

From: [Paul Leeper](#)
To: [Maloney, Kelly](#)
Subject: Fwd: Union River bug data
Date: Thursday, April 16, 2020 2:47:03 PM
Attachments: [pre-EDD Stream MI Field Union R 2019.xls](#)
[Pre-EDD MI Taxonomist Union R 2019.xlsx](#)

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----- Forwarded Message -----

Subject: Union River bug data

Date: Thu, 19 Dec 2019 13:49:10 -0500

From: Paul Leeper <moodymtn@tidewater.net>

To: Meidel, Susanne K <Susanne.K.Meidel@maine.gov>

CC: Dunlap, Frank <Frank.Dunlap@brookfieldrenewable.com>

Susanne,

Here are the files for one site downstream of the Graham Lake Dam.
If you have any questions or I screwed something up please contact me.

Thanks as always,

Paul

--
Paul C. Leeper
Moody Mountain Env.
137 Diamond Str.
Searsmont, ME 04973



**Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Classification Attainment Report**

Station Information

Station Number: S-1051	River Basin: Maine Coastal
Waterbody: Union River - Station 1051	HUC8 Name: Maine Coastal
Town: Ellsworth	Latitude: 44 35 22.72 N
Directions: 100 METERS BELOW THE DAM.	Longitude: 68 26 28.28 W
	Stream Order: 4

Sample Information

Log Number: 2785	Type of Sample: ROCK BAG	Date Deployed: 8/9/2019
Subsample Factor: X1	Replicates: 3	Date Retrieved: 9/6/2019

Classification Attainment

Statutory Class: B	Final Determination: NA	Date: 1/21/2020
Model Result with P≥0.6: NA	Reason for Determination: Model	
Date Last Calculated: 1/21/2020	Comments:	

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.00	Class C	0.66
Class B	0.00	NA	0.33
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	0.00	Class A	0.00
Class C or Non-Attainment	1.00	Class B or C or Non-Attainment	1.00

Model Variables

01 Total Mean Abundance	1182.00	18 Relative Abundance Ephemeroptera	0.01
02 Generic Richness	21.00	19 EPT Generic Richness	10.00
03 Plecoptera Mean Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.00
04 Ephemeroptera Mean Abundance	12.33	23 Relative Generic Richness- Plecoptera	0.00
05 Shannon-Wiener Generic Diversity	2.42	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	532.16
06 Hilsenhoff Biotic Index	5.85	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	4.00
07 Relative Abundance - Chironomidae	0.05	28 EP Generic Richness/14	0.21
08 Relative Generic Richness Diptera	0.29	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	0.00		
11 <i>Cheumatopsyche</i> Abundance	500.83		
12 EPT Generic Richness/ Diptera	1.67		
Generic Richness			
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	0.00		
16 Tanyopodinae Mean Abundance (Family Functional Group)	4.00		
17 Chironomini Abundance (Family Functional Group)	3.00		

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Cheumatopsyche</i>	42.37
2	<i>Neureclipsis</i>	28.93
3	<i>Polycentropus</i>	9.95
4	<i>Planariidae</i>	5.75
5	<i>Oecetis</i>	2.88



**Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Classification Attainment Report**

Station Number: S-1051

Town: Ellsworth

Date Deployed: 8/9/2019

Log Number: 2785

Waterbody: Union River - Station 1051

Date Retrieved: 9/6/2019

Sample Collection and Processing Information	
---	--

Sampling Organization: PAUL LEEPER (MOODY MOUNTAIN ENVIRONMENTAL)

Taxonomist: PAUL LEEPER (MOODY MOUNTAIN ENVIRONMENTAL)

Waterbody Information - Deployment	Waterbody Information - Retrieval
---	--

Temperature: 23.6 deg C

Dissolved Oxygen: 8.2 mg/l

Dissolved Oxygen Saturation:

Specific Conductance:

Velocity: 12 cm/s

pH:

Wetted Width:

Bankfull Width:

Depth:

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Swamp Hardwood	Open	Rolling
Upland Hardwood		
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>
Regulated Flows	Below Dam	Boulder 20 %
		Clay 10 %
		Gravel 10 %
		Rubble/Cobble 69 %

