

# Nine Mile Creek Watershed District

## Aquatic Invasive Species (AIS) Rapid Response Plan



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## **ACKNOWLEDGEMENT**

As the Nine Mile Creek Watershed District (NMCWD) undertook the initiative to develop aquatic invasive species (AIS) management strategies for various activities, including the development of a AIS Rapid Response Plan. Following discussion on what should be included in a rapid response plan and how to involve the District's partners, the NMCWD Board of Manager's did not want to "reinvent the wheel" and waste taxpayer money when there were likely existing plans that could be used as a starting point, and asked staff to bring examples of similar plans that other water organizations have developed and the processes they used.

In October of 2019, the managers heard a presentation from the administrator from Bassett Creek Water Management Commission (BCWMC) on the process they used in preparing their rapid response plan. Following discussion at the meeting, it was the consensus of the Board to use the BCWMC rapid response planning process and resulting plan as the foundation of developing a NMCWD rapid response plan and directed staff to start communications with potential partners that would likely play a role in a resulting rapid response plan (e.g., the partner cities, Hennepin County, Three Rivers Park District (TRPD), Minnesota Department of Natural Resources (MnDNR), Minnesota Aquatic Invasive Species Research Center (MAISRC) and others.)

NMCWD would like to thank BCWMC for allowing the District to share the process they used in working with partners in identifying each entities role for rapid response plans for identified lakes and allowing NMCWD to use much of the backbone of their Rapid Response Plan in the development of the District's own.

## **PURPOSE**

The NMCWD established goals, policies, and actions as part of the development of its fifth generation Water Management Plan (Nine Mile Creek Watershed District Water Management Plan, 2017) to guide day-to-day operations of the District and long-range planning efforts. The goals aid in defining the purposes of the District. To achieve these ends, the District has identified policies and actions to address surface water management issues in District lakes and creeks and guide present and future management decisions. As such, the Plan included Stormwater Management goals and objectives specific to AIS, including:

- Conducting periodic inventories and assessments of AIS in District waterbodies, development of targeted AIS management strategies and working with agencies and local stakeholders to manage invasive species (Table 5-2, Objective 2, Policy 4, Actions A, B, and C).

The NMCWD in the fall of 2019, the NMCWD board of managers began discussing the development of District AIS management strategies and roles. As part of the discussion, the Managers prioritized District lakes (as they pertain to various AIS activities) as Priority 1 deep and shallow lakes, Priority 2 deep and shallow lakes, Priority 3 lakes and Unclassified. Lakes were prioritized due to their size, depth, if there was a public access on the lake and/or if there was a park adjacent to the lake, or if the lake was land-locked or not. The results of this process are shown later in the report.

In addition, the NMCWD Board of Managers discussed what the District's roles should be in the following activities:

- Prevention
- Identification (early detection)
- Monitoring and inventories
- Overall AIS management
- Rapid response

The NMCWD AIS strategic goals/objectives include: 1) prevention education 2) inventory/early detection/rapid response and 3) working with agencies and local stakeholders to manage AIS.

1) Prevention

a. Education

- i. Design and implement education program(s) to help prevent future infestation.
  - 1. NMWD has developed AIS prevention educational materials to disseminate at events
  - 2. Created an AIS Education Pop Up Cart to conduct public education at community events about AIS prevention
  - 3. Includes AIS and AIS prevention information on the NMCWD website
  - 4. Education at public accesses
  - 5. Consider ideas or requests from cities/lake groups for tailored educational materials

b. Inspection/cleaning

- i. Inspections of boats entering/leaving a lake at public accesses, installation of boat and trailer washing stations, at public accesses and regulating public accesses hours of uses
  - 1. Done by entity that owns or manages the public access (e.g., State, Park District, City). The NMCWD currently does not own or manage a public access.

2) Early Detection/Rapid Response

a. Early detection

- i. Through NMCWD current monitoring program
  - 1. Routine lake and creek monitoring
    - a. Lake vegetation surveys
    - b. Zebra Mussel Veliger monitoring
- ii. Volunteer early-detection programs
  - 1. Early detection training
    - a. The NMCWD will collaborate with other partners (e.g., park districts, cities, or lake groups) on training groups or individuals on early detection of AIS in all the District waterbodies. Activities include advertising training sessions, helping recruit participants, assisting with venue coordination, assist in the cost of training participants.
  - 2. Early detection monitoring
    - a. The NMCWD will collaborate with other partners (e.g., park districts, cities, or lake groups) to actively recruit volunteers on Priority 1 lakes and those enrolled in the metropolitan Council's

Citizen-Assisted (Lake) Monitoring Program (CAMP) to participate in:

- i. The Adopt-a-Dock program to detect zebra mussels. In addition, the NMCWD will train the volunteers, provide them with the sampling plates and collect and analyze the plates, and/or:
- ii. The MAISRC AIS Detectors program - <https://www.maisrc.umn.edu/ais-detectors>

b. Rapid response

- i. The MnDNR released their version of a Minnesota Rapid Response Plan for Aquatic Invasive Species in July of 2013. The Plan calls for early detection of and rapid response to AIS introductions of infestations; a second line of defense following education and inspection programs. The plan outlines the priority of actions following the introduction/infestation, reducing the overall impacts from those AIS.
- ii. The objective of NMCWD having a rapid response plan specific to its lakes, is to define District and partner roles and actions to quickly react to an early AIS infestation. The plan is intended to enable a head start should a concern arise and provide a step-by-step process and partner roles to follow.

3) Management

- a. If the AIS is already established and it is determined that a rapid response plan for eradication is not feasible, and if the primary objective of the AIS management activity is to improve water quality, protect the function or capacity for flood control, or to improve habitat and the overall ecology of the waterbody, NMCWD will lead or partner on the development of the AIS management plan to reduce and/or management the abundance of the targeted AIS to meet determined goals. If the primary purpose of the AIS management activity is to improve recreation and/or aesthetics, the District does not feel that it has a direct role.

#### **RAPID RESPONSE TO AQUATIC INVASIVE SPECIES DETECTED IN NMCWD PRIORITY 1 LAKES**

The term “invasive species” describes plants, animals, or microorganisms within lakes and streams that are non-native and 1) cause or may cause economic, environmental or harm to human health, or 2) threaten or may threaten natural resources or the use of natural resources in the state (Minnesota Statutes section 84D.01). Aquatic invasive species (AIS) is a term given to invasive species (both plant and animal) that inhabit lakes, wetlands, rivers, or streams and overrun or inhibit the growth of native species. Aquatic invasive species pose a threat to natural resources and local economies that depend on them.

The presence of non-native species and invasive species can impair the ecological, aesthetic, and recreational functions of aquatic, wetland and shoreland areas. Not all non-native species are invasive; “invasive” refers to those non-native species that are able to out-compete, displace, and even eliminate native species (i.e., some “non-native” species to the region are able to coexist with native species).

Examples of AIS include:

- Eurasian watermilfoil
- Flowering Rush
- Starry Stonewort
- Zebra Mussels

As part of its Invasive Species Program, the MnDNR maintains a list of waters infested with specific AIS (MnDNR Designation of Infested Waters, amended October 15, 2020). Table 1 summarizes the list of NMCWD lakes that the MnDNR has documented an AIS infestation.

**Table 1. Summary of documented AIS infestations in NMCWD lakes**

<b>Waterbody</b>	<b>Invasive Species</b>	<b>Lake ID #</b>
<b>Anderson (SE)</b>	Hybrid Eurasian watermilfoil	270062-02
<b>Anderson (SW)</b>	Eurasian watermilfoil	270062-03
<b>Arrowhead</b>	Eurasian watermilfoil	270045
<b>Bryant</b>	Zebra mussel, Eurasian watermilfoil	270047
<b>Bush</b>	Eurasian watermilfoil	270067
<b>Cornelia – Pool Pond</b>	Eurasian watermilfoil	270679
<b>Edina</b>	Eurasian watermilfoil	270029
<b>Normandale</b>	Eurasian watermilfoil	271045
<b>Shady Oak</b>	Eurasian watermilfoil	270089
<b>Smetana</b>	Eurasian watermilfoil	270073

In addition, Eurasian watermilfoil has been found in the south fork of Nine Mile Creek.

