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Aquatic and Terrestrial Invasive Species Study Report

Northern States Power Company Gile Flowage Storage Project Montreal, Wisconsin GAI Project Number: R220323.01 | FERC No. 15055 September 2022



Prepared on behalf of: Mead & Hunt 1702 Lawrence Drive De Pere, Wisconsin 54115

Prepared by: GAI Consultants, Inc. 3313 S Packerland Drive, Suite E De Pere, Wisconsin 54115

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1.0 Project Overview

The Gile Flowage Storage Project (Project), Federal Energy Regulatory Commission (FERC) No. 15055, is located in the Towns of Pence and Carey, and the City of Montreal, in Iron County, Wisconsin (Figure 1). The Project is owned, operated, and maintained by Northern States Power Company, a Wisconsin corporation (NSPW or Applicant). The Applicant is seeking an original license for the Project and must submit a Final License Application (FLA) by August 18, 2023. The FLA will include an evaluation of botanical resources, including invasive species, and the potential impacts to these resources associated with Project operations. The Friends of the Gile Flowage, River Alliance of Wisconsin, and Wisconsin Department of Natural Resources (WDNR) requested the Applicant complete an invasive species study as part of the licensing process. On the behalf of Mead & Hunt, GAI is pleased to submit the results of an Aquatic and Terrestrial Invasive Species Study (Study) conducted June 13-14, 17, and 22-23; and July 26-28, 2022 to fulfill this request. This Study report provides baseline data on native species and aquatic and terrestrial invasive species and includes the following:

- Aquatic plant surveys two sampling events conducted in June and late-July,
- Water tow samples collected during the late-July survey,
- Sediment samples collected during the June survey, and
- Terrestrial upland survey conducted during the late-July survey.

2.0 Introduction

The Gile Flowage (Gile or Flowage) is a 3,138-acre flowage in the Montreal River Watershed with a maximum depth of 25 feet. Land cover within the watershed is primarily comprised of northern hardwood forest and wetland. The Gile is a headwater storage reservoir that empties into the West Fork of the Montreal River and is essential to the operation of NSPW's two downstream hydropower plants. Water quality is considered good, and all three reaches of the Montreal River include trout waters.

Invasive species pose one of the primary threats to aquatic ecosystems. They are defined as nonnative species that, when introduced cause, or are likely to cause, harm to the environment, human health, or the economy. Invasive plant species can displace native plant populations, restrict boating, reduce wildlife habitat, and cause nutrient imbalance in a waterbody. Once established invasive species can be transferred downstream by recreationists and migrating wildlife.

This Study was conducted to assess the presence of known aquatic and terrestrial invasive species and identify any new invasive species in the Project area. The Study encompassed the Gile Flowage within the Project's existing and proposed boundaries and included aquatic and terrestrial plants and select aquatic invertebrates. The study area also included the reservoir shoreline as well as the shoreline of the islands. This report summarizes the results of the 2022 aquatic and terrestrial plant surveys, water samples, and sediment samples.

3.0 Methodology

Prior to performing the field work, GAI reviewed the known and historic status of invasive species at the Project. Prior to this Study, only limited information was available regarding invasive species within the Project boundary. The WDNR indicated that banded mystery snails (*Vivaparus georgianus*), Chinese mystery snails (*Cipangopaludina chinensis*), reed canary grass (*Phalaris arundinacea*), spiny water flea (*Bythotrephes longimanus*), and purple loosestrife (*Lythrum salicaria*) have been observed at Gile Flowage.

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3.1 Upstream and Downstream Inundated Areas

3.1.1 Aquatic Plant Survey

Aquatic plants were sampled by approximating the WDNR's Point-Intercept protocols as listed in *Recommended Baseline Monitoring of Aquatic Plants in Wisconsin* (WDNR 2019). Two sampling surveys were completed: one on June 13-14, 17, and 22-23; and one on July 26-28, 2022. The WDNR provided a grid of sample points for Gile Flowage to implement during the study (Figure 2). The grid was comprised of 957 sample points distributed evenly throughout the flowage. Each sampling point was located using a boat and a Trimble R1 GNSS Receiver and GPS device and was assessed for sample feasibility.

Points that could not be sampled were categorized as follows:

- Non-navigable (due to thick emergent plant growth, shallow water, or safety),
- Terrestrial (point located in an upland area),
- Obstacle (e.g., dock, rocks, fallen trees, etc.), or
- Too Deep (i.e., over 15 feet deep in June; over greatest depth of plant growth in July)

Points were sampled using a double-sided rake mounted on a pole. The rake was lowered until is rested gently on the lake bottom, twisted twice, then raised straight up out of the water. At each sampled point, aquatic plant species' presence and density were collected (Figures 3 and 4, Attachments A and B). Plant density was measured by rake fullness (Figure 5). Areas not captured by the point-intercept grid were monitored for the species listed in the WDNR aquatic invasive rapid response species list (WDNR 2016). No permanent vouchers were collected. Photos taken during the Study are included in Attachment C.

Additional information on bed substrates and depths were collected at points with water depths less than 15 feet in June in order to categorize depth and substrate. Substrate was categorized using nine substrate types: clay, silt, sand, gravel, cobble, boulder, bedrock, wood, or organic. In July, the maximum depth of colonization (MDC) was determined by three empty rake retrievals in different areas at the same depth. Once the MDC was determined, points where water depth was greater than the MDC were not sampled.

3.1.2 Water Samples

To monitor for the presence of zebra mussels (*Dreissena polymorpha*), two water samples, one in the reservoir and one in the tailwater, were collected during the late-July survey by approximating WDNR monitoring protocol for zebra mussels (Figure 1, WDNR 2020). A 64-micron mesh zooplankton net was used to collect the zebra mussel veliger sample. For the reservoir sample, a horizontal tow was conducted by lowering the net into the water so that the top of the net was fully submerged, and the bottom of the net was not touching the bottom or hypolimnion. With the net in this position, the boat was driven backwards slowly (about 2 miles per hour) for two minutes.

Shallow water and fast flows at the tailwater locations prevented the use of a boat, therefore, the sampling method was adjusted accordingly. The pool below the dam was accessed on foot. The plankton net was positioned in the current, such that the top of the net was submerged while the bottom of the net remained above the bottom substrate. The net was held in this position with water flowing through for two minutes to collect the water sample.

While raising the zooplankton net from the water, the net was rinsed from the outside so that the entire sample would be washed into the collection cup. For each sample, as much water as possible was decanted from the collection cup. The final sample was poured into a quart-sized sample bottle and preserved with 95% ethanol at a 4:1 ethanol to sample ratio. The preserved



water samples were delivered to the Wisconsin State Laboratory of Hygiene in Madison, Wisconsin on August 11, 2022, as requested by the WDNR invasive species coordinator, to be analyzed for zebra mussel veligers.

Spiny water fleas (*Bythotrephes longimanus*) are already known to be present in Flowage waters, therefore, no additional water samples were collected for this species. However, it should be noted that spiny water fleas, which can be seen without magnification, were observed within the reservoir water sample collected for zebra mussels.

3.1.3 Sediment Samples

To monitor for invasive macroinvertebrates, sediment samples were collected at five public access sites: Sucker Hole Boat Landing, the 4-H landing off of Spring Camp Rd., Gile Park Landing, County Hwy C Landing, and the access on the east side of the road opposite from the County C Landing (Figure 1). A shovel was used to scoop approximately six inches of sediment into a 10-inch Tetra Pond Planter Basket, with a 1/32nd inch mesh (Figure 6). Fine sediment was flushed out of the basket and the remaining materials were examined for Asian clam (*Corbicula fluminea*), faucet snail (*Bithynia tentaculate*), New Zealand mud snail (*Potamopyrgus antipodarum*), Malaysian trumpet snail (*Melanoides tuberculata*), rusty crayfish (*Orconectes rusticus*), and other invasive macroinvertebrates. The areas around these access sites were also visually examined for live snails, crayfish, and shells.

3.2 Terrestrial Upland Areas

The upland shoreline adjacent to the reservoir (including the islands) and upland areas owned by NSPW that included Project facilities and/or NSPW-owned formal recreation sites, were surveyed in late-July using two methods described below.

3.2.1 Upland Shorelines

Upland shoreline areas, including islands, were studied by GAI on July 25, 26, and 27, 2022 (Attachment D). The upland shoreline was surveyed by boat or on foot where the use of a boat was not feasible. While the boat motored slowly along the shoreline, an overall characterization of the terrestrial plant composition was made using the *Wisconsin Natural Heritage Inventory (NHI) Recognized Natural Communities Working Document* (Epstein et al. 2007). Shoreline plant composition was studied within a 10-meter riparian zone visible from open water.

The reservoir shoreline survey, including 26 islands, was divided into 17 segments (Figure 7) based on changes in land use or vegetative communities. When plants included in the NR 40 list were observed, the species type, location, and length of infested shoreline were identified and mapped using a Trimble R1 GNSS Receiver and GPS device. Relative abundance of each observed species within each segment was determined using the Daubenmire Classification Scheme Cover Ranking System. This system provides an estimate of the percent foliage cover as would be observed from above the vegetation. This ranking system was used to estimate relative abundance because it reduces the influence of individual bias in estimating foliage cover and can be applied to the relative size and length of a given segment of study (Daubenmire 1959). See Table 1 below for an overview of the Daubenmire Classification Scheme Cover Ranking System.

Table 1

Daubenmire Classification Scheme Cover Ranking System

Foliage Percent Cover	Rank
5-25	2
25-50	3
50-75	4
75-95	5
95-100	6

3.2.2 Upland Terrestrial Areas

One upland area owned by the Applicant within the Project boundary was studied using a meander survey on July 27, 2022. The route traveled during the meander survey was recorded using a Garmin Forerunner 55 Watch. An overall characterization of the terrestrial plant community was recorded. Whenever plants included in the NR 40 list were observed, the species and location were recorded using a Trimble R1 GNSS Receiver and GPS device. An estimate of relative abundance, using the Daubenmire System, and the extent to which the species was present (areal coverage), were recorded, as was the route of travel during the meander. No meander surveys were conducted on the islands; all sampling for terrestrial invasive species on islands was conducted according to the protocol discussed in section 3.2.1.

4.0 Results and Discussion

4.1 Aquatic Plant Survey

4.1.1 June Survey

A total of 679 points were sampled during the point-intercept survey completed over five days in June of 2022 (Figure 3, Attachment A). The majority of the points not sampled were the result of water depths exceeding 15 feet. In addition, four of the points could not be sampled because of navigability issues due to dense aquatic vegetation and two points were terrestrial. Among the points sampled, 154 were shallower than the maximum depth of rooting plants (7.6 feet) and 38 (25% of the littoral points; littoral frequency of occurrence) exhibited vegetation. Twenty-four species (all native) were found during the survey (Table 2), six of which were observed visually, but not present on the rake/at a sample point. Those six species include: spatterdock (Nuphar variegata), northern blue flag (Iris versicolor), water smartweed (Persicaria amphibia), hardstem bulrush (Schoenoplectus acutus), common water-starwort (Callitriche palustris), and a liverwort: slender riccia (Riccia fluitans). Because riccia is a bryophyte (non-vascular), it does not get calculated into the overall relative frequency of plant occurrence and is therefore excluded from the species table below. Overall, predominant species were variable-leaf pondweed (Potamogeton gramineus), alternate-flowered water milfoil (Myriophyllum alterniflorum), and narrow-leaf bur-reed (Sparganium angustifolium). Figure 8 depicts the species most dominant on each rake sample. The average total rake fullness during the study where plants were present (does not include points with no vegetation) was 1.05 (Figure 3). No aquatic invasive plant species were identified on the rake during the point-intercept survey.



4.1.2 Late-July Survey

The late-season survey on Gile Flowage was completed on July 26-28, 2022. All sample points that were within the plant rooting depth range established in June were re-sampled in July. Additional points were sampled to confirm the maximum depth of plant growth. A total of 165 points were visited during the July survey (Figure 4, Attachment B). The maximum depth of plant growth in July decreased to 6.1 feet. It should be noted that water levels on the Flowage were approximately 1.5 feet lower compared to the June survey. Points sampled were adjusted to account for this change in water depth; however, plant growth coverage did not appear to have expanded.

For the July survey, 133 of the visited points were found to be within the littoral zone. Fortynine (37% littoral frequency of occurrence) of these sample sites contained vegetation. Twentythree species were found on the rake during the late-season survey (Table 2). The predominant species were variable-leaf pondweed, various-leaved watermilfoil (*Myriophyllum heterophyllum*), and slender and common waterweeds (*Elodea nuttallii and E. canadensis*). Figure 9 depicts the predominant species for each rake sample. The average total rake fullness where plants were present was 1.27.

Scientific Name	Common Name	Littoral Frequency of Occurrence ^a		Relative Frequency of Occurrence ^b	
	Name	June	Late-July	June	Late-July
Callitriche palustris	Common water- starwort	Visual	2.26	Visual	3.1
Ceratophyllum echinatum	Spiny hornwort	1.3	0.75	4.0	1.0
Elatine minima	Waterwort	0.65	not observed	2.0	not observed
Elodea canadensis	Common waterweed	0.65	3.76	2.0	5.2
Elodea nuttallii	Slender waterweed	1.95	7.52	6.0	10.4
Iris versicolor	Northern blue flag	Visual	Visual	Visual	Visual
Myriophyllum alterniflorum	Alternate- flowered watermilfoil	5.19	0.75	16.0	1.0
Myriophyllum heterophyllum	Various-leaved watermilfoil	0.65	9.02	2.0	12.5
Myriophyllum verticillatum	Whorled watermilfoil	1.95	3.76	6.0	5.2
Najas flexilis	Slender naiad	not observed	1.5	not observed	2.1
<i>Nitella</i> sp.	Stoneworts	0.65	7.52	2.0	10.4
Nuphar variegata	Spatterdock	Visual	Visual	Visual	Visual

Table 2

Aquatic Plant Species Abundance in Gile Flowage



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Scientific Name	Common Name	Littoral Frequency of Occurrence ^a		Relative Frequency of Occurrence ^b	
	Indille	June	Late-July	June	Late-July
Persicaria amphibia	Water smartweed	Visual	0.75	Visual	1.0
Potamogeton amplifolius	Large-leaf pondweed	0.65	Visual	2.0	Visual
Potamogeton epihydrus	Ribbon-leaf pondweed	0.65	1.5	2.0	2.1
Potamogeton gramineus	Variable-leaf pondweed	7.79	13.53	24.0	18.8
Potamogeton nodosus	Long-leaf pondweed	0.65	0.75	2.0	1.0
Potamogeton praelongus	White-stem pondweed	not observed	0.75	Visual	1.0
Potamogeton pusillus	Small pondweed	0.65	4.51	2.0	6.3
Potamogeton spirillus	Spiral-fruited pondweed	not observed	2.26	not observed	3.1
Ranunculus flammula	Creeping spearwort	2.6	1.5	8.0	2.1
Sagittaria sp.	Arrowhead sp.	0.65	not observed	2.0	not observed
Schoenoplectus acutus	Hardstem bulrush	Visual	Visual	Visual	Visual
Schoenoplectus subterminalis	Water bulrush	0.65	2.26	2.0	3.1
Sparganium angustifolium	Narrow-leaf bur- reed	4.55	3.01	14.0	4.2
Utricularia minor	Small bladderwort	not observed	2.26	not observed	3.1
Utricularia vulgaris	Common bladderwort	not observed	0.75	not observed	1.0
Vallisneria americana	Wild celery	not observed	0.75	not observed	1.0
Zizania sp.	Wild rice ^c	0.65	0.75	2.0	1.0

^aThe littoral frequency of occurrence refers to the number of times the species was found divided by the total number of sample locations shallower than the MDC.

^bThe relative frequency of occurrence refers to the frequency at which one species was found in comparison to all species found (percentage).

^cWild rice was observed at or near sample locations 212, 337, 470, 499, 500, 501, 503, 845, 925, 949, and 956. A map of the sample locations is shown in Figure 2.



4.1.3 Overall Aquatic Plant Survey Analysis and Observations

The aquatic plant community in Gile Flowage is unique. While plant abundance is low, the quality of species is high with several uncommon species observed. In June, species richness (on rake only; excludes visual-only occurrences) was 18 and the mean conservatism value was 7.76, resulting in a Floristic Quality Index (FQI) of 32.0. In July, species richness was 23 and the mean conservatism value was 7.5, calculating to a 36.9 FQI (Table 3). Higher species conservatism values indicate the presence of plants which are sensitive to environmental degradation. The incidence of plant species with higher conservatism values indicates high-quality conditions present on Gile Flowage.

The low plant density can be explained by the size and depth of the waterbody. Plants were primarily found growing in shallow, near-shore areas and in protected bays. The depth of much of the flowage, combined with tannin-stained water and wind fetch, make only the shallow, protected areas conducive for submergent aquatic plant growth. Substrate type also directly affects the species type and abundance of plants that can be supported in a waterbody. The majority of the Flowage has a firm bottom dominated by organic detritus comprised of wood debris over sand and rock. The majority of substrate samples collected in June (~81%), at points having depths of less than 15 feet, were classified as organic; however, this category is often used to describe a soft bottom of unconsolidated organic matter. The organic matter on the Gile is comprised of a firm mixture of muck, sand, detritus (small sticks and bark), and in some cases, clay (Figure 10). Areas that were less protected (i.e., where wind fetch likely scours the bottom more often) had a substrate dominated by cobble (6.9% of the points sampled) and gravel (4.6% of the points). Smaller percentages of sand, wood, boulder, and silt were present at the remaining locations. The firm substrate, in conjunction with the factors listed above, likely plays a significant role in the low density of aquatic plants in the Flowage.

The number of aquatic invasive plant species observed on the Flowage was minimal. Only one location (two plants) of purple loosestrife was observed. It was in bloom but had not gone to seed; therefore, the flower heads were removed. An observation of suspected narrow-leaf cattail (possibly hybrid) was made but was not confirmed. Since the seed heads are required for positive identification, and the population had not gone to seed at the time of the survey, the identification could not be confirmed. We theorize this may be the result of delayed plant growth due to the late spring.

The majority of the Gile Flowage is too deep to support aquatic vegetation, even near shore where many areas exceeded the max depth of plant growth. Figure 11 shows a bathymetric map which illustrates the depths recorded during the June 2022 point-intercept survey.

Statistic	June 2022	Late-July 2022
Littoral Frequency of Occurrence	24.9	36.8
Maximum Depth of Plants	7.6 feet	6.1 feet
Species Richness	18	23
FQI	32.0	36.9

Table 3

Overall Gile Flowage Submergent Plants Summary

4.2 Water Samples

The samples for zebra mussel veligers will be analyzed by the Wisconsin State Lab of Hygiene. Samples were dropped off at the Lab on August 11, 2022. Results are expected to be available within approximately 60 days from the drop-off date.