Landcover Summary - 2004 Data

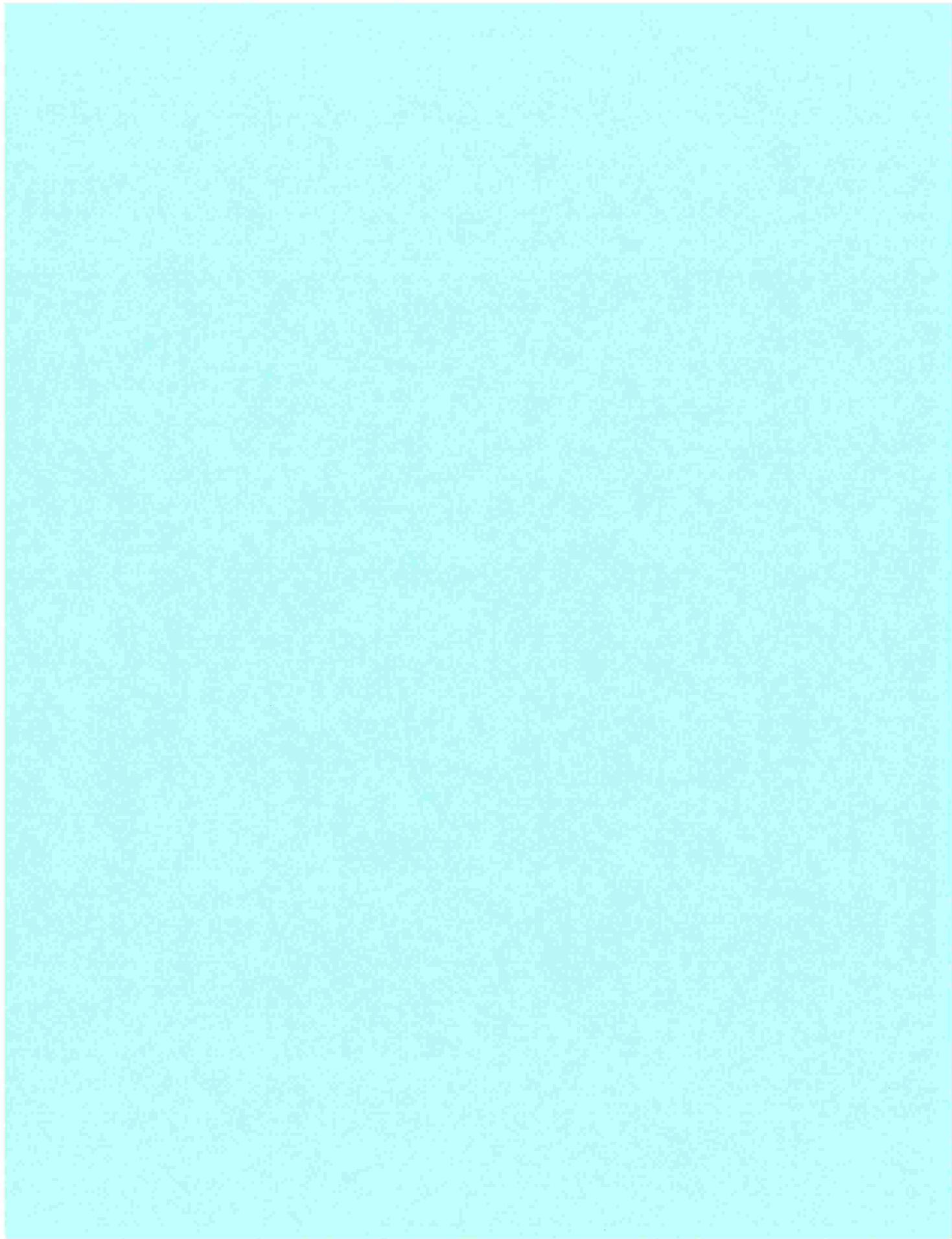
Sample Comments

ATTACHED ALGAE



**Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Taxonomic Inventory Report**

Station Number: S-1051	Waterbody: Union River - Station 1051			Town: Ellsworth			
Log Number: 2785	Subsample Factor: X1		Replicates: 3	Calculated: 1/21/2020			
Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
Planariidae	03010101	68.00	68.00	--		5.8	5.8
<i>Hyalella</i>	09010203006	6.67	6.67	8	CG	0.6	0.6
Odonata	090203	0.33	0.33	--		0.0	0.0
Heptageniidae	09020402	7.67	7.67	--		0.6	0.6
<i>Stenonema</i>	09020402016	4.00	4.00	4	SC	0.3	0.3
<i>Tricorythodes</i>	09020411038	0.67	0.67	4	CG	0.1	0.1
<i>Chimarra</i>	09020601003	18.33	18.33	2	CF	1.6	1.6
<i>Neureclipsis</i>	09020603008	342.00	342.00	7	CF	28.9	28.9
<i>Polycentropus</i>	09020603010	117.67	117.67	6	PR	10.0	10.0
Hydropsychidae	0902060404	79.33		--		6.7	
<i>Cheumatopsyche</i>	09020604015	422.67	500.83	5	CF	35.8	42.4
<i>Macrostemum</i>	09020604018	6.33	7.50	3	CF	0.5	0.6
<i>Agraylea</i>	09020607024	0.33	0.33	8	P	0.0	0.0
<i>Oecetis</i>	09020618078	34.00	34.00	8	PR	2.9	2.9
<i>Thienemannimyia</i>	09021011020	4.00	4.00	3	PR	0.3	0.3
<i>Cricotopus</i>	09021011037	31.33	31.33	7	SH	2.7	2.7
<i>Eukiefferiella</i>	09021011041	6.33	6.33	8	CG	0.5	0.5
<i>Nanocladius</i>	09021011049	3.67	3.67	3	CG	0.3	0.3
<i>Rheotanytarsus</i>	09021011072	16.00	16.00	6	CF	1.4	1.4
