



INVASIVE AQUATIC PLANT SCREENING SURVEY DOCUMENTATION FORM (2/1/2010)



Please complete a separate documentation form for each distinct survey: each waterbody (or assigned sector) surveyed, or each different survey level conducted on a single waterbody. Submit a copy of each completed form by Nov. 15, 2010 to VLMP 24 Maple Hill Rd. Auburn ME 04210.

Section 1: General Information Survey Map Attached? (circle one) Y N

Waterbody Little Purgatory Pond Town Litchfield County Kennebec State ME
 MIDAS # 5250 Date/s 8/26 + 9/2/2010 Total Survey Hrs (# hrs X # surveyors) 26
 Sector/s Location entire shoreline including inlets & coves and some deeper areas
 Lead Surveyor Buffy DeMatteis IPP Cert # DE1009 IPP Training Y/N Phone # 352-422-3929
 Email Address buffythelobsterkiller@yahoo.com Regional Affiliation Tacoma Lakes Improv. Soc.
 Surveyor Type (check one) IPP Volunteer Agency ___ Research/Ed Inst. ___ Professional ___ Other (explain) ___
 Additional Surveyor # 1 on 8/26 Diane Clay IPP Cert # CL IPP Training Y/N ___
 Additional Surveyor # 2 on 9/2 Susie Wilding-Hartford IPP Cert # WT IPP Training Y/N ___
 Additional Surveyor # 3 _____ IPP Cert # _____ IPP Training Y/N ___

<p>Survey Level (check one only)</p> <input type="checkbox"/> Limited <input type="checkbox"/> Infestation Surveillance <input type="checkbox"/> Level 1 <input checked="" type="checkbox"/> Level 2 + <input type="checkbox"/> Level 3 (By Sector) <input type="checkbox"/> Level 3 (Entire)	<p>Screening Method/s (check all that apply)</p> <p>VISUAL METHODS</p> <input type="checkbox"/> Random Points [VR] <input checked="" type="checkbox"/> Plot Points [VP] <input checked="" type="checkbox"/> Transects [VT] <input checked="" type="checkbox"/> Complete Coverage [VC] <p>GRAB SAMPLE METHODS</p> <input type="checkbox"/> Random Points [GR] <input checked="" type="checkbox"/> Plot Points [GP]	<p>Light Conditions (check all that apply)</p> <input checked="" type="checkbox"/> Bright (distinct shadows) <u>8/26 + 9/2</u> <input checked="" type="checkbox"/> Cloudy Bright <u>8/26</u> <input type="checkbox"/> Overcast
<p>Relative Water Level (check one only)</p> <input type="checkbox"/> Above <input checked="" type="checkbox"/> Normal High <input type="checkbox"/> Below	<p>Maximum Observed Plant Depth (circle units)</p> <p><u>12</u> Meters <u>ft.</u> on <u>9/2</u> <u>5</u> Meters <u>ft.</u> on <u>8/26</u></p>	<p>Surface Conditions (check all that apply)</p> <input checked="" type="checkbox"/> Flat (glass-like) <u>8/26 + 9/2</u> <input checked="" type="checkbox"/> Ripples <u>8/26</u> <input type="checkbox"/> Wavelets (no white caps) <input type="checkbox"/> Scattered whitecaps
<p>Screening Target/s (check all that apply)</p> <input checked="" type="checkbox"/> Complete (all 11 invaders on Section 2 table below) <input type="checkbox"/> Partial (Use codes from Sec. 2 to list specific targets _____)	<p>Grab Sample Tool (check all that apply)</p> <input checked="" type="checkbox"/> Long Handled Implement <input type="checkbox"/> Weed Weasel (Double Rake on Line) <input checked="" type="checkbox"/> Hand	
<p>Additional Survey Goals (check all that apply)</p> <input type="checkbox"/> Inventory of dominant native plants by sector <input checked="" type="checkbox"/> Inventory of dominant native plants by waterbody <input checked="" type="checkbox"/> Complete inventory of native plants including rare/endangered species	<p>Scope Type (check all that apply)</p> <input checked="" type="checkbox"/> Tube Scope 6" diam ___ 4" diam <input checked="" type="checkbox"/> <input type="checkbox"/> 9-10" diam Bucket Scope or equivalent <input type="checkbox"/> Trunk Scope or equivalent <input type="checkbox"/> Facemask or equivalent <input checked="" type="checkbox"/> Other: <u>great visibility by eye</u>	