4.3 Sediment Samples

Boat launches are an ideal location to sample for aquatic invasive species because of the high traffic associated with boat anglers, recreational watercraft and people shore-fishing. Public access locations can be a conduit for the introduction of aquatic invasive species through the emptying of bait buckets, boat bilges, live wells, or hulls which may be holding water from other infested waterbodies. Sediment samples collected at the public access sites did not detect any invasive macroinvertebrates. There were no additional invasive species observed from the visual inspections of the public access sites, except for the Chinese and banded mystery snails, which were already known to occur in the Flowage. Native snails, mussels (adults and juveniles), and northern clearwater crayfish (*Orconectes propinquus*) were visually observed at some of the boat launch areas while collecting sediment samples.

4.4 Terrestrial Upland Areas

Terrestrial invasive species surveys were conducted along the shoreline and upland areas included within the study area. The shoreline was primarily undeveloped and wooded, with scattered homes and cabins. The shoreline was inspected by boat where possible, or by walking where navigability was limited. Upland areas were generally rocky and wooded, with occasional roadways, emergent wetland and scrub/shrub areas, and residential properties with maintained lawns. A terrestrial invasive meander survey was conducted at Gile Park, which is primarily comprised of manicured turf grass, trees, shrubs, and herbaceous vegetation. This area contained sizeable populations of invasive species.

4.4.1 Upland Shoreline Survey – Gile Shoreline and Islands

The upland survey, which included 26 islands, was separated into 17 segments based on changes in land use or vegetative communities (Figure 7). The Flowage shoreline is extremely rugged, with bedrock and large boulders comprising much of the terrestrial substrate. The shoreline is largely undeveloped and is characterized by Talus, Northern Mesic, and Northern Wet-Mesic mixed conifer-deciduous forests, Emergent Wetland, and Scrub-shrub community types, with roadways, residential homes, and cabins thinly interspersed (Table 4).

Table 4

Terrestrial Shoreline Community	Mileage of Meander	Percentage of Meander
Boulder	0.39	1.11%
Emergent Wetland/Tag Alder	0.82	2.35%
Northern Mesic Forest	9.94	28.42%
Northern Mesic Forest/Boulder	1.031	2.95%
Northern Mesic/Talus Forest	4.86	13.88%
Northern Mesic/Wet Mesic Forest	11.24	32.12%
Northern Wet Mesic Forest	1.07	3.06%
Roadside	0.80	2.29%
Tag Alder/Northern Wet Mesic Forest	0.51	1.46%
Talus Forest	3.89	11.11%
Mowed/Maintained	0.44	1.26%
Total	34.99	100%

Terrestrial Shoreline Community Types Summary



The following list summarizes the most commonly encountered herbaceous and woody vegetation species observed within each terrestrial shoreline community:

- Emergent Wetland
 - Narrow-leaf bur-reed (Sparganium angustifolium), reed canary grass (Phalaris arundinacea), sweet flag (Acorus calamus), and sedge species (Carex spp.)
- Tag Alder
 - Overstory: tag alder (*Alnus incana*), willow species (*Salix* spp.), dogwood species (*Cornus* spp.)
 - Understory: reed canary grass
- Northern Mesic Forest
 - Overstory: sugar maple (Acer saccharum), eastern white pine (Pinus strobus), balsam fir (Abies balsamea), basswood (Tilia americana), paper birch (Betula papyrifera), white spruce (Picea glauca), eastern hemlock (Tsuga canadensis), northern pin oak (Quercus ellipsoidalis)
 - Understory: fern species (polypodiophytes)
- Northern Wet Mesic Forest
 - Overstory: black ash (*Fraxinus nigra*), balsam fir, black spruce (*Picea mariana*), northern white cedar (*Thuja occidentalis*), trembling aspen (*Populus tremuloides*)
 - Understory: reed canary grass, sedge species, fern species, sphagnum, and mosses
- Talus Forest
 - Overstory: eastern white pine, red pine (*Pinus resinosa*), paper birch, northern white cedar
 - Understory: fern species, moss and lichen species, boulders
- Boulder:
 - Smooth serviceberry (Amelanchier laevis), Beaked hazelnut (Corylus cornuta), Lichen species
- Roadside:
 - Spotted knapweed, Tansy, Canada goldenrod (Solidago canadensis), Birdsfoot trefoil (Lotus corniculatus), Queen Anne's Lace (Daucus carota)
- Mowed/Maintained
 - Mowed turfgrass, cultivated plants

Invasive species comprised 2.2 miles of shoreline during the terrestrial survey and were limited to glossy buckthorn (*Frangula alnus*), Eurasian bush honeysuckle (*Lonicera spp.*), spotted knapweed (*Centaurea stoebe*), tansy (*Tanacetum vulgare*), purple loosestrife (*Lythrum salicaria*), and suspected narrowleaf/hybrid cattail (*Typha angustifolia and T. x glauca*; Table 5). Honeysuckle was the most predominant species observed and was present on the majority of islands. Buckthorn was also present across the islands, but at lower densities. Spotted knapweed and tansy were limited to higher traffic areas such as roadsides. Only one location of purple loosestrife was noted and was comprised of two small plants. The suspected narrow-leaf cattail was scattered throughout the project at low densities, and at one higher concentration near the north end of the flowage.



Table 5

Species	Common Name	Mileage of Meander	Percentage of Meander
Centaurea stoebe	Spotted knapweed	1.168	3.34%
Lythrum salicaria	Purple loosestrife	0.002	0.01%
<i>Typha</i> spp.	Cattail spp. (suspected to be invasive or hybrid)	0.352	1.01%
Tanacetum vulgare	Tansy	0.329	0.94%
Frangula alnus	Glossy buckthorn	0.009	0.03%
Lonicera spp.	Eurasian bush honeysuckle	0.295	0.84%

Shoreline and Terrestrial Invasive Species Summary

4.4.2 Upland Terrestrial Area – Meander Survey of Gile Park

Gile Park, and the adjacent public access areas owned by the Applicant near the dam, features an open green space with manicured turf grass and planted trees and an undeveloped wooded area dominated by trees, shrubs, and herbaceous vegetation. The area also includes NSPW's canoe portage take-out and put-in sites. The meander survey area contained populations of Eurasian honeysuckle, suspected narrow-leaf cattail, tansy, and spotted knapweed.

4.5 Conclusion

Overall, few invasive species were observed throughout the Project and those that were documented occurred at low densities. Species such as tansy and spotted knapweed were primarily limited to areas of high traffic such as road shoulders and Gile Park. Honeysuckle was found sporadically throughout the Project and was the most common species found on the islands, frequently as individual plants, or small populations. The other widely spread species was cattail. While some of the cattail populations appeared to be native, having broader and shorter leaves, many infestations of suspected invasive cattail (narrowleaf or hybrid) were observed and documented. These plants were suspected to be of the invasive variety based on having more narrow leaves and growing in a mat-like monoculture, typical of the invasive cattails. A positive identification was not confirmed due to the lack of seed heads during the Study. This year's late spring, followed by cool weather, may explain the late blooming.

The Gile Flowage appears to have a healthy terrestrial and aquatic plant community with low populations of invasive species and high FQI's. This is further supported by the presence of high-quality indicator species such as Spiny hornwort and Alternate-flowered watermilfoil. Additionally, residential development along the shoreline is light, which historically has been correlated with higher quality systems (Sass et al. 2010). Increased public education and monitoring would help ensure that the populations of native plant species found on the Flowage remain healthy.

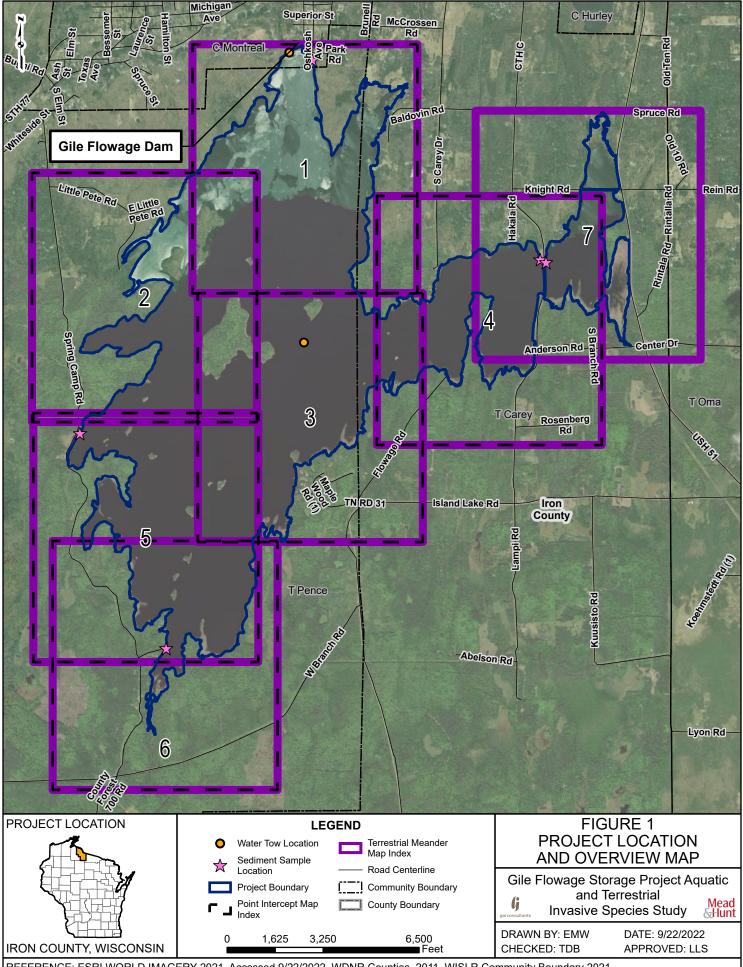


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FIGURE 1 Project Location and Overview Map

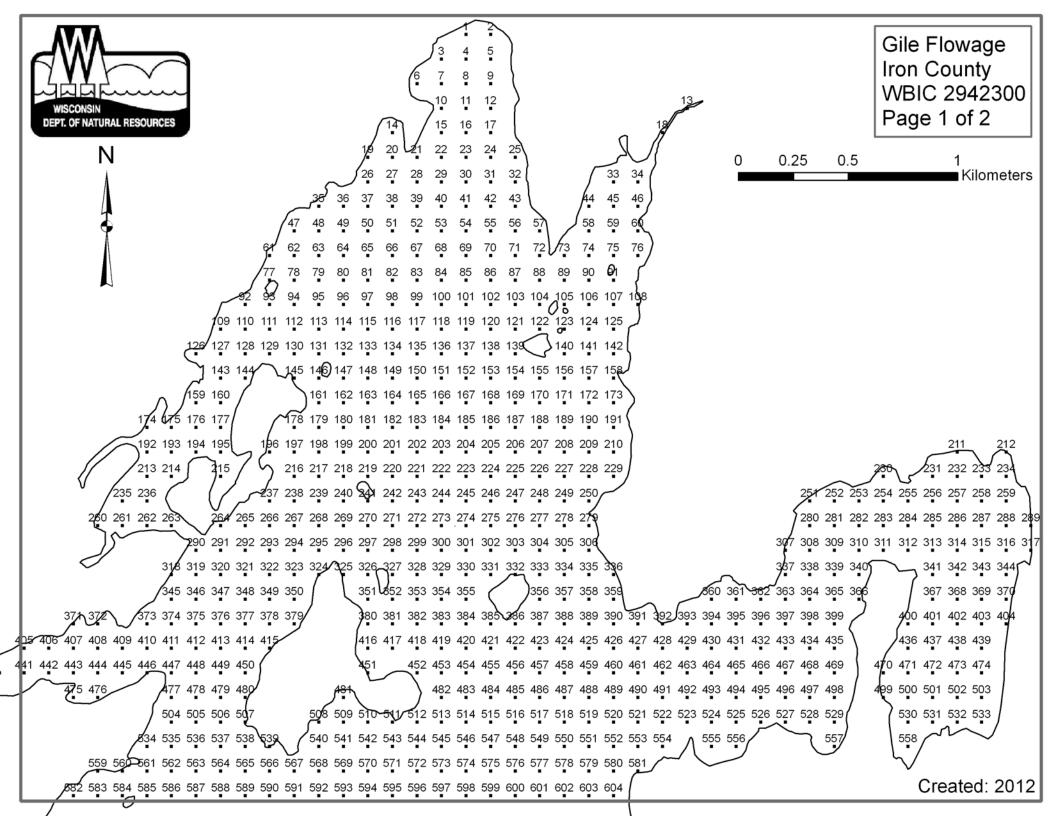




REFERENCE: ESRI WORLD IMAGERY 2021, Accessed 9/22/2022. WDNR Counties, 2011. WISLR Community Boundary 2021. WISDOT Road Centerlines, 2021.

FIGURE 2 Point-Intercept Grid Provided by the WDNR

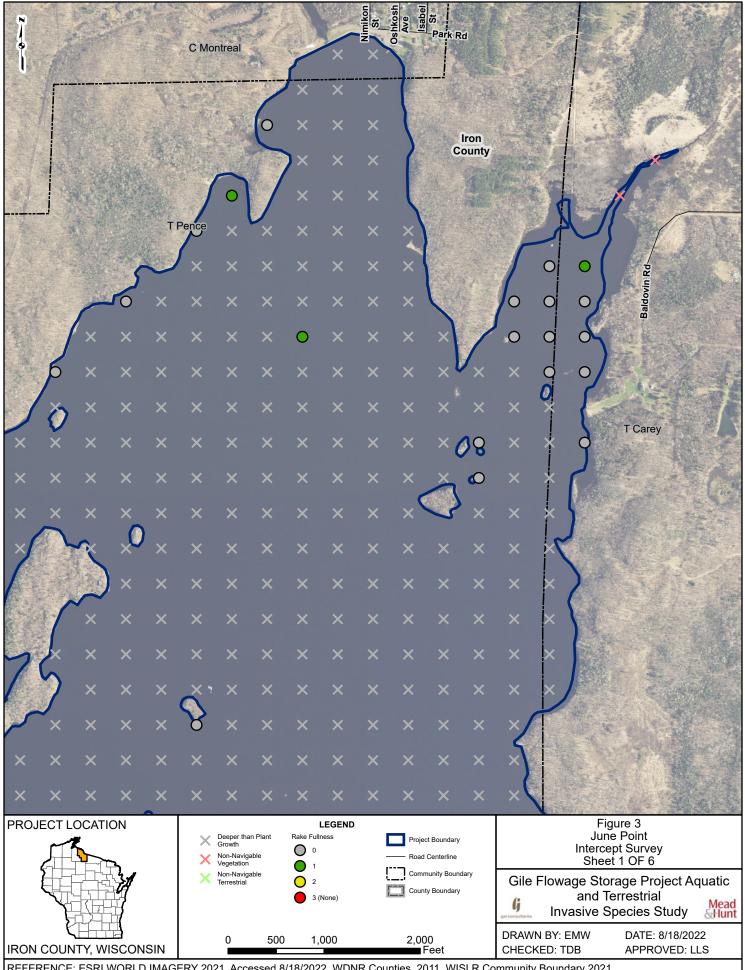




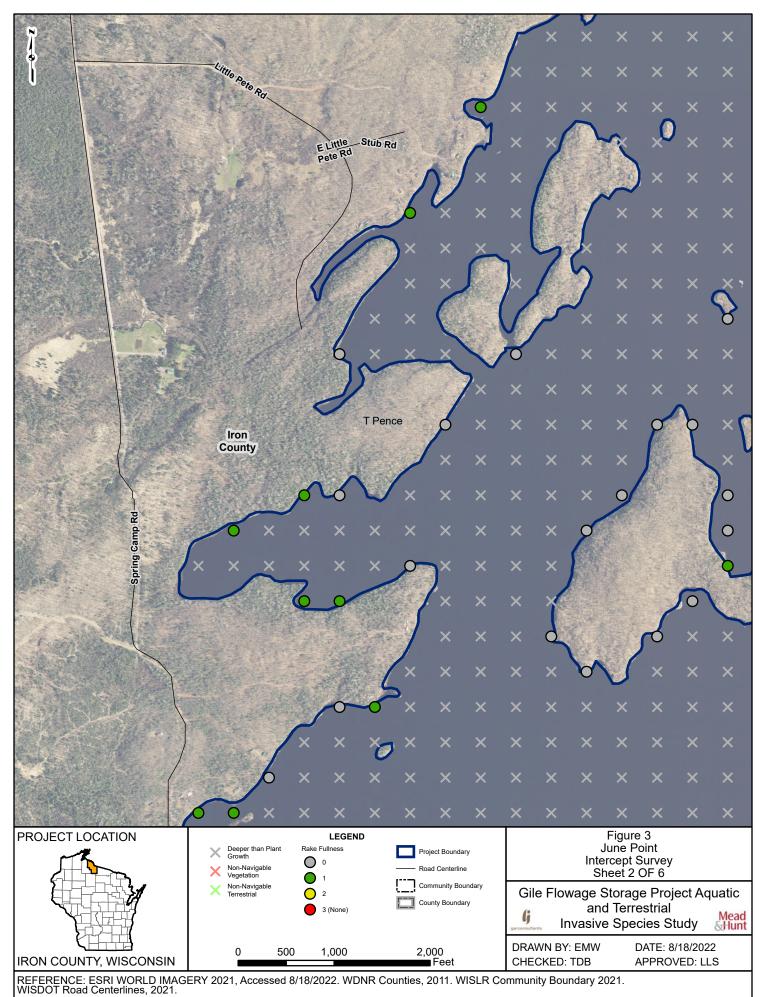
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FIGURE 3 June Point-Intercept Survey

