

# ADAMS CHAPTER OF TROUT UNLIMITED



## 16<sup>th</sup> ANNUAL BANQUET AUCTION • RAFFLE



*Saturday, May 12, 2012*

### Thank You

The Adams Chapter enjoys the support of numerous local donors and underwriters. This fund raiser, and the resulting distribution of funds, would not be possible without all of them. Special thanks to all of our banquet sponsors.

And, of course, this would not be possible without you. We wish you an enjoyable evening of free spending and responsible drinking.

### Buckets

You will see that there are many prizes on two tables, each with its own marked ticket bucket.

The red bucket ticket takes a \$10 ticket and the blue a \$5.

These tickets are also sold in "bucket" and "guide" packets. All are available at our ticket sales table. Naturally, the more tickets you put into a bucket the better your chances of winning.

### Enjoy

- Spend confidently, knowing that every dollar spent will fund excellent projects and educational activities, and, we trust that you will honor all of your winning bids.
- **We appreciate you smoking outside and not inside the banquet hall.**

*THE ADAMS CHAPTER OF TROUT UNLIMITED  
IS DEDICATED TO  
PROTECTING OUR COLD WATER RESOURCES.*

We believe that trout and salmon fishing isn't simply fishing for trout and salmon. It's fishing for sport rather than food, where true enjoyment lies in the challenge, the setting, and the battle of wits; not necessarily the full creel. It's the feeling of satisfaction that comes from limiting your take instead of taking your limit. Where a fishing license is a permit to use – not abuse and to enjoy – not destroy, our precious cold water fishery.

It's subscribing to the proposition that what's good for trout and salmon is good for us and that managing those species for themselves rather than for the fisherman is fundamental to the solution of our trout and salmon problems. It's appreciating our fishery resources, respecting fellow anglers and giving serious thought to tomorrow.

We hope you enjoy your evening and continue to help us protect our cold water resources with your generous support.

**Officers**

Jeff Jocks, *president*                      Mark Andres, *vice president*  
Greg Miller, *secretary*                    Bob Jocks, *treasurer*

**Directors**

Gabe Schneider                      Brian Pitser                      Steve Largent  
Dr. Ken Gum                          Mike Dunkley                    Jim Zachow  
Jon Ray                                  Mike Flynn                        Mike Slater

*When I go fishing, I too want to get away from it all,  
But I do not want to have to go too far to find it.... William Humphrey*



**Sponsors for 2012 Conservation Banquet**

- Mayfield Sugar Bush
- Fish Tales, Tom & Susie Wischman
- Bahle's
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- 5 Hour Energy
- Square Deal Country Store
- Casey Smit
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- Alpine Oven
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- Woodland Creek
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- Charlie Weaver
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- Dave Ricardo
- McMillen's Instant Framer, Todd
- Glenn Wolff
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- Stein Decoys
- Sam's Club
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- Captain Quarters
- Rock Wilson
- Kean T Oh

Sponsors for 2012 Conservation Banquet

Merrill Lynch  
Matt Russell  
Nolan's Tobacconist, Mike Nolan  
Dr. Ken Gum and Family  
Streamside Orvis, Dave & Kelly Leonard  
The Northern Angler, Brian Pitser  
Old Ausable Fly Shop  
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Joe Quandt  
Chuck Hawkins Outfitters  
Bob Summers  
Current Works, Ted Kraimer  
Apache Trout Grill  
David Ruimveld  
Greg Miller  
Sharon Largent  
Marilyn Gum  
Jim Newland  
Duon Rose  
Verne Powell  
Becca Schlauff  
Chris Smith  
Yen Yoga  
Right Brain Brewery  
Sweet Pea

G J's, Inc.  
*Brick wheels - Tim Brick*

*Welcome to  
The Adams Chapter's  
16<sup>th</sup> Annual Banquet*

*Dinner CATERED BY KELLY'S ..... 7:00 pm*

*Raffles and auctions throughout the evening*

*Raffles  
Streamside Orvis, \$1000 Shopping Spree  
and  
2 - \$500 Gift Certificates*

*Speaker/Presentation*

*Special Raffles  
Kayak  
Gun*

*Mountain Bike*

*Silent Auctions*

*Bucket Raffles*

*Featured Artist: Becca Schlauff*



## *Welcome to our 16th Annual Conservation Banquet*

- 5:00 Cocktails and Silent Auction
- 7:00 Dinner  
Door Prizes awarded during dinner
- 7:30 Announcements  
President speaks
- 8:00 Silent Auction closes  
Live Auction begins
- 8:30 Live Auction concludes  
Read Silent Auction winners
- 9:00 Drawings begin  
Bucket Tables

## 2012 Chapter Expenditures

This year, the Adams Chapter will award the following grants:

- Boardman River Clean Sweep \$1,000
- Conservation Resource Alliance-  
Tamarack Creek Fish Passage and Restoration \$1,500
- AuSable Institute- Boardman River-  
Insect Data Collection \$2,500  
Above and Below Brown Bridge Dam
- Grand Traverse Academy \$2,500  
Classroom Water Quality Monitoring Equipment  
Half of this grant will come from the Bill Fernandez  
Children's Activity Fund

Total Stream Fund Individual Grants \$7,500

Adams Chapter grants and educational contributions will total \$7,500 for the year 2012. These awards are all made possible by your support of the Chapter at the 2011 fundraising banquet. Thank you for your generosity.

### **Featured Artist Becca Schlaff**

*I graduated from Michigan State University in May 2010 with a BFA in Art Education. Painting was my area of concentration. I am often asked how I got interested in this particular subject. A good friend of mine who is a fly fisherman knew I was an artist, so he told me to take a closer look at fish, and I have been hooked ever since.*

*I find the colors and patterns of fish scales to be so striking, and when combined with looking at them in their environments (like water rushing over their scales or the sun filtering through their fins) I discovered my love of the outdoors was in a way paralleled with acknowledging the natural beauty of fish patterns. If I were a writer maybe I would be able to put into words the way I feel moved by the beauty of nature, but I'm a painter... so my medium of paint allows me to communicate visually my awe of the natural world.*

*Those who fly fish often find the imagery instantly recognizable but even people who do not fish find something spectacular in the work. This is what intrigues me and fuels my interest to paint fish as a subject.*

From her website: [becca-schlaff.com](http://becca-schlaff.com)



## Well-known Michigan wildlife journalist and jazz musician dies with wife in Baldwin house fire

Published: Sunday, March 11, 2012, 12:10 PM Updated: Sunday, March 11, 2012, 2:04 PM



By **Garret Ellison | [gellison@mlive.com](mailto:gellison@mlive.com)**

By

BALDWIN — Well-known northern Michigan wildlife journalist and jazz musician Don Ingle and his wife, Jean, died in a fire at their Lake County home this weekend, according to **local media** reports.

