

**Bone Lake Monitoring - Special Forces Unit**

**North Landing - Bone Lake**

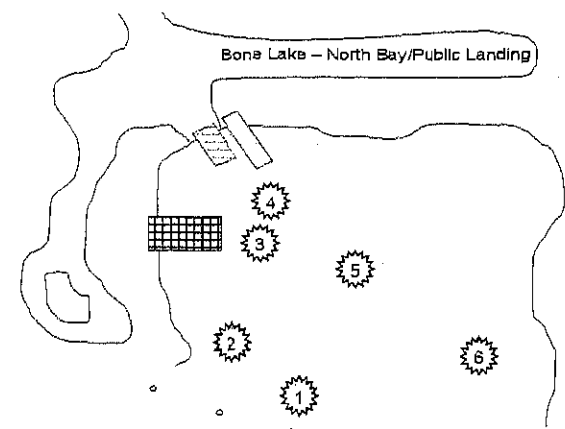
John McCall (1744) Date 6/14/2008 Volunteer Time 1 hour

Sampling Area Description:	Location Latitude	Location Longitude	CLPW	NWM	EWM	Other Species
inside bay reef buoys	45°33.804"	92°23.683"	3	0	0	none
fishing dock	45°33.820"	92°23.705"	3	0	0	nor
north center of bay	45°33.861"	92°23.674"	2	0	0	clasping leaf PW
northeast position in bay	45°33.854"	92°23.629"	2	0	0	clasping leaf PW, some large leaf PW
						Summary:
						A fair amount of CLPW is visible in the bay. There was abundant clasping leaf PW in shallower waters. A small amount of large leaf PW was observed in shallow waters, with some wild celery. There appeared to be very few plants below 5-6 feet of water. The water was clear.

Secchi	Location	Depth	Water Column	Perception of Quality
Secchi Reading	Deep Hole	9' 6"	clear	1
Secchi Reading	South of Large Island	9' 0"	clear	1

**Bone Lake Monitoring - Special Forces Unit**

**North Landing - Bone Lake**



John McCall (817) 44  
 Sample No.  
 Date

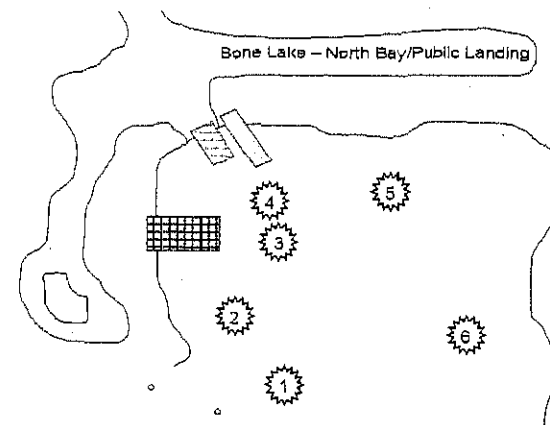
7/4/2008  
 Volunteer Time  
 1 hour

Sampling Area Description:	Location	Latitude	Longitude	CLPW	NWM	EWM	Other Species	
inside first buoy	1	45 33.768'	92 23.633'		3	0	0	no turions; healthy CLPW
inside third buoy	2	45 33.794'	92 23.696'		2	0	0	no CLPW in 6' water or less; growth in 8'
public fishing dock	3	45 33.831'	92 23.711'		3	0	0	some Clasping Leaf at 5'
public landing	4	45 33.848'	92 23.706'		1	0	0	forked duckweed, water marigold, Large Leaf PW
out from public landing	5	45 33.846'	92 23.682'		3	0	0	3.8' of water
other side of bay on way out	6	45 33.819'	92 23.629'		3	0	0	Summary:
								abundance of healthy CLPW, mostly at depths of 7-8', other vegetation at lower depths including Clasping Leaf PW. At shallow depths near north shore, good crop of Large Leaf PW. CLPW breaks surface. Estimate 30-35% of bay is congested with CLPW. Water is still clear but seeing signs of degradation and plant fragments.

Secchi	Location	Depth	Water Column	Perception of Quality
Secchi Reading	Deep Hole	9' 6"	clear	2
Secchi Reading	South of Large Island	9' 6"	clear	2

**Bone Lake Monitoring - Special Forces Unit**

**North Landing - Bone Lake**



John McCall (617) 44

Sample No.