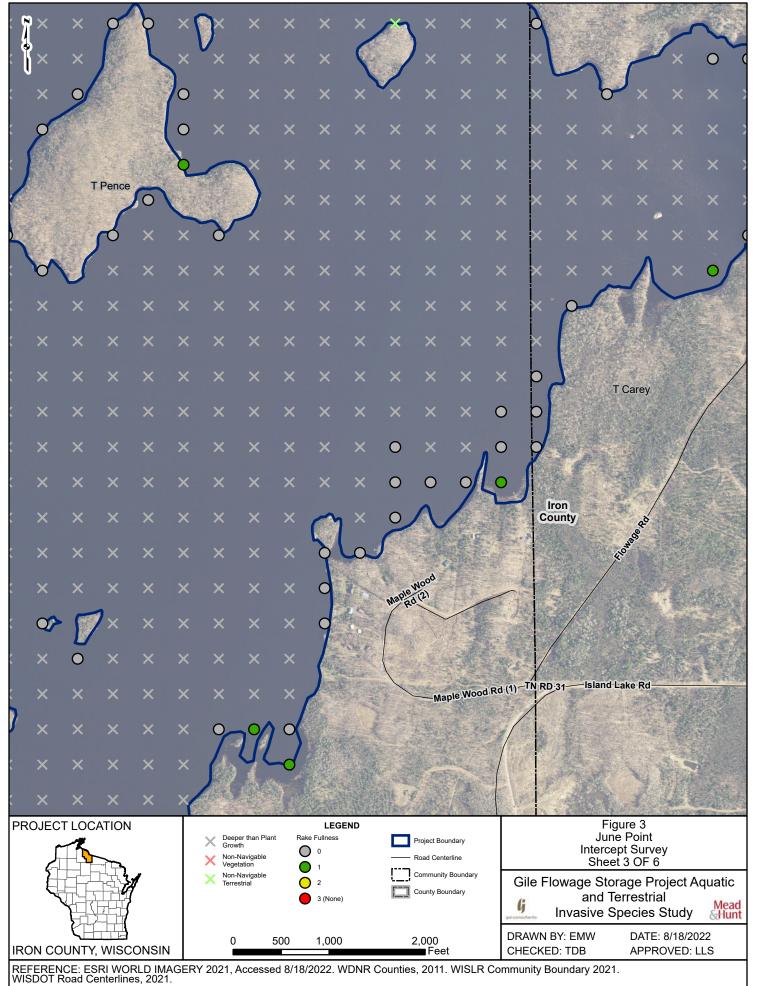


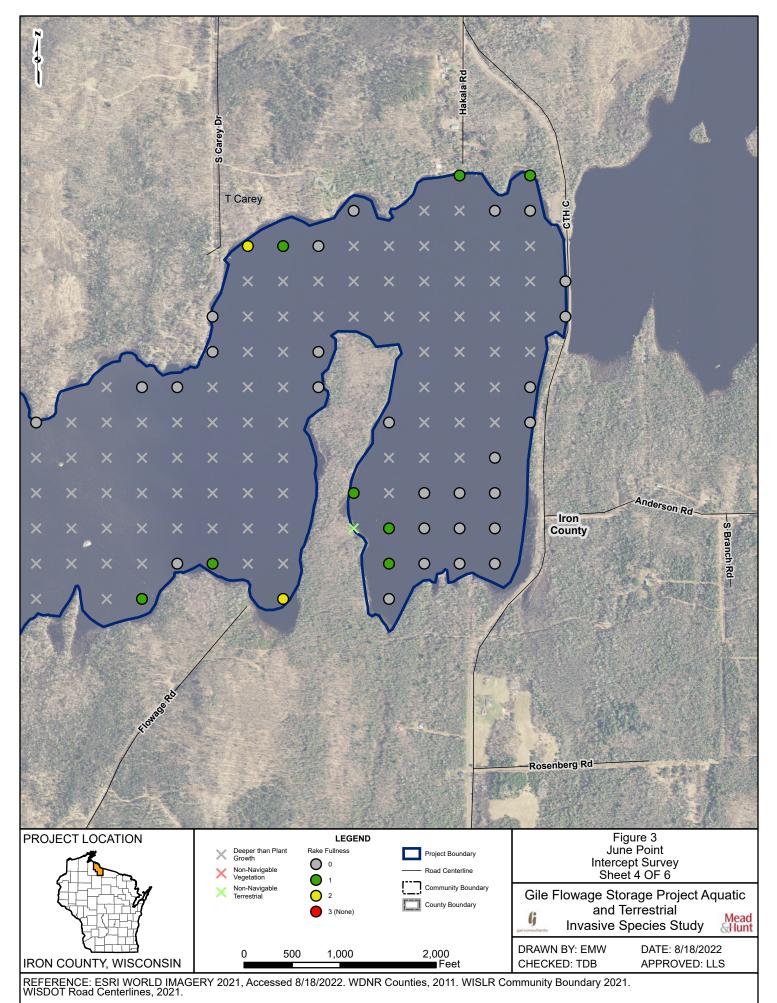


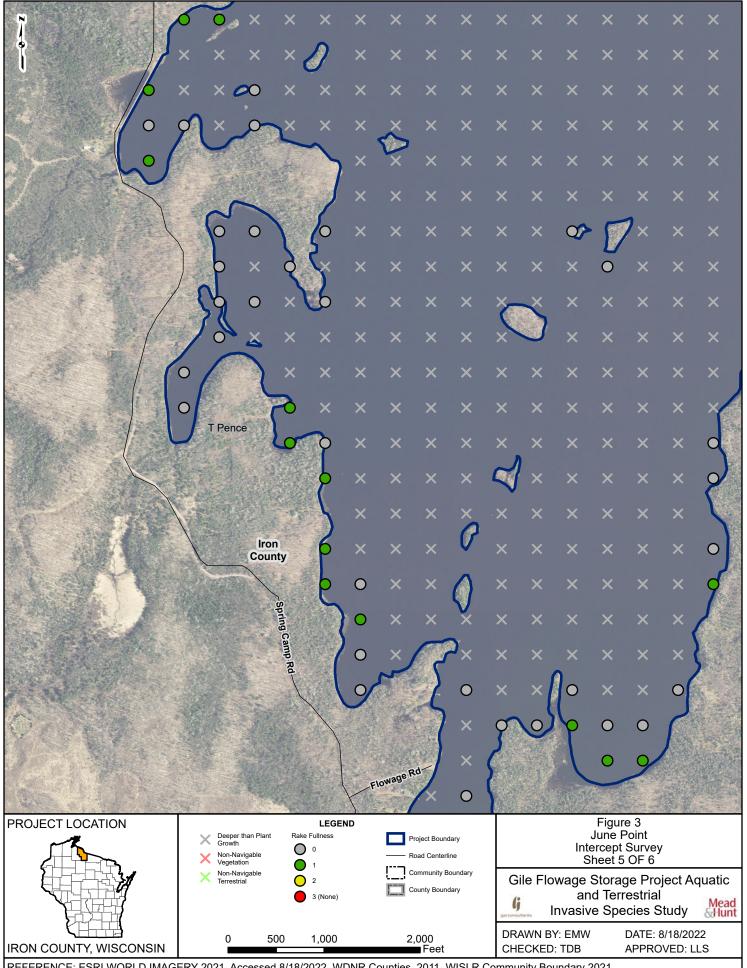
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REFERENCE: ESRI WORLD IMAGERY 2021, Accessed 8/18/2022. WDNR Counties, 2011. WISLR Community Boundary 2021. WISDOT Road Centerlines, 2021.

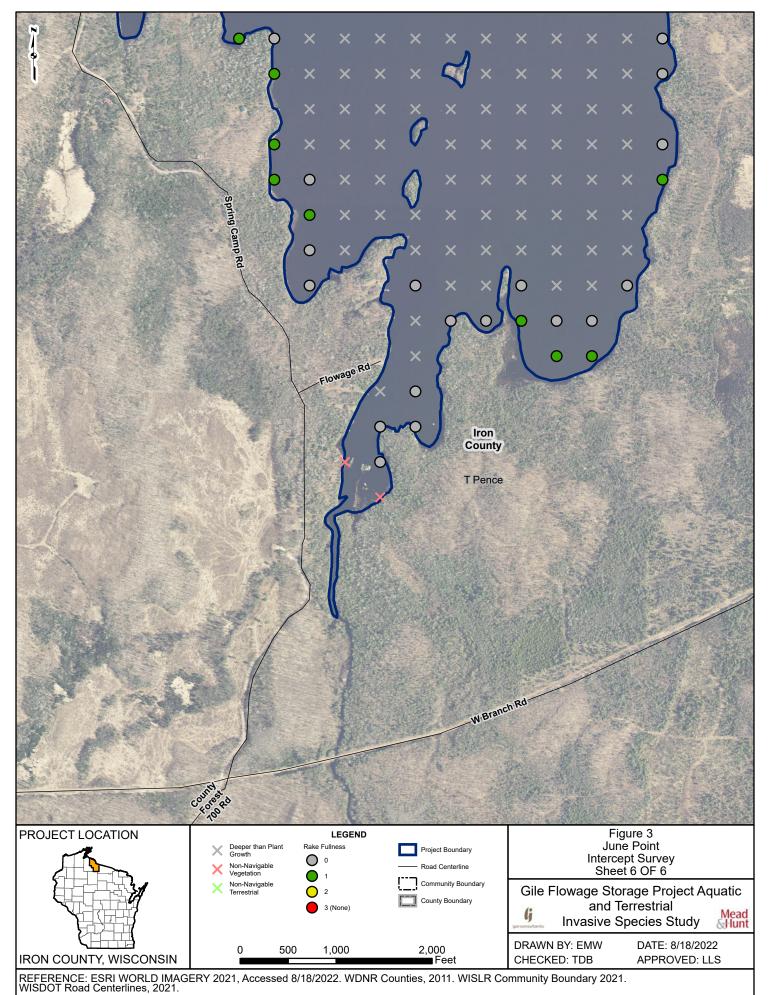
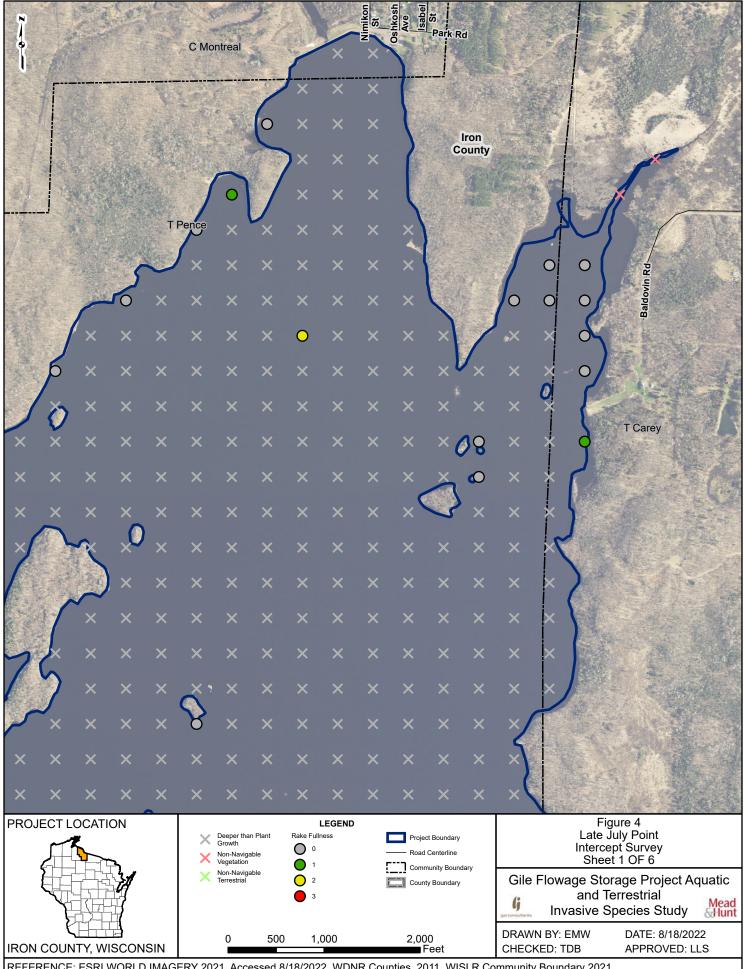
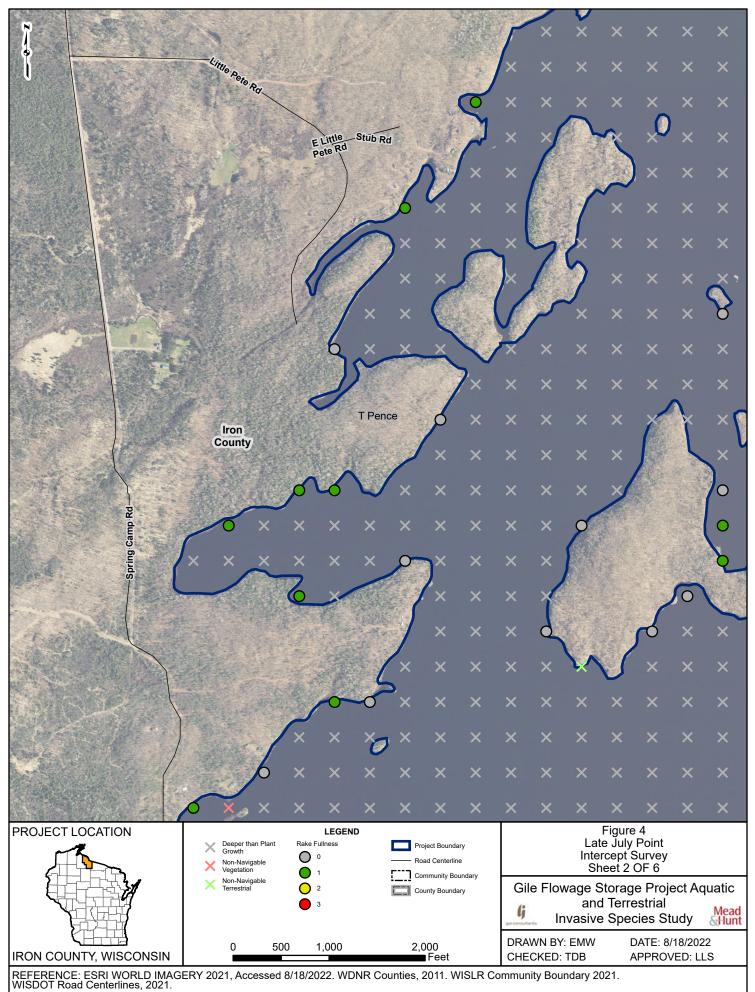


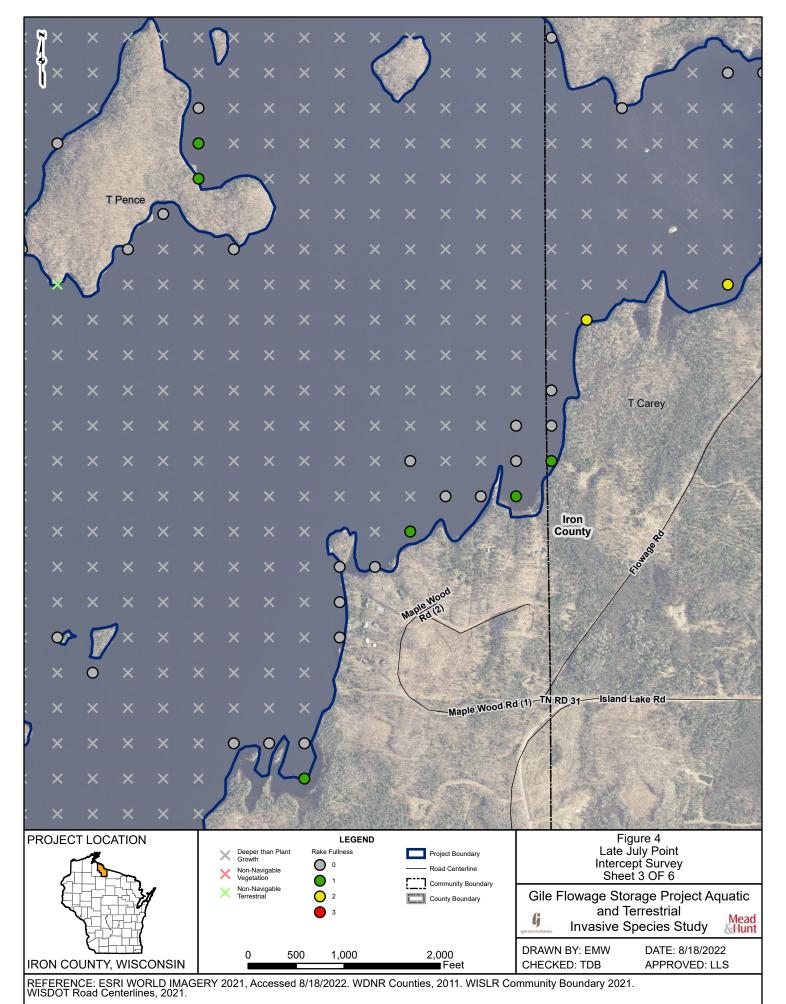
FIGURE 4 Late-July Point-Intercept Survey

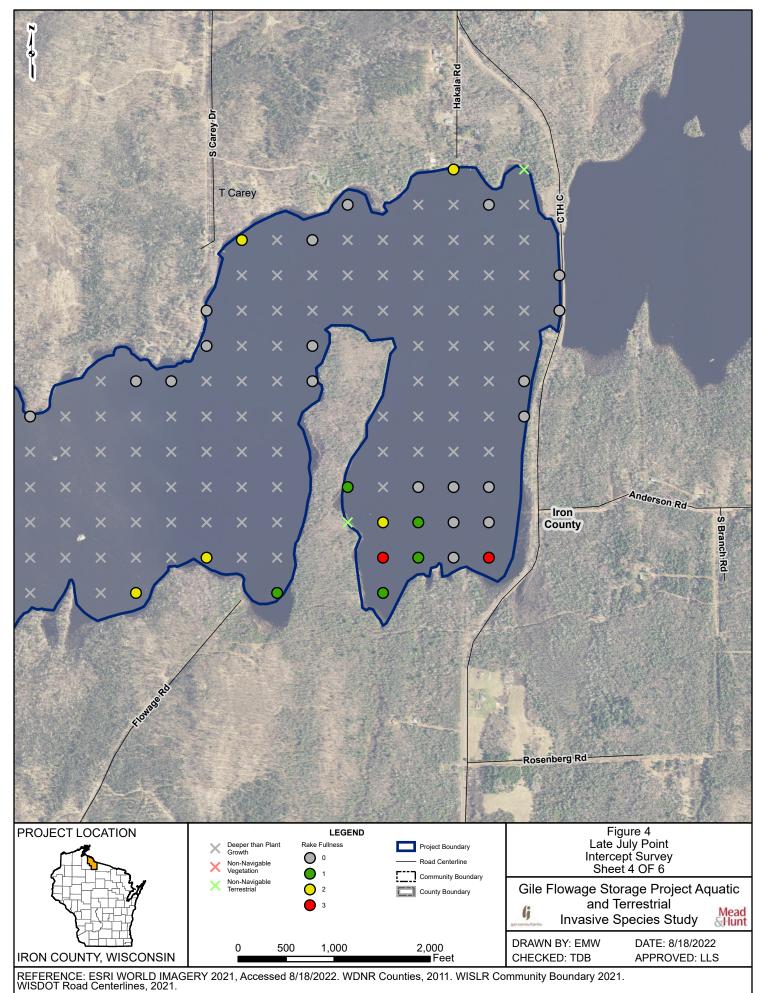


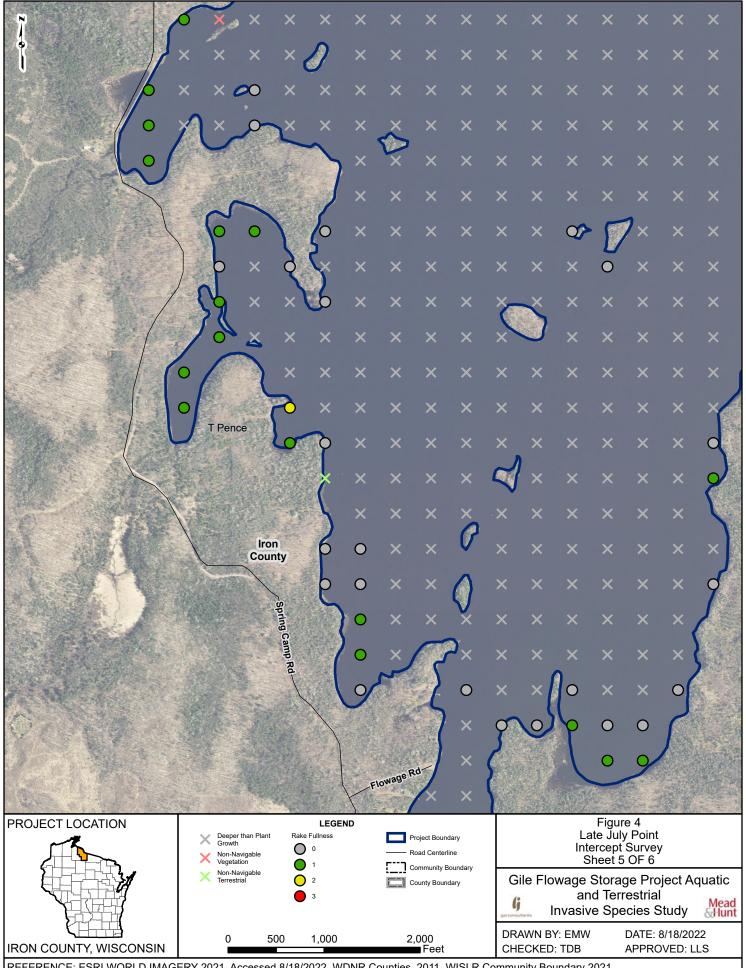


REFERENCE: ESRI WORLD IMAGERY 2021, Accessed 8/18/2022. WDNR Counties, 2011. WISLR Community Boundary 2021. WISDOT Road Centerlines, 2021.