The **Associated Press** reported that a fire broke out at the couple's home at 310 Washington Street in Baldwin about 3 a.m. Friday.

Firefighters, many who knew the Ingles, found the home fully engulfed in flames when they arrived. Investigators believe a wood-burning stove used in lieu of a broken furnace may have started the blaze.

The bodies were found amid the ashes of the destroyed home after the fire.

Don Ingle was editor of **Michigan Forests Magazine** and a **columnist** for various local publications, including the Big Rapids Pioneer. His wife, Jean, worked for Child Protective Services in Lake County.

He studied music and history at Colorado College and Michigan State University. Before becoming an outdoors journalist, Don Ingle was a trombone player in a jazz band called **Sons of Bix**.

He was the son of jazz legend Ernest "Red" Ingle.

Email **Garret Ellison** or follow him on **Twitter**.



[View full size](#)

MLive file photo

Don Ingle, a well-known wildlife writer and photographer, died with his wife, Jean, in a house fire this weekend in Baldwin. Ingle is seen here playing in a jazz ensemble, the Nighthawks, during a free concert at the Whitelake Band Shell in Montague in June 2002.

## 2012 Net Proceeds Worksheet

[May 24, 2012]

### Net Proceeds Overview

Total Receipts [may be minor additional cash not yet reflected]:	\$ 28,376*
Total Expenses [may be minor additional expenses]:	<u>15,043</u>
Net Proceeds before sales tax	\$ <u>13,333</u>
Sales (and Use) Tax [Sales Tax Return filed]	<u>378</u>
Net Proceeds after sales tax	\$ <u>12,955</u>
Net Proceeds after sales tax in 2011	\$ 10,908
Increase in Net Proceeds after sales tax in 2012	\$ <u>2,047</u>

### Source of Receipts

Dinner Ticket Sales (less \$1 for Door Prize) (150 tickets * \$44/ticket)	\$ 6,600
Total Raffle Ticket Sales – from ticket count information	
a. Dinner Ticket \$250 Gift Certificate [150 * \$1]	\$ 150
b. \$1,000 Orvis Gift Certificate Raffle	976
c. 2 – \$500 TNA/Gates Gift Certificate	558
d. Kayak Raffle	456
e. Shotgun Raffle	1,316
f. Bike Raffle	856
g. Summer's Fly Rod Raffle (\$520 - \$100 fly rod tickets)	420
h. \$5 Bucket Raffle	3,029
i. \$10 Bucket Raffle	<u>3,089</u>
Total Raffle Receipts – sales information	\$10,850
Adjustment to reconcile to receipts	<u>(89)</u>
Adjusted Total Raffle Receipts	\$10,761
Silent Auction Receipts	2,065
Live Auction Receipts	5,550
Cash Contributions/Underwriting	<u>3,400*</u>
Total Receipts	<u>\$28,376</u>

\* includes \$250 Merrill Lynch matching grant not yet received

### Breakout of Ticket Sales

Total Raffle Ticket Sales – was determined from ticket count information. 37 Guide Pack were sold and 36 Bucket Packs were sold. Guide Packs gave \$180 of tickets for \$140, so tickets were sold at 140/180 or 77.78% of face value. Bucket Packs gave \$100 of tickets for \$75, so tickets were sold at 75/100 or 75% of face value. So a \$20 sold in the Guide Pack was actually sold for  $\$20 * .7778 = \$15.56$ ; a \$10 ticket was actually sold for \$7.78 and a \$5 ticket was sold for \$3.89. In the Bucket Pack, the \$10 ticket was sold for \$7.50 and the \$5 ticket was sold for \$3.75.

For each type of ticket the Total tickets sold (i.e. counted) is set forth, then the number sold from the Guide Pack [and for \$5 and \$10 Raffle Tickets the amount sold through Bucket Packs] and then the number sold at Full Price. The resulting dollar amount is calculated by multiplying the number of each type of ticket sold by the value of ticket sold. For example, for the \$1,000 Orvis Gift Certificate 37 Guide Pack tickets were sold for \$15.56 each and 20 tickets were sold for the Full Price of \$20. Thus, 37 tickets \* \$15.56/ticket = \$575.72; 20 tickets \* \$20/ticket = \$400. \$575.72 + \$400 = \$975.72.

a. Dinner Ticket - \$250 Gift Certificate [150 * \$1]	\$ 150
b. \$1,000 Orvis Gift Certificate Raffle [57 T: 37 GP; 20 FP]	976
c. 2 – \$500 TNA/Gates Gift Certificate [64 T: 37 GP; 27 FP]	558
d. Kayak Raffle [54 T: 37 GP; 27 FP]	456
e. Shotgun Raffle [74 T: 37 GP; 37 FP]	1,316
f. Bike Raffle [51 T: 37 GP; 14 FP]	856
g. Summer's Fly Rod Raffle (\$520 - \$100 fly rod tickets)	420
h. \$5 Bucket Raffle [778 T: 370 GP; 360 BP; 48 FP]	3,029
i. \$10 Bucket Raffle [395 T: 185 GP; 180 BP; 30 FP]	<u>3,089</u>
Total Raffle Receipts – sales information	\$10,850
Adjustment to reconcile to receipts	<u>(89)</u>
Adjusted Total Raffle Receipts	<u>\$10,761</u>

### Sources of Net Proceeds

<u>Source</u>	<u>\$ received</u>	<u>\$ paid</u>	<u>net \$</u>	<u>Sales/Use tax return</u>
Dinner Ticket Sales	\$ 6,600	\$5,820	\$780	\$6 u
Total Raffle Ticket Sales				
Dinner Ticket	\$ 150	150	0	n/a
\$1,000 Orvis GC	976	600	376	n/a
\$500 TNA/Gates GCs	558	600	(42)	n/a
Kayak Raffle	456	656	(200)	39 u
Shotgun Raffle	1,316	1,100?	216	0
Bike Raffle	856	1,240	(384)	2 u
Summer's Rod Raffle	420	0	420	n/a
\$5 Bucket Raffle	3,029	543	2,486	21 u
\$10 Bucket Raffle	3,089	1,776	1,313	62 u
Raffle License/Tickets	<u>n/a</u>	<u>151</u>	<u>(151)</u>	<u>6 u</u>
Total Raffle Receipts	\$ <u>10,850</u>	<u>\$6,816</u>	<u>\$4,034</u>	<u>136 u</u>
Adjustment	<u>(89)</u>	n/a	(89)	n/a
Adjusted Raffle Receipts	\$ <u>10,761</u>	<u>\$ 6,816</u>	<u>\$ 3,945</u>	<u>\$ 136 u</u>
Silent Auction	2,065	728	1,337	58
Live Auction	5,550	1,675	3,875	184
Cash Contrib./Underwriting	<u>3,400</u>	<u>n/a</u>	<u>3,400</u>	<u>n/a</u>
Totals	<u>\$28,376</u>	<u>\$15,039*</u>	<u>\$13,337*</u>	<u>\$ 378</u>