The MnDNR’s list of AIS infested waterbodies may not include all known AIS occurrences within the NMCWD. The MDNR infested waters list does not include curly-leaf pondweed, which has been identified in several NMCWD waterbodies.

When new AIS infestations are detected, prompt and coordinated containment and suppression/eradication response can reduce the potential establishment, spread, and harmful impacts of a species. Effective rapid response to AIS is crucial to preventing establishment, minimizing ecological and economic impacts, maximizing the effectiveness of efforts to contain, and if possible, eradicate newly introduced AIS. This rapid response plan details the rapid response by NMCWD and partners to new infestations of AIS detected in NMCWD Priority 1 lakes.

This plan is only effective if an AIS is detected early, or before AIS is distributed widely in the lake and/or its population is firmly established. Ideally early detection monitoring activities are performed regularly by citizens, cities, park districts and other organizations. For its part, NMCWD has cooperated with other organizations to train groups or individuals on early detection of AIS in its lakes, including advertising training session, helping recruit participants, assisting with venues coordination and training costs (through a Hennepin County AIS Prevention Grant). Further, NMCWD has purchased zebra mussel sampler plates and actively recruits Adopt-a-Dock participants for its lakes. Finally, the NMCWD continues to monitor for AIS through its annual routine lake monitoring program. As such, the NMCWD has started to include the annual the collection of water samples, through its routine lake monitoring program, to be assessed for the presence of zebra mussel veligers.

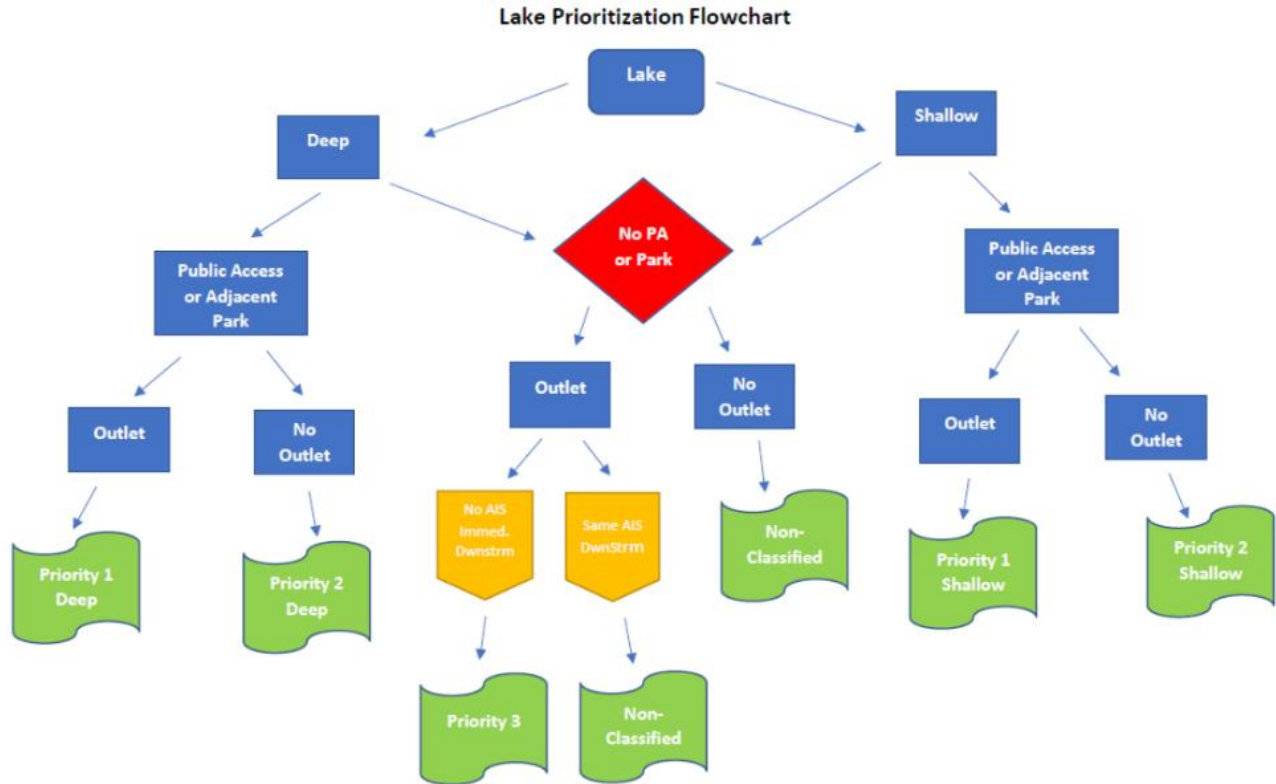
## OVERALL FRAMEWORK

The following overall framework guides the response of NMCWD, its member cities and other partners for all newly detected AIS in NMCWD Priority 1 lakes. The framework outlines the actions, required to contain, and if possible, eradicate newly introduced AIS. The framework includes the following essential steps:

- Notify MnDNR of AIS Infestation (MnDNR verifies AIS Infestation) – Who
- Communicate the Infestation to all stakeholders (including those downstream)
- Perform, or hire monitoring to determine the extent of infestation
- Determine whether isolation of the infestation is needed, and if so, isolate the infestation
- Collaborate with the MnDNR, MAISRC, and stakeholders to determine appropriate rapid response treatment/removal (e.g., chemical treatment or manual removal of AIS) and associated costs
  - The best determined scientifically proven and/or innovative management techniques for the AIS of interest will be used.
- Obtain MnDNR (and/or USACOE) treatment/removal permit
- Perform additional pre-treatment monitoring, if required by MnDNR permit
- Hire contractor to perform AIS rapid response treatment/removal (e.g., chemical treatment or manual removal)
- Fund AIS treatment /removal
- Perform or hire contractor to perform post-treatment to determine treatment/removal effectiveness
- Communicate information about the AIS treatment/removal and results of AIS treatment/removal efforts to stakeholders, (including those downstream)

## AIS RAPID RESPONSE IN NMCWD PRIORITY 1 LAKES

The NMCWD classified specific lakes within the watershed as priority lakes based on the desired water quality and uses of those lakes as well as if the lake is land-locked or not. The flow chart below details the process used to determine Priority 1 lakes. Priority lakes with public access or adjacent public land are classified a Priority 1 lakes (Figure 1) include:



### Priority 1 Deep Lake

Bryant Lake  
Bush Lake

### Priority 1 Shallow Lake

Anderson Lake – NW  
Anderson Lake – SW  
Anderson Lake – SE  
Cornelia Lake  
Normandale Lake  
Penn (Lower) Lake  
Smetana Lake



## **Need to create**

### **MAP**

This Rapid Response Plan Details the rapid response by NMCWD and other partnering entities to new infestations of key AIS detected in NMCWD Priority 1 lakes.

The response to infestation by newly introduced AIS may include isolation, chemical treatment, and/or manual removal. Chemical treatment is often the most effective action. However, when chemical treatment is not permitted by the MnDNR, small infestations of up to 2,500 square feet will be management by manual removal whenever feasible. In the future, additional for treatment/removal may become available. The intent of this AIS rapid response plan is that the most effective available treatment/removal method would be used to rapidly respond to newly introduced AIS.