<i>Polypedilum</i>	09021011102	3.00	3.00	6	SH	0.3	0.3
Hydrobiidae	10010104	9.33	9.33	--		0.8	0.8
<i>Gyraulus</i>	10010203029	0.33	0.33		SC	0.0	0.0



From: [Paul Leeper](#)
To: [Maloney, Kelly](#)
Subject: Fwd: Graham Lake bug data
Date: Thursday, April 16, 2020 2:39:57 PM
Attachments: [pre-EDD Stream MI Field Graham L CG-1 8-15-2019.xls](#)
[pre-EDD Stream MI Field Graham L CG-2 8-15-2019.xls](#)
[pre-EDD Stream MI Field Graham L S-1 8-15-2019.xls](#)
[pre-EDD Stream MI Field Graham L S-2 8-15-2019.xls](#)
[pre-EDD Stream MI Field Graham L W-1 8-15-2019.xls](#)
[pre-EDD Stream MI Field Graham L W-2 8-15-2019.xls](#)
[Pre-EDD MI Taxonomist Graham L CG-1 8-15-2019.xlsx](#)
[Pre-EDD MI Taxonomist Graham L CG-1 9-19-2019.xlsx](#)
[Pre-EDD MI Taxonomist Graham L CG-2 8-15-2019.xlsx](#)
[Pre-EDD MI Taxonomist Graham L CG-2 9-19-2019.xlsx](#)
[Pre-EDD MI Taxonomist Graham L S-1 8-15-2019.xlsx](#)
[Pre-EDD MI Taxonomist Graham L S-1 9-19-2019.xlsx](#)
[Pre-EDD MI Taxonomist Graham L S-2 8-15-2019.xlsx](#)
[Pre-EDD MI Taxonomist Graham L S-2 9-19-2019.xlsx](#)
[Pre-EDD MI Taxonomist Graham L W-1 8-15-2019.xlsx](#)
[Pre-EDD MI Taxonomist Graham L W-1 9-19-2019.xlsx](#)
[Pre-EDD MI Taxonomist Graham L W-2 8-15-2019.xlsx](#)
[Pre-EDD MI Taxonomist Graham L W-2 9-19-2019.xlsx](#)
[Graham Lake Macroinvertebrate Sites 2019.pdf](#)

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Subject: Graham Lake bug data

