

22796 County Highway 6 • Detroit Lakes, MN 56501-7002 • 218-846-1465 Phone and Fax • rmbel@rmbel.info • www.rmbel.info Certification/Accreditation Numbers: Minnesota Department of Health # 027-005-336 • North Dakota Department of Health # R187

Laboratory Results

Report To: LMKP LID

Box 133

October 15, 2012 Original Report

Perham, MN 56573

Bill To: LMKP LID

Box 133

Perham, MN 56573

Project:

Page 1 of 4

AIS monitoring

Lab Code:

182600

Matrix:

Surface Water Composite

Collection: Samplers:

Jake Anderson, Chris Larson

Date/Time Sampled:
Date/Time Received:

08/29/12 0955 08/29/12 1330

Sample Description:

Rusche 56-1641 composite of 2 sites

Laboratory: RMB Environmental Laboratories, Inc.

Contact/Phone: Robert Borash, 218-846-1465 Sample Receipt: Samples meet proper sampling and

transportation guidelines

Compound	Analysis Method	Analysis Date			MDL	RL	Sample Result			
Miscellanious Analyses Spiny water fleas Zebra Mussel Veligers	Microscopy Microscopy	9/25/2012 9/25/2012		1	1	1 1	Absent Present	#/100 ml #/100 ml		

Comments:

Sample preserved with 70% ethanol

DF = Dilution Factor

RL = Reporting limit of the analysis method.

MDL = Minimum detection limit of the analysis method.

Anne Mour

Report approved by:

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory:

Contact/Phone:

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Box 133

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Robert Borash, 218-846-1465

transportation guidelines

RMB Environmental Laboratories, Inc.

Project:

Page 2 of 4

AIS monitoring

Lab Code:

182601

Matrix:

Surface Water

Collection:

Composite

Samplers:

Jake Anderson, Chris Larson

Date/Time Sampled:

08/29/12 1025 08/29/12 1330

Date/Time Received: Sample Description:

Paul 56-0335 composite of 2 sites

Compound	Analysis Method	Analysis Date	Analysis Time	DF	MDL	RL	Sample Result	
Miscellanious Analyses								
Spiny water fleas	Microscopy	9/25/2012		1	1	1	Absent #/100 m	าไ
Zebra Mussel Veligers	Microscopy	9/25/2012		1	1	1	Present #/100 m	าใ

Comments:

Sample preserved with 70% ethanol

DF = Dilution Factor

RL = Reporting limit of the analysis method.

MDL = Minimum detection limit of the analysis method.

Report approved by: Mina / Waller The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Laboratory:

Contact/Phone:

Laboratory Results

Report To: LMKP LID

October 15, 2012

Original Report

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Box 133

Perham, MN 56573

Bill To: LMKP LID

Sample Receipt: Samples meet proper sampling and

Box 133

Perham, MN 56573

Robert Borash, 218-846-1465

transportation guidelines

RMB Environmental Laboratories, Inc.

Project:

AIS monitoring

Lab Code:

182602

Matrix: Collection: Surface Water Composite

Samplers:

Jake Anderson, Chris Larson

Date/Time Sampled:

08/29/12 1055

Date/Time Received: **Sample Description:**

08/29/12 1330

Little McDonald 56-0328 composite of 3 sites

Compound	Analysis Method	Analysis Date	Analysis Time	DF	MDL	RL	Sample Result			
Miscellanious Analyses Spiny water fleas Zebra Mussel Veligers	Microscopy Microscopy	9/25/2012 9/25/2012		1 1	1	1 1	Absent #/100 ml Absent #/100 ml			

Sample preserved with 70% ethanol Comments:

DF = Dilution Factor

RL = Reporting limit of the analysis method.

MDL = Minimum detection limit of the analysis method.

fund chaur Report approved by:

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Laboratory Results

October 15, 2012

Original Report

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Box 133

Perham, MN 56573

Bill To: LMKP LID

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Perham, MN 56573

Project:

AIS monitoring

Lab Code:

Page 4 of 4

182603

Matrix:

Surface Water Composite

Collection: Samplers:

Jake Anderson, Chris Larson

Date/Time Sampled: Date/Time Received: 08/29/12 1110 08/29/12 1330

Sample Description:

Kerbs 56-1636 composite of 2 sites

Laboratory: RMB Environmental Laboratories, Inc.

Contact/Phone: Robert Borash, 218-846-1465

Sample Receipt: Samples meet proper sampling and

transportation guidelines

Compound	Analysis Compound Method		Analysis Time	DF	MDL	RL	Sample Result				
Miscellanious Analyses											
Spiny water fleas	Microscopy	9/25/2012		1	1	1	Absent #/100 ml				
Zebra Mussel Veligers	Microscopy	9/25/2012		1	1	1	Present #/100 ml				

Sample preserved with 70% ethanol **Comments:**

RL = Reporting limit of the analysis method.

MDL = Minimum detection limit of the analysis method.

Avaphane

Report approved by:

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Moriya Rufer

From:

second confirmation Montz, Gary R (DNR) [Gary.Montz@state.mn.us]

Sent:

Tuesday, October 02, 2012 1:37 PM

To: Subject: Moriya Rufer RE: veliger check

Moriya:

Looked through the samples you sent down. There are a few organisms that look like they may be veligers, but I can't tell if they are (were) live or empty. I have passed along the info to our Invasive species specialist up in the area (you may know him, Nathan Olson) to see if he can get out to look at lakes for anything settled. Did you collect the samples; if so, where from on the lake? If someone else collected them, do you know where (and gear used)? Thanks, if Nathan finds anything (or nothing) I will pass along.