AIS rapid response efforts for NMCWD Priority 1 lakes are in partnership among stakeholders. This AIS rapid response plan defines the roles of the partnering entities that would work together to rapidly respond to newly introduced AIS in NMCWD Priority 1 lakes. To prepare this AIS rapid response plan, NMCWD staff held meetings (telephone, virtual or in person) with stakeholders to identify partner roles. Table 1 summarizes the partners, meeting participants. Tables 3 through 11 provide the detailed partner roles for NMCWD Priority 1 lakes, as determined from the meetings. Partners will consider utilizing lake

organizations to assist with communications, volunteer coordination, and other activities, as appropriate.

**Table 2. Partnering entities contact information**

<b>Partnering Entity</b>	<b>Meeting Participant</b>	<b>Priority 1 Lake(s)</b>	<b>Phone</b>
<b>City of Bloomington</b>	Bryan Gruidl	Bush Lake, Normandale Lake, Penn Lake and SE Anderson Lake	952.563.4557
<b>City of Eden Prairie</b>	Leslie Stovring	Bryant Lake, NW Anderson Lake, Smetana Lake and SW Anderson Lake	952.949.8327
<b>City of Edina</b>	Jessica Wilson	Lake Cornelia	952.826.0445
<b>Three Rivers Park District (TRPD)</b>	Brian Vlach	Bryant Lake, NW Anderson Lake and SW Anderson Lake	763.694.7846
<b>US Army Corp of Engineers (USACOE)</b>	Melissa Jenny	Normandale Lake	651.290.5363
<b>Hennepin County</b>	Tony Brough	All Priority 1 Lakes	612.348.4378
<b>MnDNR</b>	Keegan Lund	All Priority 1 Lakes	651.259.5928
<b>MAISRC</b>	Dr. Dan Larkin	All Priority 1 Lakes	612.625.6350
<b>Mankato State University</b>	Dr. Ryan Wersal	All Priority 1 Lakes	507.389.5728
<b>Bush Lake Chapter Izaak Walton League</b>	Paul Erdmann	Bush Lake	
<b>Lake Cornelia Lake Group</b>	Larry Olson	Lake Cornelia	

**REFERENCES**

Basset Creek Watershed Management Commission. 2018. BCWMC Aquatic Invasive Species Rapid Response Plan.

Minnesota Department of Natural Resources. 2013. Minnesota Rapid Response Plan fo Aquatic Invasive Species.

Nine Mile Creek Watershed District. 2017. Water Management Plan.

Pelican River Watershed District. 2020. Readiness Response for Aquatic Invasive Plants – Eurasian and Hybrid Watermilfoil, Starry Stonewort and Hydrilla.

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**Table 3. AIS Rapid Response Plan for Bryant Lake**

Activity	Partner Roles					
	NMCWD	City of Eden Prairie	Hennepin County	TRPD	MnDNR	Aquatic Plant Management Expert (e.g., MAISRC, Mankato State University)
<b>Notify MnDNR of AIS potential type of Infestation (MnDNR verifies AIS Infestation)</b>	The first entity to find or be notified of possible AIS infestation contacts the MnDNR, TRPD and the City	The first entity to find or be notified of possible AIS infestation contacts the MnDNR, TRPD and NMCWD		The first entity to find or be notified of possible AIS infestation contacts the MnDNR, the City and NMCWD	Verifies AIS Infestation	
<b>Communicate the type and potential extent of Infestation to all stakeholders (including those downstream)</b>	Collaborates with the MnDNR, TRPD and City and disseminates information to stakeholders and the public	Collaborates with the MnDNR, TRPD and NMCWD and disseminates information to stakeholders and the public	Collaborate with NMCWD, City, TRPD and Stakeholders as needed to provide education materials and/or technical assistance.	In conjunction with or immediately following MnDNR press release, communicates information about the infestation to all stakeholders and provides information to the City and NMCWD to communicate infestation to public	MnDNR issues press release prior to or in conjunction with communication directly to stakeholders	
<b>Perform, or hire monitoring to determine the extent of infestation</b>	Collaborates with MnDNR, the City, TRPD and MAISC regarding monitoring plan design	Collaborates with MnDNR, the City, TRPD and MAISC regarding monitoring plan design		Performs plant surveys and assists with sampling (snorkeling shallow water). TRPD could hire contractor to perform SCUBA surveys	Collaborates with NMCWD, the City, TRPD and MAISC	Provide research support and advice to NMCWD, the City, and TRPD regarding monitoring plan design as well a potential pre- and post-treatment survey on a contract basis
<b>Determine whether isolation of the infestation is needed, and if so, isolate the infestation</b>	Collaborates with MnDNR, the City, TRPD and MAISC	Collaborates with MnDNR, NMCWD, TRPD and MAISC		Makes decision after collaborating with NMCWD, the City, MnDNR and MAISC. If feasible, the TRPD will implement the isolation	Collaborates with NMCWD, City, TRPD and MAISC	Provide research support and advice to NMCWD, the City, and TRPD
<b>Collaborate with the MnDNR, MAISRC, and stakeholders to determine appropriate rapid response treatment/removal (e.g., chemical treatment or manual removal of AIS) and associated costs</b>	Collaborates with NMCWD, City, TRPD and MAISC	Collaborates with NMCWD, City, TRPD and MAISC		Facilitates the implementation of a rapid response effort with collaboration and input from MnDNR, NMCWD, the City and MAISC	Collaborates with NMCWD, City, TRPD and MAISC	Provide research support and advice to NMCWD, the City, and TRPD
<b>Obtain MnDNR treatment/removal permit</b>	Is copied on permit application and all communications	Is copied on permit application and all communications		Obtains treatment and removal permit from MnDNR	Works with TRPD to issue permit	Provide technical information and advice as needed advice to NMCWD, the City, and TRPD
<b>Perform additional pre-treatment monitoring, if required by MnDNR permit</b>	Collaborates with NMCWD, City, TRPD and MAISC regarding monitoring plan design	Collaborates with NMCWD, City, TRPD and MAISC regarding monitoring plan design		Performs plant surveys and assists with sampling (snorkeling shallow water). TRPD could hire contractor to perform SCUBA surveys		Provide research support and advice to NMCWD, the City, and TRPD regarding monitoring plan design as well a potential pre- and post-treatment surveys on a contract basis
<b>Hire contractor to perform AIS rapid response treatment/removal (e.g., chemical treatment of manual removal)</b>				Hires contractor or coordination of hiring contractor with the MnDNR		
<b>Fund AIS treatment /removal</b>	Partners with the City, TRPD and Hennepin County to fund treatment	Partners with NMCWD, TRPD and Hennepin County to fund treatment	Depending on professional guidance (MnDNR and others) consider providing Hennepin County AIS rapid response grant funding, to help fund the treatment or removal	Partners with NMCWD, TRPD and Hennepin County MnDNR to fund treatment		
<b>Perform or hire contractor to perform post-treatment monitoring to determine treatment/removal effectiveness</b>	Collaborates with NMCWD, City, TRPD and MAISC regarding monitoring plan design	Collaborates with NMCWD, City, TRPD and MAISC regarding monitoring plan design		Performs plant surveys and assists with sampling (snorkeling shallow water). TRPD could hire contractor to perform SCUBA surveys	Collaborates with NMCWD, City, TRPD, MAISC regarding monitoring plan design	Provide research support and advice to NMCWD, the City, and TRPD regarding monitoring plan design as well a potential pre- and post-treatment survey on a contract basis
<b>Communicate information about the AIS treatment/removal and results of AIS treatment/removal efforts to stakeholders, (including those downstream)</b>	Collaborates with the TRPD and City and disseminates information to stakeholders and the public	Collaborates with the TRPD and City and disseminates information to stakeholders and the public		Works in collaboration with MnDNR and provides resulting information to NMCWD, the City, and MAISC		
<b>Design and implement education program to help prevent future infestation</b>	Collaborates with the City, County and TRPD and disseminates educational information to stakeholders and the public	Collaborates with NMCWD, County and TRPD and disseminates educational information to stakeholders and the public	Consider providing Hennepin County AIS Prevention Aid grant funding, technical assistance and guidance for development of educational materials	Collaborates with NMCWD, County and City to develop educational materials and provide resources within park property to disseminate information to the general public.		

