

## AIS Extended Operating Team Planned Goals with Accomplishments for 2022 & Plans for 2023; Version 10-27-2022

### Key:

**HC AIS** = Hubbard County Environmental Services, Environmental Specialist – AIS Program

**HC COLA** = Hubbard County Coalition of Lake Associations AIS Operating Team and Others

**Both** = HC AIS & HC COLA working together on various aspects of the Planned Goal and Accomplishments

Responsibility	Public Awareness Goals for 2022	Accomplished in 2022	Plans for 2023
1) HC AIS	Continue Radio PSAs on KDKK, KXKK, KPRM Radio	Yes	Yes & plan to emphasize decontamination
2) HC AIS	Present Hubbard County AIS Program Annually	Yes – HC Township & HC COLA meetings	Yes
3) Both	Billboard partners on Major Hwy: Clean Drain Dry	Yes – billboard on Hwy 71 S of Park Rapids lighted with vinyl sign image of “Big Lake”	Yes – TBD – billboard availability on Hwy 71? Or Hwy 34? / Vinyl sign image: “Angler”
4) Both	Park Theater Ad partners – Eurasian Watermilfoil Ad carried over from 2020 with no additional cost	Yes – when theater reopened 5/28/21 - the pre-covid ad ran until 1/28/22	No
5) Both	Continue with AIS ID card partnership w/Decon #, 21-day dry time & bait disposal. Need to reprint for 2022.	Yes – updated AIS ID ½ page card. Printed 5000 on waterproof stock. Restocked kiosks.	Continue providing AIS ID cards. Print the Fish ID postcard with Decon phone number.
6) Both	Partner in outreach to engage resort, campground, short-term rental owners (STR), area businesses like bait shops, residents, plus visitors through PR Chamber of Commerce website, Downtown Business Assoc website, & Park Rapids Enterprise Resident’s Guide plus articles.	Yes – HC COLA created resort/campground packets & distributed thru Chamber & lake assocs. Emailed STRs owners & offered unit packets; continue outreach to new STRs. Updated HC COLA website & utilize QR code. <b>Hubbard County’s “Good Neighbor” Guide for STRs contains some AIS prevention info.</b>	Yes – HC COLA to continue outreach with updated hospitality unit packets with lake associations and chamber and refresh websites. County continues use of “Good Neighbor” Guide for STRs. <b>County resort/campground AIS prevention outreach begins after 3-year hiatus.</b>
7) Both	Use up any remaining printed bait bag inventory where Bait shops were provided 2000 complimentary printed bait bags in 2021. The bait bags’ community-based social marketing (CBSM) message: Don’t let it loose! Toss it or Keep it with well/tap water or bottled water.	Each bait shop utilized their remaining inventory of 2000 bait bags. Watercraft Inspectors used remaining printed bags. Lake Assocs continued use of posters in kiosks. HC COLA educated at fair; see back of AIS ID card.	Hubbard County Environmental Services, Environmental Specialist – AIS Program is checking into new bait bag performance and cost with Wildlife Forever; heavier weight and updated messaging; use TBD.
8) HC COLA	Fair – Educational Booth in the Environmental Education Building	Yes – Educated on AIS, Stop Spiny & Stop Starry / CD3 units. Hosted “Get The Lead Out” tackle exchange & provided 242 MPCA lead free tackle samples. Turned in 4 pounds lead.	Updating HC COLA Fair materials. Focus education on one or two key areas per year. Incorporate children’s perspective in the key areas in addition to adult focus too.
9) HC COLA	Expand number of lakes monitoring for adult zebra mussels using zebra mussel settlement samplers (ZMSS) that circle each lake (north, south, east, west)	Yes; provided ZMSS to lake assocs & at fair to citizens. “Eyes on the Water” email list grows. Incorporated zebra mussel safari pilot docks .	Adding in monitoring for spiny waterflea by trolling with fishline focus and also UMN SWF surveillance with special plankton net.
10) HC COLA	Reach more riparian owners using community-based social marketing (CBSM) ads on AIS Prevention techniques for Gear & Equipment, Bait & Free Decon	Yes – Community-based social marketing ad with decon #: Discovery Guide, Residents Guide & Plat Map & Downtown Business Assoc website – “Keep Your Waters Pristine”	Review CBSM messaging on ad. Consider if social norming techniques may be incorporated also. Update ad as needed.

