



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER RESOURCES DIVISION

TREATMENT REPORT FOR CHEMICAL TREATMENT OF
NUISANCE AQUATIC PLANT AND/OR ALGAE GROWTH, OR SWIMMER'S ITCH

Failure to submit the treatment report form provided by the department is a violation of Part 33, and the rules promulgated thereunder and may result in civil or criminal penalties as specified in Part 33, Aquatic Nuisance Control, of the NREPA

Section A

Submit completed report postmarked
no later than November 30, even if no
treatment was undertaken.

Submit by e-mail to:

deq-wrd-anc@michigan.gov

Submit by mail to:

AQUATIC NUISANCE CONTROL
WATER RESOURCES DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
P.O. BOX 30458
LANSING, MI 48909-7958

Permittee Information		
Permit Number: 14-98-0694-0		
Permittee Name: PLM Lake and Land Management		
Address: 8865 100 TH Street		
City: Alto	State: MI	Zip: 49302
Phone Number: 616-891-1294 ext. 2000		
E-mail Address: Jasonb@plmcorp.net		
Body of Water Treated: Portage Lake - Pike Bay		County: Houghton

Section B - Treatment Information

Fill in a separate table for each treatment date.

Date of treatment (one date per table): 6/25/2014		Name of person applying chemical: Jason Broekstra		Name of Company: PLM Lake and Land Management	
Effectiveness: <input checked="" type="checkbox"/> Good (70-100%) <input type="checkbox"/> Fair (50-69%) <input type="checkbox"/> Poor (Less than 50%) <input type="checkbox"/> Ineffective (0%) <input type="checkbox"/> Did not treat (skip to section E)					
CHEMICAL USED	METHOD OF APPLICATION	RATE OF APPLICATION (ex. 100 lbs/acre, 2.6 lbs/acre - foot)	TREATMENT AREA SIZE (acres)	TOTAL AMOUNT (ex. 4 gallons, 10 lbs.)	FOR CONTROL OF: (Plant and/or Algae names)
Chemical Brand: Sculpin G EPA Reg #: 67690-49	Surface Application/injection	65.4 lbs/acre ft	See treatment map	12600	EWM

Date of treatment (one date per table): 7/24/2014		Name of person applying chemical: Jason Broekstra		Name of Company: PLM Lake and Land Management	
Effectiveness: <input type="checkbox"/> Good (70-100%) <input checked="" type="checkbox"/> Fair (50-69%) <input type="checkbox"/> Poor (Less than 50%) <input type="checkbox"/> Ineffective (0%) <input type="checkbox"/> Did not treat (skip to section E)					
CHEMICAL USED	METHOD OF APPLICATION	RATE OF APPLICATION (ex. 100 lbs/acre, 2.6 lbs/acre - foot)	TREATMENT AREA SIZE (acres)	TOTAL AMOUNT (ex. 4 gallons, 10 lbs.)	FOR CONTROL OF: (Plant and/or Algae names)
Chemical Brand: Sculpin G EPA Reg #: 67690-49	Surface Application/injection	65.4 lbs/acre ft	See treatment map	320	EWM

Section C - Treatment Map(s) Please attach a map for each treatment date (one map for each table in Section B). Each map shall include: date, time, weather conditions, chemicals used in each treatment area and the species targeted in each treatment area.

Section D - Aquatic Plant Management (If the total treatment area for this waterbody is less than 10 acres you are not required to fill out Section D and you may skip to Section E).

1. Do you or a lake management consultant have a recent Aquatic Vegetation Survey or other lake management report that is not required by the ANC permit? ☒ Yes ☐ No

If so, and you are willing, please submit a copy of the field map and survey summary or lake management report.

2. If you or the lake management consultant is managing watermilfoil, have you obtained a genetic analysis of the watermilfoil population(s)? ☐ Yes ☒ No

If yes, please provide the following information as well as a map of the sample locations:



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Determination of genetic analysis: ☒ Hybrid ☒ Non-hybrid

Date(s) of sample(s): _____
Michigan Tech University

Number of sample locations: Multiple samples from both PLM and

HERBICIDE RESISTANCE MANAGEMENT QUESTIONS:	CHECK ONE	IF YES, PLEASE EXPLAIN:
Do you have an herbicide tolerance/resistance management plan for this waterbody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See NPDES/PDMP
Has native watermilfoil occurred in this waterbody historically?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Genetic Analysis Required to Confirm
Has Eurasian watermilfoil occurred in this waterbody historically?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Genetic Analysis Required to Confirm
Have you monitored field response to herbicides?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Monitored After Each Treatment
Have you obtained an herbicide susceptibility analysis (e.g., PlanTest)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are you field testing different chemical protocols?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Required and If Appropriate
Are you rotating active ingredients so as to avoid herbicide resistance issues?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	When Ever Possible
Have you obtained a laboratory assay for response to treatment (e.g., EffecTEST)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Section E - Adverse Incident Documentation and Reporting

1. Was any person or non-target organism exposed to a chemical during or after the treatment which caused the person or non-target organism to suffer a toxic or adverse effect?