Date

7/18/2008

Volunteer Time

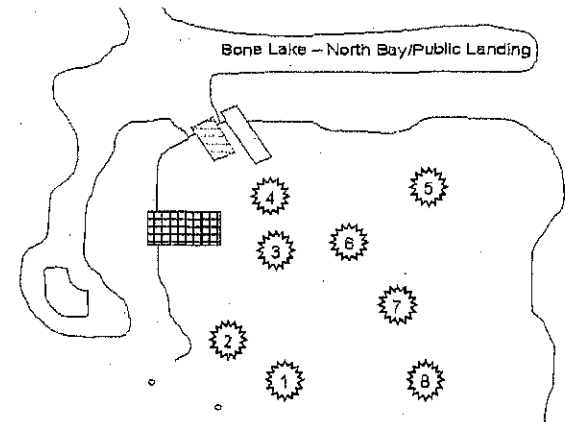
1 hour

Sampling Area Description:	Location Latitude	Location Longitude	CLPW	NWM	EWM	Other Species	
inside first buoy	1 45 33.776'	92 23.649'		2	0	0	CLPW turning brown, starting to deteriorate, 6' water
inside thlrd buoy	2 45 33.795'	92 23.691'		3	0	0	CLPW turning brown, starting to deteriorate, 6' water
public fishing dock	3 45 33.832'	92 23.703'		3	0	0	CLPW turning brown, starting to deteriorate, 6' water
public landing	4 45 33.851'	92 23.702'		1	0	0	large leaf, white-stem, flat-stem PW, 2.5' water
out from public landing	5 45 33.861'	92 23.646'		1	0	0	white stem, coontail, large leaf, 2.5' water
other side of bay on way out	6 45 33.839'	92 23.624'		1	0	0	lots of flat-stem
							<b>Summary:</b>
							CLPW is starting to turn brown and deteriorate, water level is down a bit, white stem and large leaf leaves are turning brown, scattered coontail, didn't find any water marigold this time, appears to be seasonal maturation of the aquatic life and water quality

Secchi	Location	Depth	Water Column	Perception of Quality
Secchi Reading	Deep Hole	6' 3"	fairly clear	2
Secchi Reading	South of Large Island	6' 4"	fairly clear	2

**Bone Lake Monitoring - Special Forces Unit**

**North Landing - Bone Lake**



John McCall (SFT 14), Tim Strait

Sample No.

Date

8/7/2008

Volume/Time

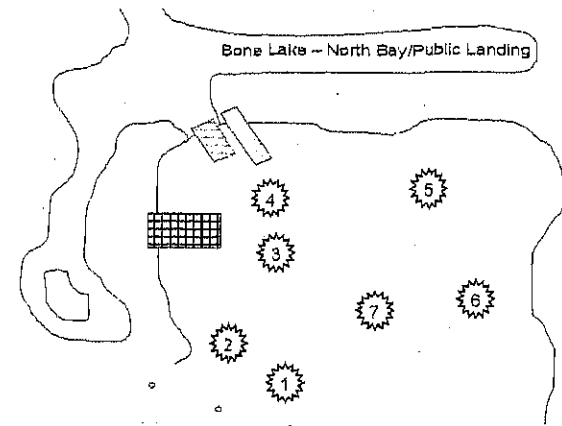
1.5 hour

Sampling Area Description:	Location Latitude	Location Longitude	CLPW	NWM	EWM	Other Species	
inside first buoy 7' deep	1 45 33.773'	92 23.636'		1	0	0	flat stem, heavy coontail
inside third buoy 5.5' deep	2 45 33.786'	92 23.694'		0	0	0	flat stem, forked duckweed, coontail, white stem
public fishing dock 5' deep	3 45 33.821'	92 23.706'		0	0	0	clasping leaf, forked duckweed, flat stem abundant
public landing 5.25' deep	4 45 33.852'	92 23.702'		0	0	0	clasping leaf, coontail, flat stem
shallow bay east 5.5' deep	5 45 33.854'	92 23.648'		0	0	0	clasping leaf, coontail, flat stem
out from public landing 6.5' deep	6 45 33.837'	92 23.654'		0	0	0	flat stem, lots of decaying coontail
leaving bay 7.2' deep	7 45 33.821'	92 23.656'					coontail
leaving bay 9-10' deep	8 45 33.802'	92 23.638'					no aquatic plants
							<b>Summary:</b> By fishing dock, abundant clasping leaf reaching the surface. Fair amount of decaying vegetation. No vegetation at 9-10' depths. Abundant mixture of healthy and decaying plants.

