



# INVASIVE AQUATIC PLANT SCREENING SURVEY DOCUMENTATION FORM (5/10/2018)

Please complete a separate documentation form for each distinct survey: each waterbody surveyed, or each different survey level conducted on a single waterbody. Submit a copy of each completed form by Nov. 15, 2018 to LSM 24 Maple Hill Rd. Auburn ME 04210.

<b>Section 1: General Information</b>	<b>Survey Map Attached?</b> (circle one) <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Y</span> N
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Waterbody Watchic Lake Town Standish County Cumberland State ME

MIDAS # 5040 Date/s 8/18/2018 On-Water Survey Hrs 3 X # surveyors 10 = Total Hrs 30

Sector/s Location: 1: North, 2: East, 3: South, 4: West. See map attached. Infestation Surveillance NO

Lead Surveyor Paul and Nancy McNulty (Cert# MC-1857) IPP Training: Y/N Cert # MC-1849 Plant ID Proficiency Cert: Y N

Phone # 978-337-1246 Email p3mcnulty@gmail.com Regional Affiliation \_\_\_\_\_

Name of Lake Team Watchic Lake IPP Team For Multi-Year Surveys: YEAR 3 OF 3

Surveyor Type (check one) IPP Volunteer  Agency \_\_\_ Research/Ed Inst. \_\_\_ Professional \_\_\_ Other (explain) \_\_\_\_\_

Additional Surveyor # 1 Martha and Donal Drew Cert # DR-1278 IPP Training: Y/N

Additional Surveyor # 2 Kim and Steve Lajoie with David Maus Cert # \_\_\_\_\_ IPP Training: Y N

Additional Surveyor # 3 Cathy Watson, Wendi Rodriguez, and Owen Smith Cert # \_\_\_\_\_ IPP Training: Y N

*Check all that apply unless otherwise indicated*

Survey Level		Screening Methods		Relative Water Level (check one)	
check one	check one	VISUAL METHODS	GRAB SAMPLE METHODS		
<input type="checkbox"/> Limited	<input checked="" type="checkbox"/> By Sector <input type="checkbox"/> Entire	<input checked="" type="checkbox"/> Random Points	<input type="checkbox"/> Random Points	<input checked="" type="checkbox"/> Above	
<input type="checkbox"/> Level 1		<input type="checkbox"/> Plot Points	<input checked="" type="checkbox"/> Target Points	<input type="checkbox"/> Normal High	
<input type="checkbox"/> Level 2		<input type="checkbox"/> Transects	<input type="checkbox"/> Plot Points	<input type="checkbox"/> Below	
<input type="checkbox"/> Level 3		<input type="checkbox"/> Complete Coverage		Maximum Observed Plant Depth (Circle Units)	
<b>Invasive Plant/s Targeted</b>					
<input checked="" type="checkbox"/> Complete List - all 11 invaders on section 2 table below				8-10 Meters <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">/</span> Feet	
<input type="checkbox"/> Partial List - Use codes from Sec. 2 to list specific targets _____					
Additional Survey Goals			Grab Sample Tool	Water Clarity	
<input checked="" type="checkbox"/> Inventory of dominant native plants by sector			<input checked="" type="checkbox"/> Long Handled Implement	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Fair	
<input type="checkbox"/> Inventory of dominant native plants by waterbody			<input type="checkbox"/> Weed Weasel (double rake on line)	<input type="checkbox"/> Good <input type="checkbox"/> Poor	
<input type="checkbox"/> Complete inventory of native plants including rare/endorsangered species			<input checked="" type="checkbox"/> Hand		
Light Conditions	Surface Conditions	Plant Conditions	Viewing Methods		
<input type="checkbox"/> Bright (distinct shadows)	<input type="checkbox"/> Flat (glass-like)	<input type="checkbox"/> Pre-Mature	<input type="checkbox"/> 4" Diameter Tube Scope	<input checked="" type="checkbox"/> Facemask or equivalent	
<input type="checkbox"/> Cloudy Bright	<input checked="" type="checkbox"/> Ripples	<input type="checkbox"/> Early Decay	<input type="checkbox"/> 6" Diameter Tube Scope	<input checked="" type="checkbox"/> Polarized Lenses	
<input checked="" type="checkbox"/> Overcast	<input type="checkbox"/> Wavelets (no whitecaps)	<input checked="" type="checkbox"/> Mature	<input type="checkbox"/> Bucket Scope or equivalent	<input checked="" type="checkbox"/> Naked Eye	
	<input type="checkbox"/> Scattered Whitecaps	<input type="checkbox"/> Advanced Decay	<input type="checkbox"/> Trunk Scope or equivalent	<input type="checkbox"/> Other _____	

<b>Section 2: Invasive Aquatic Plant Screening Survey</b>	<b>Suspected IAP observed:</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Y</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">N</span> (Continue this section only if YES)
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Suspicious Plant Submitted for ID: Yes N To: LSM Yes DEP \_\_\_ Other (explain) \_\_\_\_\_ Date: 8/18/2018

**Brazilian Elodea (BE) Curly-Leaf Pondweed (CP) Eurasian Watermilfoil (EM) European Frogbit (EF) European Naiad (EN) Fanwort (F)**  
**Parrot Feather (PF) Yellow Floating Heart (YH) Variable Leaf Watermilfoil (VM) [VMh for hybrid] Water Chestnut (WC) Hydrilla (H)**

IAP CODE	Sector / Location	GPS Lat/Long	Buoy Code	NOTES
H	2			Photo sent to Roberta Hill. Plant was <b>not invasive</b> but native Slender Naiad. Also confirmed by Nate Whale and PDW.

