	
												Threespine Stickleback	1	
												Fourspine Stickleback	1	
	Baited Minnow Trap	LL10	15:30	15-May-15	11:40	16-May-15	20.1	0.95	0.50	0.8	N45 45 49.0 W61 54 26.1	Mummichogs	10	
												Banded Killifish	2	
												Threespine Stickleback	6	
												Blackspotted Stickleback	1	
	Baited Minnow Trap	LL11	12:30:00	16-May-15	8:50:00	17-May-15	20.8	2.21	0.86	0.5	N45 45 48.4 W61 54 39.5	Mummichogs	18	
												Banded Killifish	6	
												Threespine Stickleback	22	
												Mummichogs	8	
Baited Minnow Trap	LL12	12:30:00	16-May-15	8:55:00	17-May-15	20.4	0.54	0.39	0.5	N45 45 49.0 W61 54 38.6	Threespine Stickleback	3		
Baited Minnow Trap	LL13	12:40:00	16-May-15	9:00:00	17-May-15	20.3	1.03	0.98	0.3	N45 45 50.3 W61 54 34.9	Mummichogs	20		
Baited Minnow Trap	LL14	12:40	16-May-15	9:00	17-May-15	20.3	0.64	0.49	0.3	N45 45 50.3 W61 54 34.9	Ninespine Stickleback	1		
Baited Minnow Trap	LL15	12:40:00	16-May-15	9:05:00	17-May-15	20.4	1.67	1.62	0.3	N45 45 50.3 W61 54 34.9	Mummichogs	10		
											Banded Killifish	3		
Baited Minnow Trap	LL16	12:55	16-May-15	9:10	17-May-15	20.3	1.04	0.49	0.5	N45 45 48.0 W61 54 26.5	Mummichogs	33		
											Threespine Stickleback	1		
											Mummichogs	10		
											Banded Killifish	5		
											White Perch	1		
											Threespine Stickleback	1		
											Fourspine Stickleback	2		
											Blackspotted Stickleback	2		
Baited Minnow Trap	LL17	13:00:00	16-May-15	9:15:00	17-May-15	20.3	2.81	2.42	0.5	N45 45 47.5 W61 54 26.8	Mummichogs	49		
											Banded Killifish	6		
											Threespine Stickleback	1		
											Atlantic Silverside	1		
Baited Minnow Trap	LL18	13:00	16-May-15	9:20	17-May-15	20.3	2.41	2.16	0.8	N45 45 48.9 W61 54 26.0	Mummichogs	44		
											Banded Killifish	2		
											Threespine Stickleback	2		
											Fourspine Stickleback	1		
Baited Minnow Trap	LL19	13:00:00	16-May-15	9:25:00	17-May-15	20.4	2.20	2.11	0.5	N45 45 48.3 W61 54 24.3	Mummichogs	43		
											Banded Killifish	1		
											Threespine Stickleback	1		
Baited Minnow Trap	LL20	13:05	16-May-15	9:30	17-May-15	20.4	1.32	1.13	0.4	N45 45 48.4 W61 54 23.6	Mummichogs	23		
											Banded Killifish	2		
											Threespine Stickleback	1		
											Atlantic Silverside	1		
Trapnet	LLT	15:55	15-May-15	8:45	16-May-15	16.8	184.22	0.06	1.8	N45 45 48.7 W61 54 28.1	Mummichogs	1		
											White Perch	1,114		
											Atlantic Silverside	1,799		
											Striped Bass	3		
											Rainbow Smelt	1		
											Fourspine Stickleback	44		
											Threespine Stickleback	92		
											Blackspotted Stickleback	32		
											Tomcod	2		
											Winter Flounder	1		
											Brook Trout	1		
											Banded Killifish	11		
Seine	LLS1	10:30	17-May-15	11:30	17-May-15	50	57.00	8.58		N45 45 50.3 W61 54 34.9	Mummichogs	429		
											Banded Killifish	2,393		
											Blackspotted Stickleback	2		
											Fourspine Stickleback	7		
											Threespine Stickleback	4		
Seine	LLS2	12:00	17-May-15	12:30	17-May-15	48	25.42	0.42		N45 45 48.3 W61 54 24.3	Atlantic Silverside	15		
											Mummichogs	20		
											Banded Killifish	200		
Seine	LLS3	13:00:00	17-May-15	13:30	17-May-15	48	3.13	0.52		N45 45 48.3 W61 54 24.3	Atlantic Silverside	1,000		
											Mummichogs	25		
											Banded Killifish	25		
											Atlantic Silverside	100		



TABLE E.18: FISH AGEING QA/QC - RECOUNTING CHECKS FOR THE NPNS CYCLE 7 EEM FISH SURVEY

Project Code: 14-2077
 Project Manager: Joe Tetreault
 Primary Ager: Jon Tost
 QA/QC Ager: Jon Tost
 QA/QC Date: 01-Dec-15