Date: Tue, 10 Mar 2020 07:40:13 -0400

From: Paul Leeper <moodymtn@tidewater.net>

To: DiFranco, Jeanne L <Jeanne.L.DiFranco@maine.gov>

CC: Dunlap, Frank <frank.dunlap@brookfieldrenewable.com>

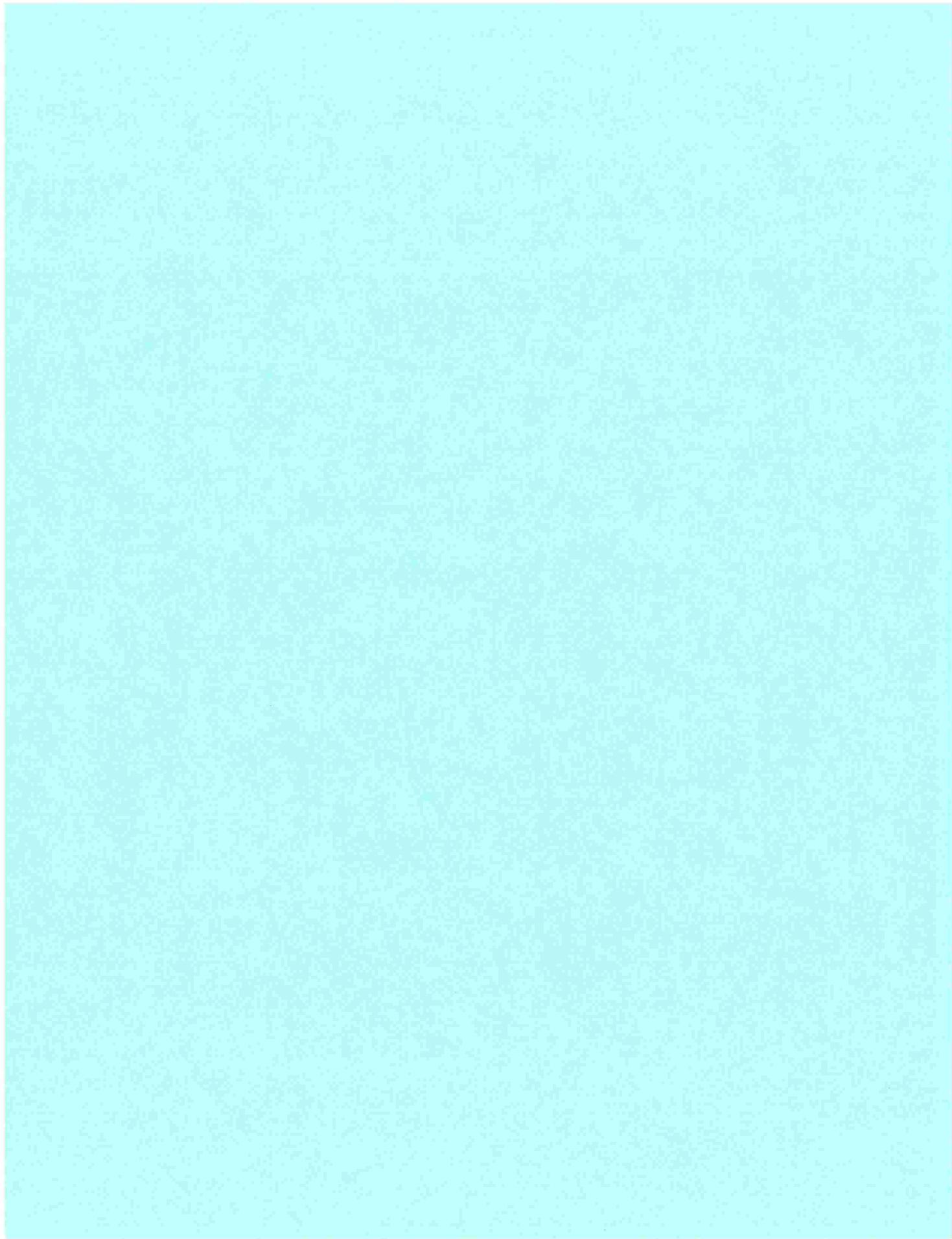
Morning Jeanne,

Frank Dunlap asked me to send over the bug data files for Graham Lake (2019) and Attean Pond (Normandeau 2009). Here are the files for Graham Lake as well as a map showing site locations. Attean data will be over later today.

If you have any questions please contact me.