11) HC COLA	Articles in local papers re AIS Prevention to Protect and Preserve Lakes	Yes – PR Enterprise articles include: AIS Program, starry stonewort, purple loosestrife, aquarium dumping, etc.	Yes – continue monthly PR Enterprise HC COLA Column with some of the monthly articles focused on AIS
12) HC COLA	Updated Online AIS Curriculum for Hubbard County lakes area that Otter Tail has great success with	Reached out once again to HC SWCD for use in their online educ & to science teachers	Will use with 4-Hers as learn about loons, habitat, & build nesting platform class
13) HC COLA	Educational offerings for the public include 1) AIS Prevention Education with speaker / info available; email HCColaMN@gmail.com 2) Shoreline Monitoring Garage Talk for Early Detection of AIS for Lake Assocs and 3) Coaching on Aquatic Plant ID Dockside / can include Kidz Zone too	HC COLA Co-Sponsored 6/9/22 MAISRC Update at M-State, Lake Assoc's HC COLA Rep provides info at their mtgs; COLA Mtg AIS educ open to public in Apr, July & Oct 2022; Newsletters; Garage Talk on Shoreline Monitoring in July; MAISRC Cattail Research Site Visit in Aug.	Yes
<b>Responsibility</b>	<b>Prevention Goals for 2022</b>	<b>Accomplished in 2022</b>	<b>Plans for 2023</b>
1) HC AIS	Conduct watercraft inspections at 34 different public accesses throughout Hubbard County.	Yes – Staffed inspectors for 16,170 hours at 34 public accesses at 32 different lakes/rivers. Had 8,624 hours funded through AIS Prevention funds, 7,299 hours funded through Lake Assns. and Townships. There were roughly 22,270 inspections (will be a few more inspections once get final uploads from mid Oct to end of Oct).	Yes – Plan for watercraft inspection schedule similar to 2022 number of hours.
2) HC AIS	Operate Hubbard County FREE Watercraft Decontamination Station with convenient call ahead: 218-252-6738	Yes – Staffed decontamination station May through September. Total of 83 decontaminations.	Yes – Operate decontamination station May through September. On call seven days a week 10 AM – 6 PM.
3) Both	Monitor Fishing Tournament Activity to Minimize AIS Risk. Consider special inspection plans when justified.	Yes – Lake Assocs indicate annual tournaments for HC ESD each January for planning of watercraft inspection schedule. Check DNR tournament list and permits through Hubbard County Sheriff's office. This year, 2 Inspectors were present to help at Potato Lake tournament in Aug at 6 AM.	Yes
4) Both	AIS Volunteer Training; communicate process & use	Info provided to lake associations on the DNR AIS volunteers/Ambassadors may take online training Mar/Apr 2022. Require background check and AIS Ambassador Grant Agreement with DNR before you can prearrange location, date/time to volunteer	Yes