FISHID	Initial Age (years)	Second Estimate (years)	Difference Following Second Ageing (years)
LL47	2	2	0
BH1	4	4	0
BH2	5	5	0
BH7	5	5	0
BH27	2	2	0
BH33	2	2	0

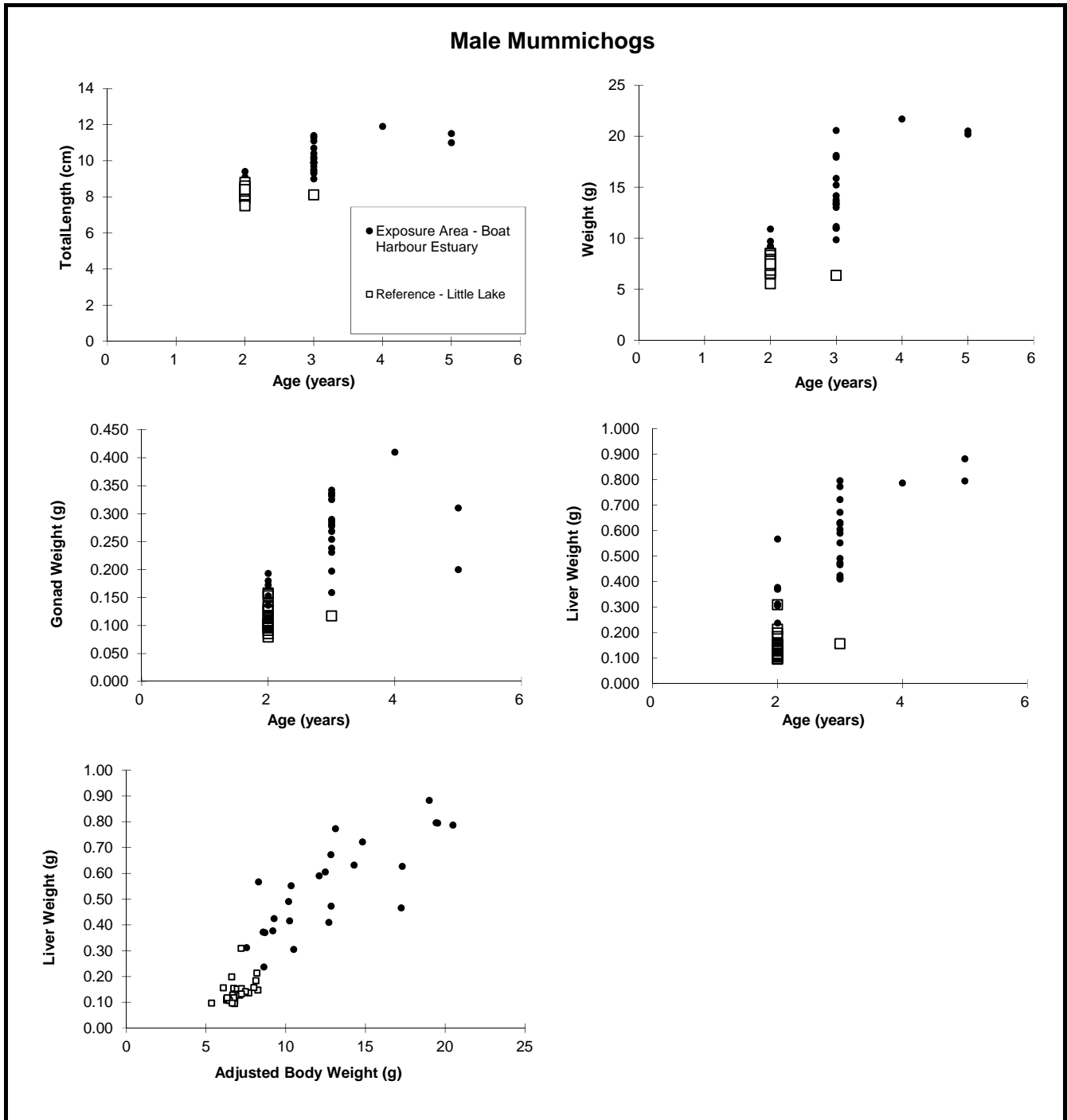


FIGURE E.1: PLOTS OF COVARIATE COMBINATIONS IN MATURE MALE MUMMICHOGS COLLECTED FROM EXPOSURE AND REFERENCE AREAS - NORTHERN PULP NOVA SCOTIA, EEM CYCLE 7
 * Sexually mature fish only