\* Rounds lead to \$4 too little of expenses and so \$4 too much of net proceeds



### Silent Auction Detail

<u>Source</u>	<u>\$ received</u>	<u>\$ paid</u>	<u>net</u>	<u>Sales tax</u>
Ruimveld Print "the 50 year trout":	\$ 275	\$140	\$135	\$17/[1]
2 Ruimveld tiles (trout/adams fly):	80	55	25	5
Sage 4230 Reel and line:	175	233	(58)	10
Charlie Weaver Float Trip:	300	0	300	n/a
Ted Kramer float trip":	425	0	425	n/a
Sharon Largent Jewelry:	110	0	110	7
Rene Schatzley Gall Jewelry:	250	0	250	15
Brad Petzke Steelhead trip:	300	300	0*	n/a
Jim Newland Net and fly box:	<u>150</u>	<u>0</u>	<u>150</u>	<u>9</u>
<b>Totals:</b>	<b><u>\$2,065</u></b>	<b><u>\$728</u></b>	<b><u>\$1,337</u></b>	<b><u>\$ 63</u></b>
Adjust for sales tax credit for tax paid on items sold				[1]
Adjust for inclusion of sales tax in \$ received number [i.e., do not pay sales tax on sales tax (\$62 * .06 = \$4)]				[4]
Adjusted sales tax number				<u>\$ 58</u>

\* Did make \$125 net proceeds on raffle of trip at general meeting

### Live Auction Details

<u>Source</u>	<u>\$ received</u>	<u>\$ paid</u>	<u>net \$</u>	<u>sales tax</u>
Montana Home on Gallitan:	\$1,600	0	\$ 1,600	n/a
Hand Made Duon Knife:	525	0	525*	32
Greg Miller Float Trip/meal:	350	0	350	n/a
Orvis helios rod/Lg. Arbor III reel/case	800	670	130	48
Winston 3x 8' 4wt.:	575	435	140	35
Nolan's Cigar Humidor/Scotch:	350	132	218	21/[8]
Original Watercolor Chris Smith	400	0	400	24
Becca Schlof fine art/framed	950	238 fr	712	57/[13]
Cost of Live Auctioneer	<u>N/A</u>	<u>200</u>	<u>(200)</u>	<u>n/a</u>
<b>Totals:</b>	<b><u>\$ 5,550</u></b>	<b><u>\$ 1,675</u></b>	<b><u>\$ 3,875</u></b>	<b><u>\$ 217</u></b>
Adjust for sales tax credit for tax paid on items sold				[21]
Adjust for inclusion of sales tax in \$ received number [i.e., do not pay sales tax on sales tax (\$196 * .06 = \$12)]				[12]
Adjusted sales tax number				<u>\$184</u>

\* The net net of \$493 (\$525 - \$32) is earmarked for the BFMCAF.

### \$5 Bucket Raffle Details

<u>Source</u>	<u>\$ received</u>	<u>\$ paid</u>	<u>net \$</u>	<u>sales tax</u>
Glenn Wolf print "A good year" [39]	\$152	0	\$152	0
SS Hip flask; sun glasses [39]	152	\$21	131	1
Tilly Hat; sun glasses [56]	218	0	218	0
Ruimveld Print * "Right Time" [16]	62	\$45/\$15	(2)	3
Casy Smit flies/box/Redington Rod [67]	261	\$14	247	1
Rock Wilson Atlantic Fly [23]	89	0	89	0
Simms Sling Pack [26]	101	45	56	3
Yen Yoga 5 classes/misc stuff [43]	167	0	167	0
2 pillows (moose/dragon fly) [12]	47	53	(6)	3
Sling Pac Camo [12]	47	47	0	3
Framed Rainbow profile/B Schlaff [52]	202	15	187	0
Solitude Toilet bag [21]	82	25	57	2
Bourbon [122]	475	101	374	0
LL Bean 6 wt. [17]	66	0	66	0
San Juan Chest Pack [37]	144	29	115	2
Tumbleweed chest pack [12]	47	39	8	2
Color burst watch [15]	58	23	35	1
LL Bean 5 wt [35]	136	0	136	0
Beretta Shell Bag [42]	164	0	164	0
Right Brain Brewery taste tour (\$75) [22]	86	0	86	0
Pheasant framed print [12]	47	0	47	0
2 - 1 hour horse back rides [10]	39	0	39	0
L L Bean Fly Fishing outfit [32]	125	0	125	0
½ the Cost of boxes and tickets	n/a	71	(71)	0
16 - \$5 tickets in \$10 boxes	<u>62</u>	<u>0</u>	<u>62</u>	<u>0</u>
Totals [778]	<u>\$3,029</u>	<u>\$543</u>	<u>\$2,486</u>	<u>\$21</u>

We counted 762 tickets in the various \$5 Bucket Ticket boxes and we found 16 \$5 tickets in the \$10 boxes. The total of 778 \$5 tickets generated \$3,029 in receipts. Thus, the average \$5 Bucket ticket generated  $\$3,029/778 = \$3.8933$ .

### \$10 Bucket Raffle Details

<u>Source</u>	<u>\$ received</u>	<u>\$ paid</u>	<u>net \$</u>	<u>sales tax</u>
Patagonia Waders [14]	\$109	0	\$109	0
Snow Shoe Net [10]	78	\$59	19	3 u
Center Pin Rod and Reel [25]	196	0	196	0
Ruimveld "Upland Tradition" [17]	133	45/15	73	3 u
Ruimveld "Boardman River" [26]	203	100/15	88	6 u
Fishpond Caron Duffle [9]	70	97	(27)	6 u
B Schlof "Brown Trout Skin" [19]	149	15	134	0
FFO 990-4 rod [7]	55	97	(42)	6 u
Cooler/Umbrella/Tiger stuff [3]	23	0	23	0
Apachee Trout Grill . [22]	172	0	172	0
Battenkill Watch [12]	94	59	35	4 u
FP Yellowstone Wader Bag [50]	391	84	307	5 u
Fishpond briefcase [21]	164	142	22	9 u
Fishpond fly tying bag [13]	102	110	(8)	7 u
Orvis Alum pliers [8]	63	89	(26)	5 u
Hawkins ½ day kids [3]	23	0	23	0
Patagonia carry-on wheeled [11]	86	149	(63)	9 u
Oh Water Color of fish [8]	63	15	48	0
\$250 Old AuSable Gift Certif. [19]	149	150	(1)	0
42" Panasonic TV: [93]	727	464	263	0
½ the cost of boxes and tickets	0	71	(71)	0
5 unallocated \$10 tickets [5]	<u>39</u>	<u>0</u>	<u>39</u>	<u>0</u>
Totals [395]	<u>\$3,089</u>	<u>\$1,776</u>	<u>\$1,313</u>	<u>\$62</u>

We counted 390 tickets in the various \$10 Bucket Ticket boxes and we found 16 \$5 tickets in the \$10 boxes. We also found 5 \$10 Bucket tickets that were not counted in the original box count (they were discovered after their box had had its title removed). The total of 395 \$10 tickets generated \$3,089 in receipts. Thus, the average \$10 Bucket ticket generated  $\$3,089/395 = \$7.82$ .