5) Both	Explore the use of tools - modeling software like AIS Explorer by MAISRC, CD3 units, I-Lid experience, other...	Yes – Piloted 13 aqua weed sticks (AWS) for season at weedy accesses on DNR sign post with permission from the DNR Parks & Trails. Seven AWS were retrieved in autumn successfully with a 55% success rate. Positive comments on AWS use from public. Participating in Stop Starry mtgs with 3 counties using CD3s thru grant with MLRA on Starry Stonewort accesses; learning from them what is involved in CD3 maintenance throughout the season and entire life cycle.	Yes – Expand aqua weed stick (AWS) pilot to Hubbard trailer accesses (71). Explore AWS use by resorts with accesses.  Research and learn from other’s successful use of drone technology, sonar use, cold and hot-water rinse stations at accesses, etc. Utilize new features being deployed in AIS Explorer by MAISRC.
<b>Responsibility</b>	<b>Early Detection Goals for 2022</b>	<b>Accomplished in 2022</b>	<b>Plans for 2023</b>
1) Both	Starry Trek Search for Starry Stonewort & other AIS	Yes – 28 public accesses checked at 24 lakes. No new, unknown AIS found.	Yes - increase volunteers to sample more lakes; invite kids / parents – reaching out to groups desiring community service hrs.
2) HC COLA	Continue zebra mussel veliger sampling on area lakes and analyze water sample for spiny waterflea also	Yes –9 lakes analyzed for spiny waterflea (SWF); none found. 23 lakes sampled for Zebra Mussel Veligers (ZMV); none detected.	Yes –expand LA sampling for ZMV & SWF with additional surveillance techniques. Participate in eDNA pilot with MAISRC.
3) HC COLA	Expand lakes monitoring - property owners place zebra mussel settlement samplers on docks & check and report on “Eyes on the Water” Survey in autumn.	Yes – more ZMSS placement by LAs citizens. Kabekona and Long AIS Detectors participating in SWF Surveillance Pilot. Twin Lakes lakeshore owner with DNR approved management of small area of cattails is sharing educ. HC COLA team attended MAISRC site visit of Cattail Removal Area in Detroit Lakes which is a 2-year research proj. Shared video created by Jon Dennis, Spider LA on purple loosestrife removal with winch.	Yes – plus expand knowledge base on wetland / water’s edge invasives such as purple loosestrife, phragmites, and invasive non-native cattails.
4) HC COLA	Promote lakes participating in aquatic vegetation shoreline monitoring/meanders like Lake Belle Taine program – 2x/yr to detect CLP in mid-June and EWM & SSW in mid-Aug plus look for any ZM clinging to veg	Yes – Lake Belle Taine hosted shoreline monitoring discussion for lakes interested in mid-July. HC COLA mbrs in aquatic veg ID workshop at Cass Lake focused on SSW.	Yes - continue to encourage LAs to adopt shoreline monitoring; training / coaching available with HC COLA’s certified MAISRC / MN Extension AIS Detector volunteers.
<b>Responsibility</b>	<b>Rapid Response &amp; Containment Goals for 2022</b>	<b>Accomplished in 2022</b>	<b>Plans for 2023</b>
1) HC AIS	Belle Taine: Pontoon with SeaLegs exiting with Zebra Mussels in 2021 after wk on lake; ZM likely transported from Alex area where pontoon used.	Lake Belle Taine AIS Detector; BLA examining if any after-effects with additional ZMSS and veliger sampling & educ of new resort owner summer 2022. Nothing detected in 2022.	Yes: Observe / Test / continue shoreline monitoring, ZMSS and veliger sampling for early detection