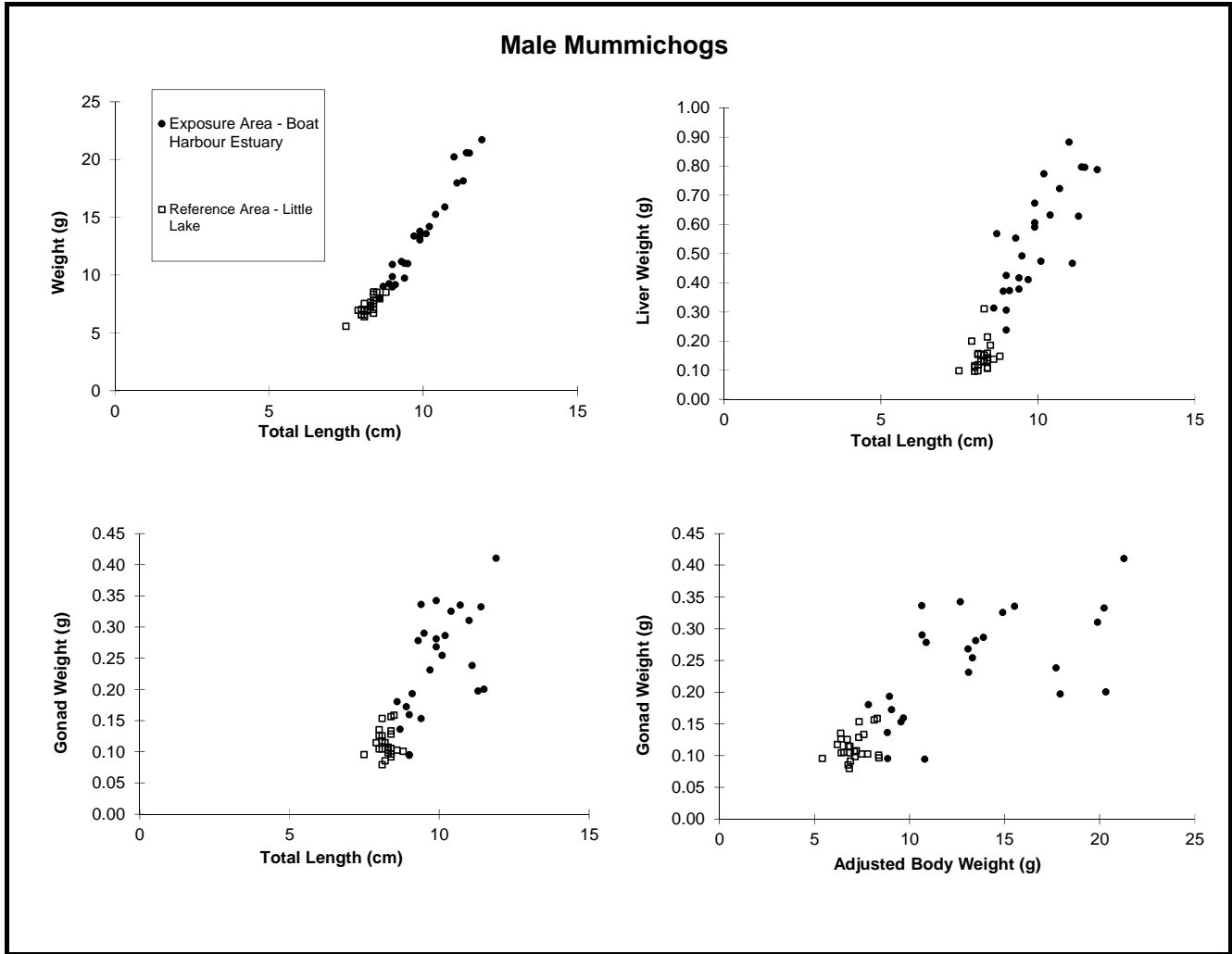


FIGURE E.2: PLOTS OF COVARIATE COMBINATIONS IN MATURE MALE MUMMICHOGS COLLECTED FROM EXPOSURE AND REFERENCE AREAS - NORTHERN PULP NOVA SCOTIA, EEM CYCLE 7
 * Sexually mature fish only