Secchi	Location	Depth	Water Column	Perception of Quality
Secchi Reading	Deep Hole	6' 0"	fairly clear	2
Secchi Reading	South of Large Island	6' 0"	fairly clear	2

**Bone Lake Monitoring - Special Forces Unit**

**North Landing - Bone Lake**



Sample No. \_\_\_\_\_  
 Date: \_\_\_\_\_  
 John McCall (610) 34 \_\_\_\_\_

Date: 8/29/2008	Volume or Time: 1 hour

Sampling Area Description:	Location	Latitude	Longitude	CLPW	NWM	EWM	Other Species
inside first buoy 7' deep	1			0	0	0	flat-stemmed, clasping leaf
inside third buoy 5.5' deep	2			0	0	0	clasping leaf, flat-stemmed, coontail
public fishing dock 5' deep	3			0	0	0	flat-stemmed, clasping leaf
public landing 5.25' deep	4			0	0	0	wild celery, forked duckweed, clasping leaf, flat-stemmed
shallow bay east 5.5' deep	5			0	0	0	coontail, flat-stemmed
out from public landing 6.5' deep	6			0	0	0	forked duckweed, clasping leaf, wild celery
leaving bay 7.2' deep	7						flat-stemmed, coontail
							Summary:
							Vegetation is much sparser with the disappearance of the curly leaf pw. Water is starting to get murky, layer of algae floating on top. Most samples show degraded coontail and flat-stemmed proodweed. Appears ome growth in 6-8 feet of water by other species like flat-stemmed pw to replace curly leaf.

Secchi Reading	Location	Perception of	
		Depth	Water Column Quality
	Deep Hole	5	fairly clear 3
	South of Large Island	5.5	fairly clear 3

Hi Bob

Sue and I checked Rest Point area July 9 for EWM. Spent about 1 hour total, Checked 8 different spots - mainly CLP and Northern Milfoil.

Phil and Sue Foster

Hi Bob

Besides the one time I already reported,

Sue and I did a search on Aug 6 looking for EWM.

For the two times, we spent a total of 3 hours

Please forward your total number of hours including your time when compiled so I can complete the grant.

Phil

# Aquatic Plant Survey

Page 1

## Data Collector/Observer Information

First and Last Names of Observers: Lyn & Cris Dueholm

Contact Information for one observer  
Telephone Number: 715-857-5982  
Email: \_\_\_\_\_

## Monitoring Location

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

*Cris Dueholm*

## Date/Time of Monitoring Trip

Start Date: 6/16 Start Time: 9:00

End Date: \_\_\_\_\_ End Time: 10:15

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours):  
1 1/2 \* 2 = 3 hrs.

## Results (for this monitoring trip only)

### Species seen, habitat information, comments

- \* 2 loons/pairs no babies, Haven't had a pair before that has stayed this long. (very vocal)
  - \* Barometer 29.98; 70°; NW wind. 10-15mph.; clear sky
  - \* lots of pine pollen on south end of lake, especially by sample #2.
- Adults loons left at end of sept. and babies still here. Had 1 still here at 11/4/08. Saw 2 babies learning how to fly in Oct.
- Oct. 6-10 noticed lots of frogs - sm to large (6" long). must be migrating to lake. Seemed in good shape and no extra arms or legs ☺

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 070

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

*mouth creek*

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high heavy

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> )     |
| <input checked="" type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )       | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )          |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )          |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )        |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )             |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )            |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                  |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )         |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |  |

*snails  
various  
\* in front of Murphy's compound  
about 15' out - 4-5' H<sub>2</sub>O lots of  
of curly leaf sitting on top of H<sub>2</sub>O  
Must be about 100' long  
variable*



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 071

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

*Carters  
beehouse*

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> )    |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )          |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )          |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )        |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )             |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )            |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                  |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )         |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |  |

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 072

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Karen Larsen's  
date

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input checked="" type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )       | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )         |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )    |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )       |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )       |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )     |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )             |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )          |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )         |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )               |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )      |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |   |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |   |

*Filamentas*  
*lots of grass*

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 073

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Bablers

Sampled Holding (circle one) Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high - heavy

**Comments/Additional Observations:**

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input checked="" type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )      |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )            |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )               |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )               |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )             |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                     |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                  |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                 |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                       |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )              |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |   |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |   |

1-2 pieces

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 5 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 074

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

50. End  
Landing  
to left

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input checked="" type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )         |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )               |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                  |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                  |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )                |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                        |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                     |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                    |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                          |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )                 |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |  |

more lots of snail eggs  
on clasping leaf

filamentus

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 10 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 075

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Grey Pump  
east of  
landing

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input checked="" type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )      |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )            |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )               |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )               |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )             |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                     |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                  |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                 |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                       |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )              |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |   |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |   |

4/10/05

# Aquatic Plant Survey

Page 1

## Data Collector/Observer Information

First and Last Names of Observers: Lynne Ciss Duchetne

Contact Information for one observer  
Telephone Number: 715-857-5982  
Email: \_\_\_\_\_

*Lynne Ciss Duchetne*

## Monitoring Location

Waterbody Name: Bone Lake  
County: Polk Co.