Don't Forget
to Record
Your Survey
Hours

Section 2: Invasive Aquatic Plant Screening Survey Suspected IAP observed? Y N (Continue this section only if YES)

Suspicious Plant Submitted for ID: Y ___ N ___ To: VLMP ___ DEP ___ Other (explain) _____ Date: _____

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 Waypoint	Buoy Code	NOTES

Little Purgatory Pond 8/26 + 9/2/2010

Section 3: Native Plant Inventory R = rare, P = presence, D = dominant, U = uncommon

Common Native Plant Checklist	Inventory by Multiple Discrete Areas						Composite Inventory	NOTES:
	8/26	9/2						
* aquatic moss spp.	✓	✓					✓	* these were confirmed by Christine Guesette of VLMP on 8/31.
arrowhead, spp. <i>Sagittaria</i> spp.	✓	✓					✓	
* bladderwort, common <i>Utricularia macrorhiza</i>	✓	✓					✓	
bladderwort, large purple <i>Utricularia purpurea</i>	✓	✓					✓	
* bladderwort, spp. <i>Utricularia</i> spp. <i>intermedia</i>	✓	✓					✓	
bur-reed, floating leaf <i>Sparganium fluctuans</i>	✓	✓					✓	
bur-reed, narrow floating-leaf <i>S. angustifolium</i>								
bur-reed, spp. (emergent) <i>Sparganium</i> spp.	✓	✓					✓	
* coontail <i>Ceratophyllum demersum</i>	✓	✓					✓	
little floating heart <i>Nymphoides cordata</i>								
metaphyton (colonial algae "clouds")	✓	✓					✓	
muskgrass <i>Chara</i> spp.	✓						✓	
naiad, slender <i>Najas flexilis</i>	✓	✓					✓	
pickereel weed <i>Potamogeton cordata</i>	✓	✓					✓	
pipewort <i>Eriocaulon aquaticum</i>								
pondweed, clasping-leaf <i>Potamogeton perfoliatus</i>	✓	✓					✓	
pondweed, fern <i>Potamogeton robbinsii</i>	✓	✓					✓	
pondweed, flat-stem <i>Potamogeton zosteriflorus</i>								
pondweed, floating-leaf <i>Potamogeton natans</i>	✓	✓					✓	
pondweed, large-leaf <i>Potamogeton amplifolius</i>	✓						✓	
pondweed, ribbon-leaf <i>Potamogeton epiphydrus</i>								
pondweed, small <i>Potamogeton pusilloid</i> spp.								
pondweed, spiral-fruited <i>Potamogeton spirillus</i>								
pondweed, spp. <i>Potamogeton</i> spp.	✓	✓					✓	
pondweed, variable <i>Potamogeton gramineus</i>								
quillwort spp. <i>Isoetes</i> spp.								
rush, bayonet <i>Juncus militaris</i>								
spatterdock <i>Nuphar variegata</i>	✓	✓					✓	
spikerush, needle <i>Eleocharis acicularis</i>								
stonewort spp. <i>Nitella</i> spp.								
water lily, fragrant <i>Nymphaea odorata</i>	✓	✓					✓	
water lobelia <i>Lobelia dortmanna</i>								
water marigold <i>Bidens beckii</i>	D	D					✓ D	
water milfoil, dwarf <i>Myriophyllum tenellum</i>								
water milfoil, alternate-flowered <i>M. alterniflorum</i>								
water milfoil, Farwell's <i>M. farwellii</i>								
water milfoil, low <i>Myriophyllum humile</i>								
water milfoil, northern <i>Myriophyllum sibiricum</i>								
water milfoil, whorled <i>Myriophyllum verticillatum</i>								
watershield <i>Brasenia schreberi</i>	✓	✓					✓	
waterweed, common <i>Elodea canadensis</i>	✓	✓					✓	
waterweed, slender (Nuttall's) <i>Elodea nuttallii</i>								
wild celery (eel grass) <i>Vallisneria americana</i>	D	D					✓ D	
Arrowhead, stiff	✓	✓					✓ with flowers + balls	
Colonial algae - volvox	✓	✓					✓ small bright green spheres	
Cat tail	✓	✓					✓	
Bladderwort, Northern	✓	✓					✓	