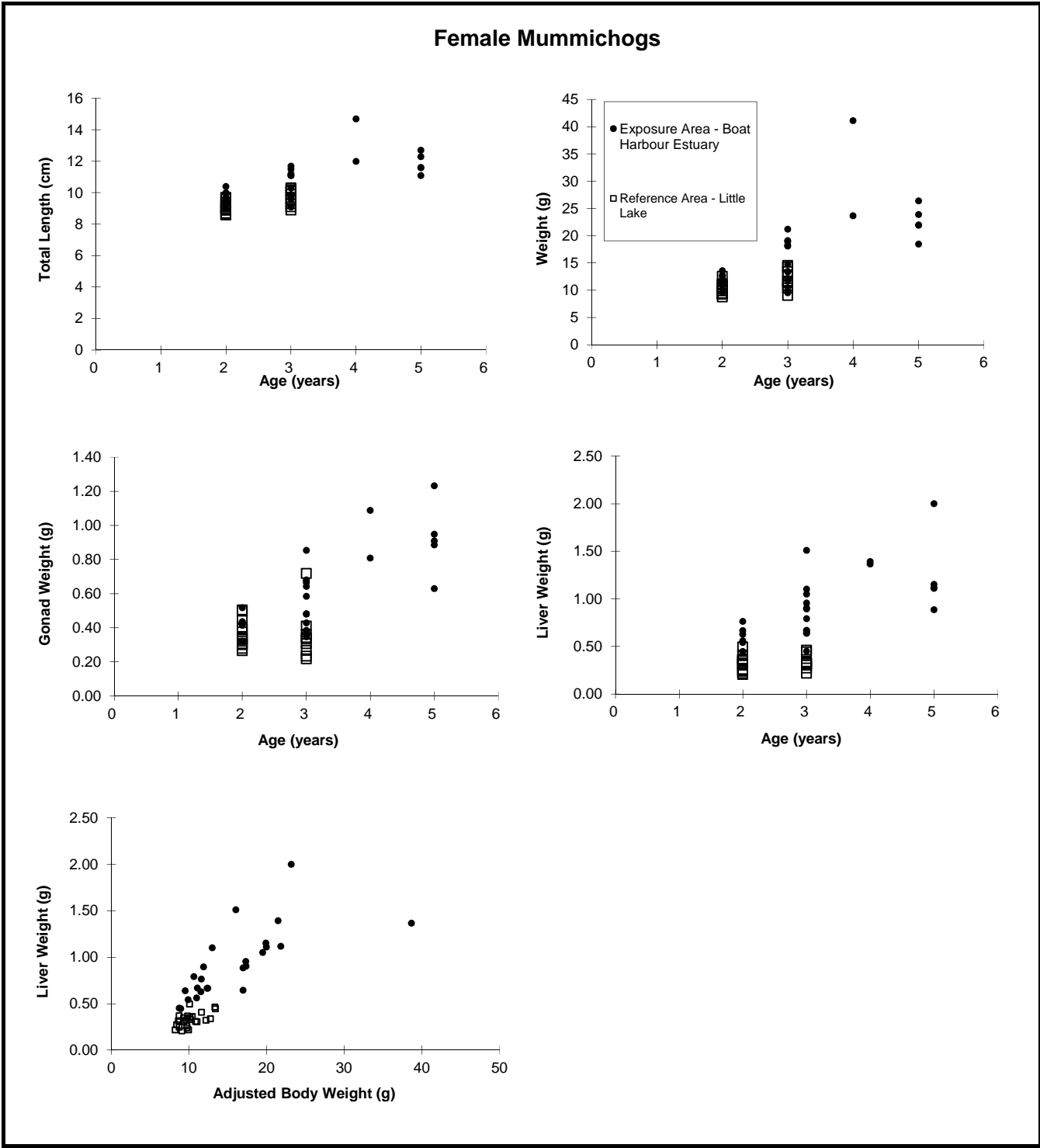


FIGURE E.3: PLOTS OF COVARIATE COMBINATIONS IN MATURE FEMALE MUMMICHOGS COLLECTED FROM EXPOSURE AND REFERENCE AREAS - NORTHERN PULP NOVA SCOTIA, EEM CYCLE 7