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

## Date/Time of Monitoring Trip

Start Date: 7/8 Start Time: 8:15

End Date: \_\_\_\_\_ End Time: 9:45

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): \_\_\_\_\_  
2 x 1.5 = 3hr

## Results (for this monitoring trip only)

### Species seen, habitat information, comments

*Justine Howard*

*N.W. wind - light cool  
29.97 barometer  
79° - here at lake - hi  
Humid outside - hi*

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 070

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

*mouth/creek*

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

*-dying back = yellowish*

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> )     |
| <input checked="" type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )       | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )          |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )          |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )        |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )             |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )            |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                  |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )         |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |  |

*\* 10' coontail  
\* 10' naiads*

*stems of curly leaf  
in front of nuphar*

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 071

Sample Location Description: \_\_\_\_\_ Depth (feet): 5'

Dominant Sediment Type (circle one): Muck Sand Rock

*Boathouse  
Carter's  
North of*

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

*- huge  
leaves*

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )   | <input type="checkbox"/> Claspng-leaf pondweed ( <i>Potamogeton richardsonii</i> )     |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )  | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )  | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )          |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )          |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )  | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )        |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )   | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )             |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )   | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )            |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )   | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                  |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )   | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )         |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )  |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )   |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )  |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )  |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )  |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )   |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> ) - can see lg stalks out of H <sub>2</sub> O |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )   |  |

*\* Dam - off to shore*

*\* Filamentous*

*\* blue-green coating*



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 092

Sample Location Description: \_\_\_\_\_ Depth (feet): 5.0'

Dominant Sediment Type (circle one): Muck Sand Rock

*Karen Larson's dock*

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

*still green*

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> )     |
| <input checked="" type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )       | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )          |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )          |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )        |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )             |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )            |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                  |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )         |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )     |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |  |

*lots of Nitamunobis  
small eggs on curly*

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT A93

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

*Babblers*

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

*but can't see it here  
did not pull up much  
but you can see  
lots under  
the 2nd  
deeper  
out*

**Comments/Additional Observations:**

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

*\*swallows eating bugs*

*\*Filamentous*

*\*more dead stuff here  
can see curly*

*we can see them but  
didn't pull up much*

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 5 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 074

Sample Location Description: \_\_\_\_\_ Depth (feet): 5'

Dominant Sediment Type (circle one): Muck Sand Rock

*55. End Landing - North side*

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

*yellowish*

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input checked="" type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input checked="" type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )       | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )                    |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )               |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                  |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                  |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )                |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                        |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                     |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                    |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                          |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )                 |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )     |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |  |

*2  
Lenses in  
this part*

*Plan. 54. 703*

*2  
Lenses*

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 6 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 075

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Grey Pump

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

dying at the roots

**Comments/Additional Observations:**

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

\*Alamogordo - some  
in lake  
Alamogordo sitting on  
top of the  
horizons - lots - lots  
specimens in center  
show the seeds

3

**Aquatic Plant Survey**

**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: Lyn & Cris Duchholm

Contact Information for one observer  
Telephone Number: 715-857-5982

Email: \_\_\_\_\_

*C. Duchholm*

**Monitoring Location**

Waterbody Name: Bone Lake

County: DAK

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 7/31 Start Time: 8:00 <sup>2 hrs</sup>

End Date: \_\_\_\_\_ End Time: 10am

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): \_\_\_\_\_ 4hrs.

**Results (for this monitoring trip only)**

**Species seen, habitat information, comments**

\_\_\_\_\_

\_\_\_\_\_

- \* lots of filamentous algae this summer and still evident.
- \* loons starting to gather (in groups)
- \* warm and dead calm morning.

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 070

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

*marsh/creek*

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (Myriophyllum spicatum)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (Potamogeton crispus)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Common waterweed (Elodea canadensis)
- Coontail (Ceratophyllum demersum)
- Floating-leaf-bur-reed (Sparganium fluctuans)
- Forked Duckweed (Lemna trisulca)
- Muskgrasses (Chara )
- Northern water milfoil (Myriophyllum sibiricum)
- Northern wild rice (Zizania palustris)
- Pickerelweed (Pontederia cordata)
- Slender naiad (Najas flexilis)
- Small duckweed (Lemna minor)
- Spatterdock (Nuphar variegata)
- Stiff water crowfoot (Ranunculus flabellaris)
- Water bulrush (Schoenoplectus subterminalis)
- Water marigold (Megalodonta beckii)
- Water star-grass (Heteranthera dubia)
- White water lily (Nymphaea odorata)
- Whorled water-milfoil (Myriophyllum verticillatum)
- Wild celery (Vallisneria americana)
- Yellow pond lily (Nuphar advena)
- Clasping-leaf pondweed (Potamogeton richardsonii)
- Curly-leaf pondweed (Potamogeton crispus)
- Flat-stem pondweed (Potamogeton zosteriformis) *lots*
- Floating-leaf pondweed (Potamogeton natans)
- Illinois pondweed (Potamogeton illinoensis)
- Large-leaf pondweed (Potamogeton amplifolius)
- Leafy pondweed (Potamogeton foliosus)
- Long-leaf pondweed (Potamogeton nodosus)
- Variable pondweed (Potamogeton gramineus)
- Sago pondweed (Stuckenia pectinata)
- White-stem pondweed (Potamogeton praelongis)