REFERENCE: ESRI WORLD IMAGERY 2021, Accessed 8/18/2022. WDNR Counties, 2011. WISLR Community Boundary 2021. WISDOT Road Centerlines, 2021.

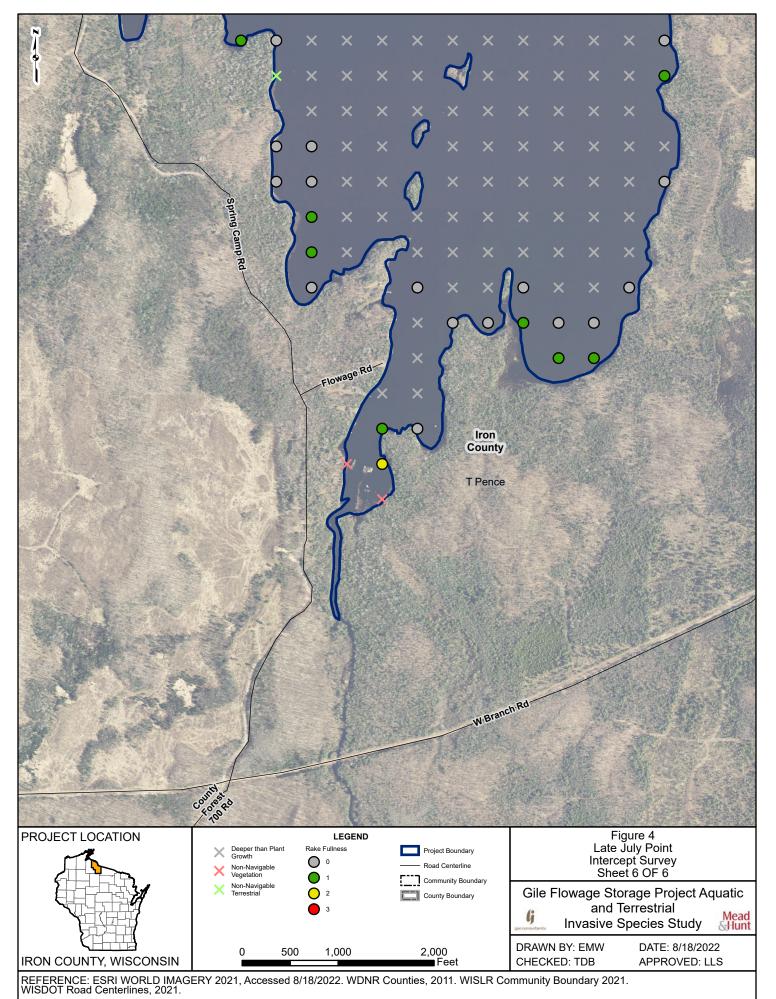


FIGURE 5 Rake Fullness per WDNR Protocol



Fullness Rating	Coverage	Description
1	Min Harring	Only few plants. There are not enough plants to entirely cover the length of the rake head in a single layer.
2	AND	There are enough plants to cover the length of the rake head in a single layer, but not enough to fully cover the tines.
3		The rake is completely covered and tines are not visible.

Figure 5. Rake Fullness per WDNR protocol.

Illustration of rake fulness rating used during the survey, photo used from *Recommended Baseline Monitoring of Aquatic Plants in Wisconsin: sampling design, field and laboratory procedures, data entry and analysis, and applications.* PUB-SS-1068,WDNR 2019.

FIGURE 6 Sediment Basket



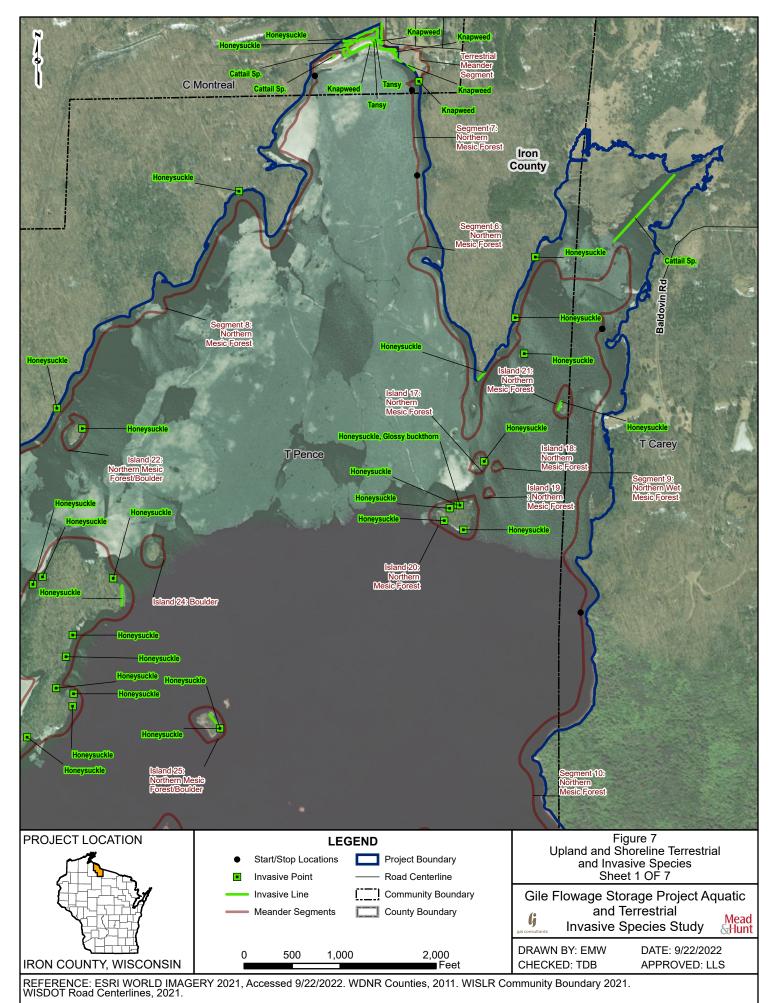


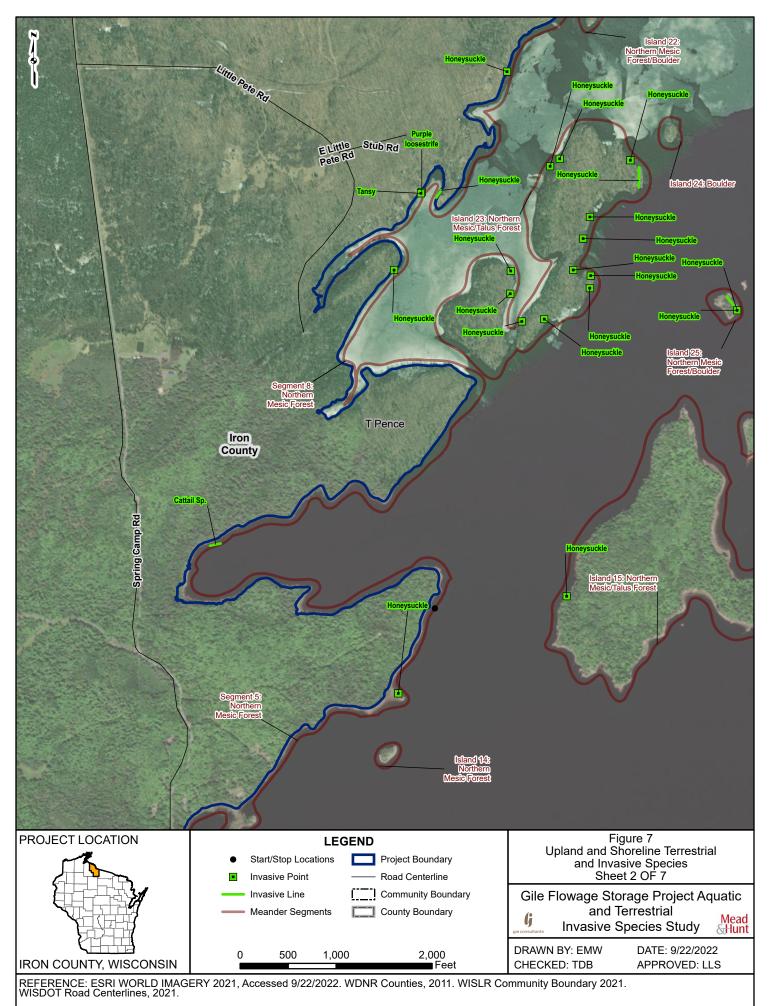
Figure 6. Sediment basket.

Using a 10-inch Tetra Pond Planter Basket, with a 1/32nd inch mesh, a sample is being rinsed for examination.

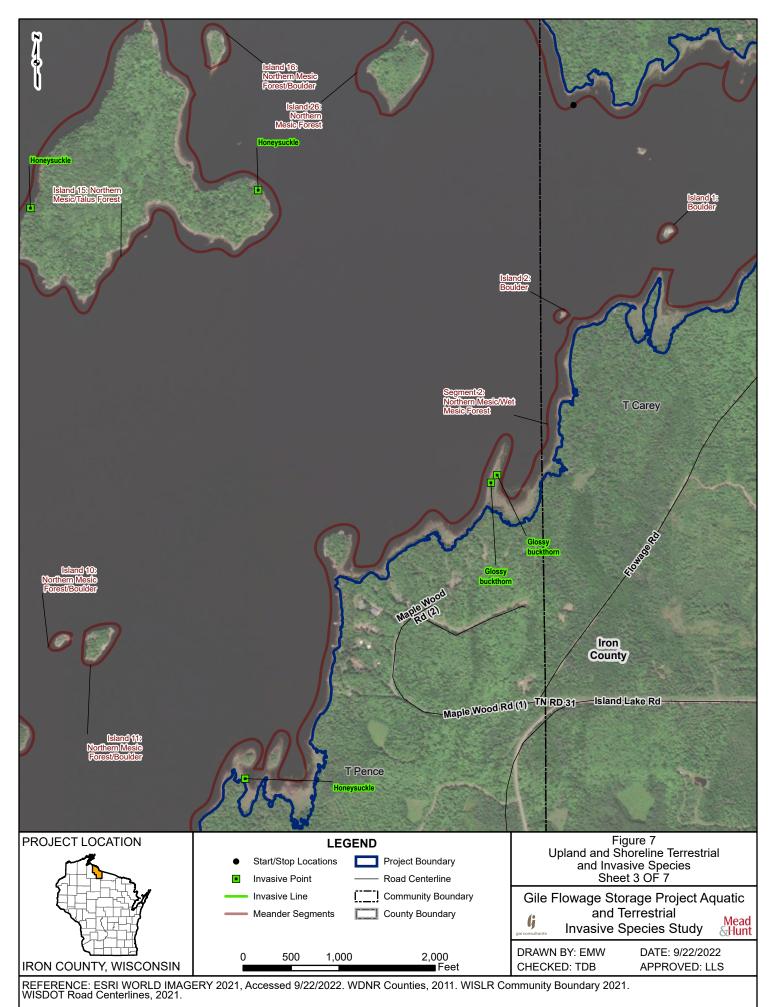
FIGURE 7 Upland and Shoreline Terrestrial and Invasive Species