### List of Cash Contributions/Underwriting

Ken Gum	\$ 500
Julia Fernandez	300
Jen Klabunde	100
David McGreaham	100
Peter Sneed	100
Nancy and Stephen Grand	1,000
Innovative Ventures . LLC	500
Wicksall Distributors, Inc.	100
Corona Resources, LLC	200
Matt Russell	250
Matching Grant from Merrill Lynch	<u>250</u> (not yet received)
Total	\$ <u>3,400</u>

### List of Expenses

A copy of the ledger page listing all expenses is set forth on the following page.

# CASH EXPENDITURES - Banquet 2012 Fiscal Year

DATE	Check #	Payee		Raffle Related	Auction Related	Food/DRINK/VEHICLE	SALES TAX
12 50	1 27	State of WI (Raffle)	50-	50-			N/A
1 57	2 22	Rivers Lodge (Floor)	300-		300- <sup>SA</sup>		N/A
1 59	3 30	Hampshire Inn (Banquet)	400-	400-		See also 2/22/12	
10 60	4 10	Northman Lodge	300-	300-			N/A
20 61	4 10	Grassroots Lodge	300-	300-			N/A
10 64	4 18	Olson, Bedell & Co.	140 <sup>40</sup>			140 <sup>40</sup>	N/A
10 65	4 24	Dan R. Romano's	310-	190-	120 <sup>SA</sup>	150 <sup>SA</sup> (100 - 50)	
20 66	4 24	Rivers Lodge	270-	270-			
20 67	5 5	Stambridge Club	1201-	581-	670 <sup>LA</sup>		
20 68	5 5	Stambridge Club	600-	600-			N/A
20 68	4 17	Rivers Lodge	101 <sup>40</sup>	101 <sup>40</sup>			
20 69	5 7	Rivers Lodge	655 <sup>81</sup>	655 <sup>81</sup>			
20 70	5 7	The Madison Inn	881 <sup>75</sup>	881 <sup>75</sup>	288 <sup>SA</sup>		
20 71	5 7	The Madison Inn	300-	150-		150 <sup>SA</sup>	
20 72	5 7	Grassroots Lodge	435-	435-			
20 74	5 10	Mark Andrus	237 <sup>91</sup>	237 <sup>91</sup>			
20 75	5 12	Mark Andrus	943 <sup>03</sup>	464 <sup>23 74</sup> 100 <sup>40</sup> (Raffles) 22 <sup>81</sup> (MTRs) 118 <sup>01</sup> (Banks) 89 <sup>75</sup> (K.C.)	132 <sup>91</sup> (Spots) 14 <sup>91</sup> (K.C.)		
20 76	5 12	Wayne Bancroft	200-		200-		
20 77	5 12	Catering By Kelly's	5533 <sup>20</sup>			5533 <sup>20</sup>	
20 81	5 14	Jeff - Name Tags	38 <sup>43</sup>	Jeff's last check used to pay Trophy Trophy Inc		38 <sup>43</sup>	
20 80	5 14	Revolution Inn - Program	109-			109-	
20 82	5 14	Black Wheel	1212 <sup>20</sup>	1212 <sup>20</sup>	ck made to R. G. via paypal w/ 10% c.c.		
	5 20	Gun (EST.)	700	700-			
			15040 <sup>69</sup>				
			015 <sup>49</sup>			5971 <sup>03</sup>	
		<b>OTHER - 100% BY CHANGES</b>					
20 78	5 14	Payroll # to BGS	750-	750-			
20 79	5 15	State of WI	1500-	1500-			
			378 <sup>19</sup>				



## Boardman Data

**Steve Largent** <slargent@gtcd.org>

Wed, Oct 31, 2012 at 7:16 PM

To: Jeff Jocks <jeff@envlaw.com>, "James Alan Zachow (Zach)" <zach@whitefordassociates.com>, "Gabriel T.S. Schneider" <gabe.schneider@gmail.com>, Ken Gum <kengumtrout@gmail.com>

Cc: Mike & Cheryl Flynn <mflynnc1@chartermi.net>, The Northern Angler <flyshop@thenorthernangler.com>, Mike Slater <slatemiw@yahoo.com>, Mike Dunkley <dunkjr@hotmail.com>, Mark Andres <markandres883@gmail.com>, Jon Ray <jray@hawkinsflyfishing.com>, Greg Miller <gmiller122@torchlake.com>, Bob Jocks <rjocks@juno.com>, Bryan Burroughs <bryanburroughs@michigantu.org>, matt@rivercare.org

Sorry for the delay....end of month grant reports were my priority. I was not able to pull together all the requested data.

Here's a brief synopsis of what I'm aware is currently being done:

WSC/GTB/GTCD – 2011 to current. Established permanent cross-sections one above Brown Bridge just above the confluence with Grasshopper Creek and one below Brown Bridge approximately 200' upstream from Brown Bridge Road. Originally data was being collected before and during rain events, spring runoff, and summer base flow. Since August shifted to collecting weekly stream morphology and velocity measurements. This will be done through the end of the calendar year. Water samples are also being taken at the same time where total suspended sediments, total phosphorus, and nitrates are analyzed. We just started collecting turbidity level readings last week at several locations in the river downstream of Brown Bridge.

GTB – 2012 Longitudinal Profile from Grasshopper Creek through former impoundment. Then from the dam to approximately ½ mile below Whispering Water Bed & Breakfast.

GTCD - HOBO temperature loggers installed at 7 locations along river system recording temperature 24/7

AuSable Institute – 2007 – Present. Lone Pine/Boardman Pond – macroinvertebrate sampling to the lowest practical taxonomic level. Data analyzed using Simpson's Index of Diversity and Sorensen's Quotient of Similarity. Control site: Shumsky Public Access.

AuSable Institute – 2011 – Brown Bridge – macroinvertebrate sampling at three riffle sites at one below and two above the dam. In 2012 a second site was added below the dam.

DNR – Fish surveys –Ranch Rudolf, below Brown Bridge Dam, Shumsky & Beitner. Not sure of frequency. They have the fish kill information from AMEC but have not shared this information yet.

AMEC – Fish kill information; Sediment assessment post breach – not sharing data yet.

MDEQ – Procedure 51 at two locations downstream immediately after breach.