Gary Montz

Research Scientist 2, Aquatic Invertebrate Biologist MNDNR - Division of Ecological and Water Resources 500 Lafayette Road, Box 25 St. Paul, MN 55155-4025 651/259-5121

email: gary.montz@state.mn.us

From: Moriya Rufer [mailto:moriyar@rmbel.info]

Sent: Monday, October 01, 2012 4:00 PM

To: Montz, Gary R (DNR) Subject: RE: veliger check

Thanks, Gary. I appreciate it.

Moriva

From: Montz, Gary R (DNR) [mailto:Gary.Montz@state.mn.us]

Sent: Monday, October 01, 2012 1:54 PM

To: Moriya Rufer

Subject: RE: veliger check

Send them on down – not sure I'll be able to confirm or change your ID, but will take a look at them and see what I think.

Gary Montz

Research Scientist 2, Aquatic Invertebrate Biologist MNDNR - Division of Ecological and Water Resources 500 Lafayette Road, Box 25 St. Paul, MN 55155-4025 651/259-5121

email: gary.montz@state.mn.us

From: Moriya Rufer [mailto:moriyar@rmbel.info]

Sent: Monday, October 01, 2012 1:30 PM

To: Montz, Gary R (DNR) Subject: RE: veliger check

Hi Gary,

Moriya Rufer

From:

Denise Mayer [dmayer@MAIL.NYSED.GOV]

Sent:

Friday, October 05, 2012 12:23 PM

To:

Moriya Rufer

Cc:

third confirmation gary.montz@state.mn.us; nathan.olson@state.mn.us

Subject:

RE: Veligers

Attachments:

JPEG image.JPG

Hi Moriya,

I received your sample today and just took a look. Your note was correct in saying there were many bean-shaped, likely ostracod organisms to sort through, but I agree that a few appeared to have the size and shape of dreissenid veligers. I took a photo of what seemed to be the best veliger specimen (attached). This specimen was likely alive at collection since we can still see so much defined tissue.

How confident am I that this is a dreissenid veliger? I'd say about 99%. I would only be 100% confident with DNA analysis.

If you'd like to discuss further, please feel free to call or send an email. I'll be on traveling most of next week and the early part of the following week, but you can always try my cell phone too.

Have a good weekend.

Denise

Denise A. Mayer, Ph.D. Acting Director and Research Scientist Field Research Laboratory New York State Museum 51 Fish Hatchery Road Cambridge, NY 12816 518.677.8245 518.677.5236 fax 518.744.8668 mobile dmayer@mail.nysed.gov

>>> Moriya Rufer 10/04/12 12:29 PM >>> Hi Denise.

I'm sending the vial overnight today, so you will receive it tomorrow morning. Thanks a lot for taking a look,

Moriya

From: Denise Mayer [mailto:DMAYER@MAIL.NYSED.GOV]

Sent: Wednesday, October 03, 2012 12:30 PM

To: Montz, Gary R (DNR); Olson, Nathan W (DNR); Moriya Rufer

Subject: RE: Veligers

Hi Moriya,

That'll be great. I'll be out of town quite a bit over the next 2 weeks (starting next Tues), so getting them this week would be helpful.

Thanks.

RMB Environmental Laboratories, Inc. CHAIN OF CUSTODY RECORD 22796 County Highway 6, Detroit Lakes, MN 56501 · phone & fax: 218-846-1465 · rmbel@rmbel.info · www.rmbel.info

Sample Matrix Options: DW—Drinking Water	A CID SIGNATION OF THE	Report To: Report To: Report To:	Received by Lab: (Signature) Date/Time $8/2/12$ Date/Time	Relinquished By: (Signature) 1370 Date/Time 8/24/2 1370					Jeohs 510-11036	となって	Pame 56-0335	2000 Kusche 56-1041 00028,	Lab Code Sample Description Da	Samplers: (signature) The Children Fax #:	Samplers: (print) Jake Andewson and CMis	5	Client LMKP Lake Improvement District
	Hard Copy Invoice	☐ Hard Copy S PDF Version ☐ Excel Spreadsheet	330		Control of the Contro		-		ani]	1055		09 21 12 68	Date Time	**	and the same of		- B34
GW-Ground Water	nvoice voice	Isheet	USPS Hand Delivery Other:	Shipping Method Speedee UPS FedEx	os sinacelacerino, por expensión de constante de constant				0	25	- S	0955 1	# le of Bottles	,	M8Dn	P.O.#:	420
									\overline{C}	<u> </u>	C	C	Collection: Composite Grab Integrated				
SW-Surface Water	transportat Explain:	OOES mee transportat	(Initial) In the please contact client at ph	(Initial) In the I hereby authorize RMB	NAME OF THE PERSON NAME OF THE P				<			W8	Matrix: See Below				
WW-Waste Water FB-Field Blank	transportation guidelines Explain:	transportation guidelines □ DOES NOT meet proper sample storage and	event that samples are receive	(Initial) In the event that samples are received by the lab at a temperature greater than 6° horize RMB Environmental laboratories to process the samples as received.					\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				ZN, Spiny	Ve, no	13e	The Aleg	Analyses Requested
ık SL—Sludge S—Solid	Evidence Tape: Intact Not Intact NA	□ Revd at Room Temp □ Revd on Ice □ Temp Blank °C □ Samples Revd Same Day as Collection	ed by the lab at a temperatur before processing samples.	ed by the lab at a temperatur process the samples as rece												· · · · · · · · · · · · · · · · · · ·	
	t□Not Intact□NA	□Rcvd on Ice _°C Day as Collection	e greater than 6° C,	e greater than 6° C, ived.		CONTRACTOR			Straws	70%0	Whim	parsonal	Sample Commer (Collection, Filtrati Preservation).				

Sifts Little Mac - 3 Kerb - 2 Rusche - 2 Paul - 2

20-20ft water