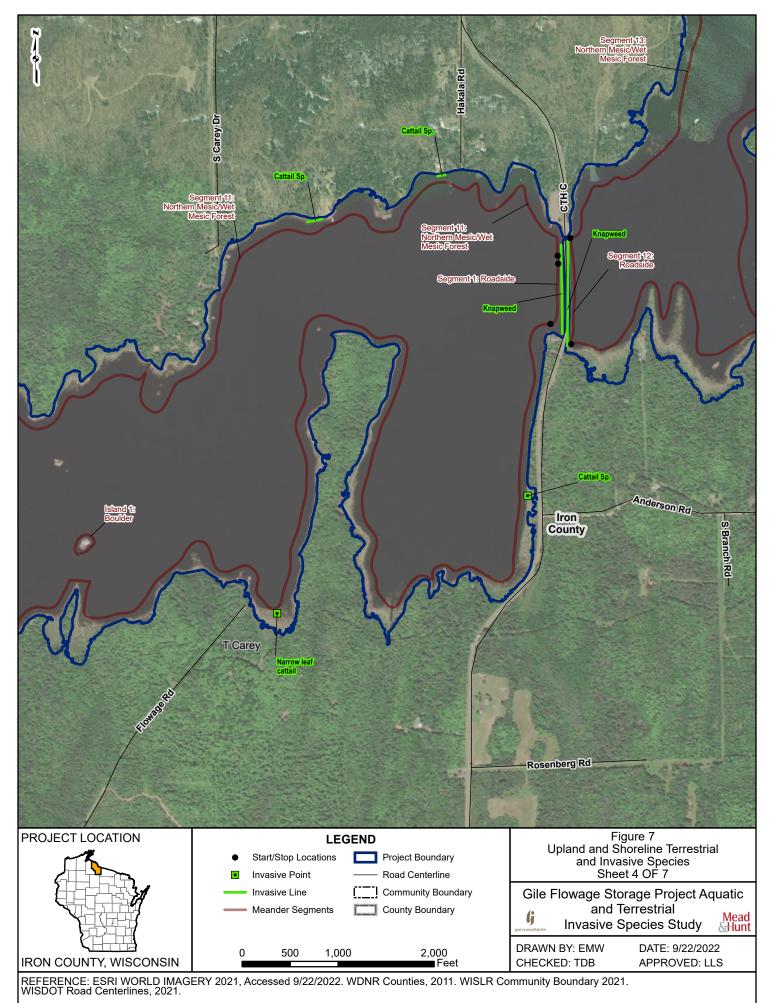


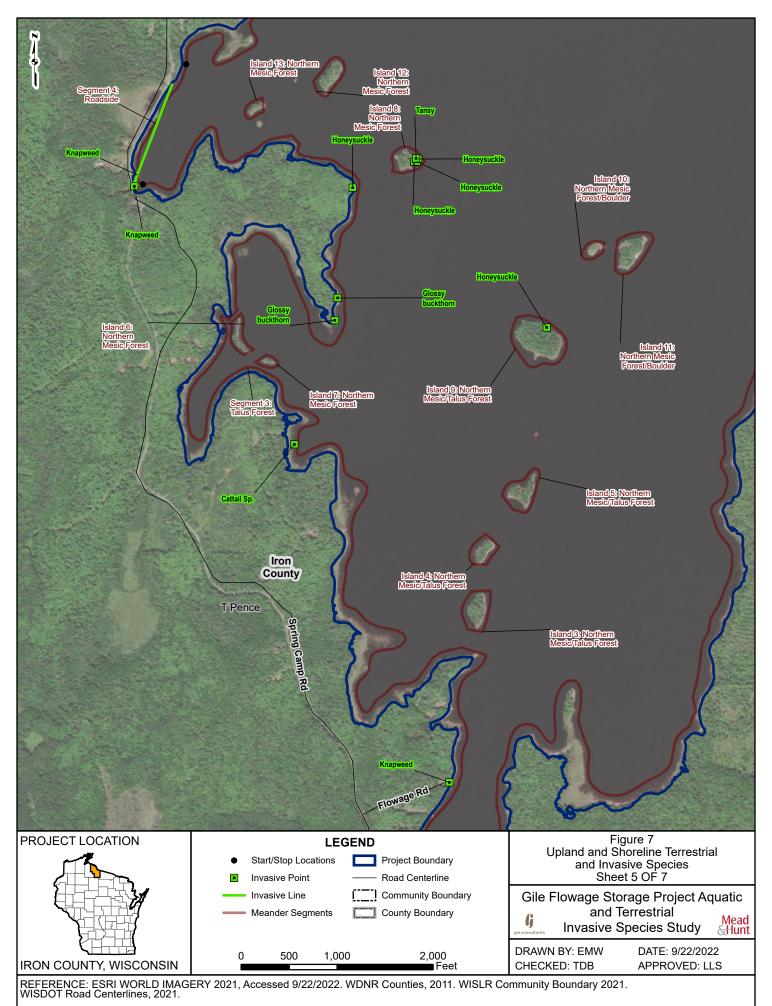




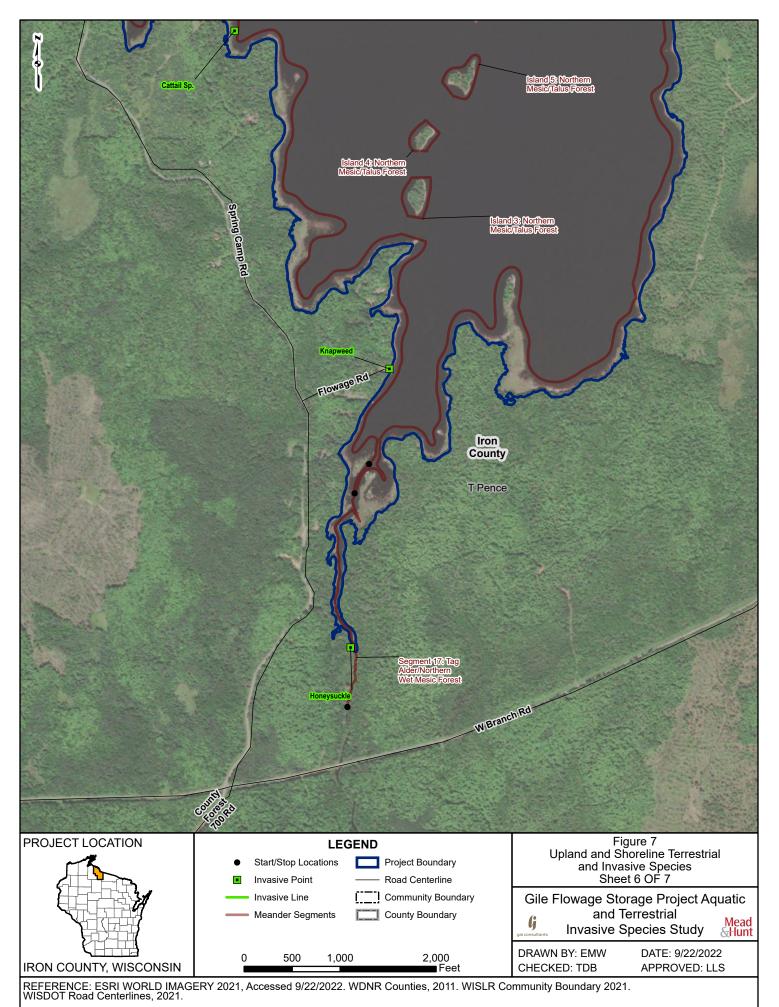
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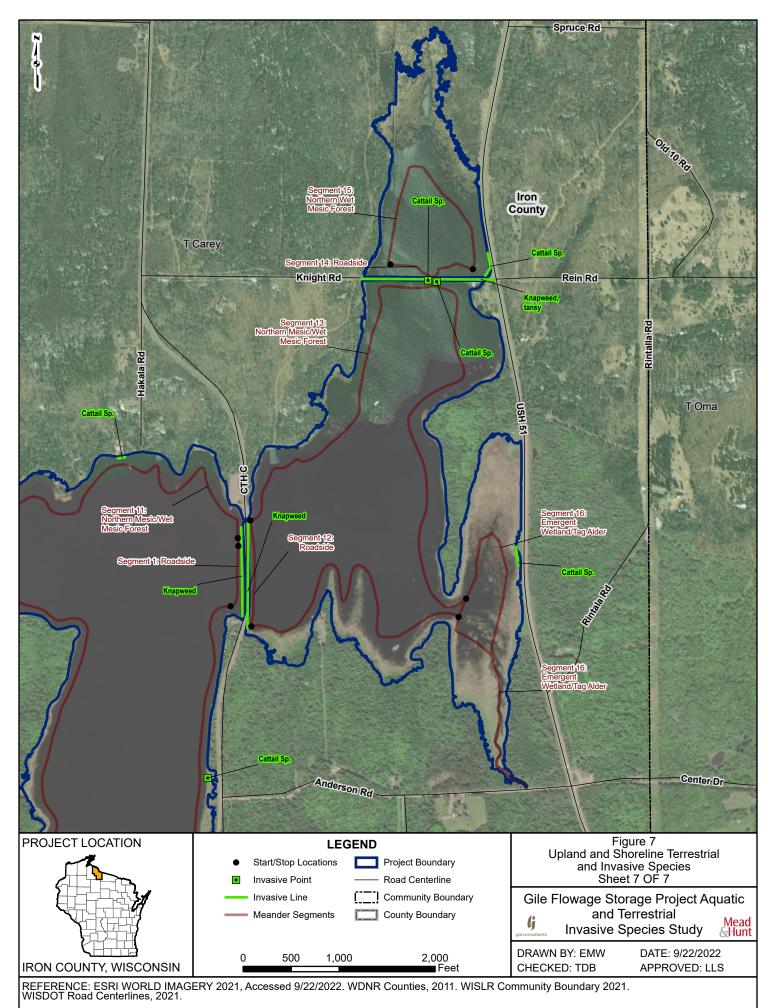
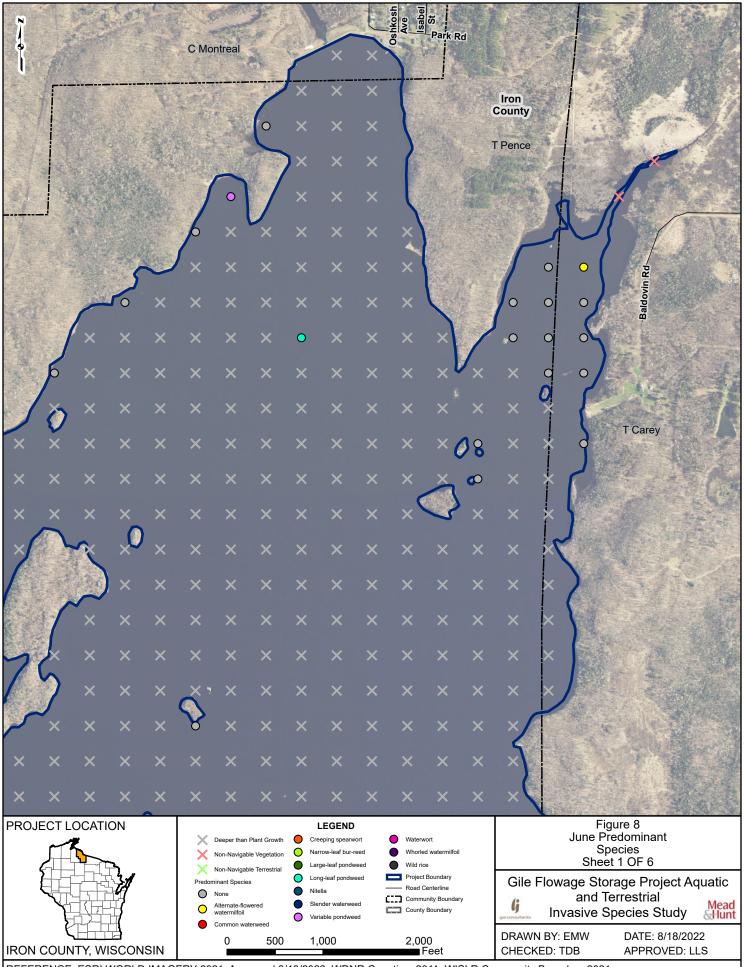
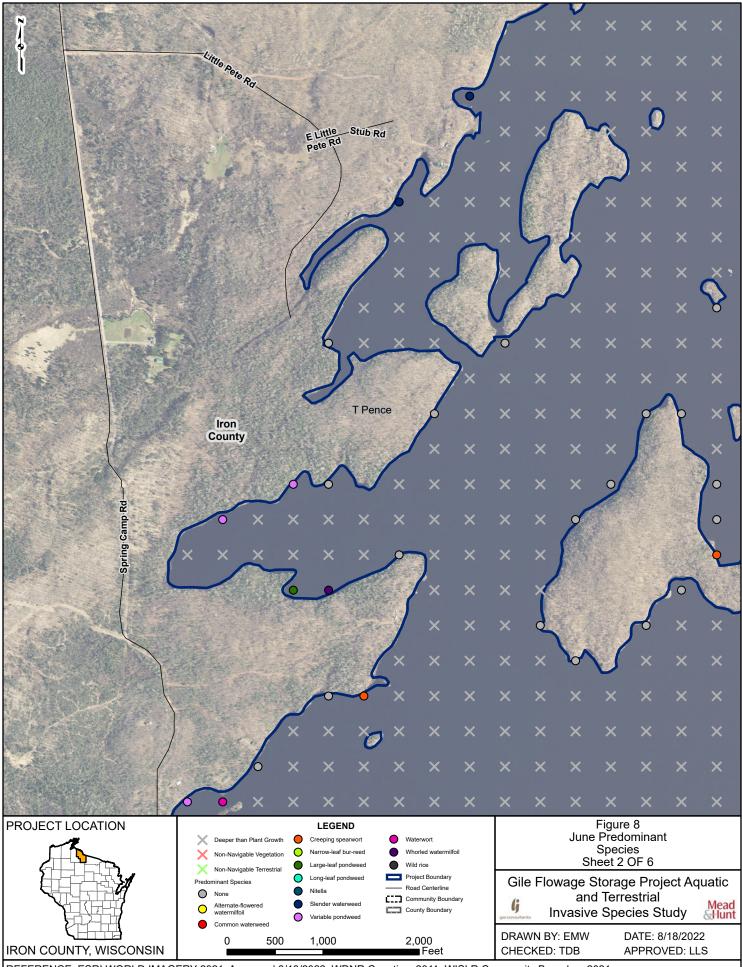


FIGURE 8 June Predominant Species

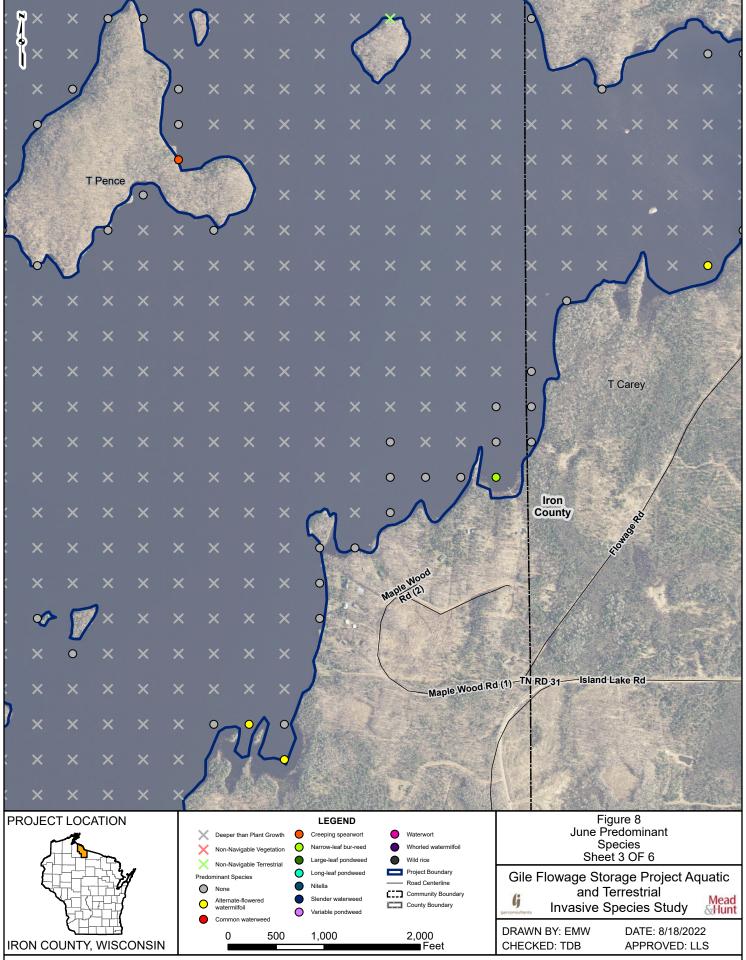




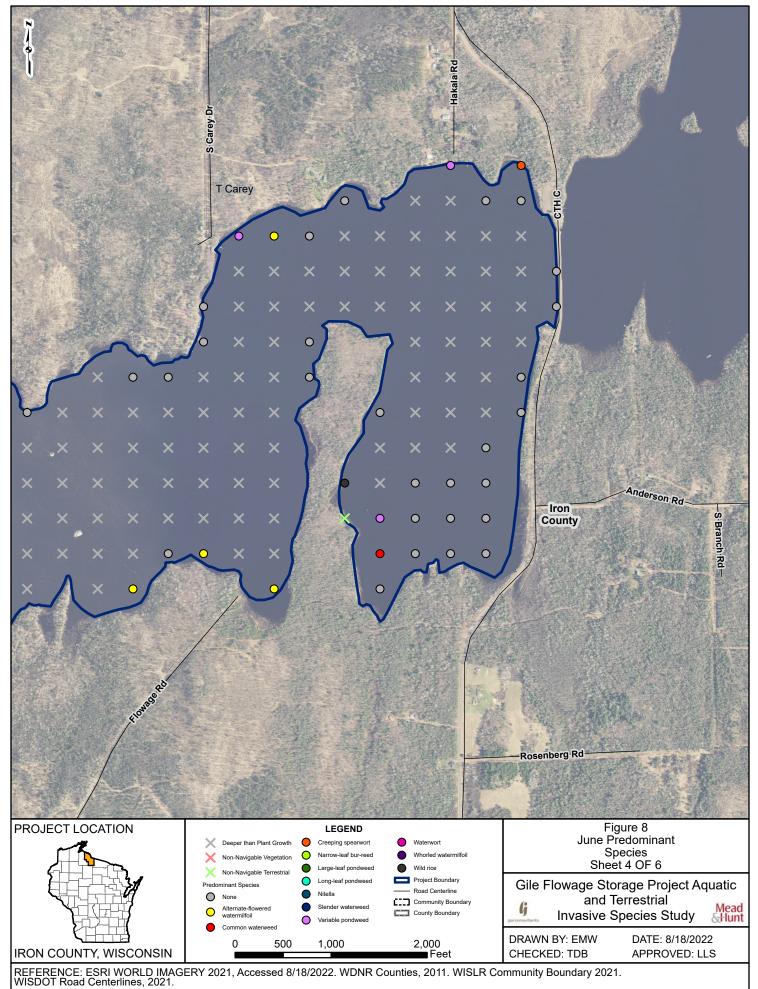
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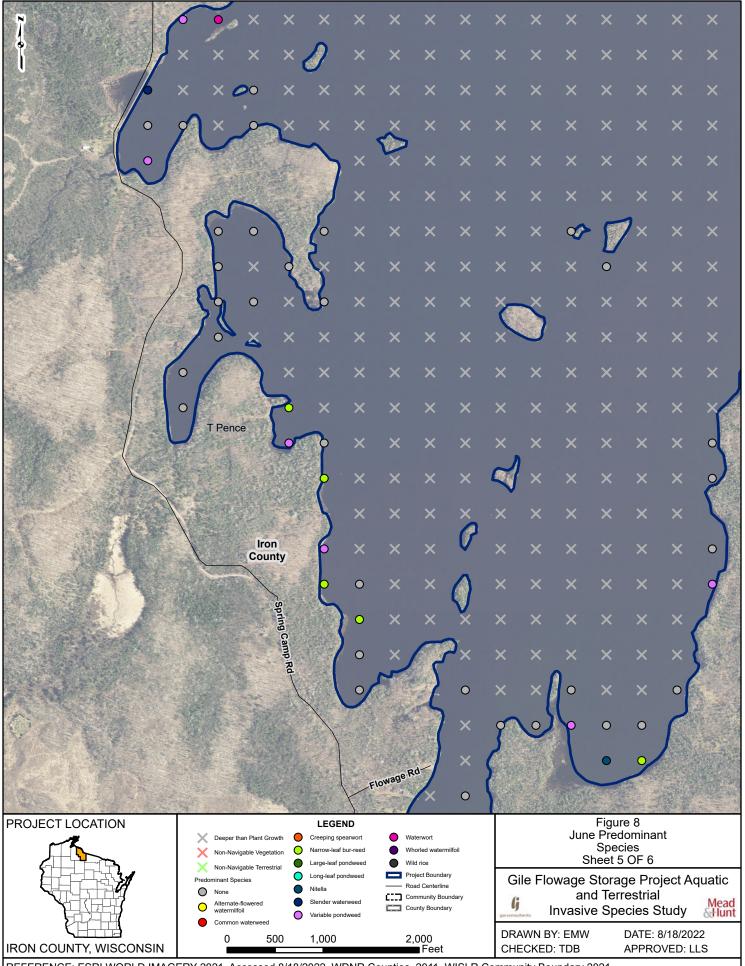


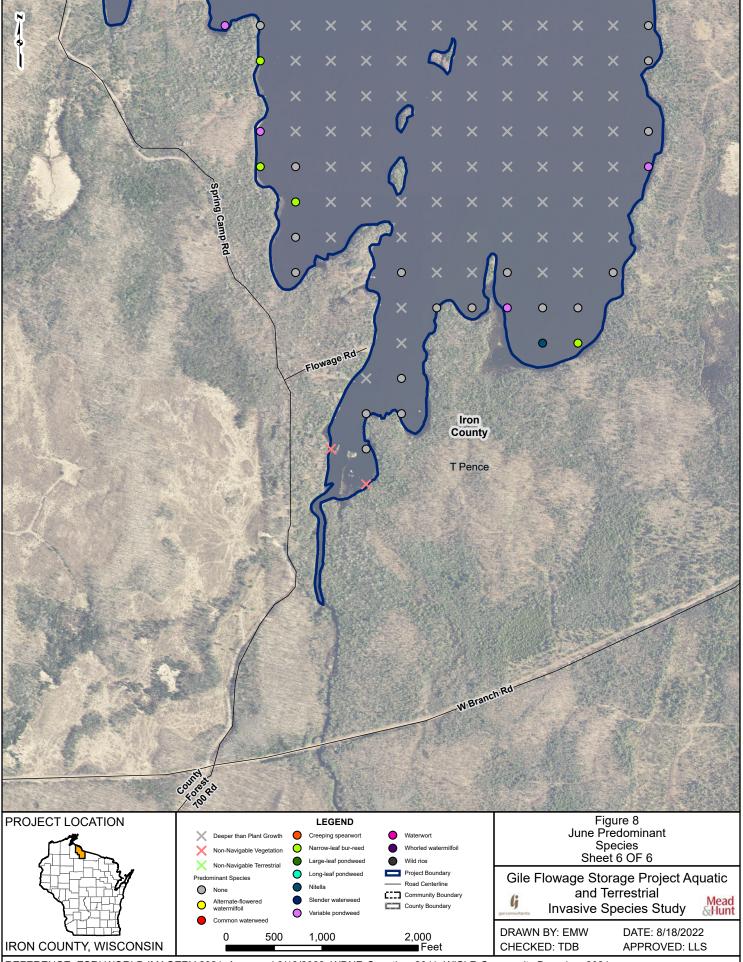
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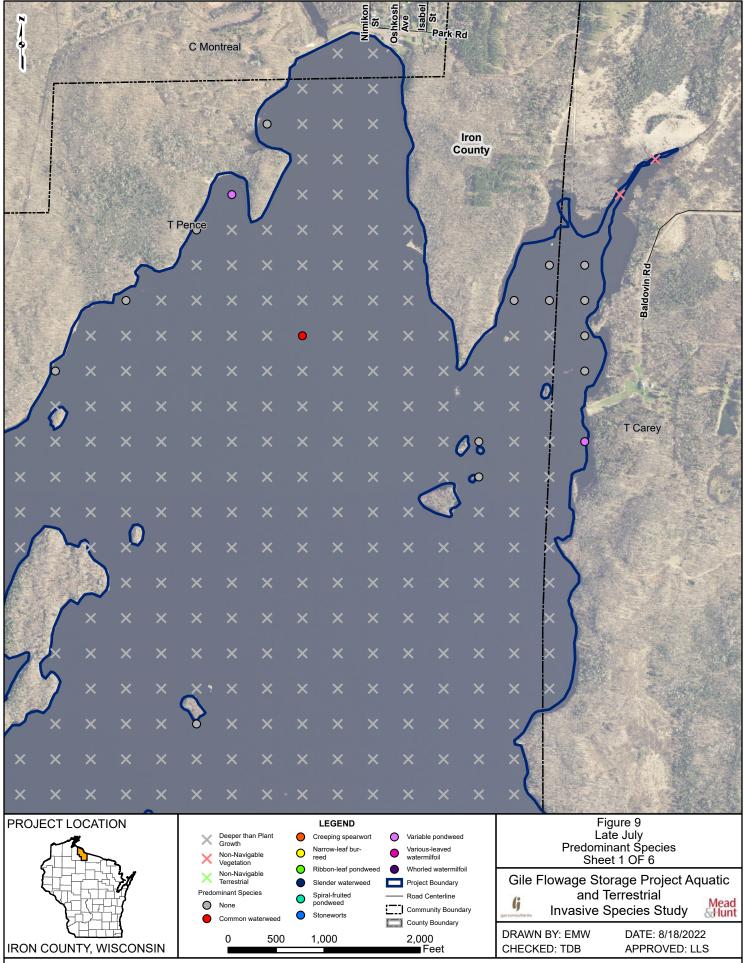