* Sexually mature fish only

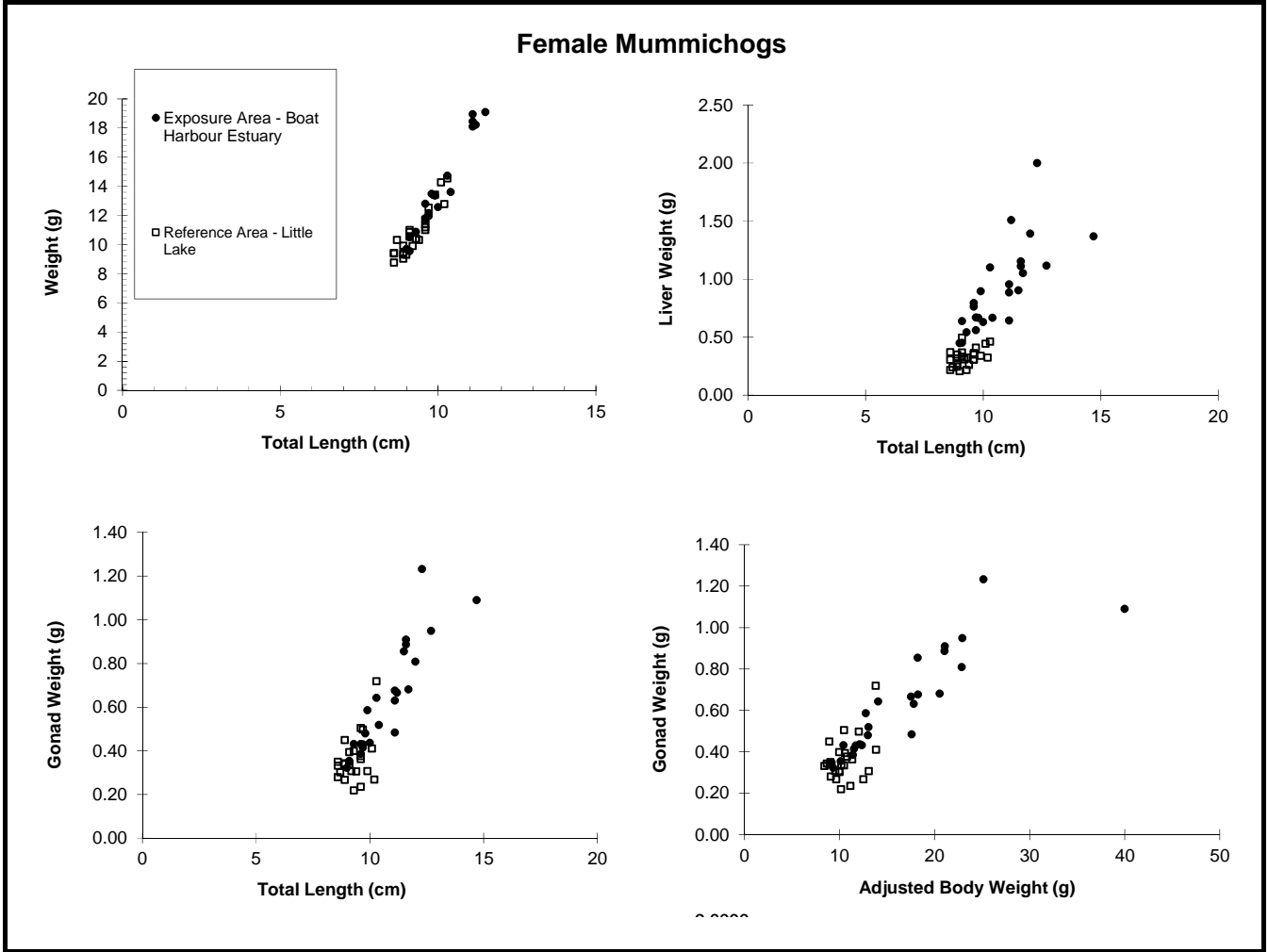


FIGURE E.4: PLOTS OF COVARIATE COMBINATIONS IN MATURE FEMALE MUMMICHOGS COLLECTED FROM EXPOSURE AND REFERENCE AREAS - NORTHERN PULP NOVA SCOTIA, EEM CYCLE 7

* Sexually mature fish only

Table E.19: Statistical Outputs of Cycle 7 Northern Pulp Mummichog Data

MALE

Deleted Exposure cases (3) with Age values of 3 and 4 due to lack of overlap of covariates with Reference cases

Levene's Test for Homogeneity of Variance	Anderson-Darling Test for Normality
---	-------------------------------------

Reference Exposure %Difference

Age

Test Statistics	
	Age
Mann-Whitney U	99
Wilcoxon W	424
Z	-4.584
Asymp. Sig. (2-tailed)	4.56E-06

Between-Subjects Factors				
		N	Mean Rank	Sum of Ranks
Area	Reference	25	16.940	424
	Exposure	22	32.023	705

1.89E-08 <0.0005 <0.0005 89

Body Weight @ Total Length

Tests of Between-Subjects Effects						Between-Subjects Factors			
Dependent Variable: Body Weight (Log) @ Total Length (Log)							N	Mean	Std. Error
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Area	Reference	Exposure	
Area	0.001	1	6.42E-04	0.960	0.333	25	0.958	0.007	
Total Length	0.288	1	0.288	430.339	2.40E-24	22	0.971	0.008	
Error	0.029	44	0.001						

0.994 0.122 0.741 3

Liver Weight @ Adjusted Body Weight

Tests of Between-Subjects Effects						Between-Subjects Factors			
Dependent Variable: Liver Weight (Rank) @ Adjusted Body Weight (Rank)							N	Mean Rank	Std. Error
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Area	Reference	Exposure	
Area	4.232	1	4.232	0.132	0.718	25	12.581	1.134	
Adjusted Body Weight	778.044	1	778.044	24.341	1.20E-05	22	11.978	1.209	
Error	1406.456	44	31.965						

0.940 **0.006** 0.478 122

Liver Weight @ Total Length

Tests of Between-Subjects Effects						Between-Subjects Factors			
Dependent Variable: Liver Weight (Rank) @ Total Length (Rank)							N	Mean Rank	Std. Error
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Area	Reference	Exposure	
Area	6.027	1	6.027	0.165	0.687	25	12.636	1.212	
Total Length	577.246	1	577.246	15.803	2.58E-04	22	11.914	1.293	
Error	1607.254	44	36.529						

0.877 **0.007** 0.827 6

Body Weight @ Age = 2

Tests of Between-Subjects Effects						Between-Subjects Factors			
Dependent Variable: Body Weight							N	Mean	Std. Dev.
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Area	Reference	Exposure	
Area	22.085	1	22.085	38.247	9.62E-07	24	7.262	0.728	
Error	16.746	29	0.577			7	9.281	0.873	

0.359 0.197 0.085 28

Total Length @ Age = 2

Tests of Between-Subjects Effects						Between-Subjects Factors			
Dependent Variable: Total Length							N	Mean	Std. Dev.
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Area	Reference	Exposure	
Area	2.807	1	2.807	40.425	5.99E-07	24	8.238	0.263	
Error	2.013	29	0.069			7	8.957	0.264	