Paul

--
 Paul C. Leeper
 Moody Mountain Env.
 137 Diamond Str.
 Searsmont, ME 04973



From: [Paul Leeper](#)
To: [Maloney, Kelly](#)
Subject: Fwd: Attean Pond bug data
Date: Thursday, April 16, 2020 2:41:47 PM
Attachments: [pre-EDD Stream MI Field Attean Pond ATT-1 8-24-08.xls](#)
[pre-EDD Stream MI Field Attean Pond ATT-2 8-24-08.xls](#)
[pre-EDD Stream MI Field Attean Pond ATT-3 8-24-08.xls](#)
[pre-EDD Stream MI Field Attean Pond ATT-4 8-24-08.xls](#)
[pre-EDD Stream MI Field Attean Pond ATT-5 8-24-08.xls](#)
[pre-EDD Stream MI Field Attean Pond ATT-6 8-24-08.xls](#)
[Pre-EDD MI Taxonomist Attean 1-2008.xlsx](#)
[Pre-EDD MI Taxonomist Attean 2-2008.xlsx](#)
[Pre-EDD MI Taxonomist Attean 3-2008.xlsx](#)
[Pre-EDD MI Taxonomist Attean 4-2008.xlsx](#)
[Pre-EDD MI Taxonomist Attean 5-2008.xlsx](#)
[Pre-EDD MI Taxonomist Attean 6-2008.xlsx](#)
[AtteanMacroinvertebrateSites2008Normandeau.pdf](#)

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----- Forwarded Message -----

Subject: Attean Pond bug data
Date: Tue, 10 Mar 2020 09:27:04 -0400
From: Paul Leeper <moodymtn@tidewater.net>
To: DiFranco, Jeanne L <Jeanne.L.DiFranco@maine.gov>
CC: Dunlap, Frank <frank.dunlap@brookfieldrenewable.com>

Morning again Jeanne,

Please find enclosed bug data files for 2008 sampling done on Attean Pond by Normandeau Associates. The data was gleaned from the following report:

Brassua Hydroelectric Project (FERC No. 2615)
 Macroinvertebrate Survey
 Initial Study Report
 Prepared for
 Owners of Brassua Dam
 Prepared by
 Normandeau Associates, Inc.
 February 2008

A few notes regarding the data files.

Biomonitoring Stream Macroinvertebrate Field Data Entry Forms: I didn't have a lot of data to input but did have substrate info. I couldn't find GPS coordinates but have included a map with locations noted.

Taxa ID worksheets: Data Input methodology

1. I copied the raw data to a new sheet
2. I took out extraneous rows and columns to allow data to line up with template and then copied the data into the template
3. I, conservatively, adjusted the taxa names to conform with the DEP taxa list, mainly removing "sp." from the end of genus names and "grp" from chiros.
4. You will notice some taxa do not have codes, I left them as is.

If you have any questions please contact me.