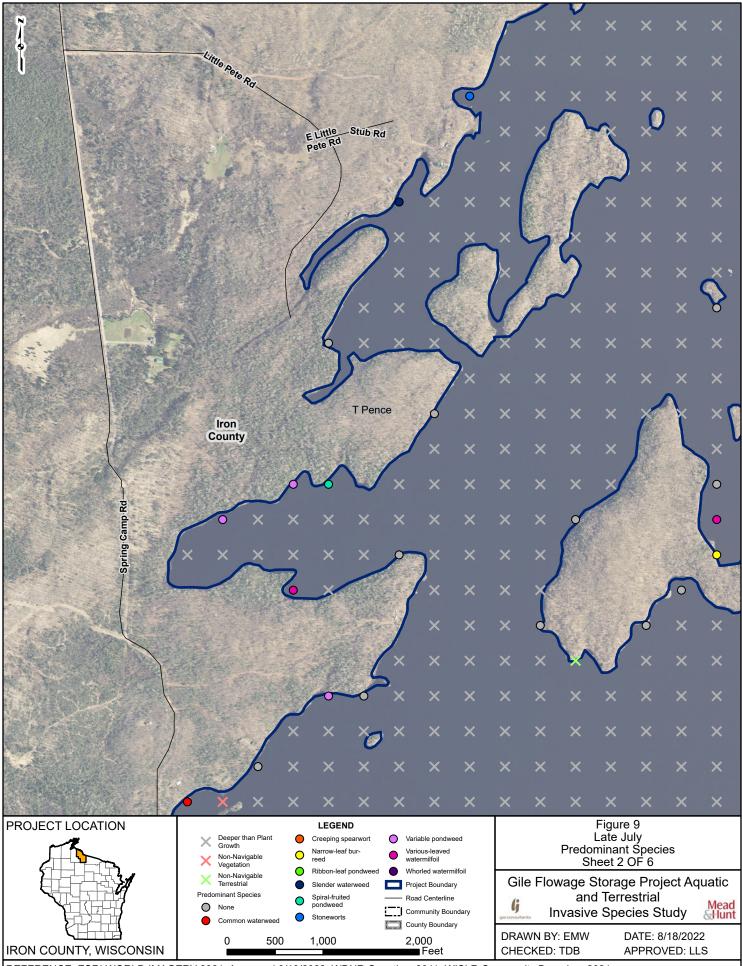


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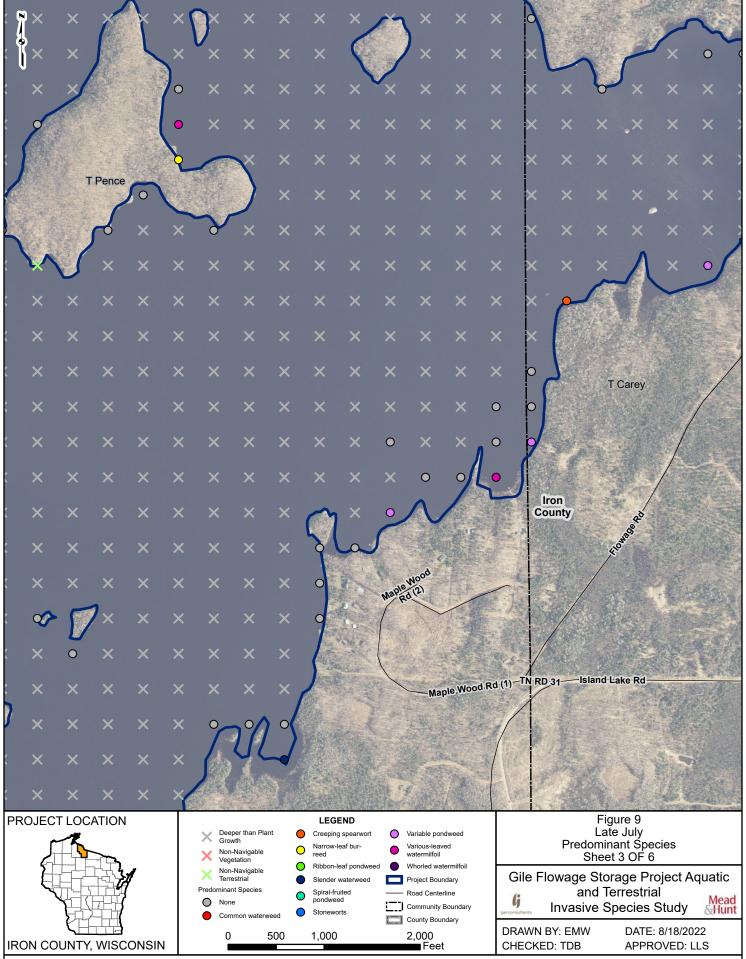
FIGURE 9 Late-July Predominant Species



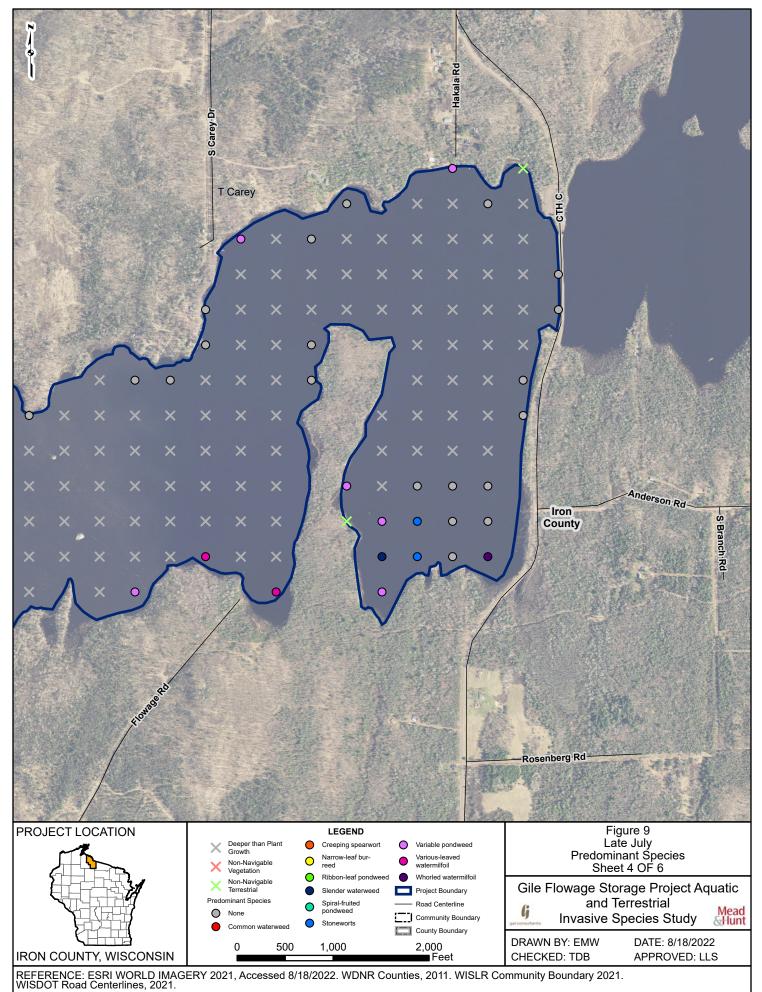




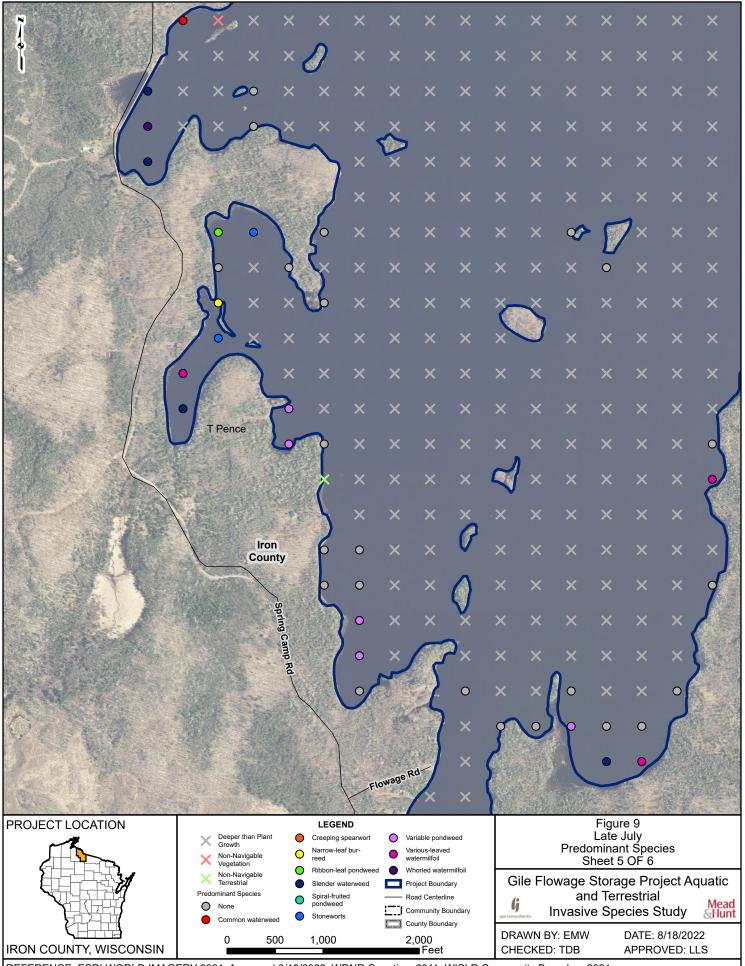
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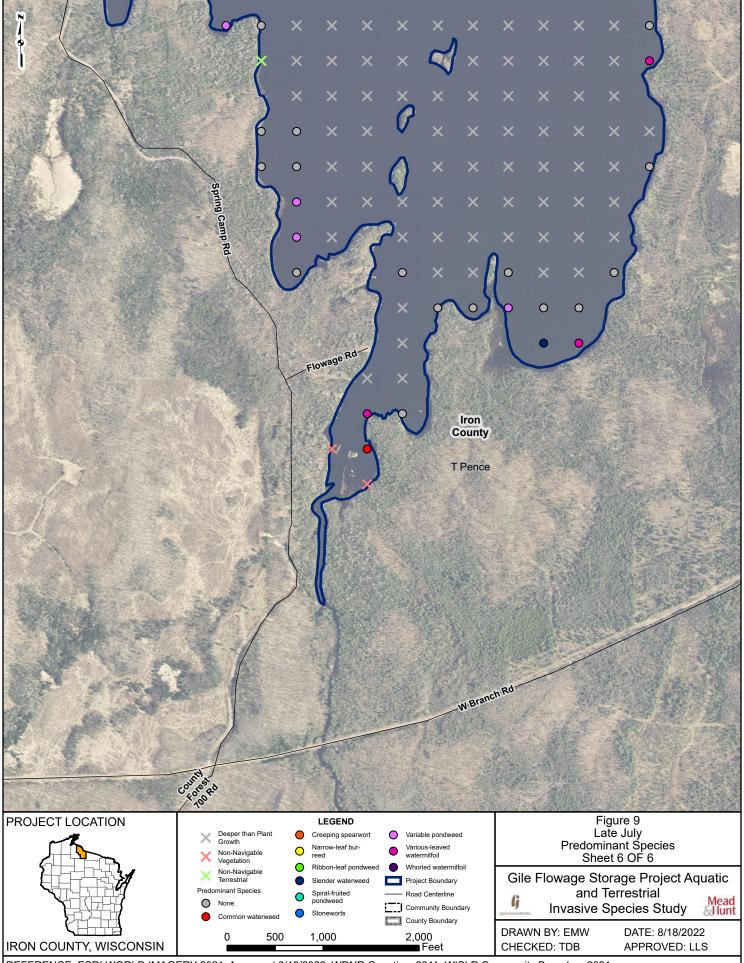
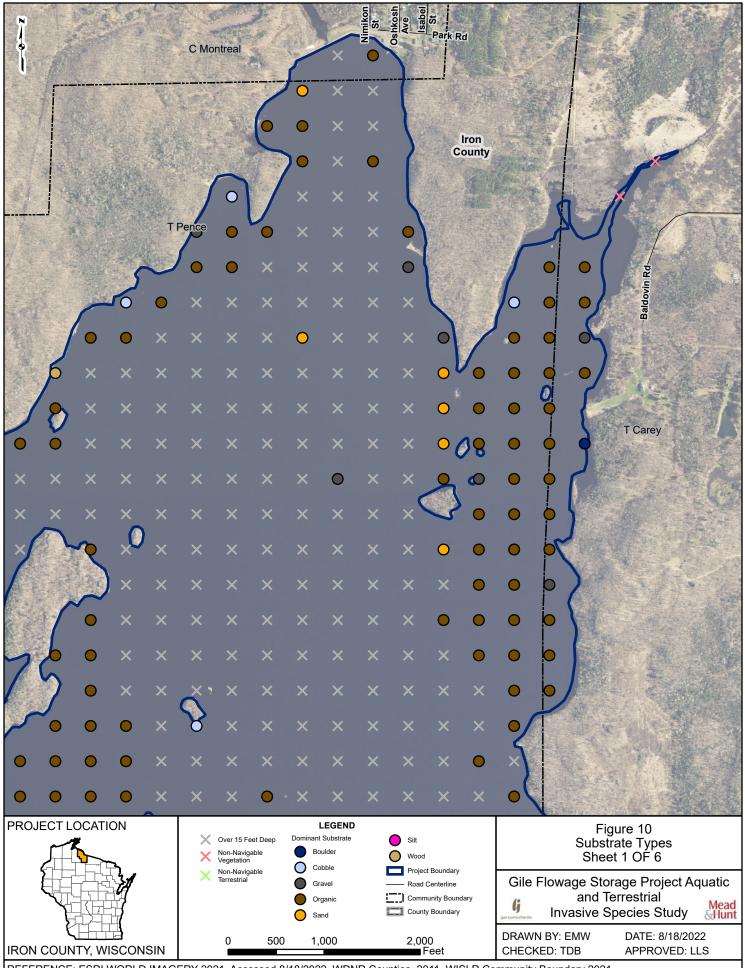
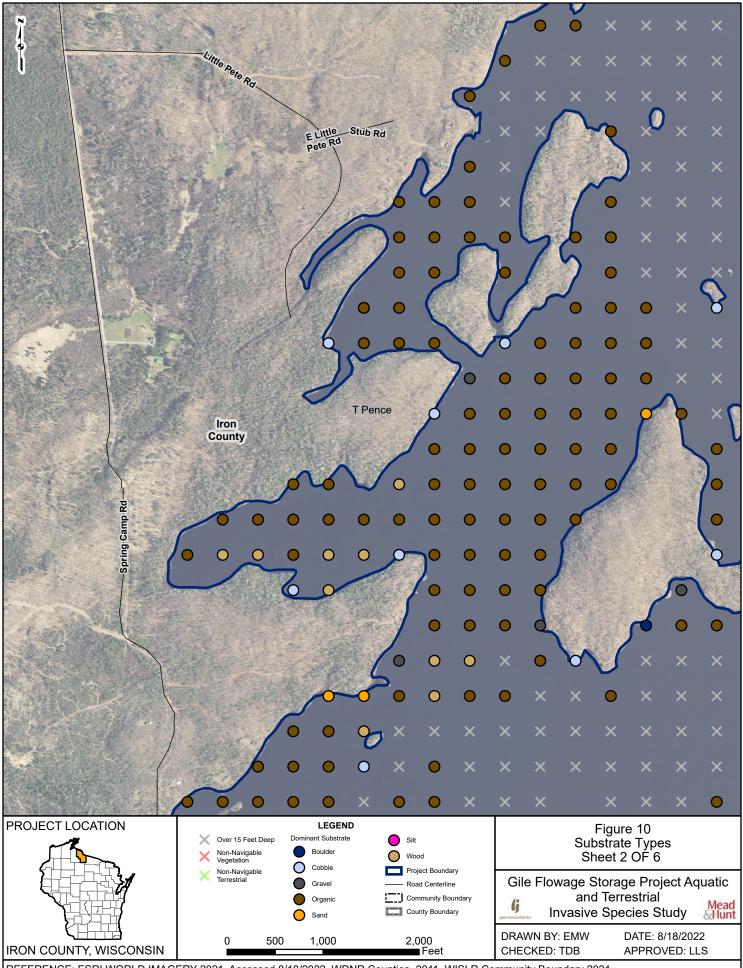