0.897 0.180 0.727 9

Gonad Weight @ Adjusted Body Weight

Tests of Between-Subjects Effects						Between-Subjects Factors			
Dependent Variable: Gonad Weight (Log) @ Adjusted Body Weight (Log)							N	Mean	Std. Error
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Area	Reference	Exposure	
Area	0.077	1	0.077	7.619	0.008	25	-0.873	0.027	
Total Length	0.182	1	0.182	18.027	1.14E-04	21	-0.734	0.031	
Error	0.434	43	0.010						

0.471 0.603 0.763 38

Gonad Weight @ Total Length

Tests of Between-Subjects Effects						Between-Subjects Factors			
Dependent Variable: Gonad Weight (Log) @ Total Length (Log)							N	Mean	Std. Error
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Area	Reference	Exposure	
Area	0.095	1	0.095	8.499	0.006	25	-0.882	0.029	
Total Length	0.137	1	0.137	12.351	0.001	21	-0.724	0.033	
Error	0.478	43	0.011						

0.129 0.781 0.531 44

Body Weight

Independent Samples Test (t-test assuming unequal variance) - Body Weight (Log)						Between-Subjects Factors				
t-test for Equality of Means						Area	Reference	N	Mean	Std. Dev.
t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference		Exposure	22	1.086	0.113
					Lower	Upper				
-8.884	26.645	1.89E-09	-0.229	0.026	-0.282	-0.176				

1.44E-05 0.322 0.379 69

Total Length

Independent Samples Test (t-test assuming unequal variance) - Total Length (Log) (Log)						Between-Subjects Factors				
t-test for Equality of Means						Area	Reference	N	Mean	Std. Dev.
t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference		Exposure	22	0.988	0.036
					Lower	Upper				
-8.806	26.333	2.50E-09	-0.072	0.008	-0.089	-0.055				

7.06E-05 **0.021** 0.330 18

FEMALE

Deleted Exposure cases (7) with Age values of 3 and 4 due to lack of overlap of covariates with Reference cases

Levene's Test for Homogeneity of Variance	Anderson-Darling Test for Normality
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Reference Exposure %Difference

Age

Test Statistics ^a	
	Age
Mann-Whitney U	156
Wilcoxon W	481
Z	-1.961
Asymp. Sig. (2-tailed)	0.050

Between-Subjects Factors				
		N	Mean Rank	Ranks
Area	Reference	25	19.240	481
	Exposure	18	25.833	465

0.722 <0.0005 <0.0005 89

Table E.19: Statistical Outputs of Cycle 7 Northern Pulp Mummichog Data

Body Weight @ Total Length

Tests of Between-Subjects Effects						Between-Subjects Factors				
Dependent Variable: Body Weight (Log) @ Total Length (Log)										
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Area	Reference	N	Mean	Std. Error
Area	2.90E-04	1	2.90E-04	0.509	0.480	25	1.072	0.005		
Total Length	0.258	1	0.258	453.372	1.96E-23	18	1.078	0.006	0.129	0.393
Error	0.023	40	0.001						0.158	1.4

Liver Weight @ Adjusted Body Weight

Tests of Between-Subjects Effects						Between-Subjects Factors				
Dependent Variable: Liver Weight (Log) @ Adjusted Body Weight (Log)										
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Area	Reference	N	Mean	Std. Error
Area	0.618	1	0.618	80.640	4.91E-11	24	-0.459	0.019	0.552	0.266
Adjusted Body Weight	0.232	1	0.232	30.306	2.52E-06	18	-0.181	0.022	0.080	90
Error	0.299	39	0.008							

Liver Weight @ Total Length

Tests of Between-Subjects Effects						Between-Subjects Factors				
Dependent Variable: Liver Weight (Log) @ Total Length (Log)										
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Area	Reference	N	Mean	Std. Error
Area	0.576	1	0.576	66.117	5.25E-10	25	-0.463	0.020	0.801	0.895
Total Length	0.220	1	0.220	25.245	1.10E-05	18	-0.187	0.024	0.643	347
Error	0.349	40	0.009							

Body Weight @ Age = 2

Tests of Between-Subjects Effects						Between-Subjects Factors				
Dependent Variable: Body Weight										
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Area	Reference	N	Mean	Std. Dev
Area	13.380	1	13.380	11.297	0.003	16	10.163	0.951	0.255	0.304
Error	23.688	20	1.184			6	11.914	1.422	0.727	17

Body Weight @ Age = 3

Independent Samples Test (t-test assuming unequal variance)							Between-Subjects Factors				
t-test for Equality of Means							Area	Reference	N	Mean	Std. Dev.
t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference		Exposure	9	12.043	1.847	
					Lower	Upper					
-2.393	16.597	0.029	-3.052	1.275	-5.747	-0.357	12	15.095	3.868	0.007	