*Wind - calm - dead*

*lots of small - alive & dead turions*

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Boon House  
carts  
North of

Sample Location:

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 071

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

Small eggs  
on bottom  
of claspings

**AQUATIC PLANT SURVEY (PER SAMPLE)**

20180601  
dove

Sample Location:

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT D22

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input checked="" type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )         |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )               |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                  |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                  |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )                |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                        |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                     |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                    |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input checked="" type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )               |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )                 |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )     |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |  |

still lots  
of filamentous  
in this area



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT L75

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                     | <input checked="" type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> ) lots |
| <input checked="" type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> ) <i>lots</i> | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )           |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )            | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )                 |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                         | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                    |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                      | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                    |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )          | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )                  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                   | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                          |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                        | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                       |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                           | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                      |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                             | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                            |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                           | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )                   |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )            |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )             |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                      |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                    |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                      |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )       |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )           |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                         |  |

*Filamentous*

*Bailed  
Around  
Bailers  
They are  
using boats lots  
and it's not as  
many areas*

**AQUATIC PLANT SURVEY (PER SAMPLE)**

So End Landing  
North side

Sample Location:

Sample #: 5 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS: \_\_\_\_\_ WAYPOINT 014

Sample Location Description: \_\_\_\_\_ Depth (feet): 6'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*) *moderate*
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

*large leaf pondweed*

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Grey Camp

Sample Location:

Sample #: 12 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 075

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

\_\_\_ Floating-leaf-bur-reed (*Sparganium fluctuans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

Clasp-leaf pondweed (*Potamogeton richardsonii*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

White-stem pondweed (*Potamogeton praelongis*)

**Aquatic Plant Survey**

**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: Lyn & Cris Dueholm

*Cris Dueholm*

Contact Information for one observer  
Telephone Number: \_\_\_\_\_  
Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: \_\_\_\_\_

County: \_\_\_\_\_

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 8/29 Start Time: 9

End Date: \_\_\_\_\_ End Time: 11am

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 2 x 2 (4hrs)

**Results (for this monitoring trip only)**

**Species seen, habitat information, comments**

65°/calm

barometer 30.00↑

\* many loons gathered together - (16 at 1 time adults & babies)

\* green headed bloom

\* many snails - lot large dead

\* had a cormorant on the lake for several days. Saw a group fly over but they didn't stop even after they circled the lone cormorant. (2-3)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 070

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

*Mouth/creek*

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                                       | <input checked="" type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input checked="" type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                               | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )         |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )                              | <input checked="" type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )    |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                  |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                  |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) <sup>lots</sup> | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )                |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                                     | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                        |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                     |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )   | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                    |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )   | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                          |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )   | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )                 |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )                              |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )                               |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )  |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                                      |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )  |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )                         |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                             |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )   |  |

*\* green H2O - bloom*

*8/29/07  
9am  
30.00 ↑ Barometer  
65° | calm*

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 071

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

*Boathouse  
carriers  
North side of*

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                       | <input type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                          | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )        |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )              | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )   |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                           | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )      |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )      |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )    |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                     | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )            |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                          | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )         |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                             | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )        |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                               | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )              |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                             | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )     |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )              |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )               |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                        |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                      |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                        |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )         |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )             |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                           |  |

*snails - empty large*

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 072

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Karen  
Larson's  
dock

**Sampled Holding** (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |   |   |
|---|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                                      | <input checked="" type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )   | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )                 |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )                             | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )            |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )  | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )               |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )   | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )               |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) <sup>lot</sup> | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )             |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                                    | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                     |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )   | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                  |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )  | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                 |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )  | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                       |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )  | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )              |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )                             |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )                              |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                                       |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                                     |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                                       |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )                        |   |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                            |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )  |   |

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Around  
Bablers  
diagram  
can

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 093

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

\_\_\_ Floating-leaf-bur-reed (*Sparganium fluctuans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Muskgrasses (*Chara*)

Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*) - long stems

\_\_\_ Yellow pond lily (*Nuphar advena*)

Clasping-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

Water milfoil

lalam

Common



**AQUATIC PLANT SURVEY (PER SAMPLE)**

So End  
Landing  
with side

Sample Location:

Sample #: 5 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 074

Sample Location Description: \_\_\_\_\_ Depth (feet): 3

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input checked="" type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )                   |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )              |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                 |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input checked="" type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )      |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input checked="" type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )    |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                       |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                    |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                   |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                         |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )                |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |   |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria spiralis</i> )      |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |   |

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Grey Pump

Sample Location:

Sample #: 10 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 075

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                             | <input checked="" type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                                | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )                   |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )                    | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )              |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                                 | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                 |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                 |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )                  | <input checked="" type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )    |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                           | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                       |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                                | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                    |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                                   | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                   |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                                     | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                         |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                                   | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )                |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )                    |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )                     |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                              |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                            |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                              |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )               |   |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> ) — very long stems |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                                 |   |

more boat & kid  
traffic here  
this  
time

**Aquatic Plant Survey**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: DICK BOSS BRIAN PAUSEN

Contact Information for one observer:

Telephone Number: 857-5755

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: \_\_\_\_\_ Polk \_\_\_\_\_

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 5-7-08 Start Time: 12:00

End Date: 5-7-08 End Time: 2:00

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4

**Species seen, habitat information, comments**

Signed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*Slapback*

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: AREA I

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 059

Sample Location Description: AREA I PASS Depth (feet) 8-12'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few N/A 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium flucluanis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella spp*)
- Northern water milfoil (*Myriophyllum sibenicum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

5/10/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: Area I

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 058

Sample Location Description: Area I Depth (feet): 5 ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (Myriophyllum spicatum)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (Potamogeton crispus)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (Sagittaria graminea)
- Brown-fruited rush (Juncus pelocarpus)
- Claspng-leaf pondweed (Potamogeton richardsonii)
- Common waterweed (Elodea canadensis)
- Coontail (Ceratophyllum demersum)
- Curly-leaf pondweed (Potamogeton crispus)
- Flat-stem pondweed (Potamogeton zosteriformis)
- Floating leaf bur-reed (Sparganium fluctuans)
- Floating-leaf pondweed (Potamogeton natans)
- Forked Duckweed (Lemna trisulca)
- Grass-leaved arrowed (Sagittaria graminea)
- Illinois pondweed (Potamogeton illinoensis)
- Large-leaf pondweed (Potamogeton amplifolius)
- Leafy pondweed (Potamogeton foliosus)
- Long-leaf pondweed (Potamogeton nodosus)
- Muskgrasses (Chara)
- Nitellas, stonewarts (Nitella spp)
- Northern water milfoil (Myriophyllum sibiricum)
- Northern wild rice (Zizania palustris)
- Pickerelweed (Pontederia cordata)
- Sago pondweed (Stuckenia pectinata)
- Slender naiad (Najas flexilis)
- Small duckweed (Lemna minor)
- Small pondweed (Potamogeton pusillus)
- Spatterdock (Nuphar variegata)
- Stiff-water crowfoot (Ranunculus flabellaris)
- Variable pondweed (Potamogeton gramineus)
- Water bulrush (Schoenoplectus subterminalis)
- Water marigold (Megalodonta beckii)
- Water star-grass (Heteranthera dubia)
- White-stem pondweed (Potamogeton praelongis)
- White-water lily (Nymphaea odorata)
- Whorled water-milfoil (Myriophyllum verticillatum)
- Wild celery (Vallisneria americana)
- Yellow pond lily (Nuphar advena)

5/10/13

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: Area I Debris

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT Bevo 573

Sample Location Description: \_\_\_\_\_ Depth (feet): 68'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspig-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowhead (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

*AREA H VERY MURKY SPOTS*

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 057

Sample Location Description: AREA I MURKY Depth (feet): 8-10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

Arrowhead (*Sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Claspingleaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowhead (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water mangold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: Area # Seven spot

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 0.56

Sample Location Description: H' Depth (feet): 7'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowhead (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water mangold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: AREA H Scrape

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 55

Sample Location Description: AREA H (MARCH) Depth (feet): 2-10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (Myriophyllum spicatum)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (Potamogeton crispus)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (Sagittaria graminea)
- Brown-fruited rush (Juncus pelocarpus)
- Clasp-leaf pondweed (Potamogeton richardsonii)
- Common waterweed (Elodea canadensis)
- Coontail (Ceratophyllum demersum)
- Curly-leaf pondweed (Potamogeton crispus)
- Flat-stem pondweed (Potamogeton zosteriformis)
- Floating leaf bur-reed (Sparganium fluctuans)
- Floating-leaf pondweed (Potamogeton natans)
- Forked Duckweed (Lemna trisulca)
- Grass-leaved arrowed (Sagittaria graminea)
- Illinois pondweed (Potamogeton illinoensis)
- Large-leaf pondweed (Potamogeton amplifolius)
- Leafy pondweed (Potamogeton foliosus)
- Long-leaf pondweed (Potamogeton nodosus)
- Muskgrasses (Chara)
- Nitellas, stonewarts (Nitella spp)
- Northern water milfoil (Myriophyllum sibiricum)
- Northern wild rice (Zizania palustris)
- Pickerelweed (Pontederia cordata)
- Sago pondweed (Stuckenia pectinata)
- Slender naiad (Najas flexilis)
- Small duckweed (Lemna minor)
- Small pondweed (Potamogeton pusillus)
- Spatterdock (Nuphar variegata)
- Stiff-water crowfoot (Ranunculus flabellaris)
- Variable pondweed (Potamogeton gramineus)
- Water bulrush (Schoenoplectus subterminalis)
- Water marigold (Megalodonta beckii)
- Water star-grass (Heteranthera dubia)
- White-stem pondweed (Potamogeton praelongis)
- White-water lily (Nymphaea odorata)
- Whorled water-milfoil (Myriophyllum verticillatum)
- Wild celery (Vallisneria americana)
- Yellow pond lily (Nuphar advena)