I know the US Army Corps of Engineers completed a full geomorphic assessment and hydrographic analysis. They currently have flow and sediment transport model calibrated at baseflow conditions. They need more information on sediment levels during various flow/discharge events. Need to check with them on any other data that they may have available.

I also know that Dr. Daniel Hayes has collected a great deal of data over the years as well.

**From:** Jeff Jocks [mailto:jeff@envlaw.com]  
**Sent:** Wednesday, October 31, 2012 2:38 PM  
**To:** Steve Largent; James Alan Zachow (Zach); Gabriel T.S. Schneider; Ken Gum  
**Cc:** Steve Largent; Mike & Cheryl Flynn; The Northern Angler; Mike Slater; Mike Dunkley; Mark Andres; Jon Ray; Greg Miller; Bob Jocks; Bryan Burroughs; matt@rivercare.org  
**Subject:** RE: Boardman Data

Steve --

This is a reminder of the request to provide this information for us for tomorrow. If we have this we can have a real substantive discussion about what is happening and what we need to do.

Jeff

**From:** Steve Largent [mailto:slargent@gtcd.org]  
**Sent:** Thursday, October 25, 2012 3:36 PM  
**To:** Jeff Jocks; James Alan Zachow (Zach); Gabriel T.S. Schneider; Ken Gum  
**Cc:** Steve Largent; Mike & Cheryl Flynn; The Northern Angler; Mike Slater; Mike Dunkley; Mark Andres; Jon Ray; Greg Miller; Bob Jocks; Bryan Burroughs; matt@rivercare.org  
**Subject:** RE: Boardman Data

I'll see what I can compile before next Thursday's meeting. S.

**From:** Jeff Jocks [mailto:jeff@envlaw.com]  
**Sent:** Thursday, October 25, 2012 1:58 PM  
**To:** James Alan Zachow (Zach); Gabriel T.S. Schneider; Ken Gum  
**Cc:** Steve Largent; Steve Largent; Mike & Cheryl Flynn; The Northern Angler; Mike Slater; Mike Dunkley; Mark Andres; Jon Ray; Greg Miller; Bob Jocks; Bryan Burroughs (bryanburroughs@michigantu.org); matt@rivercare.org  
**Subject:** Boardman Data

Steve-

In light of the discussion last night and the desire to avoid duplicative work, please send all of us the following:

- 1- a list and explanation of the work that is currently being done and that is planned from Brown Bridge Dam down to Boardman Dam as it relates in any way to studying impacts
- 2- all of the data collected so far from this work (included, but not limited would be the stuff you discussed last night concerning the work that someone has done measuring sediment depth downstream from the dam; the data from whoever collected and tested water samples for dissolved oxygen, nitrogen, and presumably other things; and all fish data)

This information will of course help us make a fully informed decision next week when we meet. If you do not have this information in your possession, please make all appropriate inquires to the necessary members of the IT so that we may have the data. I'm sure they would be more than happy to share it.



## **PROPOSED BOARDMAN RIVER IMPACT ASSESSMENT BELOW BROWN BRIDGE**

**October 22, 2012**

Prepared by Dr. Mark Luttenton

### **INTRODUCTION**

An extensive planning process was undertaken to determine the feasibility of removing dams on the Boardman River. It was determined that removal of some dams was feasible and removal of the Brown Bridge Dam was initiated. Subsequently, the process to removing the Brown Bridge Dam has resulted in a large scale and rapid draw-down of the impoundment. Due to the accumulation of sediments within the impoundment, a significant quantity of sediment is likely to have been discharged into the downstream channel. I conducted a visual assessment of the Boardman River on October 20, and noted that the river was carrying a substantial volume of suspended sediment from just below Brown Bridge Dam to Beitner Road. Immediately below Brown Bridge Rd., it is evident that a large amount of gravel/cobble had been displaced and large volumes of sand have been deposited within the channel.

A flow event of this magnitude is very likely to have significantly altered the existing habitat. Because habitat plays a central role in the health of a cold water stream, it is critical to evaluate changes in habitat when assessing the impacts of a major flow event. Fortunately, fisheries habitat within this stream segment was assessed during the feasibility study (ECT 2009) providing a baseline. Evaluating the magnitude of habitat change, particularly the addition of sand to the channel, will help determine the potential long-term impacts and the feasibility of restoration. The loss of spawning habitat due to the accumulation of sand is a significant issue in numerous river systems.

A second impact that may be associated with an event of this magnitude is the loss of the aquatic invertebrate community. For example, substrate oriented aquatic invertebrates are sensitive to flow events that are large enough to move substrate. In addition, large volumes of sand and fine sediment will clog nets of filter feeding invertebrates and physically damage soft tissues such as gills. Sand will also fill the pore space between larger substrate, reducing the amount of habitat available to invertebrates.

### **PROPOSAL**

To better understand the magnitude of the flow event due to failure of the Brown Bridge Dam, it is critical to conduct an assessment to determine the broader and possibly long-term impacts. Thus, I propose to replicate the habitat assessment conducted in Segment 6 (Brown Bridge Dam) by ECT (2009). This will provide a direct before-after comparison. The habitat assessment will require two days of effort by two individuals. The habitat assessment would utilize the same protocols outlined in the ECT Report (2009).

I also propose to conduct an assessment of the aquatic invertebrate communities. A previous study conducted by Lessard and Hayes (2003) provides a general benchmark for comparison. Aquatic invertebrate samples would be collected from a site immediately upstream of the impoundments historic location. Additional samples would be collected from immediately below Brown Bridge Dam, and at two additional sites down stream. All invertebrates would be removed and preserved from three, Hess sample collected at each site (12 samples total). Using a Hess sampler provides a quantitative estimate of the invertebrate community and was the method used by Lessard and Hayes (2003). The invertebrates would be returned to the lab for taxonomic identification and enumeration. Collecting samples would require one day of work for two people. Taxonomic identification and enumeration would require one person 10 weeks (includes picking the invertebrates from the inorganic material, identification, and enumeration).

## **COST**

### Habitat Assessment:

Two individuals

Hotel - 2 nights x 2 rooms x \$100/room = \$400

Meals - 2 ind. X \$39/day/ind X 2 days = \$156

### Invertebrate Assessment:

Sampling

Two individuals

Meals - 2 ind. X \$39 X 1 day = \$78

Sample processing

One individual - \$9/hour/400 hours + 0.85% fringe = \$3906

Total Mileage - 400 miles X \$0.55/mile = \$200

**TOTAL** = \$4740



## Brown Bridge Update

**Steve Largent** <slargent@gtcd.org>  
To: Steve Largent <slargent@gtcd.org>  
Bcc: kengumtrout@gmail.com

Thu, Nov 1, 2012 at 10:34 AM

Thursday (11/1/12) – **Next Thursday, November 8th, at 6:00 pm (Civic Center)** the Boardman River Dams Project Implementation Team is holding an **informational meeting** regarding the dam removal project and the October 6 incident at Brown Bridge Dam. The meeting will include a project update, information on issues related to the Brown Bridge Dam incident, and an opportunity for the public to ask questions.