Paul

Paul C. Leeper
Moody Mountain Env.
137 Diamond Str.
Searsmont, ME 04973

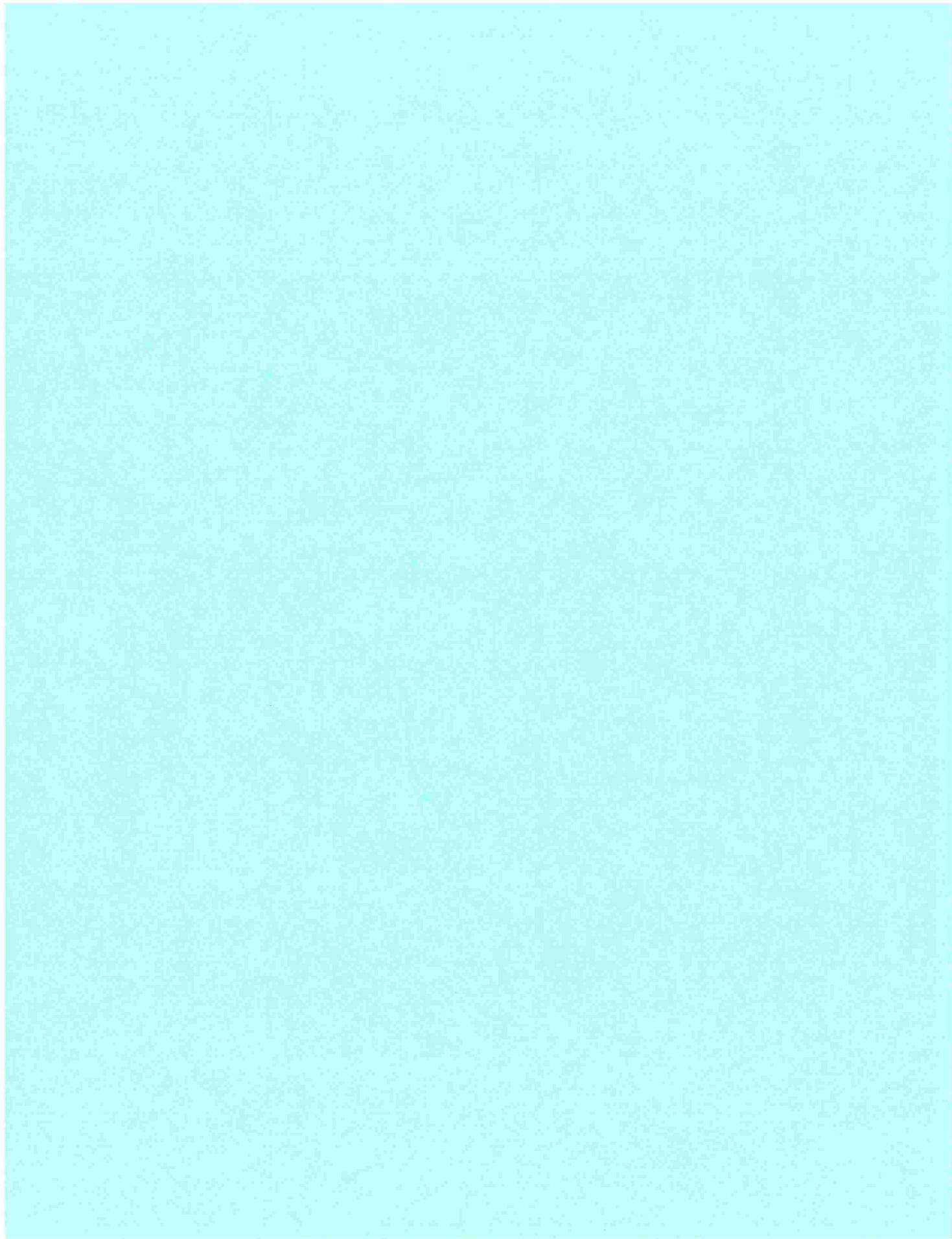
On 3/10/2020 7:40 AM, Paul Leeper wrote:

Morning Jeanne,

Frank Dunlap asked me to send over the bug data files for Graham Lake (2019) and Attean Pond (Normandeau 2009). Here are the files for Graham Lake as well as a map showing site locations. Attean data will be over later today.

If you have any questions please contact me.

Paul





FPL Energy Maine Hydro LLC
160 Capitol Street, Suite 8, Augusta, ME 04330
207-623-8413

February 5, 2009
Filed Electronically

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, DC 20426

Brassua Hydroelectric Project, FERC Project No. 2615
Initial Study Report

Dear Secretary Bose,

On behalf of the Licensees for the Brassua Hydroelectric Project, FPL Energy Maine Hydro LLC respectfully submits the Initial Study Report for filing with the Federal Energy Regulatory Commission (FERC). The Initial Study Report is being filed in accordance with the Integrated Licensing Process (ILP) and includes study reports developed from the results of the field studies conducted primarily during the 2008 field season. Studies conducted include:

1. Impoundment Fluctuation Study
2. Bathymetric Study
3. Water Quality Monitoring Study
4. Fisheries Survey
5. Fisheries Entrainment and Impingement Assessment
6. Moose River Instream Flow and Habitat Assessment
7. Evaluation of Tailwater Fisheries Enhancements
8. Reservoir Tributary Access Survey
9. Macroinvertebrate Survey
10. Aquatic Resources Survey
11. Terrestrial Resources Survey
12. Cultural Resources Survey (filed under separate cover as privileged)
13. Mercury Sampling for Fish and Wildlife
14. Shoreline Ownership and Development Inventory
15. Project Redevelopment Study
16. Project Operations Overview
17. Desktop Review of Upstream Fish Passage Information
18. Recreation Survey
19. Upper Moose River Telemetry Study (2006)

Studies conducted and included in the Initial Study Report are consistent with the approach and methodology described in the Revised Proposed Study Plan (Study Plan), that was approved by FERC in its Study Plan Determination letter dated March 6, 2008. Any changes to scope or

Brassua Project No. 2615
Initial Study Report

2

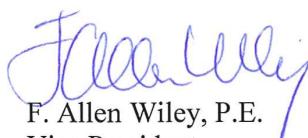
methodology to studies that were made during the course of the field season were done in consultation with the ILP participants and are described in the study reports.