Total Length @ Age = 2

Tests of Between-Subjects Effects						Between-Subjects Factors				
Dependent Variable: Total Length										
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Area	Reference	N	Mean	Std. Dev
Area	1.528	1	1.528	9.362	0.006	16	9.075	0.368	0.544	0.435
Error	3.263	20	.163			6	9.667	0.497	0.948	7

Total Length @ Age = 3

Independent Samples Test (t-test assuming unequal variance)							Between-Subjects Factors				
t-test for Equality of Means							Area	Reference	N	Mean	Std. Dev.
t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference		Exposure	9	10.342	0.935	
					Lower	Upper					
-2.131	17.455	0.048	-0.675	0.317	-1.342	-0.008	12	10.342	0.935	0.012	

Gonad Weight @ Adjusted Body Weight

Tests of Between-Subjects Effects						Between-Subjects Factors				
Dependent Variable: Gonad Weight (Log) @ Adjusted Body Weight (Log)										
Source	Squares	df	Mean Square	F	Sig.	Area	Reference	N	Mean	Std. Error
Area	0.030	1	0.030	3.580	0.066	24	-0.423	0.020	0.027	0.530
Adjusted Body Weight	0.205	1	0.205	24.164	1.63E-05	18	-0.360	0.024	0.233	16
Error	.331	39	.008							

Gonad Weight @ Total Length

Tests of Between-Subjects Effects						Between-Subjects Factors				
Dependent Variable: Gonad Weight @ Total Length										
Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Area	Reference	N	Mean	Std. Error
Area	0.015	1	0.015	1.869	0.179	24	0.403	0.020	0.277	0.793
Total Length	0.296	1	0.296	36.071	5.08E-07	18	0.448	0.023	0.056	11
Error	3.20E-01	39	8.20E-03							

Body Weight

Independent Samples Test (t-test assuming unequal variance) - Body Weight (Log)							Between-Subjects Factors				
t-test for Equality of Means							Area	Reference	N	Mean	Std. Dev.
t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference		Exposure	25	1.031	0.061	
					Lower	Upper					
-3.733	25.061	0.001	-0.104	0.028	-0.161	-0.047	18	1.135	0.106	0.017	

Total Length

Independent Samples Test (t-test assuming unequal variance) - Total Length (Log)							Between-Subjects Factors				
t-test for Equality of Means							Area	Reference	N	Mean	Std. Dev.
t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference		Exposure	25	0.967	0.023	
					Lower	Upper					
-3.711	26.756	0.001	-0.036	0.010	-0.056	-0.016	18	1.004	0.036	0.023	

Statistically significant at $\alpha = 0.1$

NECROPSY REPORT

Ontario Veterinary College
Department of Pathobiology
University of Guelph

FISH PATHOLOGY
LABORATORY
(519) 824-4120 Ext. 54640

NECROPSY NO. B05-15

DATE: January, 2015

SPECIMEN INFORMATION		OWNER INFORMATION	
Fish Species (Sc. Name): Mummichogs		Joe Tetreault Fisheries Biologist EcoMetrix Inc. 6800 Campobello Rd. Mississauga, ON L5N 2L8 jtetreault@ecometrix.ca Phone: 905 794 2325 FAX: 905 794 2338	
Common Name: <i>Fundulus heteroclitus heteroclitus</i>			
Water Sample Only:			
Age:	Sex:		
Approximate weight:			
Feral: <input checked="" type="checkbox"/>	Captive:		
Type of Animal Operation:		Feed:	
Type of Holdings:			
Affected Animals: Age:	No. sick/No. at risk:	No. dead:	
SPECIMEN(S) SUBMITTED: There were livers of fish from two groups (LL, BH) examined by light microscopy.			
<small>INDICATE BELOW THE TISSUES SENT AND THE LABORATORY REFERENCE NUMBERS</small>			
HISTO. 31 H&E slides	VIROL.	TOX.	
BACT.	CLIN. PATH.	PHOTOS	OTHER
HISTORY			
Fathead minnows from an environmental survey.			
INITIAL EXAMINATION			
Fish livers were received fixed in formalin.			

FINAL DIAGNOSIS
See below for comments.
INTERPRETATION AND RECOMMENDATIONS
The clinical significance of the lesions noted are likely minimal. The degree of hepatic lipidosis in the BH group is more pronounced than in the LL group. Special stains or frozen sections were not performed to differentiate between glycogen and lipid. Resectioning with PAS and PAS+diastase would be required to estimate glycogen content. The other lesions are not unexpected in wild fish and the degree is mild.

TECHNICAL INFORMATION ONLY
Livers only were examined. Lesions are listed as morphological diagnoses by fish. Only abnormalities or organisms are included. Degree of hepatic lipidosis is listed first and is scaled 0-4. Other findings are then included. A few slides have non-nucleated red blood cells in section. BH. BH1 – 2. Mild single cell necrosis. Mild perihepatitis with mesothelial tags. BH2 – 4 BH4 – 1. Single encapsulated metazoan parasite. BH5 – 3. Very mild peribiliary inflammation. Parasitic capsule/granuloma w/o content. BH6 – 4 BH9 – 4 BH10 – 2. Mild multifocal hepatitis and peripancreatitis with several parasitic granulomas. BH11 – 2 BH12 – 3. Mild perihepatitis with mesothelial tags.