**Table 4. AIS Rapid Response Plan for Bush Lake**

Activity	Partner Roles					
	NMCWD	City of Bloomington	Hennepin County	Bush Lake Chapter Izaak Walton League	MnDNR	Aquatic Plant Management Expert (e.g., MAISRC, Mankato State University)
<b>Notify MnDNR of potential type of AIS Infestation (MnDNR verifies AIS Infestation)</b>	The first entity to find or be notified of possible AIS infestation contacts the MnDNR and the City	The first entity to find or be notified of possible AIS infestation contacts the MnDNR and NMCWD		The first entity to find or be notified of possible AIS infestation contacts the MnDNR, NMCWD and the City	Verifies AIS Infestation	
<b>Communicate the type and potential extent of Infestation to all stakeholders (including those downstream)</b>	Collaborates with the MnDNR, City and disseminates information	Collaborates with the MnDNR, NMCWD and disseminates information	Collaborate with NMCWD, City and Stakeholders as needed to provide education materials and/or technical assistance.	Disseminates information from the MnDNR, NMCWD and the City	MnDNR issues press release prior to or in conjunction with communication directly to stakeholders	
<b>Perform, or hire monitoring to determine the extent of infestation</b>	Collaborates with MnDNR, the City and MAISC regarding monitoring plan design and provides recommendations for contractor	Leads contractor contract administration in collaboration with NMCWD.			Collaborates with NMCWD, the City MAISC	Collaborates with NMCWD, MnDNR and the City, regarding monitoring plan design
<b>Determine whether isolation of the infestation is needed, and if so, isolate the infestation</b>	The NMCWD and the City will make a uniform decision after collaborating with MnDNR, MAISRC	The NMCWD and the City will make a uniform decision after collaborating with MnDNR, MAISRC			Collaborates with NMCWD, the City and MAISC	Collaborates with NMCWD, MnDNR and the City
<b>Collaborate with the MnDNR, MAISRC, and stakeholders to determine appropriate rapid response treatment/removal (e.g., chemical treatment or manual removal of AIS) and associated costs</b>	The NMCWD and the City will make a uniform decision after considering the recommendations from MnDNR, and MAISC	The NMCWD and the City will make a uniform decision after considering the recommendations from MnDNR, and MAISC			Collaborates with NMCWD, the City and MAISC	Collaborates with NMCWD, MnDNR and the City
<b>Obtain MnDNR treatment/removal permit</b>	Is copied on permit application and all communications	Obtains treatment and removal permit from MnDNR			Works with the City to issue permit	Collaborates with NMCWD, TRPD, MnDNR and the City as needed to provide technical information
<b>Perform additional pre-treatment monitoring, if required by MnDNR permit</b>	Collaborates with NMCWD, City and MAISC regarding monitoring plan design	Leads contractor contract administration in collaboration with NMCWD.			Collaborates with NMCWD, the City and MAISC regarding monitoring requirements of permit	Collaborates with NMCWD, MnDNR and the City regarding monitoring plan design and recommendations for a contractor.
<b>Hire contractor to perform AIS rapid response treatment/removal (e.g., chemical treatment of manual removal)</b>	Provides technical assistance with contract development	Leads contractor contract administration in collaboration with NMCWD.				
<b>Fund AIS treatment /removal</b>	Partners with City and Hennepin County to fund treatment	Partners with NMCWD and Hennepin County to fund treatment	Depending on professional guidance (MnDNR and others) consider providing Hennepin County AIS rapid response grant funding, to help fund the treatment or removal			
<b>Perform or hire contractor to perform post-treatment monitoring to determine treatment/removal effectiveness</b>	Collaborates with the City and MAISC and regarding monitoring plan design	Leads contractor contract administration in collaboration with NMCWD.			Collaborates with NMCWD, the City and MAISC regarding monitoring plan design	Collaborates with NMCWD, MnDNR and the City regarding monitoring plan design and recommendations for a contractor.
<b>Communicate information about the AIS treatment/removal and results of AIS treatment/removal efforts to stakeholders, (including those downstream)</b>	Collaborates with the MnDNR and City and disseminates information to stakeholders and the public	Collaborates with the MnDNR and NMCWD and disseminates information to stakeholders and the public		Disseminates information from the MnDNR, NMCWD and the City	Collaborates with NMCWD, the City regarding the development of communication material to be disseminated	
<b>Design and implement education program to help prevent future infestation</b>	Collaborates with the City and County and disseminates information to stakeholders and the public	Collaborates with NMCWD and County and disseminates information to stakeholders and the public	Consider providing Hennepin County AIS Prevention Aid grant funding, technical assistance and guidance for development of educational materials	Disseminates educational information from the MnDNR, NMCWD and the City		

**Table 5. AIS Rapid Response Plan for Lake Cornelia**

Activity	Partner Roles					
	NMCWD	City of Edina*	Hennepin County	Cornelia Lake Group	MnDNR	Aquatic Plant Management Expert (e.g., MAISRC, Mankato State University)
<b>Notify MnDNR of potential type of AIS Infestation (MnDNR verifies AIS Infestation)</b>	The first entity to find or be notified of possible AIS infestation contacts the MnDNR and the City	The first entity to find or be notified of possible AIS infestation contacts the MnDNR and NMCWD		The first entity to find or be notified of possible AIS infestation contacts the MnDNR, NMCWD and the City	Verifies AIS Infestation	
<b>Communicate the type and potential extent of Infestation to all stakeholders (including those downstream)</b>	Collaborates with the MnDNR, City and disseminates information	Collaborates with the MnDNR, NMCWD and disseminates information	Collaborate with NMCWD, City and Stakeholders as needed to provide education materials and/or technical assistance.	Disseminates information from the MnDNR, NMCWD and the City	MnDNR issues press release prior to or in conjunction with communication directly to stakeholders	
<b>Perform, or hire monitoring to determine the extent of infestation</b>	Collaborates with MnDNR, the City and MAISC regarding monitoring plan design and provides recommendations for contractor	In collaboration with NMCWD, and on a situation-by-situation basis, leads contractor contract administration in collaboration with NMCWD.			Collaborates with NMCWD, the City MAISC	Collaborates with NMCWD, MnDNR and the City, regarding monitoring plan design
<b>Determine whether isolation of the infestation is needed, and if so, isolate the infestation</b>	The NMCWD and the City will make a uniform decision after collaborating with MnDNR, MAISRC	The NMCWD and the City will make a uniform decision after collaborating with MnDNR, MAISRC			Collaborates with NMCWD, the City and MAISC	Collaborates with NMCWD, MnDNR and the City
<b>Collaborate with the MnDNR, MAISRC, and stakeholders to determine appropriate rapid response treatment/removal (e.g., chemical treatment or manual removal of AIS) and associated costs</b>	The NMCWD and the City will make a uniform decision after considering the recommendations from MnDNR, and MAISC	The NMCWD and the City will make a uniform decision after considering the recommendations from MnDNR, and MAISC			Collaborates with NMCWD, the City and MAISC	Collaborates with NMCWD, MnDNR and the City
<b>Obtain MnDNR treatment/removal permit</b>	Is copied on permit application and all communications	Obtains treatment and removal permit from MnDNR			Works with the City to issue permit	Collaborates with NMCWD, TRPD, MnDNR and the City as needed to provide technical information
<b>Perform additional pre-treatment monitoring, if required by MnDNR permit</b>	Collaborates with NMCWD, City and MAISC regarding monitoring plan design	In collaboration with NMCWD, and on a situation-by-situation basis, leads contractor contract administration in collaboration with NMCWD.			Collaborates with NMCWD, the City and MAISC regarding monitoring requirements of permit	Collaborates with NMCWD, MnDNR and the City regarding monitoring plan design and recommendations for a contractor.
<b>Hire contractor to perform AIS rapid response treatment/removal (e.g., chemical treatment of manual removal)</b>	Provides technical assistance with contract development	In collaboration with NMCWD, and on a situation-by-situation basis, Leads contractor contract administration in collaboration with NMCWD.				
<b>Fund AIS treatment /removal</b>	Partners with City and Hennepin County to fund treatment	Partners with NMCWD and Hennepin County to fund treatment	Depending on professional guidance (MnDNR and others) consider providing Hennepin County AIS rapid response grant funding, to help fund the treatment or removal			
<b>Perform or hire contractor to perform post-treatment monitoring to determine treatment/removal effectiveness</b>	Collaborates with the City and MAISC and regarding monitoring plan design	In collaboration with NMCWD, and on a situation-by-situation basis, leads contractor contract administration in collaboration with NMCWD.			Collaborates with NMCWD, the City and MAISC regarding monitoring plan design	Collaborates with NMCWD, MnDNR and the City regarding monitoring plan design and recommendations for a contractor.
<b>Communicate information about the AIS treatment/removal and results of AIS treatment/removal efforts to stakeholders, (including those downstream)</b>	Collaborates with the MnDNR and City and disseminates information to stakeholders and the public	Collaborates with the MnDNR and NMCWD and disseminates information to stakeholders and the public		Disseminates information from the MnDNR, NMCWD and the City	Collaborates with NMCWD, the City regarding the development of communication material to be disseminated	
<b>Design and implement education program to help prevent future infestation</b>	Collaborates with the City and County and disseminates information to stakeholders and the public	Collaborates with NMCWD and County and disseminates information to stakeholders and the public	Consider providing Hennepin County AIS Prevention Aid grant funding, technical assistance and guidance for development of educational materials	Disseminates educational information from the MnDNR, NMCWD and the City		

