

SITE Watershed Code 0X0N Segment 301 Type N Year 2013

Reviewer: First BDR Second TH

DATE Year 13 Month 08 Day 22

CREW: Morgan, Hagg, Ber lett, Baxter, Perry, Spradlin
Mummett, Lester

TIME 0900 (Military)

COMMENTS: _____

SAMPLEABILITY

- s = Sampleable
1 = Dry Streambed
2 = Too Deep
3 = Marsh, no defined channel
4 = Excessive Riparian Vegetation
5 = Impoundment
6 = Tidally Influenced
7 = Permission Denied
8 = Unsafe (describe in comments)
9 = Beaver
10 = Other _____

- ☒ Electrofishing
☒ Habitat
☒ Water Quality
☒ Herpetofauna
☒ Salamanders
☒ Crayfishes
☒ Mussels
☒ Aquatic Plants
☒ Exotic Plants

☐ None Observed

EXOTIC PLANTS

Relative Abundance (P or E)

Species

Japanese Stilt Grass P
Porcelain Berry P
Mile-a-minute E
Phragmites E
Tree of Heaven P
Groom Ivy P

WATER QUALITY

Temp (C) 24.3 pH 7.66 Turbidity (NTU) 0.143

DO (ppm) 8.2 Cond (mS/cm) 0.391

Meter Calibrations by: Perry

Meter ID: In situ

AQUATIC VEGETATION

(A, P, or E)

Submerged Aquatic Vegetation A

Emergent Aquatic Vegetation P

Floating Aquatic Vegetation _____

(A, P, or E)

Didymo A

Voucher (Y/N) N

Number

PHOTODOCUMENTATION

Voucher (Y/N)

320 16:06 Upstream N

321 16:07 downstream N

TEMPERATURE LOGGERS

Air Logger Present? (Y/N) N

Water Logger De-watered? (Y/N) N

COMMENTS: Site covered wall to
wall with green filamentous
algae.

MBSS SUMMER HABITAT DATA SHEET

Page 3 Of 6
 SITE Watershed Code 0X0W Segment 301 Type N Year 2013

 Reviewer: First BON Second TH

BANK EROSION

	Left Bank	Right Bank
Extent (m)	<u>75</u>	<u>75</u>
Severity 0=none 1=min 2=mod 3=severe	<u>1</u>	<u>1</u>
Average Height (m)	<u>0.2</u>	<u>0.2</u>

BAR FORMATION & SUBSTRATE

Severity	Substrate
0=none	<u>2</u>
1=min	
2=mod	
3=extensive	

☒ Cobble
☒ Gravel
☐ Sand
☐ Silt/Clay

HABITAT ASSESSMENT

1. Instream Habitat (0-20)	<u>13</u>
2. Epifaunal Substrate (0-20)	<u>10</u>
3. Velocity/Depth Diversity (0-20)	<u>08</u>
4. Pool/Glide/Eddy Quality (0-20)	<u>07</u>
Extent (m)	<u>50</u>
5. Riffle/Run Quality (0-20)	<u>11</u>
Extent (m)	<u>50</u>
6. Embeddedness (%)	<u>055</u>
7. Shading (%)	<u>0.5</u>

FLOW

Lat Loc (m)	Depth (cm)	Velocity (m/s)
0000	000	000
0023	040	0.01
0069	090	0.05
0115	090	0.22
0161	140	0.34
0207	130	0.35
0253	170	0.33
0299	195	0.30
0345	190	0.15
0391	195	0.05
0437	110	0.02
0460	000	0.00

STREAM CHARACTER

<u>A</u> Braided	<u>E</u> Gravel	<u>A</u> Boulder >2m
<u>P</u> Riffle	<u>P</u> Sand	<u>A</u> Boulder <2m
<u>E</u> Run/Glide	<u>P</u> Silt/Clay	<u>A</u> Beaver Pond
<u>A</u> Deep Pool(>= .5m)	<u>E</u> Cobble	<u>P</u> Overhead Cover
<u>P</u> Shallow Pool(< .5m)	<u>A</u> Bedrock	<u>E</u> Undercut Bank

A = Absent P = Present E = Extensive

Maximum Depth (cm) 048

<u>0.0</u>	No. of Instream Woody Debris
<u>0.1</u>	No. of Dewatered Woody Debris
<u>0.0</u>	No. of Instream Rootwads
<u>0.2</u>	No. of Dewatered Rootwads

	Wetted Width (m)	Thalweg Depth (cm)	Thalweg Velocity (m/s)
0 m	<u>20.9</u>	<u>17.5</u>	<u>0.13</u>
25 m	<u>18.2</u>	<u>037</u>	<u>0.05</u>
50 m	<u>18.9</u>	<u>012</u>	<u>0.09</u>
75 m	<u>17.2</u>	<u>17.5</u>	<u>0.00</u>

Alternative Flow Measurements

Distance (cm)	<u> </u>
Depth (cm)	<u> </u>
Width (cm)	<u> </u>
Time (sec)	<u> </u>

COMMENTS

	Watershed Code	Segment	Type	Year
SITE	010N	361	N	2013

Reviewer: First Second

Fish Move. During Net Installation?		(Y/N)	Unit <u>B1</u>	Unit <u>S3</u>	Unit <u>D13</u>	Unit <u> </u>	Unit <u> </u>
		☒	<u>2</u>	<u>1</u>	<u>1</u>	<u> </u>	<u> </u>
Bottom Visible in all Areas of Seg.?		☒	Anodes/Unit				
		☒					
Same Water Clarity - 2nd Pass?		☒	Time (sec)				
		☒	Begin 1 st p.				
		☒	Begin 2 nd p.	<u>39</u>	<u>83</u>	<u>0</u>	
		☒	End 2 nd p.	<u>84</u>	<u>35</u>	<u>0</u>	
Length of Seg. Sampled (m)		<u>75</u>	Volt.				
		<u>75</u>	<u>406</u>	<u>250</u>	<u>300</u>	<u> </u>	<u> </u>
Fish Captured?		☒	Gamefish?				☒
		☒					☒

SPECIES	Number Retained?	1st Pass Catch (Total)	2nd Pass Catch (Total)	Anomalies (Y/N)	Comments
Bluegill	0	17	6	N	
Longear sunfish	0	9	1	N	
American eel	0	45	21	N	
White sucker	0	1	0	N	
Greenside darter	0	3	2	N	
Brown bullhead	0	2	0	N	
Redbreast sunfish	0	39	7	N	
Central stoneroller	0	1	0	N	
Gern mosquitofish	0	32	20	N	
Spotted darter	0	28	17	N	
Eastern silvery minnow	0	625	837	N	
Mummichog	0	213	165	N	
Pumpkinseed	0	49	24	N	
Banded killifish	0	88	81	N	
Bluntnose minnow	0	3	3	N	
Spotail shiner	0	14	15	N	
Largemouth bass	0	6	2	N	