NECROPSY REPORT

Ontario Veterinary College
Department of Pathobiology
University of Guelph

FISH PATHOLOGY
LABORATORY
(519) 824-4120 Ext. 54640

NECROPSY NO. B05-15

DATE: January, 2015

BH14 – 3

BH15 – 4. Single focus of cystic degeneration of pancreas.

BH16 – 2

BH19 – 3

BH20 – 2

BH21 – 4.

LL.

LL3 – 0. Hypercellular biliary ducts.

LL5 – 1

LL6 – 0

LL9 – 2. Single parasitic granuloma.

LL11 – 0. Marked congestion.

LL12 – 0

LL13 – 0. Mild to moderate peripancreatitis.

LL14 – 0

LL15 – 3

LL16 – 1. Mild to moderate peripancreatitis.

Date: May 4, 2015

EBPI labs job #: 04051501

Technician: Aaron Witham, Will Lush

Purpose: To use the Glycogen Assay Kit II purchased from Abcam® to assay fish liver samples for presence and quantification of glycogen. As EBPI served as a third party laboratory in the experimental setup, identity of individual samples were unknown.

Pre-Experiment Specifics: Client Ecometrix purchased the kit from Abcam®. EBPI received and stored kit contents upon delivery according to enclosed instructions at -20 °C. Liver samples were obtained frozen from Ecometrix contact Joe Tetreault on May 4, 2015, the day of the assay. Sterilized deionized water was obtained from EBPI and used in the experiments. All other reagents were provided by Abcam® in the kit and were prepared and used according to the procedure enclosed in the kit and detailed below. Ecometrix representative Joe Tetreault and EBPI representative Will Lush agreed upon timeframe and experiment costs prior to assay being started.

Experiments run: Glycogen Assay Kit II on 26 separate liver samples.

Procedure: Reagents Hydrolysis Enzyme Mix, Development Enzyme Mix and Probe were prepared according to established procedures. A fresh standard glycogen solution was prepared by diluting glycogen solution included in the kit by 10X to a final concentration of 0.2 mg/mL. 0,2,4,6,8,10 µL of standard solution were added in duplicate to wells in a clean 96-well plate and volume was adjusted to 50 µL with Glycogen Hydrolysis buffer. Approximately 10 mg pieces of the liver samples (wet weight) to be measured were massed into clean centrifuge tubes. Masses were recorded and 100 µL of Glycogen Hydrolysis buffer was added to the tubes on ice. Homogenization was allowed to proceed for 15 minutes. Tubes were centrifuged at 1350 rpm for 5 minutes. 25 µL of supernatant from each sample was pipetted into labelled wells of the 96-well plate. Each sample was run in duplicate. 25 µL of Glycogen Hydrolysis buffer was added to each sample well to bring the final volume of all samples to 50 µL. 2 µL of Hydrolysis Enzyme mix was added to standard and sample wells. Plate was mixed and incubated at room temperature for 30 minutes. 4 mL of Reaction Mix was prepared according to the procedure and 48 µL was added to each well of the plate. Plate was incubated again for 30 minutes at room temperature. At the end of the incubation, the absorbance at 450 nm was read by a microplate reader. Data was printed and analyzed.

Results: No problems were encountered during the procedure. All reagents and samples were stored on ice were not being used. As soon as the Reaction Mix was added to the wells, colour immediately started to change to an orange. By the end of the 30 minute incubation, all wells had changed to either orange or yellow colours. Standard samples produced a linear relationship with a very good R² value (.9923). Absorbance values were averaged between duplicate runs and used in calculations. All data can be observed on accompanying data sheet.

Calculations:

1. Absorbance values were averaged across duplicate runs.
2. Reaction blanks were run (4 samples), averaged and subtracted from all absorbances to correct for background interference
3. Standard glycogen solutions produced a standard curve with a good linear relationship. Line equation was established using the computer program. Sample absorbances were used in this formula to extrapolate glycogen/ well.
4. As 100 μ L of Glycogen Hydrolysis buffer was used to homogenize tissue samples, and 25 μ L of the supernatant was pipetted into each well. Total glycogen/mg liver sample was obtained by multiplying the mass of glycogen per well by 4 and then dividing by the mass of liver used for glycogen extraction.
5. Additional concentrations of glycogen per well and per sample were obtained according to kit procedures by accounting for

Notes:

Overall the glycogen test seemed to work well. However, glycogen values were on the whole a bit low when comparing these values to several literature values of different fish species. The livers that were analyzed were different compositions, some were drier than others and homogenized differently under the procedure used. For future experiments, increasing the homogenization time and changing the homogenization procedure from manual mixing to sonication might be worth investigating.