\*The City of Edina’s collaborative efforts will be evaluated as to it being consistent with the City’s current Comprehensive Water Resources Management Plan

**Table 6. AIS Rapid Response Plan for Normandale Lake**

Activity	Partner Roles					
	NMCWD	City of Bloomington	Hennepin County	USACOE	MnDNR	Aquatic Plant Management Expert (e.g., MAISRC, Mankato State University)
<b>Notify MnDNR of potential type of AIS Infestation (MnDNR verifies AIS Infestation)</b>	The first entity to find or be notified of possible AIS infestation contacts the MnDNR and the City	The first entity to find or be notified of possible AIS infestation contacts the MnDNR and NMCWD		The first entity to find or be notified of possible AIS infestation contacts the MnDNR, the City and NMCWD	Verifies AIS infestation	
<b>Communicate the type and potential extent of Infestation to all stakeholders (including those downstream)</b>	Collaborates with the MnDNR, City and disseminates information	Collaborates with the MnDNR, NMCWD and disseminates information	Collaborate with NMCWD, City and Stakeholders as needed to provide education materials and/or technical assistance.	Collaborates with the MnDNR, the City and NMCWD and disseminates information	MnDNR issues press release prior to or in conjunction with communication directly to stakeholders	
<b>Perform, or hire monitoring to determine the extent of infestation</b>	Collaborates with MnDNR, the City and MAISC regarding monitoring plan design and provides recommendations for contractor	Leads contractor contract administration in collaboration with NMCWD.		Collaborates with NMCWD, the City, MnDNR and MAISC	Collaborates with NMCWD, the City MAISC	Collaborates with NMCWD, MnDNR and the City, regarding monitoring plan design
<b>Determine whether isolation of the infestation is needed, and if so, isolate the infestation</b>	The NMCWD and the City will make a uniform decision after collaborating with MnDNR, MAISRC	The NMCWD and the City will make a uniform decision after collaborating with MnDNR, MAISRC		Collaborates with NMCWD, the City, MnDNR and MAISC	Collaborates with NMCWD, the City and MAISC	Collaborates with NMCWD, MnDNR and the City
<b>Collaborate with the MnDNR, MAISRC, and stakeholders to determine appropriate rapid response treatment/removal (e.g., chemical treatment or manual removal of AIS) and associated costs</b>	The NMCWD and the City will make a uniform decision after considering the recommendations from MnDNR, and MAISRC	The NMCWD and the City will make a uniform decision after considering the recommendations from MnDNR, and MAISRC		Collaborates with NMCWD, the City, MnDNR and MAISC	Collaborates with NMCWD, the City and MAISC	Collaborates with NMCWD, MnDNR and the City
<b>Obtain MnDNR and potentially USACOE treatment/removal permit</b>	Is copied on permit application and all communications	Obtains treatment and removal permit from MnDNR and potentially USACOE		Works with City to issue permit	Works with the City to issue permit	Collaborates with NMCWD, TRPD, MnDNR and the City as needed to provide technical information
<b>Perform additional pre-treatment monitoring, if required by MnDNR and/or USACOE permit</b>	Collaborates with NMCWD, City and MAISC regarding monitoring plan design	Leads contractor contract administration in collaboration with NMCWD.		Collaborates with NMCWD, the City, MnDNR and MAISC regarding monitoring requirements of permit	Collaborates with NMCWD, the City and MAISC regarding monitoring requirements of permit	Collaborates with NMCWD, MnDNR and the City regarding monitoring plan design and recommendations for a contractor.
<b>Hire contractor to perform AIS rapid response treatment/removal (e.g., chemical treatment of manual removal)</b>	Provides technical assistance with contract development	Leads contractor contract administration in collaboration with NMCWD.				
<b>Fund AIS treatment /removal</b>	Partners with City and Hennepin County to fund treatment	Partners with NMCWD and Hennepin County to fund treatment	Depending on professional guidance (MnDNR and others) consider providing Hennepin County AIS rapid response grant funding, to help fund the treatment or removal			
<b>Perform or hire contractor to perform post-treatment monitoring to determine treatment/removal effectiveness</b>	Collaborates with the City and MAISC and regarding monitoring plan design	Leads contractor contract administration in collaboration with NMCWD.		Collaborates with NMCWD, the City, MnDNR and MAISC regarding monitoring requirements of permit	Collaborates with NMCWD, the City and MAISC regarding monitoring plan design	Collaborates with NMCWD, MnDNR and the City regarding monitoring plan design and recommendations for a contractor.
<b>Communicate information about the AIS treatment/removal and results of AIS treatment/removal efforts to stakeholders, (including those downstream)</b>	Collaborates with the MnDNR and City and disseminates information to stakeholders and the public	Collaborates with the MnDNR and NMCWD and disseminates information to stakeholders and the public		Collaborates with NMCWD, the City regarding the development of communication material to be disseminated	Collaborates with NMCWD, the City regarding the development of communication material to be disseminated	
<b>Design and implement education program to help prevent future infestation</b>	Collaborates with the City and County and disseminates information to stakeholders and the public	Collaborates with NMCWD and County and disseminates information to stakeholders and the public	Consider providing Hennepin County AIS Prevention Aid grant funding, technical assistance and guidance for development of educational materials			