Over the past couple weeks since the last update Molon has continued to work in the upper end of the project area cleaning out sand traps, excavating the floodplain, and shaping spoil areas according to the original work plan. At the dam AMEC and Molon received work plan approval from the MDEQ to divert the river flow into the Temporary Dewatering Structure (TDS) and continue demolition of the remaining lower concrete structure of the dam. This work began this week and expect take approximately two weeks to complete.

Biologists from the MDNR, Grand Traverse Band, and GTCD along with Adams Chapter of Trout Unlimited volunteers conducted a "Presence/Absence" fish survey in the river at two locations below Brown Bridge dam where the MDNR had previous population data. A population survey wasn't possible at this time because of the turbid (cloudy) water. The first survey took place approximately 150' downstream of Brown Bridge Road in an area that received the brunt of the breach. Seventy five fish representing 13 different species were captured and released in a 500 foot stretch. This included 12 brown trout and one brook trout. The second survey took place downstream at Beitner Landing just upstream from Beitner Road. Biologists surveyed a 250 foot section along the east bank where they captured and released 28 fish in less than 15 minutes of surveying. Of these 26 were trout including a 20" brown trout in full spawning color.

Harriet Gruber, who has a cabin in the impacted area, reported seeing a fish jump in front of her cabin last weekend. David McCool also reported seeing three brook trout "redds." Redds are nests of spawning trout.

Project staff continues to collect weekly cross-section and other data including turbidity readings using a Secchi Disc, a tool commonly used to measure the clarity of lake water, which in this case has been modified for river monitoring.

As always please let me know if you have any questions. S.

**Steve Largent**  
Boardman River Program Coordinator  
Grand Traverse Conservation District

1450 Cass Rd., Traverse City, MI 49685

231.883.9960

231.941.0960 Ext - 16

[www.natureiscalling.org](http://www.natureiscalling.org)

**7 attachments**



**Biologists are collecting data weekly to determine the impact of the breach on the river below the dam.jpg**  
229K



**Biologists from the MDNR & GT Band assisted by TU volunteers conduct a fish survey below Brown Bridge Road. Over a dozen trout were captured and released..jpg**  
195K



**MDNR Fisheries Biologist Mark Tennelo holds a 20 inch brown trout captured and released upstream of Beitner..jpg**  
174K



**Molon workers isolate the concrete structure preparing the area for removal.jpg**  
166K



**Oak tops are used to protect the new river bank and provide fish habitat.jpg**  
223K



**Steve Rouse & Chris Garrock collect weekly cross-section and flow data.jpg**  
220K



**Sunrise over the new river from the west overlook.jpg**  
104K



## **BROWN BRIDGE DAM REMOVAL OCTOBER 6 INCIDENT PROJECT TEAM SUMMARY**

### **THE BOARDMAN RIVER DAMS PROJECT**

The Boardman River Dams Implementation Team (IT) is coordinating The Boardman River Dams Project (BRDP), a dam removal and river restoration initiative in the Boardman River watershed. Through the removal of Brown Bridge, Boardman, and Sabin Dams, and modification of Union Street Dam, the Boardman River will be restored to a more natural flowing, coldwater stream.

The IT is comprised of primary representatives from Grand Traverse Band of Ottawa and Chippewa Indians (GTB), MI Hydro Relicensing Coalition, the US Fish and Wildlife Service, Grand Traverse County, the City of Traverse City (City), Traverse City Light & Power, Michigan Department of Environmental Quality (DEQ), and Michigan Department of Natural Resources (DNR). The IT also includes the following ex-officio members: Conservation Resource Alliance, Watershed Center Grand Traverse Bay, Grand Traverse Conservation District, Rotary Camps & Services, Garfield Township, and Grand Traverse County Road Commission (GTRC).

### **BROWN BRIDGE DAM REMOVAL**

The first stage of this restoration project involves the removal of Brown Bridge Dam, which is owned by the City. The IT has contracted with AMEC Environment and Infrastructure Inc. (AMEC) to provide construction services for the Brown Bridge Dam removal project, and AMEC has a project team that includes Molon Excavating, Inc. (Molon) and other technical and construction experts. After a thorough review of design and engineering plans, and an environmental assessment, DEQ approved a permit for the removal of the dam. Work at the project site commenced in July 2012.

The dam removal process necessitates a final drawdown of Brown Bridge Pond to a level that would allow for deconstruction of the dam. This drawdown was planned and approved at a maximum rate of 12-inches per day, through a device that is known as a Temporary Dewatering Structure (TDS). At the time final drawdown was initiated, the Brown Bridge Pond water level was approximately 20 feet higher than the water level of the Boardman River downstream of the dam. Final drawdown was planned to reduce the pond water level to approximately 2 feet higher than the Boardman River water level over the course of 18-20 days.

### **BROWN BRIDGE INCIDENT SUMMARY**

***Saturday, October 6, 2012***

At approximately 10:00 AM, AMEC and Molon initiated the process for the final drawdown of Brown Bridge Pond. The TDS was engaged to allow water into the structure.

- At approximately 10:10 AM an estimated 3-foot drop in water level was observed upstream of the structure.
- Within an estimated 10 minutes, up-flow of water was observed within the TDS.

- Water was observed coming in from the south side of the dewatering structure at the northeast corner of the dam at an uncontrolled rate.
- A sinkhole then formed adjacent to the structure.
- At around 10:20 AM, 911/Emergency Management (EM) was notified. Safety of the project crew and downstream residents was the primary concern.
- Erosion increased at and around the inlet of the structure, increasing flow downstream.
- At around 11:00 AM, the emergency response team arrived on site. A voluntary State of Emergency was issued. Bridge/road crossings were closed at Garfield and River Roads.
- Construction crews continued to fight erosion on both the north and south sides of the embankments adjacent to the TDS. Within 30 minutes, additional equipment and large volumes of concrete were mobilized to the site and placed in areas where erosion was occurring in an effort to maintain the structural integrity of the TDS and minimize the flow as much as possible.
- At around 11:45 AM, EM issued a mandatory evacuation for the area downstream of the dam to Keystone Road.
- Work crews continued to place concrete slabs and pieces to control flow.
- Around 3:30 PM, the north bank was stabilized and tail water receded at Brown Bridge Road. Crews continued to bring in concrete.
- Around 4:30 PM, the mandatory evacuation was lifted. Grand Traverse County Road Commission (GTRC) requested bridge inspections prior to reopening roads.
- Around 5:30 PM, a temporary water control structure was constructed east of the dam. Access roads to the site were reopened.
- At around 7 PM, the site was secured and the flow of water below the dam structure returned to a normal level.
- AMEC staff met with GTRC to discuss a requirement to inspect downstream bridges.
- Work crews and stakeholders monitored the construction area and road crossings overnight to keep the area secure.