In accordance with FERC's practice, the Cultural Resources Initial Study Report is being treated as a confidential document, and is only being provided to the Maine Historic Preservation Commission, area Native American Tribes and FERC. Licensees request that the report be placed in the Commission's non-public file.

In accordance with FERC regulations 18 CFR § 5.15(c), within 15 days following the filing of the Initial Study Report, Licensees will hold a meeting with the participants and Commission staff to discuss the study results and to discuss modifications to the study plan, if necessary, in light of the progress of the studies and data collected . Licensees will conduct the Initial Study Report meeting on Friday, February 20, 2009 at the Sportsman's Alliance of Maine, in Augusta, Maine, from 9:00 AM until 4:00 PM.

If you have any questions regarding the Initial Study Report or require any additional information, please contact Frank Dunlap at (207) 623-8417 or Frank_Dunlap@fpl.com.

Sincerely,



F. Allen Wiley, P.E.
Vice President
FPL Energy Maine Hydro LLC

cc: Distribution List

CERTIFICATE OF SERVICE

I hereby certify that I have provided a copy via First Class Mail or electronic mail of the Initial Study Report for the Brassua Hydroelectric Project to each entity designated on the attached Distribution List.

Dated at Richmond, VA this 5th day of February, 2009.



Wendy Bley
Long View Associates
2416 Mountainbrook Dr.
Richmond, Virginia 23233

**Brassua Project (FERC No. 2615)
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David Lombard
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Portland, ME 04104

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Washington, DC 20004

Brassua Hydroelectric Project (FERC No. 2615)

Initial Study Report

Volume I of V

**Prepared for
Owners of Brassua Dam**

**Prepared by
Long View Associates, Inc.**

February 2009

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Section II - Initial Study Reports

Brassua Reservoir Impoundment Fluctuation Study

Littoral Habitat Survey

Brassua Reservoir Bathymetric Study

Water Quality Monitoring Study

Fisheries Survey

Brassua Reservoir - Moose River Fish Community Survey

Moose River Brook Trout and Landlocked Salmon Radio-Telemetry Study

Moose River Smelt Drift Study

Moose River Wild Salmon Production Evaluation

Moose River Salmonid Redd Survey

Upper Moose River Brook Trout Fishery Assessment

Fish Entrainment and Impingement Assessment
Moose River Instream Flow and Habitat Assessment
Moose River Evaluation of Tailwater Fishery Enhancements
Brassua Reservoir Tributary Habitat and Access Study