**Table 6. AIS Rapid Response Plan for Anderson (NW) Lake**

Activity	Partner Roles					
	NMCWD	City of Eden Prairie	Hennepin County	TRPD	MnDNR	Aquatic Plant Management Expert (e.g., MAISRC, Mankato State University)
<b>Notify MnDNR of AIS potential type of infestation (MnDNR verifies AIS Infestation)</b>	The first entity to find or be notified of possible AIS infestation contacts the MnDNR, TRPD and the City	The first entity to find or be notified of possible AIS infestation contacts the MnDNR, TRPD and NMCWD		The first entity to find or be notified of possible AIS infestation contacts the MnDNR, the City and NMCWD	Verifies AIS Infestation	
<b>Communicate the type and potential extent of infestation to all stakeholders (including those downstream)</b>	Collaborates with the MnDNR, TRPD and City and disseminates information to stakeholders and the public	Collaborates with the MnDNR, TRPD and NMCWD and disseminates information to stakeholders and the public	Collaborate with NMCWD, City, TRPD and Stakeholders as needed to provide education materials and/or technical assistance.	In conjunction with or immediately following MnDNR press release, communicates information about the infestation to all stakeholders and provides information to the City and NMCWD to communicate infestation to public	MnDNR issues press release prior to or in conjunction with communication directly to stakeholders	
<b>Perform, or hire monitoring to determine the extent of infestation</b>	Collaborates with MnDNR, the City, TRPD and MAISC regarding monitoring plan design	Collaborates with MnDNR, the City, TRPD and MAISC regarding monitoring plan design		Performs plant surveys and assists with sampling (snorkeling shallow water). TRPD could hire contractor to perform SCUBA surveys	Collaborates with NMCWD, the City, TRPD and MAISC	Provide research support and advice to NMCWD, the City, and TRPD regarding monitoring plan design as well a potential pre- and post-treatment survey on a contract basis
<b>Determine whether isolation of the infestation is needed, and if so, isolate the infestation</b>	Collaborates with MnDNR, the City, TRPD and MAISC	Collaborates with MnDNR, NMCWD, TRPD and MAISC		Makes decision after collaborating with NMCWD, the City, MnDNR and MAISC. If feasible, the TRPD will implement the isolation	Collaborates with NMCWD, City, TRPD and MAISC	Provide research support and advice to NMCWD, the City, and TRPD
<b>Collaborate with the MnDNR, MAISRC, and stakeholders to determine appropriate rapid response treatment/removal (e.g., chemical treatment or manual removal of AIS) and associated costs</b>	Collaborates with NMCWD, City, TRPD and MAISC	Collaborates with NMCWD, City, TRPD and MAISC		Facilitates the implementation of a rapid response effort with collaboration and input from MnDNR, NMCWD, the City and MAISC	Collaborates with NMCWD, City, TRPD and MAISC	Provide research support and advice to NMCWD, the City, and TRPD
<b>Obtain MnDNR treatment/removal permit</b>	Is copied on permit application and all communications	Is copied on permit application and all communications		Obtains treatment and removal permit from MnDNR	Works with TRPD to issue permit	Provide technical information and advice as needed advice to NMCWD, the City, and TRPD
<b>Perform additional pre-treatment monitoring, if required by MnDNR permit</b>	Collaborates with NMCWD, City, TRPD and MAISC regarding monitoring plan design	Collaborates with NMCWD, City, TRPD and MAISC regarding monitoring plan design		Performs plant surveys and assists with sampling (snorkeling shallow water). TRPD could hire contractor to perform SCUBA surveys		Provide research support and advice to NMCWD, the City, and TRPD regarding monitoring plan design as well a potential pre- and post-treatment surveys on a contract basis
<b>Hire contractor to perform AIS rapid response treatment/removal (e.g., chemical treatment of manual removal)</b>				Hires contractor or coordination of hiring contractor with the MnDNR		
<b>Fund AIS treatment /removal</b>	Partners with the City, TRPD and Hennepin County to fund treatment	Partners with NMCWD, TRPD and Hennepin County to fund treatment	Depending on professional guidance (MnDNR and others) consider providing Hennepin County AIS rapid response grant funding, to help fund the treatment or removal	Partners with NMCWD, TRPD and Hennepin County MnDNR to fund treatment		
<b>Perform or hire contractor to perform post-treatment monitoring to determine treatment/removal effectiveness</b>	Collaborates with NMCWD, City, TRPD and MAISC regarding monitoring plan design	Collaborates with NMCWD, City, TRPD and MAISC regarding monitoring plan design		Performs plant surveys and assists with sampling (snorkeling shallow water). TRPD could hire contractor to perform SCUBA surveys	Collaborates with NMCWD, City, TRPD, MAISC regarding monitoring plan design.	Provide research support and advice to NMCWD, the City, and TRPD regarding monitoring plan design as well a potential pre- and post-treatment survey on a contract basis
<b>Communicate information about the AIS treatment/removal and results of AIS treatment/removal efforts to stakeholders, (including those downstream)</b>	Collaborates with the TRPD and City and disseminates information to stakeholders and the public	Collaborates with the TRPD and NMCWD and disseminates information to stakeholders and the public		Works in collaboration with MnDNR and provides resulting information to NMCWD, the City, and MAISC		
<b>Design and implement education program to help prevent future infestation</b>	Collaborates with the City, County and TRPD and disseminates educational information to stakeholders and the public	Collaborates with NMCWD, County and TRPD and disseminates educational information to stakeholders and the public	Consider providing Hennepin County AIS Prevention Aid grant funding, technical assistance and guidance for development of educational materials	Collaborates with NMCWD, County and City to develop educational materials and provide resources within park property to disseminate information to the general public.		



**Table 8. AIS Rapid Response Plan for Penn Lake**

Activity	Partner Roles				
	NMCWD	City of Bloomington	Hennepin County	MnDNR	Aquatic Plant Management Expert (e.g., MAISRC, Mankato State University)
Notify MnDNR of potential type of AIS infestation (MnDNR verifies AIS infestation)	The first entity to find or be notified of possible AIS infestation contacts the MnDNR and the City	The first entity to find or be notified of possible AIS infestation contacts the MnDNR and NMCWD		Verifies AIS Infestation	
Communicate the type and potential extent of infestation to all stakeholders (including those downstream)	Collaborates with the MnDNR, City and disseminates information	Collaborates with the MnDNR, NMCWD and disseminates information	Collaborate with NMCWD, City and Stakeholders as needed to provide education materials and/or technical assistance.	MnDNR issues press release prior to or in conjunction with communication directly to stakeholders	
Perform, or hire monitoring to determine the extent of infestation	Collaborates with MnDNR, the City and MAISC regarding monitoring plan design and provides recommendations for contractor	Leads contractor contract administration in collaboration with NMCWD.		Collaborates with NMCWD, the City MAISC	Collaborates with NMCWD, MnDNR and the City, regarding monitoring plan design
Determine whether isolation of the infestation is needed, and if so, isolate the infestation	The NMCWD and the City will make a uniform decision after collaborating with MnDNR, MAISRC	The NMCWD and the City will make a uniform decision after collaborating with MnDNR, MAISRC		Collaborates with NMCWD, the City and MAISC	Collaborates with NMCWD, MnDNR and the City
Collaborate with the MnDNR, MAISRC, and stakeholders to determine appropriate rapid response treatment/removal (e.g., chemical treatment or manual removal of AIS) and associated costs	The NMCWD and the City will make a uniform decision after considering the recommendations from MnDNR, and MAISRC	The NMCWD and the City will make a uniform decision after considering the recommendations from MnDNR, and MAISRC		Collaborates with NMCWD, the City and MAISC	Collaborates with NMCWD, MnDNR and the City
Obtain MnDNR treatment/removal permit	Is copied on permit application and all communications	Obtains treatment and removal permit from MnDNR		Works with the City to issue permit	Collaborates with NMCWD, TRPD, MnDNR and the City as needed to provide technical information
Perform additional pre-treatment monitoring, if required by MnDNR permit	Collaborates with NMCWD, City and MAISC regarding monitoring plan design	Leads contractor contract administration in collaboration with NMCWD.		Collaborates with NMCWD, the City and MAISC regarding monitoring requirements of permit	Collaborates with NMCWD, MnDNR and the City regarding monitoring plan design and recommendations for a contractor.
Hire contractor to perform AIS rapid response treatment/removal (e.g., chemical treatment of manual removal)	Provides technical assistance with contract development	Leads contractor contract administration in collaboration with NMCWD.			
Fund AIS treatment /removal	Partners with City and Hennepin County to fund treatment	Partners with NMCWD and Hennepin County to fund treatment	Depending on professional guidance (MnDNR and others) consider providing Hennepin County AIS rapid response grant funding, to help fund the treatment or removal		
Perform or hire contractor to perform post-treatment monitoring to determine treatment/removal effectiveness	Collaborates with the City and MAISC and regarding monitoring plan design	Leads contractor contract administration in collaboration with NMCWD.		Collaborates with NMCWD, the City and MAISC regarding monitoring plan design	Collaborates with NMCWD, MnDNR and the City regarding monitoring plan design and recommendations for a contractor.
Communicate information about the AIS treatment/removal and results of AIS treatment/removal efforts to stakeholders, (including those downstream)	Collaborates with the MnDNR and City and disseminates information to stakeholders and the public	Collaborates with the MnDNR and NMCWD and disseminates information to stakeholders and the public		Collaborates with NMCWD, the City regarding the development of communication material to be disseminated	
Design and implement education program to help prevent future infestation	Collaborates with the City and County and disseminates information to stakeholders and the public	Collaborates with NMCWD and County and disseminates information to stakeholders and the public	Consider providing Hennepin County AIS Prevention Aid grant funding, technical assistance and guidance for development of educational materials		