☐ Yes (if yes, please fill out the attached addendum to Section E)

☒ No (if no, proceed to Section F)

Section F - Certification and Signature

I, the undersigned, swear and affirm that the statements contained herein are true and correct and that the chemical treatments listed above were undertaken in accordance with the requirements of the permit and Part 33, Aquatic Nuisance Control, Natural Resources and Environmental Protection Act, 1994 PA, as amended.

Submitter's Signature

Jason Broekstra
Submitter's Name (print)

11/26/2014
Date



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
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Address: 8865 100 TH Street		
City: Alto	State: MI	Zip: 49302
Phone Number: 616-891-1294 ext. 2000		
E-mail Address: Jasonb@plmcorp.net		
Body of Water Treated: Torch Bay		County: Houghton

Section B - Treatment Information

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Date of treatment (one date per table): 7/24/2014		Name of person applying chemical: Jason Broekstra		Name of Company: PLM Lake and Land Management	
Effectiveness: <input type="checkbox"/> Good (70-100%) <input checked="" type="checkbox"/> Fair (50-69%) <input type="checkbox"/> Poor (Less than 50%) <input type="checkbox"/> Ineffective (0%) <input type="checkbox"/> Did not treat (skip to section E)					
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Chemical Brand: Renovate OTF EPA Reg #: 67690-42	Surface Application/injection	67 lbs/acre ft	See treatment map	120	EWM
Chemical Brand: Sculpin G EPA Reg #: 67690-49	Surface Application/injection	65.4 lbs/acre ft	See treatment map	480	EWM

Date of treatment (one date per table): 9/3/2014		Name of person applying chemical: Jason Broekstra		Name of Company: PLM Lake and Land Management	
Effectiveness: <input type="checkbox"/> Good (70-100%) <input type="checkbox"/> Fair (50-69%) <input checked="" type="checkbox"/> Poor (Less than 50%) <input type="checkbox"/> Ineffective (0%) <input type="checkbox"/> Did not treat (skip to section E)					
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Chemical Brand: Renovate OTF EPA Reg #: 67690-42	Surface Application/injection	67 lbs/acre ft	See treatment map	80	EWM
Chemical Brand: Sculpin G EPA Reg #: 67690-49	Surface Application/injection	65.4 lbs/acre ft	See treatment map	1800	EWM

Section C - Treatment Map(s) Please attach a map for each treatment date (one map for each table in Section B). Each map shall include: date, time, weather conditions, chemicals used in each treatment area and the species targeted in each treatment area.

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2. If you or the lake management consultant is managing watermilfoil, have you obtained a genetic analysis of the watermilfoil population(s)? ☐ Yes ☒ No

If yes, please provide the following information as well as a map of the sample locations:

Determination of genetic analysis: ☒ Hybrid ☒ Non-hybrid

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Michigan Tech University

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Have you monitored field response to herbicides?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Monitored After Each Treatment
Have you obtained an herbicide susceptibility analysis (e.g., PlanTest)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are you field testing different chemical protocols?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Required and If Appropriate
Are you rotating active ingredients so as to avoid herbicide resistance issues?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	When Ever Possible
Have you obtained a laboratory assay for response to treatment (e.g., EffecTEST)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Section E - Adverse Incident Documentation and Reporting

1. Was any person or non-target organism exposed to a chemical during or after the treatment which caused the person or non-target organism to suffer a toxic or adverse effect?