## **IMMEDIATE RESPONSE ACTIVITIES**

***Sunday, October 7, 2012***

AMEC's project team worked with local authorities and stakeholders to implement immediate response activities. These included the following:

- A flood hotline was put in place with the Grand Traverse County Health Department for assistance with water damage mitigation and cleanup for those properties impacted downstream of the dam.
- The project team contacted homeowners that had called the hotline number to identify the impacts on their property.
- The project team was proactive in assessing damage, ensuring safety and contacting affected residents, including going door-to-door.
- The three dams located downstream of the dam were monitored which included the removal of debris as necessary.
- The project team and stakeholders cleared debris located downstream of the dam both in the river and at the major road crossings.
- A pre-qualified MDOT bridge inspection team began inspection of the bridges and road crossings downstream of the dam. Following satisfactory inspection results, all county roads were reopened on Sunday by 5:00 PM.

- The project team continued collaboration with EMS to identify impacted residential properties including loss of properties and docks.
- Inspection of private bridges began downstream of the dam for impacts and required repairs.
- Project stakeholders conducted a fish kill evaluation downstream of the dam and returned displaced fish to the river.
- Water levels upstream and downstream of the dam continued to be monitored and recorded.

## **ONGOING ASSESSMENT**

The project team, regulatory agencies and stakeholders are implementing plans to assess personal and public property and environmental impacts of the abrupt release of water on October 6. The information gathered through these assessments will inform potential restoration actions. The primary assessment categories are:

- Assessment and restoration of downstream properties
- Assessment of the TDS in collaboration with the DEQ Dam Safety Division
- Downstream assessment of Boardman River
- Upstream assessment of ongoing restoration activities

### **Assessment and Restoration of Downstream Properties**

The Emergency Management Coordinator (EMC), in conjunction with the Grand Traverse County Health Department, continues to receive names, addresses and telephone numbers of residents located downstream of the dam that have been impacted. The EMC is providing this contact information on a daily basis to AMEC. AMEC and Molon are working in collaboration to contact each individual property owner to assess both the short-term and long-term needs of each impacted property owner.

AMEC and MOLON have both retained contractors to provide assistance to the downstream impacted property owners. Assistance being provided includes, but is not limited to, damage assessment and mitigation, and debris removal. Hotel accommodations were provided to some property owners. The project team has visited over 130 residences door to door and assisted over 30 residents to date that have notified the hotline established by the Emergency Management Coordinator.

The project team is developing a database system to track and record the list of impacted properties and monitor restoration activities.

### **Assessment of Temporary Dewatering Structure**

Safety and stability of the existing TDS is of utmost importance and DEQ has approved the project team to stabilize the structure.

### **Downstream Assessment of Boardman River**

The project team and various regulatory agencies are in the process of surveying the river downstream of the dam to assess potential impacts and inform any potential restoration



activities. Surveys began on October 7 and continue through the week. Biological and physical surveys to assess wildlife impacts, sediment transport, and habitat impacts are being conducted by GTB, DEQ, DNR, and AMEC. Chemical surveys to assess water quality are being conducted by DEQ. The IT will track these assessment activities and provide public updates of their findings when they are reported from the agencies conducting the surveys.

### **Upstream Assessment of On-going Restoration Activities**

The project team is continuing to work up-gradient of the dam to continue planned restoration activities as approved by the DEQ. These activities include construction of the floodplain along the newly constructed river channel as well as maintenance of three sediment traps that are in place as part of the original design to control downstream migration of sediment during construction activities.

In addition, AMEC, Molon and project stakeholders continue to document, monitor and respond to fish and wildlife species displaced in the former pond by the drawdown. Displaced fish and wildlife such as turtles are relocated to appropriate locations.

### **INCIDENT INVESTIGATION**

The project team is finalizing a plan for DEQ review and approval that will guide the continuing investigation into the cause of the release of water at Brown Bridge Dam. This plan will identify the process for temporary water level controls that will allow for inspection, data collection, and documentation of damaged conditions. The plan will include further dam removal work that will be required to complete the investigation. The plan is necessary because some of the suspect areas where the release of water occurred are still underwater and must be dewatered before the investigation can continue. The project team anticipates providing the DEQ with the initial plan by the end of the week.

It is anticipated that the assessment will be conducted in a phased approach and will not be completed until the powerhouse is removed and the river channel constructed in the location of the former powerhouse. Currently, the project team is assessing the portions of the TDS that can be observed at grade level.

### **COMMUNICATION**

The project team worked closely with EM and the media throughout the course of the incident to release timely and accurate information. The project team remains committed to providing ongoing, updated information to the public. There are diverse experts collecting and analyzing information on this incident and its impacts, and we remain diligent in collating and disseminating information as it becomes available. Updated information can be found at **theboardman.org**, and we will provide regular updates and press releases to the public. Questions and comments can be directed to [info@theboardman.org](mailto:info@theboardman.org).



## Boardman Data

**Bryan Burroughs** <bryanburroughs@michigantu.org>

Fri, Oct 26, 2012 at 2:05 PM

To: Ken Gum <kengumtrout@gmail.com>, "Gabriel T.S. Schneider" <gabe.schneider@gmail.com>

Cc: Jeff Jocks <jeff@envlaw.com>, "James Alan Zachow (Zach)" <zach@whitefordassociates.com>, Steve Largent <slargent@gtcd.org>, Steve Largent <boardmanriverkeeper@gmail.com>, Mike & Cheryl Flynn <mflynnc1@chartermi.net>, The Northern Angler <flyshop@thenorthernangler.com>, Mike Slater <slatemw@yahoo.com>, Mike Dunkley <dunkjr@hotmail.com>, Mark Andres <markandres883@gmail.com>, Jon Ray <jray@hawkinsflyfishing.com>, Greg Miller <gmiller122@torchlake.com>, Bob Jocks <rjocks@juno.com>, matt@rivercare.org

Adams Chapter,

I'm fine with whatever process you desire to follow. I can make myself be available on Friday.