**Table 9. AIS Rapid Response Plan for Lake Smetana**

Activity	Partner Roles				
	NMCWD	City of Eden Prairie	Hennepin County	MnDNR	Aquatic Plant Management Expert (e.g., MAISRC, Mankato State University)
Notify MnDNR of potential type of AIS infestation (MnDNR verifies AIS infestation)	The first entity to find or be notified of possible AIS infestation contacts the MnDNR and the City	The first entity to find or be notified of possible AIS infestation contacts the MnDNR and NMCWD		Verifies AIS Infestation	
Communicate the type and potential extent of infestation to all stakeholders (including those downstream)	Collaborates with the MnDNR, City and disseminates information	Collaborates with the MnDNR, NMCWD and disseminates information	Collaborate with NMCWD, City and Stakeholders as needed to provide education materials and/or technical assistance.	MnDNR issues press release prior to or in conjunction with communication directly to stakeholders	
Perform, or hire monitoring to determine the extent of infestation	Collaborates with MnDNR, the City and MAISC regarding monitoring plan design and provides recommendations for contractor	Leads contractor contract administration in collaboration with NMCWD.		Collaborates with NMCWD, the City MAISC	Collaborates with NMCWD, MnDNR and the City, regarding monitoring plan design
Determine whether isolation of the infestation is needed, and if so, isolate the infestation	The NMCWD and the City will make a uniform decision after collaborating with MnDNR, MAISRC	The NMCWD and the City will make a uniform decision after collaborating with MnDNR, MAISRC		Collaborates with NMCWD, the City and MAISC	Collaborates with NMCWD, MnDNR and the City
Collaborate with the MnDNR, MAISRC, and stakeholders to determine appropriate rapid response treatment/removal (e.g., chemical treatment or manual removal of AIS) and associated costs	The NMCWD and the City will make a uniform decision after considering the recommendations from MnDNR, and MAISRC	The NMCWD and the City will make a uniform decision after considering the recommendations from MnDNR, and MAISRC		Collaborates with NMCWD, the City and MAISC	Collaborates with NMCWD, MnDNR and the City
Obtain MnDNR treatment/removal permit	Is copied on permit application and all communications	Obtains treatment and removal permit from MnDNR		Works with the City to issue permit	Collaborates with NMCWD, TRPD, MnDNR and the City as needed to provide technical information
Perform additional pre-treatment monitoring, if required by MnDNR permit	Collaborates with NMCWD, City and MAISC regarding monitoring plan design	Leads contractor contract administration in collaboration with NMCWD.		Collaborates with NMCWD, the City and MAISC regarding monitoring requirements of permit	Collaborates with NMCWD, MnDNR and the City regarding monitoring plan design and recommendations for a contractor.
Hire contractor to perform AIS rapid response treatment/removal (e.g., chemical treatment of manual removal)	Provides technical assistance with contract development	Leads contractor contract administration in collaboration with NMCWD.			
Fund AIS treatment /removal	Partners with City and Hennepin County to fund treatment	Partners with NMCWD and Hennepin County to fund treatment	Depending on professional guidance (MnDNR and others) consider providing Hennepin County AIS rapid response grant funding, to help fund the treatment or removal		
Perform or hire contractor to perform post-treatment monitoring to determine treatment/removal effectiveness	Collaborates with the City and MAISC and regarding monitoring plan design	Leads contractor contract administration in collaboration with NMCWD.		Collaborates with NMCWD, the City and MAISC regarding monitoring plan design	Collaborates with NMCWD, MnDNR and the City regarding monitoring plan design and recommendations for a contractor.
Communicate information about the AIS treatment/removal and results of AIS treatment/removal efforts to stakeholders, (including those downstream)	Collaborates with the MnDNR and City and disseminates information to stakeholders and the public	Collaborates with the MnDNR and NMCWD and disseminates information to stakeholders and the public		Collaborates with NMCWD, the City regarding the development of communication material to be disseminated	
Design and implement education program to help prevent future infestation	Collaborates with the City and County and disseminates information to stakeholders and the public	Collaborates with NMCWD and County and disseminates information to stakeholders and the public	Consider providing Hennepin County AIS Prevention Aid grant funding, technical assistance and guidance for development of educational materials		

**Table 10. AIS Rapid Response Plan for Anderson (SE) Lake**

Activity	Partner Roles				
	NMCWD	City of Bloomington	Hennepin County	MnDNR	Aquatic Plant Management Expert (e.g., MAISRC, Mankato State University)
<b>Notify MnDNR of potential type of AIS infestation (MnDNR verifies AIS infestation)</b>	The first entity to find or be notified of possible AIS infestation contacts the MnDNR and the City	The first entity to find or be notified of possible AIS infestation contacts the MnDNR and NMCWD		Verifies AIS Infestation	
<b>Communicate the type and potential extent of infestation to all stakeholders (including those downstream)</b>	Collaborates with the MnDNR, City and disseminates information	Collaborates with the MnDNR, NMCWD and disseminates information	Collaborate with NMCWD, City and Stakeholders as needed to provide education materials and/or technical assistance.	MnDNR issues press release prior to or in conjunction with communication directly to stakeholders	
<b>Perform, or hire monitoring to determine the extent of infestation</b>	Collaborates with MnDNR, the City and MAISC regarding monitoring plan design and provides recommendations for contractor	Leads contractor contract administration in collaboration with NMCWD.		Collaborates with NMCWD, the City MAISC	Collaborates with NMCWD, MnDNR and the City, regarding monitoring plan design
<b>Determine whether isolation of the infestation is needed, and if so, isolate the infestation</b>	The NMCWD and the City will make a uniform decision after collaborating with MnDNR, MAISRC	The NMCWD and the City will make a uniform decision after collaborating with MnDNR, MAISRC		Collaborates with NMCWD, the City and MAISC	Collaborates with NMCWD, MnDNR and the City
<b>Collaborate with the MnDNR, MAISRC, and stakeholders to determine appropriate rapid response treatment/removal (e.g., chemical treatment or manual removal of AIS) and associated costs</b>	The NMCWD and the City will make a uniform decision after considering the recommendations from MnDNR, and MAISRC	The NMCWD and the City will make a uniform decision after considering the recommendations from MnDNR, and MAISRC		Collaborates with NMCWD, the City and MAISC	Collaborates with NMCWD, MnDNR and the City
<b>Obtain MnDNR treatment/removal permit</b>	Is copied on permit application and all communications	Obtains treatment and removal permit from MnDNR		Works with the City to issue permit	Collaborates with NMCWD, TRPD, MnDNR and the City as needed to provide technical information
<b>Perform additional pre-treatment monitoring, if required by MnDNR permit</b>	Collaborates with NMCWD, City and MAISC regarding monitoring plan design	Leads contractor contract administration in collaboration with NMCWD.		Collaborates with NMCWD, the City and MAISC regarding monitoring requirements of permit	Collaborates with NMCWD, MnDNR and the City regarding monitoring plan design and recommendations for a contractor.
<b>Hire contractor to perform AIS rapid response treatment/removal (e.g., chemical treatment of manual removal)</b>	Provides technical assistance with contract development	Leads contractor contract administration in collaboration with NMCWD.			
<b>Fund AIS treatment /removal</b>	Partners with City and Hennepin County to fund treatment	Partners with NMCWD and Hennepin County to fund treatment	Depending on professional guidance (MnDNR and others) consider providing Hennepin County AIS rapid response grant funding, to help fund the treatment or removal		
<b>Perform or hire contractor to perform post-treatment monitoring to determine treatment/removal effectiveness</b>	Collaborates with the City and MAISC and regarding monitoring plan design	Leads contractor contract administration in collaboration with NMCWD.		Collaborates with NMCWD, the City and MAISC regarding monitoring plan design	Collaborates with NMCWD, MnDNR and the City regarding monitoring plan design and recommendations for a contractor.
<b>Communicate information about the AIS treatment/removal and results of AIS treatment/removal efforts to stakeholders, (including those downstream)</b>	Collaborates with the MnDNR and City and disseminates information to stakeholders and the public	Collaborates with the MnDNR and NMCWD and disseminates information to stakeholders and the public		Collaborates with NMCWD, the City regarding the development of communication material to be disseminated	
<b>Design and implement education program to help prevent future infestation</b>	Collaborates with the City and County and disseminates information to stakeholders and the public	Collaborates with NMCWD and County and disseminates information to stakeholders and the public	Consider providing Hennepin County AIS Prevention Aid grant funding, technical assistance and guidance for development of educational materials		