Volume II

Section II - Initial Study Reports

Macroinvertebrate Survey
Brassua Reservoir Aquatic Resources Survey

Volume III

Section II - Initial Study Reports

Terrestrial Resources Study
Terrestrial Resources Survey
Aquatic Furbearer Study

Volume IV

Section II - Initial Study Reports

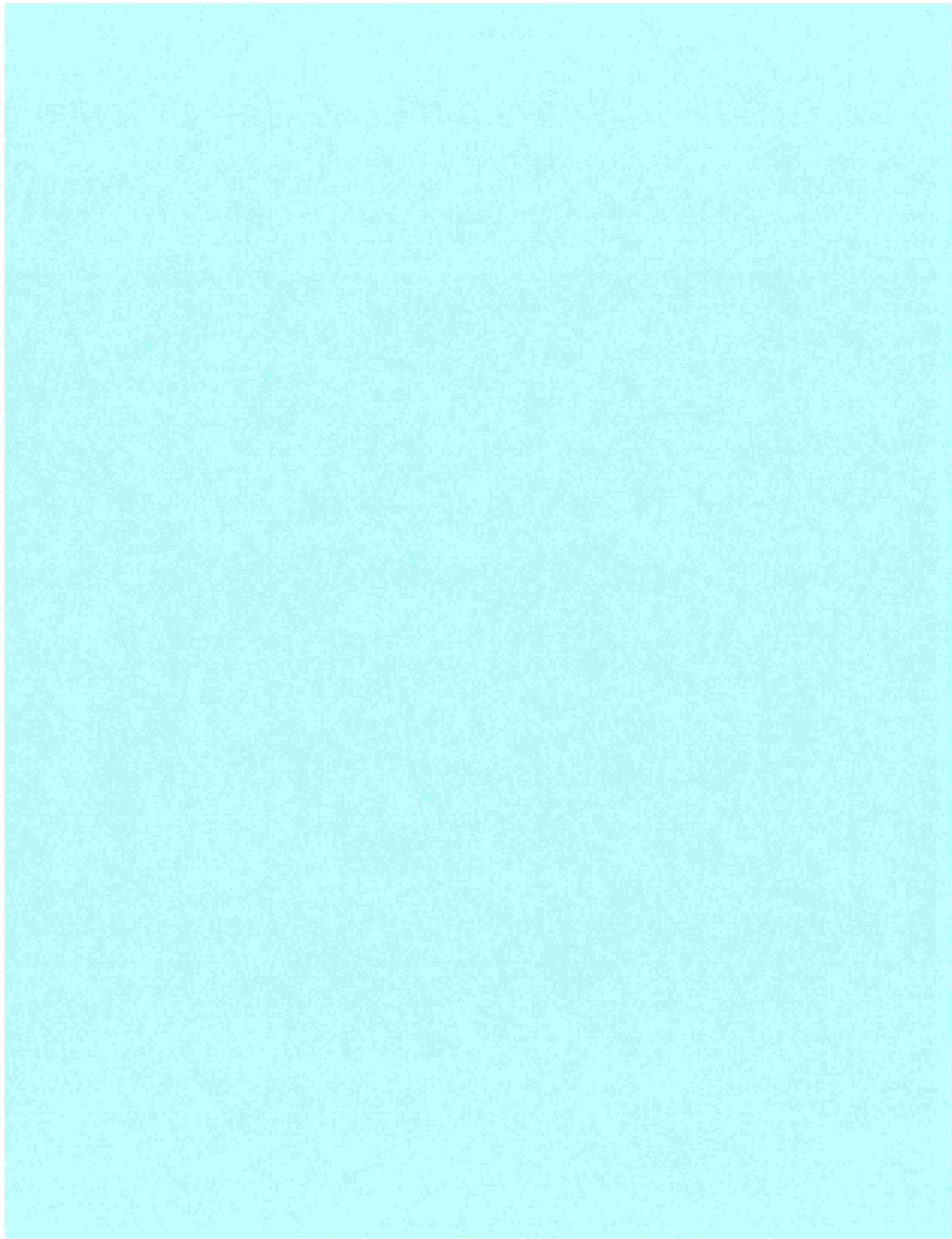
Mercury Sampling for Fish and Wildlife
Shoreline Ownership and Development Inventory
Project Redevelopment Study
Project Operations Overview
Desktop Review of Moose River Upstream Fish Passage
Recreational Resources Inventory

Section III - ISR Appendices

Appendix A: FERC-Approved Study Plan
Appendix B: Study Consultation Record

Volume V - Privileged

Cultural Resources Survey



From: [Maloney, Kelly](#)
To: [Howatt, Kathy](#); ["Livesay, Nick"](#); [Dorman, Randy](#)
Subject: Ellsworth Final BMI Reports
Date: Friday, January 31, 2020 11:14:00 AM
Attachments: [Graham Lake Final Macro Report-1-30-20.pdf](#)
[Union River Macroinverts Final 1-30-20.pdf](#)
[image002.png](#)

Hi, Nick and Kathy,

Ahead of our meeting next Thursday, please find attached the final BMI reports for Graham Lake and the Union River. We are pleasantly surprised to report that Paul Leeper is of the opinion the Graham Lake meets aquatic life designated use standards. We are disappointed but not at all surprised that his analysis of the river resulted in affirmation of the previous analysis showing non-attainment. That said, there are many aspects of our current relicensing proposal that we think are worth revisiting in terms of potential remediation and we look forward to discussing those with you.

Thank you,

Kelly Maloney
Manager, Compliance – Northeast

Brookfield Renewable
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