FIGURE 10 Substrate Types

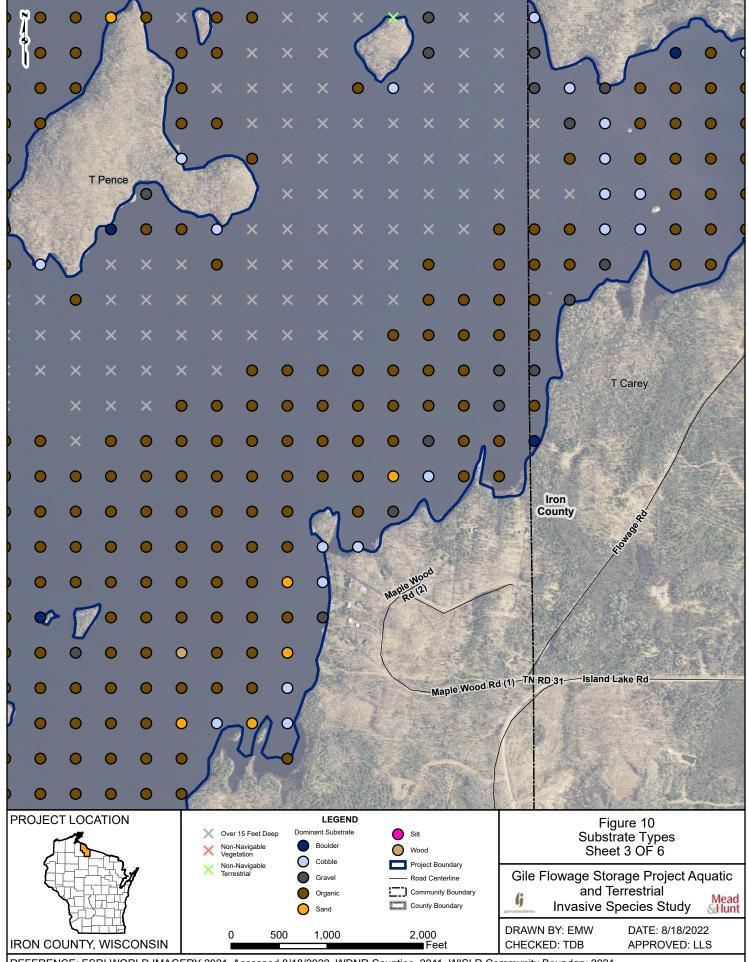


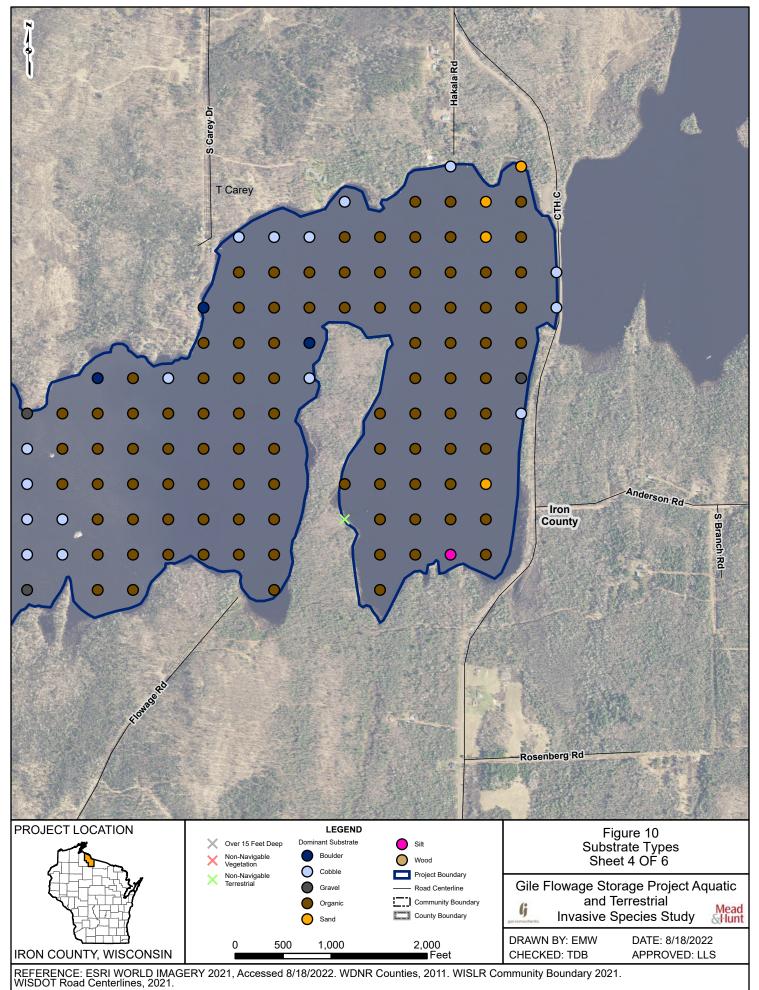


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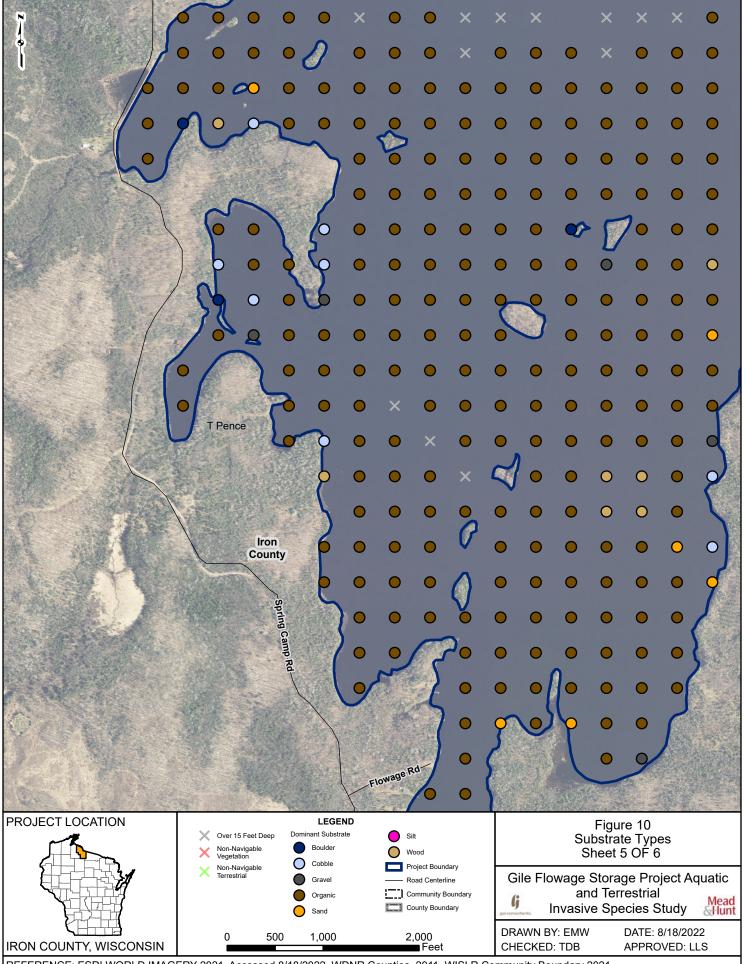


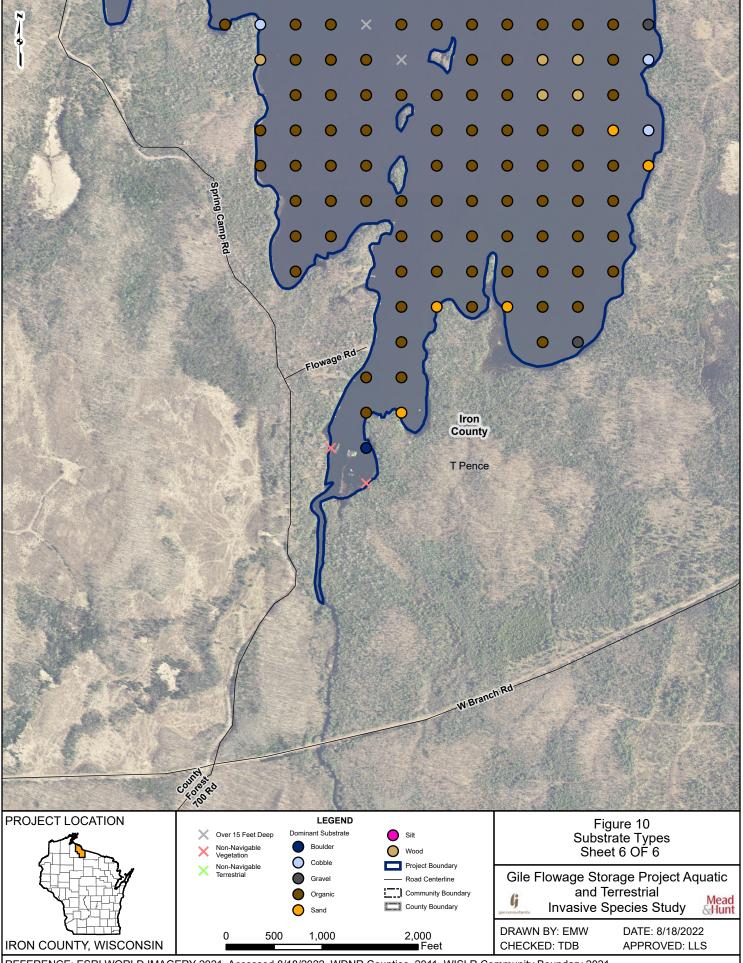
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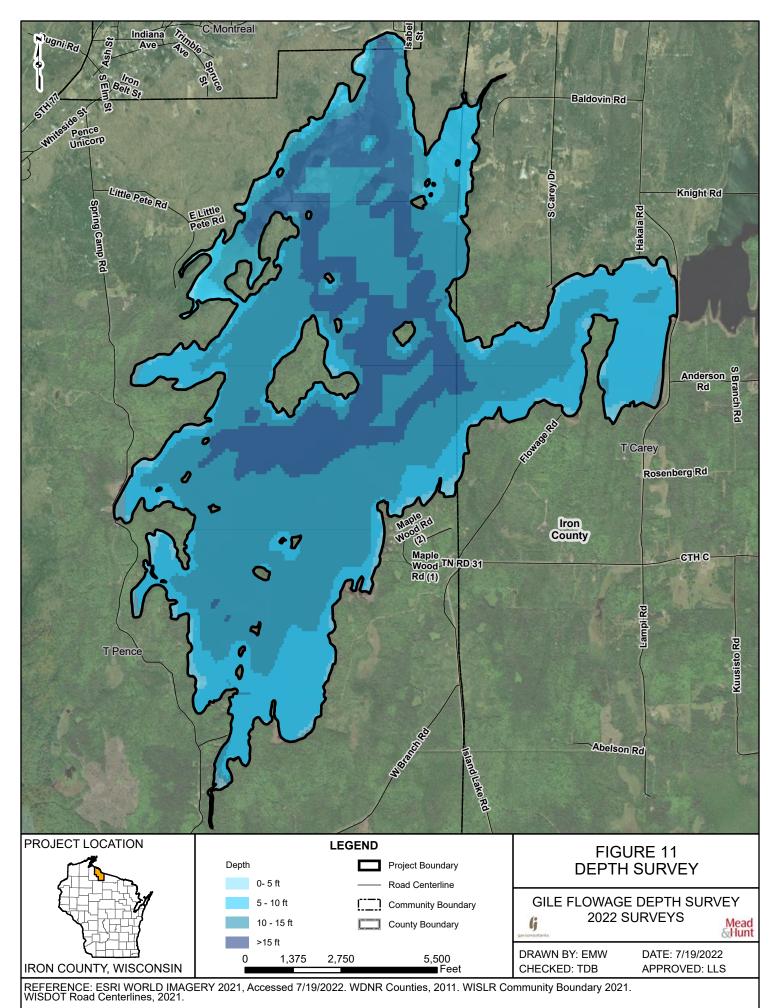




REFERENCE: ESRI WORLD IMAGERY 2021, Accessed 8/18/2022. WDNR Counties, 2011. WISLR Community Boundary 2021. WISDOT Road Centerlines, 2021.

FIGURE 11 Bathymetric Map





ATTACHMENT A Aquatic Invasive Species Survey Field Data Sheets – June



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~	5.9AI	R	D	Boulder		. [8:	8 14.5 A	1 M	059	10	<u> </u>	<u> </u>	<u> </u>	$\overline{}$	<u> </u>		490	15,5	<u> </u>	<u> </u>	<u> </u>
2	12IN	M	P	Mra	8	17	1 14.1 1	M	019	8							489	16,1			
7	DAN	M	P	ora	B	17	1 1.1.1.1	IM	Ora	Ø		-					440	16.1			
3	133N	M	P	org	0	17	3 12.1 1	R	gravel	Ø		1.1					426	16,1			
2	13.0 N	R	P	Cobbo	Ø	19	13.71	I M	org	X			1.00				335	16.0			
3	Dilo N	R	P	Cobrio	Ø	210	ALGI C	M	Org	6							358	16,0			
14	8,2 N	R	ρ	gravel	0	20	9 1391	IM	org	Ø							389	170			
2	196 N)	R	9	Cubble	0	190) BAN	M	oro	Ø							425	17.1			
1	14.0 N	R	P	cobble	Ø	189	14.4 N	M	ond	0							305	16,2			
2	14.5 N	R	P	cobble	0	155	12.3 M	S	sand	Ø							277	Ilc. I			
2	ILI N	R	P	cobble	8	122	10.21	M	070	Ø							248	15.4			
2	1.8 N	R	P	acavel	8	123	SAN	R	gravel	Q							249	15,4	1		
1	8.0 N	R	P.	Cobble	Ø	140	10.5/	M	org	D.							227	15,2			
5	132N	R	P	asavel	Ø	156	13.70	M	pro	Q.							207	15.2			
1	14,1 N	M	P	Brg	Ø	155	1 9.0 K	M	Old	Q							187	16.2			
1	13.9 N	M	p	pro	Q	158	4.0 M	M	org	Ø						-	109	102			
3	120 N	M	P	org	R	H2	10,61	M	610	Q							176	15.2			
1	3.0 N	R	P	gravel	Ø	141	1 10.91	IM	org	Ø						-	154	16.7			
0	14, 3N	M	1	org	8	12-	1 10.71	M	org.	Q						-	139	14.6			
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6	5,0 N	R	P	copple	Ø	106	10,2 N		arg	Ø				0				-			
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8		M	P	arg	N	89	8.0 N		ora	8							-	-			
6	NAME ADDRESS OF TAXABLE PARTY.	M	P	(gro	8	90	A ODI		org	à								-			-
-	10.0 N 13.1 N		P	ord		91	7.8 A		org	R				6				-	-	-	-
8	14,20		P	Org	8	70	40 N		OVA	X				-	· · //= *		-	-		-	-
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						Crow	ody/Proje	Head	1C her	Lut	20,00	Laur	ra Sa	Date:	613	1202	22					
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				sedment up	/	1	tock 23	Clay wood	2	1 C	/	/	/	/	/	/	/	/		/	/	/
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52	7.2 A	M	_	org		(.	(···	<u> </u>	295	10.3	N	M	org .		<u> </u>	<u> </u>	<u> </u>	/ .	<u> </u>	863	167	<u> </u>
12	9.0 A	M	P	019	Ø	-			94	9.0	N	M	org	Ø						839	19.2	
(0	93 N	111	P	059	8	+			93	2.5	M	M	p10		11							
8	10.0 N	M	P	. 610	6		-		85	10,7	N	M	ord	8			-					
	9.4 A	IM	P	org	0	-	1	2	74	11.4	N	M	010	8								_
2	10.2 N	M	P	PIO	Ø			8	73	11.2	N	M	org	X				1	27			-
7	10,5N	M	P	DIG	Ø			8	72	1.8	¥	M	wood	1	(-							
7	10,9 N	M	P	org	Q			8	60	3.0	N	R	Cabble	8				4 - A				
6	8.2 A	PIC	P	org	Ø		-	. 2	01	12.0	N	M	org	à					/			
16	15:2 N	M	P	010	B			8	50	11.7	N	M	610	Ø						1		
4	10.6 N		P	org	R	1			50	13,1	N	M	org	0					1	1		
5	K.Z N		P	org	8				48	11.5	N	M	DIQ DIO	00			1					
5	10.7 N	M	P	org	8			8	46	25	X	M	org	7	1							
e	PON	M	P	org	Ø			8	59	4.0	Y	M	org	1					1			
7	9.4 N	M	9	org	Q	240		2	312	8.4	N	R	Catolo	Ó		100						
0	10.1 N	M	P	pro	Ø		-	0	13	7,1	N	M	Org	Ø,			i.	8. 19.12				
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-	2.4 N	M	P	org	1	3 1					N	M	0/9	Ø	pilu	Ricer	rear	SUDIG				
5	74N	M	P	org	0.						N	M	0/9	B	Ac A	1035-	4					
	9.7 N	M	p	org	Q	1							114	X	1759	L'V V			1	1		