**Table 11. AIS Rapid Response Plan for Anderson (SW) Lake**

Activity	Partner Roles					
	NMCWD	Cities of Bloomington and Eden Prairie	Hennepin County	TRPD	MnDNR	Aquatic Plant Management Expert (e.g., MAISRC, Mankato State University)
<b>Notify MnDNR of AIS potential type of infestation (MnDNR verifies AIS Infestation)</b>	The first entity to find or be notified of possible AIS infestation contacts the MnDNR, TRPD and the City	The first entity to find or be notified of possible AIS infestation contacts the MnDNR, TRPD and NMCWD		The first entity to find or be notified of possible AIS infestation contacts the MnDNR, the City and NMCWD	Verifies AIS Infestation	
<b>Communicate the type and potential extent of infestation to all stakeholders (including those downstream)</b>	Collaborates with the MnDNR, TRPD and City and disseminates information to stakeholders and the public	Collaborates with the MnDNR, TRPD and NMCWD and disseminates information to stakeholders and the public	Collaborate with NMCWD, City, TRPD and Stakeholders as needed to provide education materials and/or technical assistance.	In conjunction with or immediately following MnDNR press release, communicates information about the infestation to all stakeholders and provides information to the City and NMCWD to communicate infestation to public	MnDNR issues press release prior to or in conjunction with communication directly to stakeholders	
<b>Perform, or hire monitoring to determine the extent of infestation</b>	Collaborates with MnDNR, the City, TRPD and MAISC regarding monitoring plan design	Collaborates with MnDNR, the City, TRPD and MAISC regarding monitoring plan design		Performs plant surveys and assists with sampling (snorkeling shallow water). TRPD could hire contractor to perform SCUBA surveys	Collaborates with NMCWD, the City, TRPD and MAISC	Provide research support and advice to NMCWD, the City, and TRPD regarding monitoring plan design as well a potential pre- and post-treatment survey on a contract basis
<b>Determine whether isolation of the infestation is needed, and if so, isolate the infestation</b>	Collaborates with MnDNR, the City, TRPD and MAISC	Collaborates with MnDNR, NMCWD, TRPD and MAISC		Makes decision after collaborating with NMCWD, the City, MnDNR and MAISC. If feasible, the TRPD will implement the isolation	Collaborates with NMCWD, City, TRPD and MAISC	Provide research support and advice to NMCWD, the City, and TRPD
<b>Collaborate with the MnDNR, MAISRC, and stakeholders to determine appropriate rapid response treatment/removal (e.g., chemical treatment or manual removal of AIS) and associated costs</b>	Collaborates with NMCWD, City, TRPD and MAISC	Collaborates with NMCWD, City, TRPD and MAISC		Facilitates the implementation of a rapid response effort with collaboration and input from MnDNR, NMCWD, the City and MAISC	Collaborates with NMCWD, City, TRPD and MAISC	Provide research support and advice to NMCWD, the City, and TRPD
<b>Obtain MnDNR treatment/removal permit</b>	Is copied on permit application and all communications	Is copied on permit application and all communications		Obtains treatment and removal permit from MnDNR	Works with TRPD to issue permit	Provide technical information and advice as needed advice to NMCWD, the City, and TRPD
<b>Perform additional pre-treatment monitoring, if required by MnDNR permit</b>	Collaborates with NMCWD, City, TRPD and MAISC regarding monitoring plan design	Collaborates with NMCWD, City, TRPD and MAISC regarding monitoring plan design		Performs plant surveys and assists with sampling (snorkeling shallow water). TRPD could hire contractor to perform SCUBA surveys		Provide research support and advice to NMCWD, the City, and TRPD regarding monitoring plan design as well a potential pre- and post-treatment surveys on a contract basis
<b>Hire contractor to perform AIS rapid response treatment/removal (e.g., chemical treatment of manual removal)</b>				Hires contractor or coordination of hiring contractor with the MnDNR		
<b>Fund AIS treatment /removal</b>	Partners with the City, TRPD and Hennepin County to fund treatment	Partners with NMCWD, TRPD and Hennepin County to fund treatment	Depending on professional guidance (MnDNR and others) consider providing Hennepin County AIS rapid response grant funding, to help fund the treatment or removal	Partners with NMCWD, TRPD and Hennepin County MnDNR to fund treatment		
<b>Perform or hire contractor to perform post-treatment monitoring to determine treatment/removal effectiveness</b>	Collaborates with NMCWD, City, TRPD and MAISC regarding monitoring plan design	Collaborates with NMCWD, City, TRPD and MAISC regarding monitoring plan design		Performs plant surveys and assists with sampling (snorkeling shallow water). TRPD could hire contractor to perform SCUBA surveys	Collaborates with NMCWD, City, TRPD, MAISC regarding monitoring plan design.	Provide research support and advice to NMCWD, the City, and TRPD regarding monitoring plan design as well a potential pre- and post-treatment survey on a contract basis
<b>Communicate information about the AIS treatment/removal and results of AIS treatment/removal efforts to stakeholders, (including those downstream)</b>	Collaborates with the TRPD and City and disseminates information to stakeholders and the public	Collaborates with the TRPD and NMCWD and disseminates information to stakeholders and the public		Works in collaboration with MnDNR and provides resulting information to NMCWD, the City, and MAISC		
<b>Design and implement education program to help prevent future infestation</b>	Collaborates with the City, County and TRPD and disseminates educational information to stakeholders and the public	Collaborates with NMCWD, County and TRPD and disseminates educational information to stakeholders and the public	Consider providing Hennepin County AIS Prevention Aid grant funding, technical assistance and guidance for development of educational materials	Collaborates with NMCWD, County and City to develop educational materials and provide resources within park property to disseminate information to the general public.		

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