Aggregate Fish Biomass

	9	1	3	6
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	5	9	0	8
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(g)

GAME FISH DATA SHEET

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SAMPLE SEGMENT

Reviewed By: BPN

DATE 13 08 22

OXON-301-N-203

2nd Reviewer: HP

1ST Pass Gamefish

Pass Gamefish

SPECIES	LENGTH (TL: mm)	ANOM TYPE	SPECIES	LENGTH (TL: mm)	ANOM TYPE
1. Large mouth Bass	1142		Large mouth Bass	1125	
2. Large mouth Bass	1195		Large mouth Bass	1098	
3. Large mouth Bass	1195				
4. Large mouth Bass	1162				
5. Large mouth Bass	1162				
6. Large mouth Bass	1102				
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Aggregate Gamefish Biomass (g)

2ND PASS Aggreg Game Biomass

FISH CRIB SHEET

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Watershed Code OXON Segment 301 Type N Year 2003
 Y Y M M D D
 DATE 03 08 22 9136

Species	Tally	Anomalies
Bluegill	(17) ✓	
Longear Sunfish	(9) ✓	
Arm Eel	V (45) ✓	
White sucker	I (1) ✓	
Greeneye Darter	(3) ✓	
Brown Catfish	(2) ✓	
Red Breast	(39) ✓	
Goldfish	I (1) ✓	
Z. Goby	(32) ✓	
Pro. darters	(6) ✓	
Less Darter	(28) ✓	
E. Shiner	(625) ✓	
Mummichog	(208) ✓	
Pumpkinseed	(49) ✓	
Rock Bass	(88) ✓	
Blacknose Minnow	(3) ✓	
Spottail	(19) ✓	
Large Mouth Bass	(6) ✓	

Species	Tally	Anomalies
Bluegill	(5908) ✓	
Longear Sunfish	I (1) ✓	
Arm Eel	(21) ✓	
Greeneye Darter	(2) ✓	
Redbreast	(7) ✓	
E. Mosquito	(20) ✓	
P. darters	(3) ✓	
Less Darter	(17) ✓	
E. Shiner	XXXXXXXXXXXXXXXXXX (100) (1007) (50) (30) (637) ✓	
Mummichog	(213) ✓	
Pumpkinseed	(165) ✓	
Rock Bass	(24) ✓	
Banded Killifish	V (81) ✓	
Blacknose Minnow	(3) ✓	
Spottail	(15) ✓	
Large Mouth Bass	(2) ✓	

MBSS SUMMER INDEX PERIOD DATA SHEET

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SITE Watershed Code PRWT Segment 2011 Type N Year 2013

Reviewer: Bar / Bp

DATE Year 13 Month 08 Day 20

CREW: Morgan Berlett, Carlin, Perry, Vosti, Mummert

TIME 1430 (Military)

COMMENTS: _____

SAMPLEABILITY

- s = Sampleable
- 1 = Dry Streambed
- 2 = Too Deep
- 3 = Marsh, no defined channel
- 4 = Excessive Riparian Vegetation
- 5 = Impoundment
- 6 = Tidally Influenced
- 7 = Permission Denied
- 8 = Unsafe (describe in comments)
- 9 = Beaver
- 10 = Other _____

- ☒ 5 Electrofishing
- ☒ 5 Habitat
- ☒ 5 Water Quality
- ☒ 5 Herpetofauna
- ☒ 5 Salamanders
- ☒ 5 Crayfishes
- ☒ 5 Mussels
- ☒ 5 Aquatic Plants
- ☒ 5 Exotic Plants

☐ None Observed

EXOTIC PLANTS

Relative Abundance (P or E)

Species

Japanese stilt grass	☒ E
Ground ivy	☒ P
Mile-a-minute	☒ P
Multiflora rose	☒ P
English ivy	☒ P
Garlic mustard	☒ P
Princess tree	☒ P
Stinging nettle	☒ P
~~Porcelain berry~~	☒ P
Porcelainberry	☒ P
	☐

WATER QUALITY

Temp (C) 23.0 pH 8.12 Turbidity (NTU) 0.122
 DO (ppm) 11.2 Cond (mS/cm) 0.412

Meter Calibrations by: Perry

Meter ID: In-situ

AQUATIC VEGETATION

(A, P, or E)

Submerged Aquatic Vegetation ☒ A
 Emergent Aquatic Vegetation ☒ A
 Floating Aquatic Vegetation ☒ A
 Didymo ☒ A

Voucher (Y/N)

Number

PHOTODOCUMENTATION

Voucher (Y/N)

<u>317</u>	<u>19:06 upstream</u>	☒ N
<u>318</u>	<u>19:06 downstream</u>	☒ N
<u>319</u>	<u>19:07 MBSS Rt bank - slumping bank</u>	☒ N
<u> </u>	<u>at midpoint</u>	☐
<u> </u>	<u> </u>	☐
<u> </u>	<u> </u>	☐

MBSS SUMMER HABITAT DATA SHEET

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SITE Watershed Code Segment Type Year
PRMT 2011 N 2013

First Second
 Reviewer: pe 1 Bms

BANK EROSION

Left Bank Right Bank
 Extent (m) 53 60
 Severity 15x.5 22x1
 0=none 13x.3 28x1.23
 1=min 23x.23 13x.75
 2=mod 2 3
 3=severe
 Average Height (m) 004 010

BAR FORMATION & SUBSTRATE

Severity 3
 0=none
 1=min
 2=mod
 3=extensive
☐ Cobble
☒ Gravel
☒ Sand
☐ Silt/Clay

HABITAT ASSESSMENT

1. Instream Habitat (0-20) 14
2. Epifaunal Substrate (0-20) 13
3. Velocity/Depth Diversity (0-20) 08
4. Pool/Glide/Eddy Quality (0-20) 10
 Extent (m) 60
5. Riffle/Run Quality (0-20) 14
 Extent (m) +15+5+3 38
6. Embeddedness (%) 040
7. Shading (%) 025

FLOW

Lat Loc (m)	Depth (cm)	Velocity (m/s)
<u>0000</u>	<u>000</u>	<u>000</u>
<u>0020</u>	<u>040</u>	<u>009</u>
<u>0060</u>	<u>060</u>	<u>006</u>
<u>0100</u>	<u>040</u>	<u>002</u>
<u>0140</u>	<u>060</u>	<u>015</u>
<u>0180</u>	<u>050</u>	<u>026</u>
<u>0220</u>	<u>050</u>	<u>007</u>
<u>0260</u>	<u>050</u>	<u>020</u>
<u>0300</u>	<u>070</u>	<u>036</u>
<u>0340</u>	<u>060</u>	<u>040</u>
<u>0380</u>	<u>040</u>	<u>024</u>
<u>0400</u>	<u>000</u>	<u>000</u>