**Aquatic Plant Survey**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: DICK BOSS - BRINA PAULSEN

Contact Information for one observer:

Telephone Number: 857-5755

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 6-17-08 Start Time: 12:00

End Date: 6-17-08 End Time: 2:00

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4

**Species seen, habitat information, comments**

Signed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**AQUATIC PLANT SURVEY (PER SAMPLE)**

6/17/08

Sample Location: AKOA H - NORTH

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 035

Sample Location Description: H Depth (feet): 8'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few n/a 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

6-17-08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: Area H Court

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 056

Sample Location Description: H" - Down House Depth (feet): 6-8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few N/A 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Eiodes canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: Area 3

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 057

Sample Location Description: I - 1 area Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**  
Rake Fullness (circle one): 1-few 2/3 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

61702

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickereelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

64708

**AQUATIC PLANT SURVEY (PER SAMPLE)**

6

Sample Location: I. Akana

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT Boro 573

Sample Location Description: Area E. Outer Depth (feet): 7

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickeretweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

6-17-08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: Alton I - Bay

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 059

Sample Location Description: I Depth (feet): 8-10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowhead (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: DICK BUSS - BRINA PHILSON

Contact Information for one observer:

Telephone Number: 857-5755

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: \_\_\_\_\_ Polk \_\_\_\_\_

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 7-15-08 Start Time: 12:00

End Date: 7-15-08 End Time: 2:00

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4

**Species seen, habitat information, comments**

Signed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: \_\_\_\_\_

4-15-08

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 053

Sample Location Description: ALC H - N. pond Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasp-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Eloдея canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellias, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

7-15-08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: "H" SOUTH

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 056

Sample Location Description: "H" - SOUTH Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)  
Rake Fullness (circle one): 1-few N/A 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: I -

7-15-

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 057

Sample Location Description: II - LANSB Depth (feet): 1012

Dominant Sediment Type (circle one): ~~Muck~~ Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few NONE 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

Arrowhead (*sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Clasping-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowed (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)

7/15/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: Rest Point

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT BAND 573

Sample Location Description: Area I Depth (feet): 6-8'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**  
 Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**  
 Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Arrowhead ( <i>sagittaria graminea</i> )                      | <input type="checkbox"/> Pickersweed ( <i>Pontederia cordata</i> )                   |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )               | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                |
| <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> )       | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                 | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                    | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )              |
| <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )       | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )      |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluviatans</i> )       | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )          |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )          | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                     | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )           | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )          | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )       |
| <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )        | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )             | <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                  | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |
| <input type="checkbox"/> Nitellas, stonewarts ( <i>Nitella</i> spp)                    |  |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )      |  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )               |  |

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 058

Sample Location Description: "I" \_\_\_\_\_ Depth (feet): 670'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few N/A 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

7-15-08

Sample Location: I - Boes

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 059

Sample Location Description: I Depth (feet): 10-12

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few None moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2 moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Arrowhead ( <i>Sagittaria graminea</i> )                            | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )                     | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                |
| <input type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> )          | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                       | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                          | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )              |
| <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )       | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )             | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )      |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )              | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )          |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                           | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )                 | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )       |
| <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )              | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                      | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                   | <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |
| <input checked="" type="checkbox"/> Nitellas, stonewarts ( <i>Nitella</i> spp)               |  |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) |  |
| <input checked="" type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )          |  |

**Aquatic Plant Survey**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: DICK BUSS - BRIAN PAULSEN

Contact Information for one observer:

Telephone Number: 857-5755

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: \_\_\_\_\_ Polk \_\_\_\_\_

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 8-12-08 Start Time: 12:00

End Date: 8-12-08 End Time: 2:00

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4

**Species seen, habitat information, comments**

Signed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8-12-08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: H. Point

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 063

Sample Location Description: H. N. Depth (feet): 6-8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**  
Rake Fullness (circle one): 1-few None 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Pontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)



-1208

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: "H" SOUTH

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 056

Sample Location Description: H \_\_\_\_\_ Depth (feet): 11'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few none 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

8/13/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: I - LARSEN

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 057

Sample Location Description: I \_\_\_\_\_ Depth (feet) 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*Sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowhead (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water mangold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: I REST POINT 8-12-08