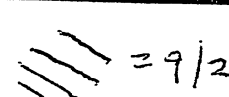
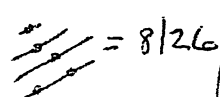
Section 4: Observed Species of Concern

SPECIES	Sector / Location	GPS Waypoint	Buoy Code	NOTES
purple loosestrife (uncommon)	midway on east shore			1 mature plant noted

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

WATER QUALITY SUMMARY

Legend:



PURGATORY POND (LITTLE), Litchfield

Midas: 5250

- Basin: Primary

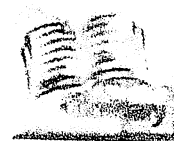
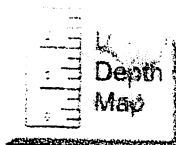
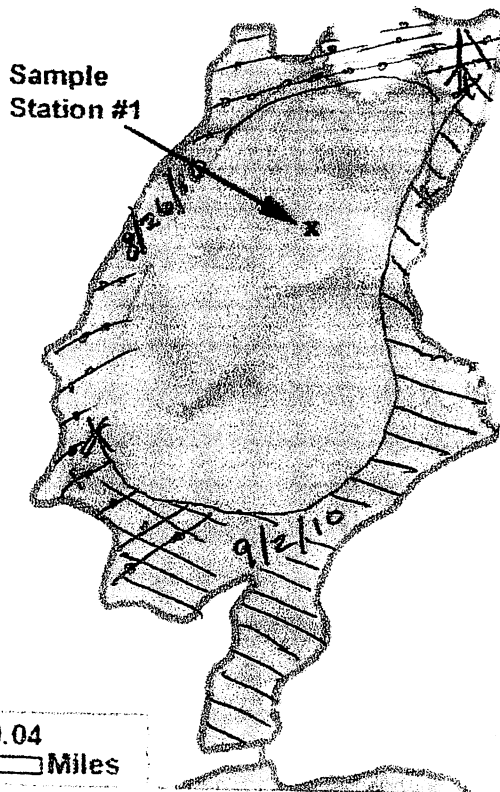
The Cobbossee Watershed District (CWD) in conjunction with the Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate present water quality, track algae blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring data for Little Purgatory Pond has been collected since 1982. During this period, 8 years of basic chemical information was collected, in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Little Purgatory Pond is considered to be slightly below average, based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algae blooms on Little Purgatory Pond is low.

Water Quality Measures: Little Purgatory Pond is a non-colored lake (average color 17 SPU) with an average SDT of 4.6m (15.1ft). The range of water column TP for Little Purgatory Pond is 10-15 parts per billion (ppb) with an average of 13 ppb, while Chla ranges from 2.8-7.0 ppb with an average of 4.8 ppb. Recent dissolved oxygen (DO) profiles show low to moderate DO depletion in deep areas of the lake. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is low.

Little Purgatory Pond is managed as a warm-water fishery.

Filename: purg5250, Revised: 3/06, By: jm



See the Maine Department of Environmental Protection Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at <http://www.pearl.maine.edu> and/or <http://www.maine.gov/dep/blwq/lake.htm>, or telephone Maine Department of Environmental Protection at 207/287-3901 or Maine Volunteer Lake Monitoring Program at 207/783-7733.