STREAM CHARACTER

A Braided E Gravel A Boulder >2m
P Riffle E Sand P Boulder <2m
E Run/Glide P Silt/Clay A Beaver Pond
A Deep Pool(>= .5m) P Cobble P Overhead Cover
P Shallow Pool(< .5m) A Bedrock E Undercut Bank

A = Absent P = Present E = Extensive

Maximum Depth (cm) 041

00 No. of Instream Woody Debris
01 No. of Dewatered Woody Debris
00 No. of Instream Rootwads
04 No. of Dewatered Rootwads

	Wetted Width (m)	Thalweg Depth (cm)	Thalweg Velocity (m/s)
0 m	<u>030</u>	<u>012</u>	<u>027</u>
25 m	<u>023</u>	<u>026</u>	<u>009</u>
50 m	<u>055</u>	<u>016</u>	<u>011</u>
75 m	<u>037</u>	<u>036</u>	<u>005</u>

Alternative Flow Measurements

Distance (cm)
 Depth (cm)
 Width (cm)
 Time (sec)
 1.
 2.
 3.

COMMENTS Bar formation close to restoration work

Watershed Code Segment Type Year

SITE PRUT 201 N 2013

Reviewer: BDN / [Signature] First Second

Fish Move. During Net Installation? ☒ (Y/N)		Unit <u>2</u>		Unit <u>1</u>		Unit <u> </u>		Unit <u> </u>		Unit <u> </u>	
Bottom Visible In all Areas of Seg.? ☒ (Y/N)		Anodes/Unit									
Same Water Clarity - 2nd Pass? ☒ (Y/N)		Time (sec) Begin 1 st p. <u> </u> <u> </u> <u> </u> <u> </u>		<u> </u> <u> </u> <u> </u> <u> </u>		~~<u> </u> <u> </u> <u> </u> <u> </u>~~		~~<u> </u> <u> </u> <u> </u> <u> </u>~~		~~<u> </u> <u> </u> <u> </u> <u> </u>~~	
Length of Seg. Sampled (m) <u>7.5</u>		Begin 2 nd p. <u>4</u> <u>8</u> <u>6</u> <u>3</u>		<u>2</u> <u>4</u> <u>2</u> <u>6</u>		~~<u> </u> <u> </u> <u> </u> <u> </u>~~		~~<u> </u> <u> </u> <u> </u> <u> </u>~~		~~<u> </u> <u> </u> <u> </u> <u> </u>~~	
		End 2 nd p. <u>6</u> <u>8</u> <u>3</u> <u>6</u>		<u>3</u> <u>8</u> <u>5</u> <u>8</u>		~~<u> </u> <u> </u> <u> </u> <u> </u>~~		~~<u> </u> <u> </u> <u> </u> <u> </u>~~		~~<u> </u> <u> </u> <u> </u> <u> </u>~~	
Fish Captured? ☒ (Y/N) Gamefish? ☒ (Y/N)		Volt. <u>3</u> <u>0</u> <u>0</u>		<u>2</u> <u>5</u> <u>0</u>		~~<u> </u> <u> </u> <u> </u>~~		~~<u> </u> <u> </u> <u> </u>~~		~~<u> </u> <u> </u> <u> </u>~~	

[illegible]

Aggregate Fish Biomass

	3	1	0	0
--	---	---	---	---

		4	2	8
--	--	---	---	---

(g)

Reviewer: First Second
Phen / RC

Habitat Types
Sampled in
25 m Transect

☒	Mud
☐	Cobble
☐	Boulder
☐	Gravel
☒	Vegetation
☒	Leaf Litter
☐	Woody Debris
☐	Human Refuse
☐	Other _____

☒

X		X		O	O
X				O	O
X				O	O

	Live	Dead	None
Corbicula	☐	☐	☒

Crayfish Burrows 
(Absent, Present, Extensive)

ies
Now

COMMENTS

MBSS SUMMER INDEX PERIOD DATA SHEET

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 SITE Watershed Code ACCO Segment 214 Type N Year 2013

 Reviewer: First KD / Second RO

 DATE Year 13 Month 08 Day 20
CREW: Morgan Corbin, Volli, Berlett/Don
 TIME 11030 (Military)

COMMENTS: _____

SAMPLEABILITY

- s = Sampleable
 1 = Dry Streambed
 2 = Too Deep
 3 = Marsh, no defined channel
 4 = Excessive Riparian Vegetation
 5 = Impoundment
 6 = Tidally Influenced
 7 = Permission Denied
 8 = Unsafe (describe in comments)
 9 = Beaver
 10 = Other _____

- ☒ Electrofishing
☒ Habitat
☒ Water Quality
☒ Herpetofauna
☒ Salamanders
☒ Crayfishes
☒ Mussels
☒ Aquatic Plants
☒ Exotic Plants

☐ None Observed

EXOTIC PLANTS

Relative Abundance (P or E)

Species
Oriental Bitter Sweet ☐ E
Japanese Stilt Grass ☐ E
Bamboo ☐ P
Leisipiza ☐ P
Privet ☐ P
Japanese Honey Suckle ☐ P
 _____ ☐
 _____ ☐
 _____ ☐
 _____ ☐

WATER QUALITY

 Temp (C) 20.2 pH 8.745 Turbidity (NTU) 0.162

 DO (ppm) 0.7 Cond (mS/cm) 0.147

 Meter Calibrations by: Perry

 Meter ID: In Situ

AQUATIC VEGETATION

(A, P, or E)

Submerged Aquatic Vegetation ☐ P
 Emergent Aquatic Vegetation ☐ E
 Floating Aquatic Vegetation _____

(A, P, or E)

Didymo ☐ AVoucher (Y/N) ☒

Number

PHOTODOCUMENTATION

Voucher (Y/N)

313 Procambarus clarkii 13:23 ☒ Y
314 Procambarus clarkii 13:23 ☒ Y
315 upstream 13:31 ☐ N
316 downstream 13:31 ☐ N

TEMPERATURE LOGGERS

COMMENTS: _____

Air Logger Present? (Y/N) ☐ NWater Logger De-watered? (Y/N) ☐ N

Watershed Code Segment Type Year
 SITE ACCIO 214 N 2013

First Second
 Reviewer: BUN / LC

☒ None
☐ Observed

STREAM SALAMANDERS

Species	Electrofishing Catch (Total)	General Catch (Total)	Transect Catch (Total)	Number Retained	Number Photos Taken