m	consol	ida	ted	combin detrition	ation	Waterbod	y/Project	: Gi	10					Date:	e141.	1022	-					
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	and. In	the	mic	dale /		and the sub-	/ /	/ /	.0/	/ /	/ /	/ /	/ /	/ /	/ /	/ /	/	/	/ /	/ /	/ /	/ /
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yanic	much	- fr	e,	/ /	/	14	2.1	124' . d'	/	12 x			/ /		/	/ /	/	/	/	/	/	/ /
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Same	Depth Depth	100	minants	Addie 52	50/200	18	125	210	0/0	2/	/	10	7 <	3/3	3/5	9/43	5/2	5/2	12	A CONTRACTOR	/	1
773	120N	M	P	ore line the the state	0	State Line Contract and State	<u> </u>	<u> </u>	<u> </u>	while and		931	8.41	N	M	ora	0	(···	1	ſ.	1	<u> </u>
7912		M	P	ora	Q							939	8.1	N	M	ora	Ø					
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227	LAS IN	R	P	cobole	Ö.				1			949	6.0	N	M	ord	1	1				
226	UN SI	S	P	Sand	0							945	5.0	N	S	Sana	1		11			
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358	9.5 N	M	P	019	Ø							930	9.0	Ň	m	pro	Ø					-
871	SU N	R	P	gravel	Q							921	9.4	N	M	org	0			-		
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188	10,0 N	M	P	0(0	8	_						899	9.9	N	M	210	0					
392	9.91 N	M	P	010	8				-	-		889	10,2	N	M	org	0		-			
102	9.7 N	50	P	sand	8					-		878	10.5	N	M	CRY	0			-		-
103	Lag N	R	P	COPPE	8		1		-			888	10.6	N	M	OR	Ø			-		
714	2.4 N	S	P	Sand	Va		(-				290	10.7	N	M	org	8					
913	9.2 N	M	P	019	0						~	909	10.4	N	M	org	8	-			+	-
927	8.6 N	14	P	org	a	-						920	9.6	N	M	org	8		-			
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947	128 N	M	P	org	Ó							944	4.8	N	M	dra	Q					
940	8.3 V	M	P	Org	Ø	1						943	511	N	S	Sand	X					
932	8.4 N	M	P	org	Ø							948	8,1	N	M	010	Ø					
923	8.8 N	M	p	Org	8							951	10.3	N	M	org	8					1.00
912	95N	M	P	org	Ø		1			1		953	4,6	M	M	org	Ø					
109	9.5N	M	P	DID D	8	1						956	6.0	N	R	boulder	Ø					
000	9.MN	M	P	Org	Ø							955	Non N	av	-							
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3	14.7 N			-	Ø														-	599	15,4	
7	12.4 N	M	P	org	88	-						-							-	548	16,4	<u> </u>
1	14.0 N	8	P	01900	8								-						-	517	15,9	
,	13,9 N	R	2	erravel	Ø		-		1.000											387	16.7	
	M2N	R	7	gravel	Ø															334	16.0	
	8.9 N	M	P	arg	Ø															357	10:0	
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14	60NR	P	COLDY	1	1							- Ci			111	17.6	16	18.3	
9	40NR	P	gravel	Q									-		129	18.5	11	19,1	
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20	121 N M	P	drg	Ø			-	-			Print 1				147	17.1	(5	15,9	
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18	12.9 N M	P	org	Ø						-		1			127	15.6	39	19.6	
01	40 Y M	P	wood	0	1								-		144	16.3	68	16.8	
7-7	80 N M.	P	org	D	-	-			24		-				143	16.3	107	226	. 19
13	13.6 N M	P	019	0						-			-		160	15,8	107 52	22.6	14
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tog 10.5 N	M	P	org	Ø					2		838	N.6N	M	ora	Ø				382		
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	13.0 N	M	9	org	Ø,						290	8.0	N	R	gravel	D	-	100	240	15.1	
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	ILY N	M	P	org	Q						321	13, 1	N	M	pro	8			270	15,6	
	10.5 N	M	P	pro	Ø	L					322	12.9	N	M	pro	Ø			268	15.5	
-	96 N	M	P		Ø						323	13.8	N	M	pro	Ø			294	15.1	
)	2.9 N	R	P	Cobble	Ø			-			294	14.3	N	M	org	Ø			297	15,6	
1	96 N	M	P	org	Ø			-			295	14.6	N	M	010	S			298	16.3	_
2	9.8 N	N	9	610	0			<u> </u>	-		327	9,9	N	M	org	00			329	17.6	1
e	9.9 N	M	P	erg	Ø			-			328	8.9	N.	M	org	8			300	172	1
3	7.0 N	R	P	org	D.			2.11			385	100	N	M	9	R	~		272	16.2	
1	13,3 N	14	P	01000	8		-				352	14.8	N	M	org	Ø	1		379	17.6	
4	1357	M	P	OR	B						351	10.3	N	M	org	0			331	16,9	
7	M.2 N		P	Pro	8						325	7.5	N	M	PIO	Q	-	1	332	ternes	
	14.9 N	and the owner of the	9	010	Ø		2				324	7,0	N	5	sand.	Q			355	17,3	
	139 N	M	P	p76	1		1.30				320	12.9	N	M	arg	Ø	N	1	384	17.8	5.
	85 N	M	Ρ	010	Ø	1.00				2	349	13.3	N	M	pro	Ø			421	15,1	5
7	13.6 N	M	p	ang	D			1			348	12.5	N	M	ord	Q			420	18.7	
	11,3 N	-	10	org	Ø			3.55	1		347	12.2	N	M	ond	Ø			419	18.6	
9	M.9 N		P	drg	8						346	11.7	N	M	pro	Ø.			383	18.0	
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8	N.T.N	1	P	org	8	3.3455	and the	10.000	1		-			-	5				353	17,2	
8	3,9N		\$	COLODIO															320	15,1	

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535 14,0 Y M	P	wood	Q	<u> </u>	<u> </u>	<u> </u>	(·	1.035	14.5	NM	org	&	$f \cdot f$. (014	15.7	. 587	18.9	<u>/ ·</u>
34 9.7 N R	P	gravel	Ø						14.7	NM	dra	Ø		(013	15.4	586	15,9	
el 11.5 N M	P	pro	8					1032	14,7	NM	ora	Ø	Mar and	(010	15.2	585	14.3	
20 1.3 N S	P	sand						1050	12.8	NM	pro	Ø		Cell	5	609	15.7	
59 2.8 N S	P	sand	0					(055	9.5	NM	pio	Ø		634	15.4	588	18.2	
02 14.5 N M	q	wood	8			-	1.000	707	7.0	NR	boulder	Ø		184	1 1 1 1 1	589	15.7	
03 145N M	P.	pig	Ø					208	9.0	Y M	wood	Ø				590	17,7	100 1
84 11,8 Y M	P	wood	8					209	2.0	NR	cobble	Ø		and the second		591	15.7	
83 10.6 NM	P	org	00					683	7.5	NS	sand	Ø				592	16.9	
82 8.0 N M	P	1 -						657	12.3	NM	010	B	1.6			593	16.7	
06 13.7 NM	P	_ <u>610</u>	Ø					658	13,0	NM	ora	Ø		100		594	18,1	
06 137N M	P	019 019	N		-			684	8.0	NM	670	8		1		595	10.3	
08 13.5 N R	9	COBOLE	Ø				1	710	13.5	NM		Ø		and the set		596	16.1	-
9 10,8 N R	P	gravel	8					685	14.1	NM	org	R	1000	-		597	15.9	
22 H.3 N M	P	010	8	1				686	13,7	NM	0	Ø				598	15,4	
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20 14,4 NM	P	ora	0					640	13.3	NM	org	Ø				220	17.4	
14.8 N.M.	.P.	ara	X	1				687	13.9	NM	org	0		1.1		218	15,7	
36 HUGHIM	P	010	Ø					688	14,5	NM	org	6.				118	19.1	
31 13.1 N M	P	070	81					189	B.7	NM	org	Ø	Sec. 18.			101	16.4	
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81 90 NM	P	019	15					748	13.0	NM	org	de la				(018	15,9	
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82 98 NM	D		Ø															

Incidental - Schoenoplectus acutis

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30	SO N				Ø	1	(1	3					784	12.0	NM	1	00	-			
(0)	12.6 N	M	P	org										802	12.5	NM	2	Ø				
5	12.8 M	M	P	270	8					-	<u> </u>			820	11.3	NM	~	8		100		
PA PA	9.8 V	1	P	bood	8		-					- Andrews		851	11.4	NNN		Ø				
10	1440 14	I.M.		wood										852	11. 2	NM	org	Ø				
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9	10.4 1	m	P	word	6						-		-	821	11.0	NM	0	Ø				
10	10.9 V	m	0	org	Ø			-	-	1	1			803	10.3	NM	org	8				
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23,	ILON	M	P	010	Ø			-						767	12.6	NM	org	0				
10	11.7 N	M	P	019	6						-			749	12.9	NM	pro	Ø				
28	7.0 N	R	P	gravel	0									750	13.3	NM	org	Q				
87	11.2N	M	P	org	Ø			1						768	12.5	NN	Org	Ø			3	
09	4.0 N	R	P	Boulder	Ø,									786	12,2	NM	pro	A				
51	12.4 N	M	ρ	org	Q									804	24	NM	org	0				
52	12.4 N	M	P	010	0									805	11.5	NN	1010	Ø		<u> </u>		
53	12.6 N	m	P	010	81	10000	-				-	1	-	822	11.3	NM	0	Ø				
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h 7	10,9 N	M	ρ	018	Q			-						867		NM	ong	X		-		431
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28	ILD N	M	P	019	8				-				1	855	10.1	AL A	810 /	Q	1			
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71	11,5 N	11	r	0.9	N.	L						1	1	001	In	10	Ing	4	1	1		

e V	10 mains	il foo	Sterks.		Wat	erbody/Proj	ect:			teatt		Date:	<u>el231</u>	2022	>					
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736	12.7 N	M	P	010	8		640	15.0	694	13.8	NM	Org	R					1	-	
735	12,9 N	M	ρ	org	Ø		641	16.1	667	14.7	NM	019	Q			-				
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132	13,5 N	-	ρ	org	Ø		612	16.9	(069	14.4	NM	010	0	-		Completion of		1.07.00	No series	-
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691	13.8 N		P	019	Ø				646	13,9	NM	p10	0		and all				· · ·	
717	13,6 N	M	P	619	à				647	14.3	NM	org	Ø					244		
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ATTACHMENT B Aquatic Invasive Species Survey Field Data Sheets – July



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			Waterb	oody/Pi w:	roject: <u>G</u> I	of (Gile Flo	wage	- U	Pot	Clou	dy		[Date:	7/6	alela	206	2		+	ne	Fiel	d.							
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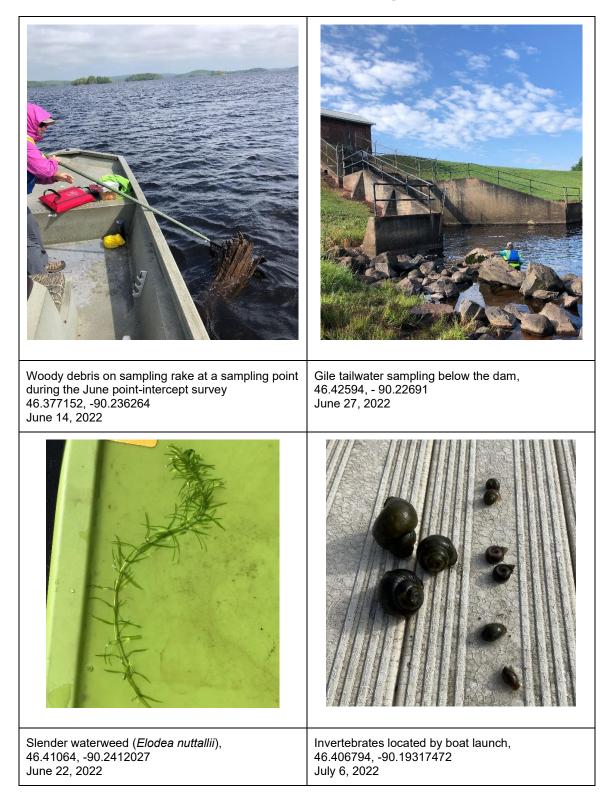
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and Deam the	NO. Dou		nP Addit 53	101 1013	Cero	Elotin	Eloder	loder	WIND N	WILD N	WINN	elle per	200	ear po	Lan Pot	ton po	tan po	con pot	all Rout	500	1 . J	0 50	or 9 11	on AC	NO. S.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1.	/
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8 4.3 N 7 6.6 N	M	P	DRG	0			1				14 J				_							33			1			
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50 D.6 N	R	e	GRAV	0				- Shall			1			201	90.9	- And						in in		97. ···				
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9 4,5 N		P	1083	0			-			1.10	Star.			Lawren		-						23.0124	1				-	

ATTACHMENT C Photo Log



Gile Flowage ATIS Study Report Photo Log





Northern clearwater crayfish by Hwy C boat launch, 46.406775, -90.193144 July 6, 2022

Freshwater sponge growing on rocks below the dam, 46.42594, - 90.22691 July 27, 2022



An example of the plentiful wildlife habitat and basking areas in one of the bays of Gile Flowage, 46.38025, -90.24320277, June 30, 2022

ATTACHMENT D Terrestrial Survey Field Data



		/	Landcone Cassification	- sub	e itud	Relative Abundance	aubennite.	kitom	noneysuchie Spotted H	apweed	. cattail	estife	
		Site#	Landcovert	Starting attud	sorting long tub	Abundanceale	auenur r.	E. Eurasiant	noneysuche Spotted W	harrow le	at cattail	os Tansy	
Project	Gile					Relative Abundance			3				Í
County	Iron	1	Roadside	46.40563631	-90.1929027	Length of Shoreline			927				
Date	7/25, 7/26, 7/27/22					Relative Abundance	1	1	-	1			
2410	Kellen Black	2	Northern Mesic/Wet Mesic Forest	46.40391567	-90.19321404	Length of Shoreline	20	10		20			† †
Field Crew		2		40.40001007	-50.15021404		1	10	1	1			
r leiu crew	Heather Lutzow	-				Relative Abundance							
	Laura Sass	3	Talus Forest	46.3679376	-90.24414009	Length of Shoreline	20	10	10	10			ļ
			De esta ista	40.00774000	00.05000705	Relative Abundance			3				
		4	Roadside	46.38771338	-90.25603765	Length of Shoreline		4	1126				
			Newtherm Mercia Connect	40.0011404	00.05400000	Relative Abundance		1					
		5	Northern Mesic Forest	46.3911494	-90.25426332	Length of Shoreline	+	10		4			
		-	North and Maria Francis	40 44707000	00.04500700	Relative Abundance		2		1			
		6	Northern Mesic Forest	46.41787036	-90.21598766	Length of Shoreline		129		931			
			Northann Maria Correct	40 40000700	00 00004000	Relative Abundance							
		7	Northern Mesic Forest	46.42223762	-90.22364629	Length of Shoreline		1		1	4	1	
			Northann Maria Correct	40 40507457	00 00700070	Relative Abundance		1		1	1	1	
		8	Northern Mesic Forest	46.42507457	-90.22788273	Length of Shoreline		132		115	10	10	
		-		40 44707000	00.04500700	Relative Abundance							
		9	Northern Wet Mesic Forest	46.41787036	-90.21598766	Length of Shoreline							
		40	North and Maria Francis	40,4007050	00.04004400	Relative Abundance							
		10	Northern Mesic Forest	46.4097658	-90.21684433	Length of Shoreline				4			
				10 10 1000 15		Relative Abundance				1			
-		11	Northern Mesic/Wet Mesic Forest	46.40123315	-90.21631864	Length of Shoreline			0	239			
				10 10000500	00 100 10705	Relative Abundance			3			_	
		12	Roadside	46.40636593	-90.19240795	Length of Shoreline			1105				
				40.4000.4775		Relative Abundance				1		-	
		13	Northern Mesic/Wet Mesic Forest	46.40334148	-90.19235749	Length of Shoreline	+		-	20		2	
			De a da ida	40 44000740	00 40005000	Relative Abundance	-		2	1		2	
		14	Roadside	46.41368718	-90.18665268	Length of Shoreline	+		695	254		695	
		45	Newtoown Wet Marie Erwent	40 44055000	00 4000 40 15	Relative Abundance							
		15	Northern Wet Mesic Forest	46.41355862	-90.18324345	Length of Shoreline	+			-			
		10		40,40000070	00 40070704	Relative Abundance				2			
		16	Emergent Wetland/Tag Alder	46.40362276	-90.18379731	Length of Shoreline		4		197			<u> </u>
		47	Tag Alder/ Northern Wet Mesic	46.26700000	00.04470050	Relative Abundance Length of Shoreline		10					
		17	Forest	46.36709969	-90.24473256	Relative Abundance		10					
		laland 1	Pouldor	46 20741007	00 01001007							-	<u>├</u> ──┤
		Island 1	Boulder	46.39741007	-90.21231307	Length of Shoreline Relative Abundance						+	
		lalard 0	Pouldor	46 2050040	00 01074744								
		Island 2	Boulder	46.3950843	-90.21671714	Length of Shoreline	+						┝────┤
		Jaland 2	Northorn Magic/Tolug Forest	46 2754467	00.24174000	Relative Abundance Length of Shoreline							<u>↓ </u>
		Island 3	Northern Mesic/Talus Forest	46.3754167	-90.24174699	×							
		laland 4	Northorn Magic/Tolug Forest	46 27762404	00 2420740	Relative Abundance							<u>↓ </u>
	l	isiand 4	Northern Mesic/Talus Forest	46.37763421	-90.2420718	Length of Shoreline	1	1	1	1	1		

	Landcover Consultation	11110	e Status on Stud	a Apputones a Relative Abundance	aubennine Length F.	skinorn	onevsuche Spoted W	hapweed Narrow-le	as cattail	sestrife	
Site*	Landcover	Stating attud	stating lo.	Abundariscale	GIOSSYPL	Eurasian	Spotted h	Narrowile	Purple los	Tansy	
	Northern Mesic/Talus Forest	46.37927408		Length of Shoreline							
Island 6	Northern Mesic Forest	46.3834405	-90.25189667	Relative Abundance Length of Shoreline	_						
Island 7	Northern Mesic Forest	46.38250543	-90.25092778	Relative Abundance Length of Shoreline Relative Abundance		2				2	
Island 8	Northern Mesic Forest	46.38810606	-90.24502808	Length of Shoreline Relative Abundance	=	30 1				10	
Island 9	Northern Mesic/Talus Forest	46.38388739	-90.23944997	Length of Shoreline Relative Abundance		10					
	Northern Mesic Forest/Boulder	46.38564955	-90.23738549	Length of Shoreline Relative Abundance							
	Northern Mesic Forest/Boulder Northern Mesic Forest	46.38552455	-90.2355012 -90.24859253	Length of Shoreline Relative Abundance Length of Shoreline							
	Northern Mesic Forest	46.39008992	-90.25152141	Relative Abundance Length of Shoreline							
lisland 14	Northern Mesic Forest	46.39339122	-90.24593133	Relative Abundance Length of Shoreline							
Island 15	Northern Mesic/Talus Forest	46.3981903	-90.2335241	Relative Abundance Length of Shoreline		1 20					
Island 16	Northern Mesic Forest/Boulder	46.4027304	-90.23157392	Relative Abundance Length of Shoreline Relative Abundance		1					
Island 17	Northern Mesic Forest	46.41416347	-90.22126764	Length of Shoreline Relative Abundance		10					
	Northern Mesic Forest	46.41381942	-90.22026518	Length of Shoreline Relative Abundance							
	Northern Mesic Forest	46.41305396	-90.22060347	Length of Shoreline Relative Abundance	1 40	2					
	Northern Mesic Forest Northern Mesic Forest	46.41203925	-90.22225802 -90.21781638	Length of Shoreline Relative Abundance Length of Shoreline	40	10 2 94					
	Northern Mesic Forest/Boulder	46.41513219	-90.23786323	Relative Abundance Length of Shoreline		1 10					
Island 23	Northern Mesic/Talus Forest	46.40782333	-90.23977478	Relative Abundance Length of Shoreline		2 331					
Island 24	Boulder	46.41154061	-90.23410926	Relative Abundance Length of Shoreline Relative Abundance		3					
Island 25	Northern Mesic Forest/Boulder	46.40622036	-90.23251253	Length of Shoreline Relative Abundance		192					
	Northern Mesic Forest	46.40294799	-90.22408812	Length of Shoreline Relative Abundance		2	2	1		1	
Gile Park Meander	Park right-of-way	46.4259705	-90.225051	Length of Meander Route		508	1612	71		329	