2) HC AIS	Lake Plantagenet Boat about to enter the lake with ZM on dried aquatic vegetation in 2021. Once cleaned off, then watercraft inspector allowed entry. Continue vigilance with watercraft inspections in 2022.	A boat coming to Plantagenet from Wolf Lake had vegetation with small ZMs wrapped in trolling motor that the inspector detected. A trailer at access found to have ZM remains on bunk. CO discussed with trailer owner; last on Leech Lake.	Yes - Continue Watercraft Inspections.
3) HC AIS	Maintain existing AIS Response fund for initial AIS treatments - not adding contributions annually though	Didn't have new AIS infestations in 2022.	Yes
<b>Responsibility</b>	<b>Mitigation &amp; Management Goals for 2022</b>	<b>Accomplished in 2022</b>	<b>Plans for 2023</b>
1) HC COLA	Individual lakes will continue to manage their existing infestations. LAs apply for DNR AIS Grants / other aid. HC COLA collaborates in AIS prevention & techniques.	Yes – See lake assoc actions below. Presented “Stop Starry Stonewort” powerpoint & CD3 locations, 7/28/2022.	Yes; keep eye on management research re faucet snail / mystery snail mitigation opportunities. Suggested topic to MAISRC.
2) Long Lake – ZM 2020	Continue the education on AIS prevention / containment with Decon suggested to lakeshore owners for outgoing and incoming boats, 21 day dry time docks/lift and use of the Aquatic Vegetation Removal Stations at South & North Accesses; Use 18 plankton net surveys for zebra mussel veligers detection & vegetation sampling at the high risk accesses & vegetation / shoreline monitoring in all neighborhoods around lake in littoral area.	Aqua weed sticks used at 3 public accesses and 2 resorts. Updated plastic AIS ID cards mailed to all lakeshore owners (contains Decon number). Continued “Eyes on the Water” program with over 30 volunteers & pilot 14 MAISRC zebra mussel settlement samplers. RMB analyzed 15 veliger plankton tows. No ZM / Veligers or SWF reported. Spiny Waterflea Surveillance pilot; no SWF.	Yes - follow the MAISRC research, participate in pilots plus continue all noted containment efforts, prevention endeavors and early detection sampling / monitoring on ZM, veligers, SWF and other AIS. Update kiosks with new, fresh community-based social marketing materials / posters to engage boaters.
3) Garfield – ZM 2017	22 ZMSS samplers around the lake that report annually if ZM are found. So far - no adult ZM found at all, just veligers on 2 plankton net samples 2 years.	No ZMV found in plankton net survey 2022. No issues reported on the 20 zebra mussel settlement samplers. Educ on AIS continues.	Yes - continue AIS containment and prevention education program.
4) Bad Axe – EWM 2017	Contain EWM and prevent the spread within the lake and out of the lake. Hot water pressure washer used to clean boats going in / out of lake at resort access. Montana univ – dna determination 2021.	Bad Axe Lake Assoc volunteers do some shoreline monitoring. Hire survey of EWM in mid-July. Treatment of ProcellaCOR applied by PLM same day as Big Mantrap, 9/26/22.	Yes - continue AIS containment, decons by resort, & prevention education program. Plan to increase shoreline monitoring by volunteers, similar to Belle Taine model.
5) Big Mantrap – EWM 2020	Treated Eurasian Watermilfoil in 2020 with hand pulling and chemicals treatment. Treatment not necessary in 2021; small piece of EWM found near access then but no additional EWM detected with rake toss method. Continue AIS containment and prevention education and watercraft inspection schedule through end of Oct.	Checked EWM growth in mid-July. Interspersed with native vegetation and camouflages EWM so difficult to hand pull. Treatment determined to be necessary; ProcellaCOR applied by PLM out of Brainerd on 9/26/2022. BMLA AIS Detector attended shoreline monitoring training on Belle Taine.	Yes - determine if treatment needed in 2023. Begin shoreline monitoring with volunteers in specific areas similar to Belle Taine model; too much shoreline to do entire lake though.
6) Portage – CLP 2003	Continue monitoring for curly leaf pondweed (CLP) and treat annually as needed. In 2021, 12 nearshore treatments with DNR permit for each & 1 lake survey. PLA spent \$125,945 from 2003 thru 2021 thus far.	Near shore CLP was treated. Plus PLM determined they wanted to deal with some individual owners for treatment & payment as other vegetation often hiding in CLP.	PLM (Professional Lake Management) did lake survey (\$775). An area of open water with CLP will be treated in 2023 and paid for by the Portage Lake Association.

7) Fish Hook - CLP	Locate CLP to hand pull and/or treat if detected again.	CLP not detected at this time.	Continue to Monitor for CLP; hand pull & treat if needed.
8) Wolf Lake – SSW 2018 & ZM 2014	Contain the spread of Starry Stonewort and ZM within the lake and movement of SSW and ZM to other lakes. Monitor kiosk.	South Big Wolf Lake Association placed the additional buoys between shore and the warning buoys placed by Hubbard Sheriff's team to delineate where to steer boats in channel at undeveloped DNR WMA access. DNR delineated and hired hand-pulling SSW.	Beltrami County placing CD3 unit from the MLR grant at the main Wolf Lake public water access with vacuum / blower. Installation approval being determined by DNR.
<b>Responsibility</b>	<b>Administration Goals for 2022</b>	<b>Accomplished in 2022</b>	<b>Plans for 2023</b>
1) Both	AIS Extended Operating Team continues to support a healthy and effective County-wide program. Work across county boundaries as the need arises.	Yes	Yes