Habitat Types
 Sampled in
 25 m Transect

☒	Mud
☐	Cobble
☐	Boulder
☐	Gravel
☒	Vegetation
☒	Leaf Litter
☒	Woody Debris
☐	Human Refuse
☐	Other _____

☐ None
☐ Observed

OTHER HERPETOFAUNA

Species	Lifestage				Number Retained	Number Photos Taken
	Adult	Juv.	Larval	Egg		
Green tree frog	☐	☒	☐	☐	☒	☒
American bullfrog	☒	☐	☐	☐	☒	☒
Skink (not caught)	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐

☒ None
☐ Observed

MUSSELS

Species	Live Dead		Number Retained	Number Photos Taken
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
Corbicula	☐	☐	☒	

☐ None
☐ Observed

CRAYFISHES

Species	1st Pass Catch (Total)	2nd Pass Catch (Total)	Number Retained
Procambarus clarkii	☐	☐	☒
	☐	☐	☐
	☐	☐	☐
	☐	☐	☐
	☐	☐	☐
	☐	☐	☐
	☐	☐	☐
	☐	☐	☐

Crayfish Burrows ☒
 (Absent, Present, Extensive)

Incidental Catch:

Species

None

COMMENTS

SITE	Watershed Code				Segment		Type	Year		Reviewer			
	First	Second	Third	Fourth	First	Second		First	Second	First	Second		
	A	C	C	O	2	1	N	2	0	1	3	bon	pc

Fish Move. During Net Installation?	(Y/N)	Unit <u>B</u>	Unit <u>R</u>	Unit <u> </u>	Unit <u> </u>	Unit <u> </u>																																																																																																				
Bottom Visible In all Areas of Seg.?	☒ Y	☐ 1	☐ 1	☐	☐	☐																																																																																																				
Same Water Clarity - 2nd Pass?	☒ N	<table border="1"> <tr><td>Begin 1st p.</td><td></td><td></td><td></td><td></td></tr> <tr><td>Begin 2nd p.</td><td>1</td><td>9</td><td>4</td><td>1</td></tr> <tr><td>End 2nd p.</td><td>3</td><td>6</td><td>6</td><td>8</td></tr> <tr><td>Volt.</td><td>4</td><td>0</td><td>1</td><td>0</td></tr> </table>	Begin 1 st p.					Begin 2 nd p.	1	9	4	1	End 2 nd p.	3	6	6	8	Volt.	4	0	1	0	<table border="1"> <tr><td>Begin 1st p.</td><td></td><td></td><td></td><td></td></tr> <tr><td>Begin 2nd p.</td><td>2</td><td>0</td><td>6</td><td>4</td></tr> <tr><td>End 2nd p.</td><td>3</td><td>8</td><td>3</td><td>5</td></tr> <tr><td>Volt.</td><td>2</td><td>5</td><td>6</td><td></td></tr> </table>	Begin 1 st p.					Begin 2 nd p.	2	0	6	4	End 2 nd p.	3	8	3	5	Volt.	2	5	6		<table border="1"> <tr><td>Begin 1st p.</td><td></td><td></td><td></td><td></td></tr> <tr><td>Begin 2nd p.</td><td></td><td></td><td></td><td></td></tr> <tr><td>End 2nd p.</td><td></td><td></td><td></td><td></td></tr> <tr><td>Volt.</td><td></td><td></td><td></td><td></td></tr> </table>	Begin 1 st p.					Begin 2 nd p.					End 2 nd p.					Volt.					<table border="1"> <tr><td>Begin 1st p.</td><td></td><td></td><td></td><td></td></tr> <tr><td>Begin 2nd p.</td><td></td><td></td><td></td><td></td></tr> <tr><td>End 2nd p.</td><td></td><td></td><td></td><td></td></tr> <tr><td>Volt.</td><td></td><td></td><td></td><td></td></tr> </table>	Begin 1 st p.					Begin 2 nd p.					End 2 nd p.					Volt.					<table border="1"> <tr><td>Begin 1st p.</td><td></td><td></td><td></td><td></td></tr> <tr><td>Begin 2nd p.</td><td></td><td></td><td></td><td></td></tr> <tr><td>End 2nd p.</td><td></td><td></td><td></td><td></td></tr> <tr><td>Volt.</td><td></td><td></td><td></td><td></td></tr> </table>	Begin 1 st p.					Begin 2 nd p.					End 2 nd p.					Volt.				
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Volt.																																																																																																										
Length of Seg. Sampled (m)	<u>75</u>																																																																																																									
Fish Captured?	(Y/N)																																																																																																									
Gamefish?	(Y/N)																																																																																																									

[illegible]

Aggregate Fish Biomass

		4	5	6			3	9	6	(g)
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MBSS SUMMER HABITAT DATA SHEET

Page 3 Of 5

SITE Watershed Code Segment Type Year
ACCO 214 N 2013

Reviewer: First Bpm Second PC

BANK EROSION

Left Bank Right Bank
 Extent (m) 15 10
 Severity 10+3+1 7+2
 0=none
 1=min
 2=mod
 3=severe
 Average Height (m) 00.4 00.3

BAR FORMATION & SUBSTRATE

Severity 1
 0=none
 1=min
 2=mod
 3=extensive
☐ Cobble
☐ Gravel
☒ Sand
☒ Silt/Clay

HABITAT ASSESSMENT

1. Instream Habitat (0-20) 5 11
2. Epifaunal Substrate (0-20) 4 12
3. Velocity/Depth Diversity (0-20) 8 08
4. Pool/Glide/Eddy Quality (0-20) 12 12
 Extent (m) 25 55
5. Riffle/Run Quality (0-20) 2 11
 Extent (m) 0 20
6. Embeddedness (%) 55 100
7. Shading (%) 010

Fine sediment bottom

3.0

FLOW

Lat Loc (m)	Depth (cm)	Velocity (m/s)
0000	000	000
0015	090	000
0045	300	000
0075	390	001
0105	510	002
0135	460	001
0165	390	001
0195	300	000
0225	200	000
0255	170	000
0285	090	000
0300	000	000

STREAM CHARACTER

☒ Braided
☒ Riffle
☒ Run/Glide
☒ Deep Pool(> .5m)
☒ Shallow Pool(< .5m)
☒ Gravel
☒ Sand
☒ Silt/Clay
☒ Cobble
☒ Bedrock
☒ Boulder >2m
☒ Boulder <2m
☒ Beaver Pond
☒ Overhead Cover
☒ Undercut Bank

A = Absent P = Present E = Extensive

Maximum Depth (cm) 083 23

	Wetted Width (m)	Thalweg Depth (cm)	Thalweg Velocity (m/s)
0 m	<u>035</u>	<u>057</u>	<u>001</u>
25 m	<u>036</u>	<u>038</u>	<u>001</u>
50 m	<u>032</u>	<u>036</u>	<u>002</u>
75 m	<u>026</u>	<u>040</u>	<u>001</u>

Alternative Flow Measurements

Distance (cm)
 Depth (cm)
 Width (cm)
 Time (sec) 1.
 2.
 3.