Data collection needs and coordination of them really shouldn't be overly complicated whatsoever. It really simply amounts to knowing 1) what data needs to be collected to understand the condition of the river given the incident that occurred, 2) knowing what data is being collected by other parties, and 3) knowing what the essential gaps are. We've now asked Steve Largent to provide a list of the data pieces that have been or are planned for collection by other parties – both IT related and other. If the IT is organized and coordinated on this front – then they should be able to simply provide a written list of the data collected or planned for collection and by whom (and when). If for some reason they do not have this, than it is fine that we need to meet with them to verbally acquire this information. Its not important how we get this data – as long as we get it. Again – we can acquire this either through a written list from Steve, through an IT member attending our meeting, or by attending their meeting. Of course though, time is money, so the simplest method is the most efficient. We all agree duplication isn't wise, so we also don't need to get this basic information in writing, from someone attending the meeting, and then also by attending another meeting. Likewise, if Dave Mahan can attend the meeting, again that is fine. If however, its more convenient for him to simply send an email summary of what he is gathering – that is likely all we need as well. Or he could call me to discuss it in detail. I'll describe and illustrate to you what others may be collecting, and what it provides for information, then we can discuss what is needed, and where the gaps are. When we decide what needs to be collected to provide a reasonably complete understanding of what occurred, then we can communicate our plans to fill those gaps back to the IT and others involved.

TU has a seat at the IT "table". We are steering committee members of the MHRC, which has been part of the IT since its inception, and continues to be. If the chapter wishes to be more tightly involved in that process, it can work to coordinate that through the MHRC's employee representative Jim Schramm. I believe many of you know Jim and have access to him already, but if I can help coordinate communications with him – don't hesitate to ask me, I'd be glad to, and he always invites additional

engagement/participation from members of the MHRC.

To date, I am personally aware of only the following types of data being collected:

- 1) DEQ collecting some procedure 51 sampling for aquatic insects. I am unaware as to the extent and distribution of these samples. As Dave Mahan I believed mentioned, these are useful, but not very quantitative. I'm unaware of results from this sampling or the locations where they were taken.
- 2) I've heard that the GTB, via Brett Fessell, may have or be planning to conduct longitudinal elevation surveying downstream of the dam. This will be very useful for understanding the depth of sediment deposition, and quantifying coarser sediment volumes transported from the incident. This is very useful information. It does not provide a complete picture, but is very very useful. I have not confirmed that they are doing this, and to what extent downstream of the dam they plan to do it.
- 3) DNR Fish Division is still deciding the protocol and extent of fish sampling to do. In order to gain insight into the extent of fish kill that might have been caused, they ought to perform a full population estimate at the established sites a) below brown bridge road, and then b) either the Beitner Rd site or the Shumsky's site. They should follow the standard mark-recapture procedures they have used at these sites in the past to allow comparability. These surveys will facilitate an estimate of fish density change now compared to past surveys. These would be used to indicate severity of fish kill immediately downstream, and then far downstream. This severity of fish density change estimate would then be interpolated between the sites, and used with average past fish density estimates to produce an estimate of the number of fish predicted to have been killed. I'll be glad to explain fish sampling protocols and their pros/cons in more detail at our meeting. I do believe its essential to collect this information. I anticipate the DNR will feel the same, and suspect we will be able to coordinate with them to get it done. If however, they decide not to do these – I believe the chapter should see them done if it hopes to understand what level of fishkill might have occurred.
- 4) I've heard that a count of dead fish observed has been provided. This is useful, but has great limitations to understanding the severity of a possible fish kill. It is next to impossible to estimate what percent of total dead fish of any given species were able to be observed, and where they came from. For example, in conducting a fish survey with electrofishing equipment, its common to observe only around 50% of the fish present on any pass through a section of stream. Population estimate methods rely on measuring this "observation efficiency" also called "catchability" or "gear efficiency". Depletion methods do it one way, mark recapture methods predict it another. Visual observations of dead fish do not afford the opportunity to relate the quantity observed to the total number that might have been dead but unobserved. So its useful information, but not adequate by itself to give any indication of the severity of fishkill
- 5) I understand Dave Mahan is collecting aquatic invertebrate data that is more extensive and quantitative than the procedure 51 protocol from the DEQ. We should indeed get the details from his work to understand the method and extent of his work. Its likely he may have that aspect well covered. I can explain the use and utility of aquatic insect data in light of this incident at our meeting as well if desired.

Currently, I am unaware of any group or agency that plan to conduct a full habitat census similar to what was done in early 2007. No agency has that type of habitat data collection as a standard protocol. We are

fortunate that the boardman dams process was extensive enough in the past to have collected it. It can provide a very full picture as to the nature and extent of habitat changes that might have occurred from the incident. It will provide us that understanding, as well as a roadmap to how to address these possible changes moving forward. I'll plan to explain the nature of that assessment at our meeting.

As the chapter decides how it would like to proceed acquiring the information mentioned – please just let me know the final decision on when and where I should meet you.

Thank you,

Bryan

Bryan Burroughs, Ph.D.

Executive Director

Michigan Trout Unlimited

P.O. Box 442, Dewitt, MI 48820

[www.michigantu.org](http://www.michigantu.org)

517-599-5238

**From:** Ken Gum [mailto:kengumtrout@gmail.com]

**Sent:** Friday, October 26, 2012 11:56 AM

**To:** Gabriel T.S. Schneider

**Cc:** Jeff Jocks; James Alan Zachow (Zach); Steve Largent; Steve Largent; Mike & Cheryl Flynn; The Northern Angler; Mike Slater; Mike Dunkley; Mark Andres; Jon Ray; Greg Miller; Bob Jocks; Bryan Burroughs (bryanburroughs@michigantu.org); matt@rivercare.org

**Subject:** Re: Boardman Data

Touche Gabe. I tried to make that point at the meeting the other night but wasn't sure the message got through. Our chapter needs a place at the table in all of this and can help take the lead regarding our mission.

Ken

Adams Chapter IT In-service

Mail Chimp

Website: www.mailchimp.com

User Name: TUadams

Password: Trout1

- Jen Klabende

Mike Slater - 360 0797

Adams Chapter Website

Website: www.adamschaptertu.com/websitemanager

User name: admin@adamschaptertu.com

Password: Trout1

Document gallery  
download newsletter - highlight words for link  
click on hyperlink  
go to my documents  
newsletter  
save

- C 4

Call Slater  
Board mtg Nov. 27th  
? Apache

Amy Reichard

10/27

Elections - up - Greg - re-up, vs secretary  
Jack Murray - replaced (? Zach)  
Tom Wilcox - re-up  
Jon Fay - ? abdicate

Candidates - Mike Dunkley (workshop)  
Zach - no more secretary (OK for director) ? Greg  
Bob Jaks - re-up treasurer

Newsletter -

Individual mailing late Feb. for banquet  
include other chapter officers, legislators

Calendar Dec - 7 Integ - Confina  
Dam Randall presentation by  
Steve Langford & commentary by  
Bryan Burrows  
Jerry Dennis

Jan 25 } Union  
Feb 22 } Cantina

March 28th

March 23-25  
Traverse City  
Hunting & Fishing  
EXPO!  
Grand Traverse  
Civic Center

Hold on banquet date - TBD

Sat  
? May 12<sup>th</sup> or 19<sup>th</sup>

CCC ? 27<sup>th</sup> June Wed

RR ? 22 Aug Wed.