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Submitter's Signature

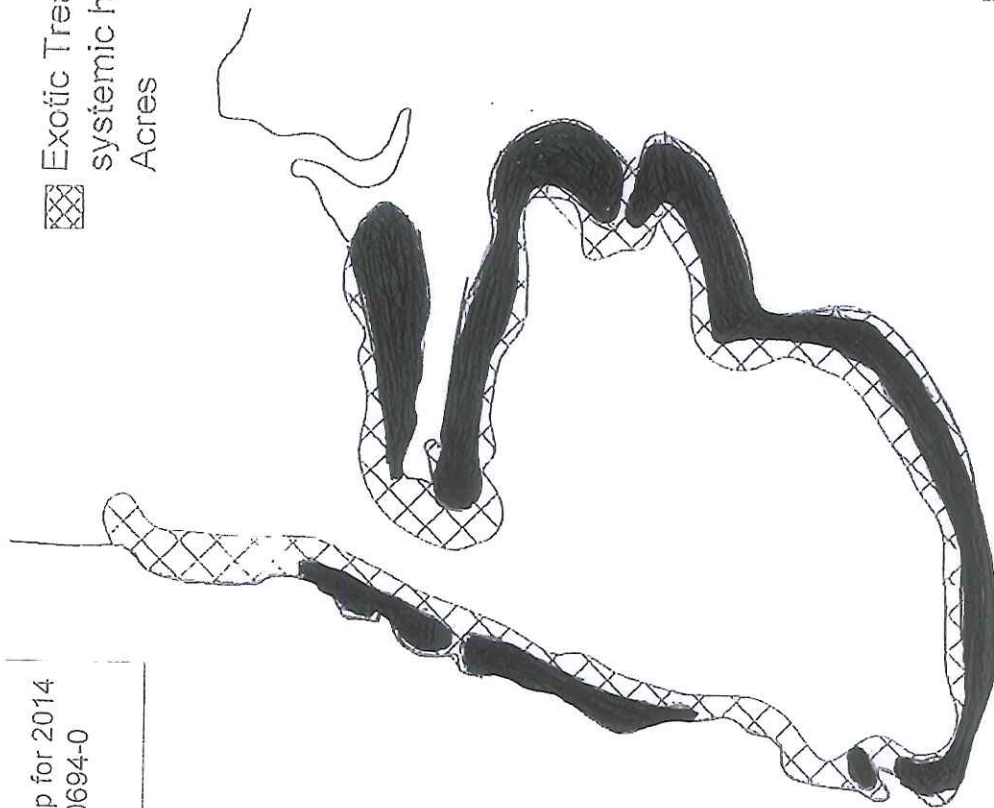
Jason Broekstra
Submitter's Name (print)

11/26/2014
Date

DEQ

Approved Treatment Map for 2014
Permit Number: 14-98-0694-0
Map 2 of 2

Exotic Treatment Area using
systemic herbicides = 270
Acres



N

0.4 Miles

PIKE BAY

~450 Surface Acres (as shown)

Houghton County

Chassell Township

Professional Land Management P.O. Box 401 Chassell, MI 49816 Phone (907) 832-4202

Date: 6-25-14 Time: 7-3 Temp: 60 F
Wind: L M H Weather: Sun, Part Sun, Cloudy, Rain
Target: EWM, CLP, Algae, Natives, Emergent, Other
☐ Treated entire permitted area* ☒ Treated entire developed area* ☐ Other

*See treatment report for chemicals used. If a table was floating, all isolation distances followed per permit restrictions

~ Milfoil @ 160# Sculpin
78.75 acre



7-24-14 Jason, Joe, Kwik
Breezy, P.S. 70°

EW with Seulpin
@160

~2 acres

N

.4 Miles

PIKE BAY

~450 Surface Acres (as shown)

Houghton County
Chassell Township

TORCH BAY

~725 Surface Acres (as shown)

Houghton County

Torch Lake Township

Tuller & Associates, P.O. Box 112, Chaska, MN 55316 Phone (651) 382-4131

Date: 7-24-14 Time: 3-6 Temp: 75 F

Wind: L M Weather: Sun, Part Sunny Cloudy, Rain

Target: ☒ EWM, ☒ CLP, ☒ Algae, ☒ Natives, ☒ Emergent, ☒ Other

☐ Treated entire permitted area ☐ Treated entire developed area ☐ Other

*See treatment report for chemicals used. If buffer was treated, all isolation distances followed per permit restrictions

Spot treat EWM - Escarpment-OTF

@ 150 per acre

Tasong, Wayne alkali

TORCH BAY

~725 Surface Acres (as shown)

Houghton County

Torch Lake Township

Tuller & Associates, P.O. Box 112, Chaska, MN 55316 Phone (651) 382-4131

Approved Treatment Map for 2014

Permit Number: 14-98-0694-0

Map 1 of 2

DEQ

TORCH BAY

~725 Surface Acres (as shown)

Houghton County

Torch Lake Township

Tuller & Associates, P.O. Box 112, Chaska, MN 55316 Phone (651) 382-4131

Exotic Treatment Area using systemic herbicides = 325 Acres

☒ Exotic Treatment Area using systemic herbicides = 325 Acres

60# OTF

Twp's House

TORCH BAY

~725 Surface Acres (as shown)

Houghton County

Torch Lake Township

Tuller & Associates, P.O. Box 112, Chaska, MN 55316 Phone (651) 382-4131

Approved Treatment Map for 2014

Permit Number: 14-98-0694-0

Map 1 of 2

DEQ

TORCH BAY

~725 Surface Acres (as shown)

Houghton County

Torch Lake Township

Tuller & Associates, P.O. Box 112, Chaska, MN 55316 Phone (651) 382-4131

Approved Treatment Map for 2014

Permit Number: 14-98-0694-0

Map 1 of 2

DEQ