COMMENTS Evidence of Beaver activity

Watershed Code Segment Type Year
 SITE ACCO 214 N 2013

1st PASS
 WT: 456g

Species Tally Anomalies

Mud IIII (5)

Mosquito IIII (4)

Blue-Gill II (2)

White IIII IIII (11)

Creek Suckers IIII (5)

Tess Dart III (3)

Pumpkin IIII II (12)

Yellow Bull I (1)

Pro-Cam Clarkii I (1)

Creek Chub I (1) ~~Heart Ankle~~

Amr. Eel II (2)

2nd PASS
 15g + 381g
 WT: 396g

Species Tally Anomalies

Mud IIII (5)

Mosquito IIII IIII (15)

Bluegill I (1)

White IIII (6)

Creek suck! (1)

Tess Dart IIII (6)

Pumpkin II (2)

Yellow Bull (0)

Pro Clarkii I (1)

Creek ch. II (2)

Am eel. III (3)

Green IIII (8)

MBSS SUMMER INDEX PERIOD DATA SHEET

Page 1 Of 5
 SITE Watershed Code ANAC Segment 113 Type N Year 2013

 Reviewer: First PAP Second RS

 DATE Year 13 Month 09 Day 11

 CREW: Morgan, Perry, Corbin, Spradlin, Lester, Berleth

 TIME 0930 (Military)

COMMENTS: _____

SAMPLEABILITY

- s = Sampleable
 1 = Dry Streambed
 2 = Too Deep
 3 = Marsh, no defined channel
 4 = Excessive Riparian Vegetation
 5 = Impoundment
 6 = Tidally Influenced
 7 = Permission Denied
 8 = Unsafe (describe in comments)
 9 = Beaver
 10 = Other _____

- ☒ Electrofishing
☒ Habitat
☒ Water Quality
☒ Herpetofauna
☒ Salamanders
☒ Crayfishes
☒ Mussels
☒ Aquatic Plants
☒ Exotic Plants

☐ None Observed

EXOTIC PLANTS

Relative Abundance (P or E)

Species

- Japanese Barberry ☒ P
Japanese Silt grass ☒ E
mile-a-minute ☒ P
Bradford Pear ☒ P
 _____ ☐
 _____ ☐
 _____ ☐
 _____ ☐
 _____ ☐
 _____ ☐
 _____ ☐

WATER QUALITY

 Temp (C) 22.6 pH 7.06 Turbidity (NTU) 0.052

 DO (ppm) 07.13 Cond (mS/cm) 0340

 Meter Calibrations by: B. Perry

 Meter ID: In Situ

AQUATIC VEGETATION

(A, P, or E)

Submerged Aquatic Vegetation ☒ AEmergent Aquatic Vegetation ☒ A

Floating Aquatic Vegetation _____

(A, P, or E)

Didymo ☒ AVoucher (Y/N) ☒ N

Number

PHOTODOCUMENTATION

Voucher (Y/N)

- 0001 05:03 upstream @ midpt ☒ N
0002 05:03 downstream @ midpt ☒ N
 _____ ☐
 _____ ☐

TEMPERATURE LOGGERS

COMMENTS: _____

 Air Logger Present? (Y/N) ☒ N

 Water Logger De-watered? (Y/N) ☒ N

MBSS SUMMER HABITAT DATA SHEET

Page 2 Of 5
 SITE Watershed Code AWAC Segment 113 Type N Year 2013

 Reviewer: First Second

BANK EROSION

Left Bank Right Bank

 Extent (m) 75 75
 Severity 25x1.5 25x1.5
 0=none 25x3 25x3
 1=min 3 2
 2=mod 3 2
 3=severe
 Average Height (m) 019 008

BAR FORMATION & SUBSTRATE

 Severity 3
 0=none
 1=min
 2=mod
 3=extensive
☐ Cobble
☒ Gravel
☒ Sand
☐ Silt/Clay

HABITAT ASSESSMENT

1. Instream Habitat (0-20).....
- 10
-
2. Epifaunal Substrate (0-20).....
- 09
-
3. Velocity/Depth Diversity (0-20)
- 12
-
4. Pool/Glide/Eddy Quality (0-20).....
- 13
-
- Extent (m).....
- 75
-
5. Riffle/Run Quality (0-20).....
- 13
-
- Extent (m).....
- 25
-
6. Embeddedness (%).....
- 055
-
7. Shading (%).....
- 055

FLOW

Lat Loc (m)	Depth (cm)	Velocity (m/s)
0000	0000	0000
0007	025	000
0021	030	001
0035	045	016
0049	060	002
0063	040	002
0077	055	002
0091	060	009
0105	055	010
0119	055	018
0133	040	015
0140	000	000

STREAM CHARACTER

<u>P</u> Braided	<u>E</u> Gravel	<u>A</u> Boulder >2m
<u>P</u> Riffle	<u>E</u> Sand	<u>A</u> Boulder <2m
<u>E</u> Run/Glide	<u>E</u> Silt/Clay	<u>A</u> Beaver Pond
<u>P</u> Deep Pool(>= .5m)	<u>P</u> Cobble	<u>P</u> Overhead Cover
<u>P</u> Shallow Pool(< .5m)	<u>A</u> Bedrock	<u>P</u> Undercut Bank

A = Absent P = Present E = Extensive

Maximum Depth (cm) 076

	Wetted Width (m)	Thalweg Depth (cm)	Thalweg Velocity (m/s)
0 m	<u>050</u>	<u>09.5</u>	<u>008</u>
25 m	<u>032</u>	<u>04.5</u>	<u>014</u>
50 m	<u>072</u>	<u>14.1</u>	<u>002</u>
75 m	<u>099</u>	<u>027</u>	<u>001</u>

Alternative Flow Measurements

 Distance (cm)
 Depth (cm)
 Width (cm)
 Time (sec) 1.
 2.
 3.