**Section 3: Native Plant Inventory**

For inventory: ✓ = presence; D = dominant; U = uncommon

Common Native Plant Checklist *	Sector				Common Native Plant Checklist (con't)	Sector			
	1	2	3	4		1	2	3	4
aquatic moss spp.					<i>Potamogeton natans</i> floating-leaf pondweed				
freshwater sponge spp.					<i>Potamogeton oakesianus</i> Oakes pondweed				
Metaphyton (colonial algae “clouds”)					<i>Potamogeton perfoliatus</i> clasping-leaf pondweed				
<i>Bidens beckii</i> water marigold					<i>Potamogeton pusillus</i> slender pondweed			X	X
<i>Brasenia schreberi</i> watershield					<i>Potamogeton pusilloid</i> spp. small pondweed				
<i>Callitriche</i> spp. water starworts					<i>Potamogeton richardsonii</i> clasping (red-head) pondweed				
<i>Ceratophyllum demersum</i> coontail					<i>Potamogeton robbinsii</i> fern pondweed		X		
<i>Chara</i> spp. muskgrass					<i>Potamogeton spirillus</i> spiral-fruited pondweed				
<i>Dulichium arundinaceum</i> three-way sedge					<i>Potamogeton zosteriformis</i> flat-stem pondweed				
<i>Elatine minima</i> small waterwort	X		X	X	<i>Potamogeton</i> spp. pondweed spp.				
<i>Eleocharis acicularis</i> needle spikerush					<i>Ranunculus</i> spp. water buttercups				
<i>Eleocharis robbinsii</i> Robbin’s spikerush					<i>Sagittaria graminea</i> grass-leaved arrowhead				
<i>Elodea canadensis</i> common waterweed					<i>Sagittaria latifolia</i> common arrowhead	X			
<i>Elodea nutallii</i> slender (Nuttall’s) waterweed					<i>Sagittaria</i> spp. arrowhead spp.				
<i>Eriocaulon aquaticum</i> pipewort	X	X	X	X	<i>Schoenoplectus subterminalis</i> water bulrush				
<i>Glyceria borealis</i> northern mannagrass					<i>Schoenoplectus tabernaemontani</i> soft-stem bulrush				
<i>Gratiola aurea</i> golden pert					<i>Sium suave</i> water parsnip				
<i>Isoetes</i> spp. quillwort spp.					<i>Sparganium angustifolium</i> narrow floating-leaf bur-reed	X	X	X	X
<i>Juncus militaris</i> bayonet rush					<i>Sparganium fluctuans</i> floating leaf bur-reed				
<i>Juncus pelocarpus</i> brown fruited rush					<i>Sparganium</i> spp. bur-reed spp.				
<i>Lemna minor</i> common duckweed		X		X	<i>Spirodela polyrhiza</i> giant duckweed				
<i>Lobelia dortmanna</i> water lobelia					<i>Typha latifolia</i> common cattail				
<i>Myriophyllum alterniflorum</i> alternate-flowered water-milfoil					<i>Typha</i> spp. cattail spp.				
<i>Myriophyllum farwellii</i> Farwell’s water-milfoil					<i>Utricularia gibba</i> humped bladderwort				
<i>Myriophyllum humile</i> low water-milfoil					<i>Utricularia intermedia</i> northern bladderwort		X		
<i>Myriophyllum sibiricum</i> northern water-milfoil					<i>Utricularia minor</i> lesser bladderwort				
<i>Myriophyllum tenellum</i> dwarf water-milfoil					<i>Utricularia purpurea</i> large purple bladderwort				
<i>Myriophyllum verticillatum</i> whorled water-milfoil					<i>Utricularia radiata</i> floating bladderwort				
<i>Myriophyllum</i> spp. water-milfoil spp.					<i>Utricularia vulgaris</i> common bladderwort		X		
<i>Najas flexilis/canadensis</i> slender naiad		X		X	<i>Utricularia</i> spp. bladderwort spp.				
<i>Najas gracillima</i> thread-like naiad					<i>Vallisneria americana</i> wild celery (eel grass)				
<i>Nitella</i> spp. stonewort spp.									
<i>Nuphar variegata</i> spatterdock		X		X	<i>Stuckenia pectinate</i> Sago Pondweed		X		X
<i>Nymphaea odorata</i> fragrant water lily									
<i>Nymphoides cordata</i> little floating heart									
<i>Pontederia cordata</i> pickerel weed									
<i>Potamogeton amplifolius</i> large-leaf pondweed				X					
<i>Potamogeton berchtoldii</i> Berchtold’s slender pondweed									
<i>Potamogeton epihydrus</i> ribbon-leaf pondweed									
<i>Potamogeton gemmiparus</i> budding slender pondweed									
<i>Potamogeton gramineus</i> variable pondweed	X	X							

NOTES:

 \*The form listing plants by common name is available at <http://www.mainevlmp.org/volunteer-info/invasive-plant-monitors/data-forms/>
**Section 4: Observed Species of Concern**

SPECIES	Sector / Location	GPS Waypoint	Buoy Code	NOTES
Chinese Mystery Snail	Everywhere			

**EXAMPLE SPECIES OF CONCERN: purple loosestrife, Chinese mystery snail, gleotrichia, didymo**

# Watchic Lake Survey Sites – August 2018

