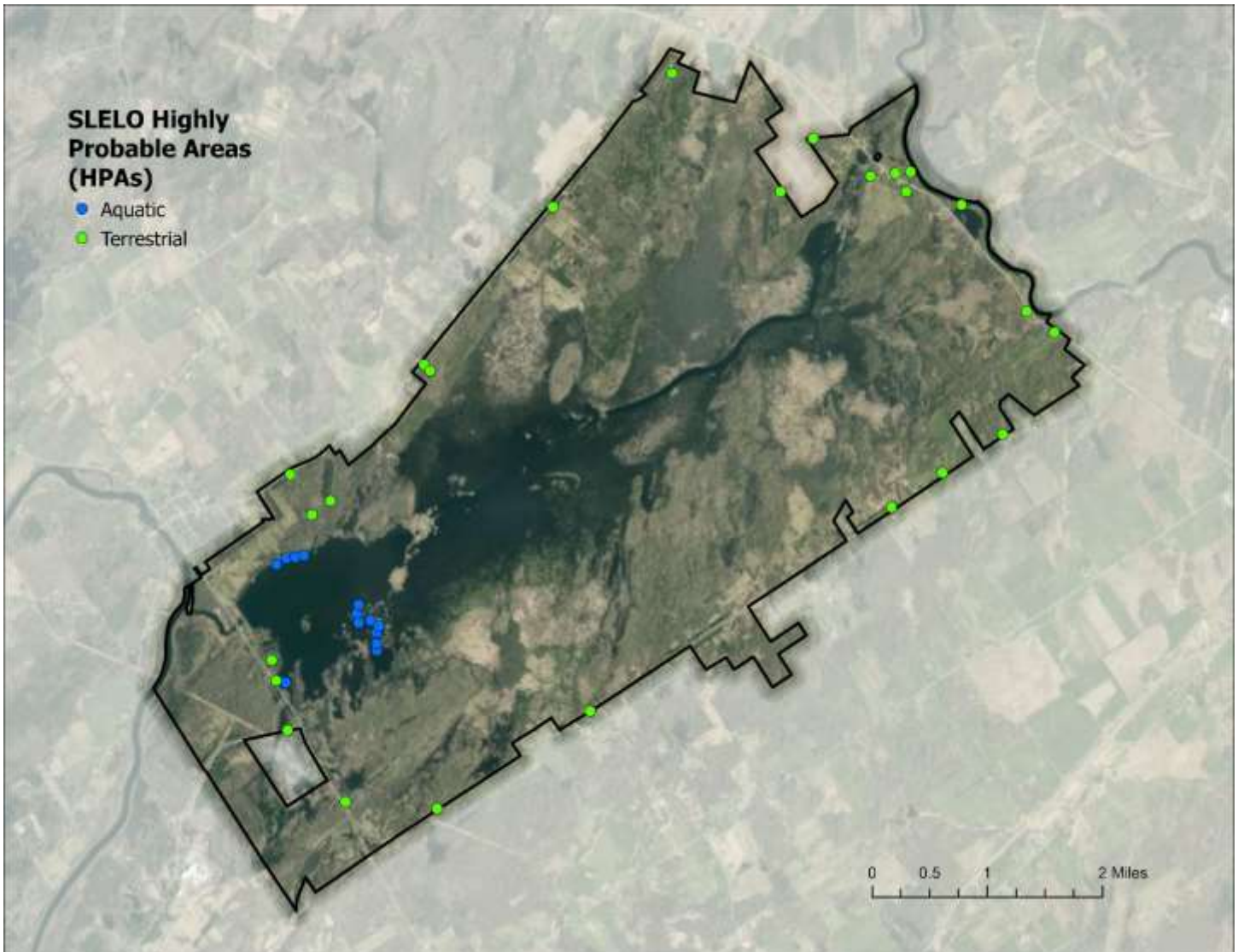


# Upper and Lower Lakes WMA

Upper and Lower Lakes WMA PCA was surveyed for terrestrial invasive species in July and aquatic invasive species in August by Brittney Rogers, Robert Smith, Alisa Trudell, and Cole Richards. SLELO staff surveyed 27.46 acres of 25 HPA's for terrestrial invasive species using visual surveys (Map 11). Terrestrial data was recorded using the iMapInvasives Mobile Advanced (iMMA) application. Point intercept survey techniques were used to survey 14 HPA's for aquatic invasive species. AIS survey data was recorded using a custom Survey123 application.



**Map 11.** Map of Upper and Lower Lakes WMA HPAs examined by SLELO staff in 2023.

The following **Invasive Species** were found:

Invasive Species	Tier Ranking	HPA's Affected
Common reed grass, phragmites	3	2
Japanese Knotweed, Japanese Bamboo	3	5
Oriental Bittersweet	3	7
Pale Swallowwort	3	1
Common Buckthorn	4	18
Honeysuckle (species unknown)	4	18
Purple Loosestrife	4	7
Spotted Knapweed	4	1
Wild Parsnip	4	14
Bird's Foot Trefoil	*	1
Black Locust	*	1
Climbing Nightshade, Bittersweet Nightshade	*	1
Common mullein	*	4
Elecampane	*	1
Garlic Mustard	*	2
Mugwort	*	1
Orange Daylily	*	1
White Poplar	*	1

\* Species is not currently tier ranked

**NO NEW TIER 1 OR TIER 2 SPECIES WERE DETECTED IN 2023**