COMMENTS

SITE Watershed Code Segment Type Year
ANAC 1113 N 2013

Reviewer: First PJM Second RE

☐ None
☒ Observed

STREAM SALAMANDERS

Species	Electrofishing Catch (Total)	General Catch (Total)	Transect Catch (Total)	Number Retained	Number Photos Taken
<u>Northern two-lined Salamander</u>	☒	☒	☒	☒	☒

Habitat Types
 Sampled in
 25 m Transect

- ☒ Mud
☒ Cobble
☐ Boulder
☐ Gravel
☒ Vegetation
☒ Leaf Litter
☐ Woody Debris
☐ Human Refuse
☒ Other Sand

☐ None
☒ Observed

OTHER HERPETOFAUNA

Species	Lifestage				Number Retained	Number Photos Taken
	Adult	Juv.	Larval	Egg		
<u>American Toad</u>	☒	☐	☐	☐	☒	☒
<u>American bullfrog</u>	☒	☒	☐	☐	☒	☒
<u>Northern green frog</u>	☒	☒	☐	☐	☒	☒
<u>Pickering Frog</u>	☒	☐	☐	☐	☒	☒

☒ None
☐ Observed

MUSSELS

Species	Live	Dead	Number Retained	Number Photos Taken
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐

Corbicula ☒ Live ☒ Dead ☐ None

☐ None
☒ Observed

CRAYFISHES

Species	1st Pass Catch (Total)	2nd Pass Catch (Total)	Number Retained
<u>Orconectes virilis</u>	☐	☐	☒
<u>Orconectes limosus</u>	☐	☐	☒
<u>Cambarus acuminatus</u>	☐	☐	☒

Crayfish Burrows ☒
 (Absent, Present, Extensive)

Incidental Catch:

Species None

COMMENTS

	Watershed Code	Segment	Type	Year
SITE	A N A C	V I 3	N	2 0 1 3

First Second
Reviewer: BM / RC

Fish Move. During Net Installation?		(Y/N)	Unit	Unit	Unit	Unit	Unit
		☒	2	1			
Bottom Visible in all Areas of Seg.?		☒	Anodes/Unit				
		☒					
Same Water Clarity - 2nd Pass?		☒	Time (sec)				
		☒					
Length of Seg. Sampled (m)		75	Begin 1 st p.				
			Begin 2 nd p.				
			End 2 nd p.				
Fish Captured?		☒	Volt.				
Gamefish?		☒					
SPECIES			1st Pass Catch (Total)	2nd Pass Catch (Total)	Anomalies (Y/N)		Comments

[illegible]

Aggregate Fish Biomass

	1	1	3	4
--	---	---	---	---

		5	8	1
--	--	---	---	---

(g)

FISH CRIB SHEET

Page 5 Of 5

SITE Watershed Code ANAC Segment 113 Type N Year 2013

DATE Y Y M M D D 13 09 11

1st PASS 816 3/18
518
1134

Species	Tally	Anomalies
Blacknose D ^o <u>(2)</u>		<u>(80)</u>
Yellow Perch <u>(3)</u>		<u>(3)</u>
Tess <u>(63)</u>		<u>(63)</u>
Creek Chub <u>(1)</u>	VVVV	<u>(1)</u>
Silver Saw <u>(3)</u>		<u>(3)</u>
Ad Eol <u>(55)</u>		<u>(55)</u>
Mud Eel <u>(15)</u>		<u>(15)</u>
Longnose <u>(8)</u>		<u>(8)</u>
Creek Chub <u>(42)</u>		<u>(42)</u>
White Sucker <u>(1)</u>		<u>(1)</u>
RB SUN <u>(5)</u>		<u>(5)</u>
Spot <u>(25)</u>		<u>(25)</u>
Banded <u>(18)</u>		<u>(18)</u>
Blue Gill <u>(17)</u>		<u>(17)</u>
Green Sun <u>(1)</u>		<u>(1)</u>
Sunfish <u>(42)</u>		<u>(42)</u>
Ore V <u>(4)</u>		<u>(4)</u>
Ore L <u>(1)</u>		<u>(1)</u>
Cambarius Acc. <u>(1)</u>		<u>(2)</u>

2nd PASS 581

Species	Tally	Anomalies
Blue Gill		<u>(9)</u>
Creek Chub		<u>(16)</u>
Sunfish		<u>(37)</u>
White Sucker		<u>(2)</u>
Blacknose		<u>(13)</u>
Pet Breast		<u>(2)</u>
Tess		<u>(23)</u>
Mosgo		<u>(11)</u>
Spot		<u>(4)</u>
Eol		<u>(13)</u>
Y BW		<u>(3)</u>
Banded		<u>(1)</u>
Log		<u>(3)</u>
Ore V		<u>(2)</u>
Cambarius Acc.		<u>(2)</u>

70

Green = 11 juv
1 lar.

1- Bullfrog

1- green larvae

Pick frog adult

All Bullfrogs juvenile (5)

Green Frog Larvae (2)

SITE Watershed Code SHEN Segment 110 Type N Year 2013

 Reviewer: First Bow Second BP

 DATE Year 13 Month 08 Day 26

 CREW: Morgan Corbin, Berlett Baxter,

 TIME 1315 (Military)

 COMMENTS: Spradlin, Perry

SAMPLEABILITY

- s = Sampleable
 1 = Dry Streambed
 2 = Too Deep
 3 = Marsh, no defined channel
 4 = Excessive Riparian Vegetation
 5 = Impoundment
 6 = Tidally Influenced
 7 = Permission Denied
 8 = Unsafe (describe in comments)
 9 = Beaver
 10 = Other

- ☒ 5 Electrofishing
☒ 5 Habitat
☒ 5 Water Quality
☒ 5 Herpetofauna
☒ 5 Salamanders
☒ 5 Crayfishes
☒ 5 Mussels
☒ 5 Aquatic Plants
☒ 5 Exotic Plants

☐ None Observed

EXOTIC PLANTS

Relative Abundance (P or E)

Species

- Japanese Stilt grass ☒ A
Multiflora rose ☒ P
Garlic mustard ☒ P
Wineberry ☒ P
White mulberry ☒ P
Tree of heaven ☒ P
 _____ ☐
 _____ ☐
 _____ ☐
 _____ ☐

WATER QUALITY

 Temp (C) 23.4 pH 08.13 Turbidity (NTU) 003.3

 DO (ppm) 08.6 Cond (mS/cm) 0607

 Meter Calibrations by: Perry

 Meter ID: In situ

AQUATIC VEGETATION

(A, P, or E)

Submerged Aquatic Vegetation ☒ AEmergent Aquatic Vegetation ☒ AFloating Aquatic Vegetation ☒ A

(A, P, or E)

Didymo ☒ AVoucher (Y/N) ☒ +

Number

PHOTODOCUMENTATION

Voucher (Y/N)

- 326 14:18 sinkhole above 75 m - stream bottom ☒ N
327 14:18 sinkhole above 75m stream bottom ☒ N
328 14:57 downstream ☒ N
329 14:58 upstream ☒ N

TEMPERATURE LOGGERS

 Air Logger Present? (Y/N) ☒ N

 Water Logger De-watered? (Y/N) ☒ N

 COMMENTS: Sinkhole in stream bottom upstream of our sampling segment along MBSS left bank.

SITE Watershed Code Segment Type Year
SHEN 1110 N 2013

Reviewer: First Blair Second BP

☒ None Observed

STREAM SALAMANDERS

Habitat Types
Sampled in
25 m Transect

Species	Electrofishing Catch (Total)	General Catch (Total)	Transect Catch (Total)	Number Retained	Number Photos Taken

- ☒ Mud
☐ Cobble
☐ Boulder
☐ Gravel
☐ Vegetation
☒ Leaf Litter
☐ Woody Debris
☐ Human Refuse
☐ Other _____

☐ None Observed

OTHER HERPETOFAUNA

Species	Lifestage				Number Retained	Number Photos Taken
	Adult	Juv.	Larval	Egg		
Pickering frog	☒	☐	☐	☐	☒	☒
Northern Green Frog	☒	☐	☐	☐	☒	☒
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐

☒ None Observed

MUSSELS

Species	Live	Dead	Number	
			Retained	Photos Taken
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐

Corbicula ☒ Live ☒ Dead ☐ None

☐ None Observed

CRAYFISHES

Species	1st Pass Catch (Total)		2nd Pass Catch (Total)		Number Retained	
Orconectes virilis		55		59		☒

Crayfish Burrows ☒
 (Absent, Present, Extensive)

Incidental Catch:

Species

None

COMMENTS

MBSS SUMMER HABITAT DATA SHEET

Page 3 Of 5
 SITE Watershed Code SHEN Segment 1110 Type N Year 2013

 Reviewer: First BNN Second RE

BANK EROSION

	Left Bank	Right Bank
Extent (m)	<u>57</u>	<u>28</u>
Severity	<u>22+10+10+15</u>	<u>8+5+15</u>
0=none		
1=min	<u>2</u>	<u>1</u>
2=mod		
3=severe		
Average Height (m)	<u>008</u>	<u>002</u>

BAR FORMATION & SUBSTRATE

Severity	Legend
<u>2</u>	☐ Cobble
0=none	☐ Gravel
1=min	☐ Sand
2=mod	☐ Silt/Clay
3=extensive	

HABITAT ASSESSMENT

1. Instream Habitat (0-20)..... 12
2. Epifaunal Substrate (0-20)..... 12
3. Velocity/Depth Diversity (0-20) 07
4. Pool/Glide/Eddy Quality (0-20).... 08
Extent (m) 8+9+11 28
5. Riffle/Run Quality (0-20)..... 12
Extent (m) 10+15+2+8+11+5 51
6. Embeddedness (%)..... 015
7. Shading (%) 085

FLOW

Lat Loc (m)			Depth (cm)			Velocity (m/s)		
00	00	00	00	00	00	00	00	00
00	09	01	00	00	00	00	01	00
00	27	05	00	00	00	00	01	00
00	45	14	05	00	00	00	00	00
00	63	14	00	00	00	00	05	00
00	81	19	00	00	00	00	52	00
00	99	20	00	00	00	00	63	00
00	17	15	00	00	00	00	22	00
01	35	13	05	00	00	00	01	00
01	53	07	00	00	00	00	07	00
01	71	06	05	00	00	00	06	00
01	80	00	00	00	00	00	00	00

STREAM CHARACTER

<u>P</u> Braided	<u>E</u> Gravel	<u>A</u> Boulder >2m
<u>P</u> Riffle	<u>P</u> Sand	<u>P</u> Boulder <2m
<u>P</u> Run/Glide	<u>E</u> Silt/Clay	<u>A</u> Beaver Pond
<u>A</u> Deep Pool(>= .5m)	<u>P</u> Cobble	<u>P</u> Overhead Cover
<u>P</u> Shallow Pool(< .5m)	<u>P</u> Bedrock	<u>P</u> Undercut Bank

A = Absent P = Present E = Extensive

Maximum Depth (cm) 036

<u>05</u>	No. of Instream Woody Debris	<u>111</u>
<u>03</u>	No. of Dewatered Woody Debris	<u>111</u>
<u>03</u>	No. of Instream Rootwads	<u>111</u>
<u>06</u>	No. of Dewatered Rootwads	<u>111</u>

	Wetted Width (m)	Thalweg Depth (cm)	Thalweg Velocity (m/s)
0 m	<u>028</u>	<u>012</u>	<u>017</u>
25 m	<u>024</u>	<u>012</u>	<u>026</u>
50 m	<u>051</u>	<u>011</u>	<u>051</u>
75 m	<u>029</u>	<u>013</u>	<u>035</u>

Alternative Flow Measurements

Distance (cm)	<u> </u>
Depth (cm)	<u> </u>
Width (cm)	<u> </u>
Time (sec)	1. <u> </u>
	2. <u> </u>
	3. <u> </u>

 COMMENTS Embeddedness taken in riffle but remainder of segment heavily silted.

	Watershed Code	Segment	Type	Year
SITE	S.H.E.N	110	N	2013

Reviewer: First BDr / Second CP

Fish Move. During Net Installation?	(Y/N)	Unit <u>0</u>	Unit <u>1</u>	Unit <u> </u>	Unit <u> </u>	Unit <u> </u>
Bottom Visible In all Areas of Seg.?	☒	Anodes/Unit				
Same Water Clarity - 2nd Pass?	☒	Time (sec)				
Length of Seg. Sampled (m)	<u>15</u>	Begin 1 st p.				
		Begin 2 nd p.				
		End 2 nd p.				
Fish Captured?	☒	Volt.				
Gamefish?	☒					

[illegible]

Aggregate Fish Biomass

		1	3	5				4	7	(9)
--	--	---	---	---	--	--	--	---	---	-----

FISH CRIB SHEET

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Watershed Code

Segment

Type

Year

SITE

SHEN

110

N

20~~0~~3

Y Y M M

D D

DATE

~~0~~3

08

26

1st PASS

wt 135.1

2nd PASS

wt 47.0

Species

Tally

Anomalies

Longnose

||||| (37) ✓

River Chub

||| (3) ✓

Whitefish

|| (2) ✓

Yellow Bullhead

1 (1) ✓

Orc vir

||||| XX (58) ✓

Species

Tally

Anomalies

Longnose

||||| (12) ✓

River Chub

1 (1) ✓

Blunt

|| (2) ✓

Yellow Bullhead

1 (1) ✓

Greenish Darter

|| (2) ✓

Orc vir

XX ||||| VVV (59) ✓

MBSS SUMMER INDEX PERIOD DATA SHEET

Page 1 of 5
 SITE Watershed Code ANTI Segment 1101 Type N Year 2013

 Reviewer: First POW / Second JB

 DATE Year 13 Month 08 Day 26
CREW: Morgan, Corbin, Dew, Berlett,
 TIME 0900 (Military)

Perry, Spradlin
 COMMENTS: _____

SAMPLEABILITY

- s = Sampleable
 1 = Dry Streambed
 2 = Too Deep
 3 = Marsh, no defined channel
 4 = Excessive Riparian Vegetation
 5 = Impoundment
 6 = Tidally Influenced
 7 = Permission Denied
 8 = Unsafe (describe in comments)
 9 = Beaver
 10 = Other _____

- ☒ Electrofishing
☒ Habitat
☒ Water Quality
☒ Herpetofauna
☒ Salamanders
☒ Crayfishes
☒ Mussels
☒ Aquatic Plants
☒ Exotic Plants

☐ None Observed

EXOTIC PLANTS

Relative Abundance (P or E)

Species

Tree & heaven ☐ P
Wineberry ☐ P
Multiflora rose ☐ P
Garlic mustard ☐ P
Japanese stilt grass ☐ E
Watercress ☐ P
 _____ ☐
 _____ ☐
 _____ ☐
 _____ ☐
 _____ ☐

WATER QUALITY

 Temp (C) 15.0 pH 8.13 Turbidity (NTU) 0.39

 DO (ppm) 9.9 Cond (mS/cm) 600

 Meter Calibrations by: Perry

 Meter ID: In situ

AQUATIC VEGETATION

(A, P, or E)

Submerged Aquatic Vegetation ☒ AEmergent Aquatic Vegetation ☒ PFloating Aquatic Vegetation ☒ A

(A, P, or E)

Didymo ☒ AVoucher (Y/N) ☐

Number

PHOTODOCUMENTATION

Voucher (Y/N)

323 11:46 downstream ☐ N
322 11:45 upstream ☐ N
324 11:44 discharge measurement ☐ N
325 11:49 MBSS R bank erosion @ 0m ☐ N

TEMPERATURE LOGGERS

COMMENTS: _____

Air Logger Present? (Y/N) ☒ NWater Logger De-watered? (Y/N) ☒ N

Watershed Code Segment Type Year
 SITE ANTI 101 N 2013

First Second
 Reviewer: Bm / JB

☐ None
☒ Observed

STREAM SALAMANDERS

Species	Electrofishing Catch (Total)	General Catch (Total)	Transect Catch (Total)	Number Retained	Number Photos Taken
<u>Northern two-lined Salamander</u>	<u>4</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>

Habitat Types
 Sampled in
 25 m Transect

☒	Mud
☐	Cobble
☐	Boulder
☒	Gravel
☒	Vegetation
☒	Leaf Litter
☐	Woody Debris
☐	Human Refuse
☐	Other _____

☒ None
☒ Observed

OTHER HERPETOFAUNA

Species	Lifestage				Number Retained	Number Photos Taken
	Adult	Juv.	Larval	Egg		
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐

☒ None
☒ Observed

MUSSELS

Species	Live	Dead	Number	
			Retained	Photos Taken
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐

Live Dead None

Corbicula ☐ ☐ ☒

☐ None
☒ Observed

CRAYFISHES

Species	1st Pass Catch (Total)	2nd Pass Catch (Total)	Number Retained
<u>Cambarus carolinensis</u>	<u>6</u>	<u>9</u>	<u>0</u>

Crayfish Burrows ☒
 (Absent, Present, Extensive)

Incidental Catch:

Species None

COMMENTS

Reviewer: BB / JS

[illegible]

	Braided		Gravel		Boulder >2m
	Riffle		Sand		Boulder <2m
	Run/Glide		Silt/Clay		Beaver Pond
	Deep Pool($\geq .5\text{m}$)		Cobble		Overhead Cover
	Shallow Pool($< .5\text{m}$)		Bedrock		Undercut Bank

A = Absent P = Present E = Extensive

04	No. of Instream Woody Debris	116
05	No. of Dewatered Woody Debris	141
04	No. of Instream Rootwads	107
06	No. of Dewatered Rootwads	111

Maximum Depth (cm)	0	3	2
--------------------	---	---	---

	Wetted Width (m)	Thalweg Depth (cm)	Thalweg Velocity (m/s)
0 m	2.2	12	1.5
25 m	2.9	10	2.2
50 m	3.1	10	2.2
75 m	2.7	13	2.2

Alternative Flow Measurements

Distance (cm)			
Depth (cm)			
Width (cm)			
Time (sec)	1.		
	2.		
	3.		

COMMENTS

	Watershed Code				Segment			Type	Year			
SITE	A	N	T	I	1	0	1	N	2	0	1	3

Reviewer: First BSW / Second JB

Fish Move. During Net Installation?		(Y/N)	Unit <u>0</u>	Unit <u>1</u>	Unit <u> </u>	Unit <u> </u>	Unit <u> </u>
Bottom Visible in all Areas of Seg.?		(Y/N)	Anodes/Unit				
Same Water Clarity - 2nd Pass?		(Y/N)	Time (sec)	Begin 1 st p.	Begin 2 nd p.	End 2 nd p.	
Length of Seg. Sampled (m)		<u>75</u>					
Fish Captured?	(Y/N)	(Y/N)	Volt.				
	☒	☒					
SPECIES			1st Pass Catch (Total)	2nd Pass Catch (Total)	Anomalies (Y/N)	Comments	

[illegible]

Aggregate Fish Biomass

		4	9	3				1	5	7	(g)
--	--	---	---	---	--	--	--	---	---	---	-----

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16.9
11-4

Watershed Code Segment Type Year

SITE ANTI 101 N 2003-13

DATE 03 08 26

1 st PASS WH 493

2nd PASS WA. 157

Species	Tally	Anomalies
Black ^{Don}		(27)

Checked
sculpin

XXXX XXXXXXXXXXVVV
||||| ||||| ||||| ||||| ||||| |||||
||||| ||||| ||||| VXXXX
~~|||||~~

242

242

2-line Sally 1 1 (1)

Cambrius 1441 6

Species	Tally	Anomalies
<i>Salmo gairdneri</i>		(10) ✓

Quoted XXXXXX V.V.V.V.
 IIII IIII (100) L

2-100
Sally III (3)

Cambria
C
9