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT BONO 573

Sample Location Description: AREA I Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**  
Rake Fullness (circle one): 1-few N/A 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosterifomis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

8-12-08

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 058-COMLEY

Sample Location Description: \_\_\_\_\_ Depth (feet): 670

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few N/A 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasping-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

8-12-08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: 059 "I"

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 059

Sample Location Description: \_\_\_\_\_ Depth (feet): 6-12

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**  
Rake Fullness (circle one): 1-few N/A 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorted water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

SEPT 16, 08

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one):      Muck      Sand      Rock

Sampled Holding (circle one):      Rake Pole      Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

2 hrs

**Comments/Additional Observations:**

Check CATCH AT ALL WAYPOINTS  
DID NOT SEE ANY ~~⊗~~ E.W.M.

Duckweed

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella spp*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey**  
**Page 1**

Tom & BRENDA LASFA  
GREG & KATHY LIMQUIST  
STEVE & SUE SCHWAB



**Data Collector/Observer Information**

First and Last Names of Observers: \_\_\_\_\_

**Contact Information for one observer:**

Telephone Number: 472-3474

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

**Method of obtaining Latitude and Longitudes:**

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 6-29-08 Start Time: 10:00

End Date: 6-29-08 End Time: 12:00

2 x 6 = 12

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 12

**Species seen, habitat information, comments**

Signed: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6/29/08

10:00am - 12:00pm

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS B-796 WAYPOINT \_\_\_\_\_

Sample Location Description: Dunk House Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole

Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

- Claspingleaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)



6-29-08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 027

Sample Location Description: CALDERWOOD Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> )        |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )               |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )          |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton patens</i> )             |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )             |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )           |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                   |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )               |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                     |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input checked="" type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> ) |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |   |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria spiralis</i> )      |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |   |

6-29-08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 025

Sample Location Description: Ly. Satalight Dish Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> )       |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )    |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )          |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )             |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )             |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )           |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                   |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )               |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                     |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input checked="" type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> ) |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |   |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria spiralis</i> )      |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |   |

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 026

Sample Location Description: \_\_\_\_\_ Depth (feet): 2

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Eloдея canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow-pond lily (*Nuphar advena*)

6-29-08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 565 WAYPOINT \_\_\_\_\_

Sample Location Description: Yellow Boat House Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )         |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )    |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )       |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )       |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )     |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )             |
| <input type="checkbox"/> Pickerelweed ( <i>Pontedaria cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )          |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )         |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )               |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )      |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |   |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |   |

6-29-08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS B-086 WAYPOINT 0

Sample Location Description: FLAG DUCK Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |   |   |
|---|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                                    | <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> )                    |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                                       | <input checked="" type="checkbox"/> <u>TRACE</u> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )                           | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )                    |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )  | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                       |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )   | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                       |
| <input checked="" type="checkbox"/> <u>TRACE</u> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )                     |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                                  | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                             |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                                       | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                          |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )  | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                         |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )  | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                               |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )  | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )                      |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )                           |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )                            |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                                     |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                                   |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                                     |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )                      |   |
| <input checked="" type="checkbox"/> <u>X</u> Wild celery ( <i>Vallisneria spiralis</i> )                  |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )  |   |

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 084

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

6-29-08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS B-082 WAYPOINT \_\_\_\_\_

Sample Location Description: Johns Place Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                             | <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> )           |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                                | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )                |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )                    | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )           |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                                 | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )              |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )              |
| <del>Trace</del> <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) | <input checked="" type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> ) |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                           | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                    |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                                | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                 |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                                   | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                                     | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                      |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                                   | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )             |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )                    |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )                     |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                              |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                            |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                              |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )               |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                   |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                                 |  |

6-29-08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 027

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                       | <input type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> )         |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                          | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )                |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )              | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )           |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                           | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )              |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )              |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) | <input checked="" type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> ) |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                     | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                    |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                          | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                 |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                             | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                               | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                      |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                             | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )             |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )              |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )               |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                        |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                      |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                        |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )         |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )             |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                           |  |



6-29-08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 5 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 028

Sample Location Description: BIG GREY HOUSE Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> )       |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )          |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )          |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )        |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )             |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )            |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                  |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )         |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |  |

JAM & BRONDA LINSEN  
GREG & KATHY LIMQUIST  
STEVE & SUZ SCHMARR



**Data Collector/Observer Information**

First and Last Names of Observers: \_\_\_\_\_

Contact Information for one observer:

Telephone Number: 472-3474

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 7-10-08 Start Time: 2:45

End Date: 7-10-08 End Time: 3:45

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 6

**Species seen, habitat information, comments**

Signed: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

7/20/08 3:25 PM

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT: 024

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

7/20/08 3:30 PM

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 796 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisuica*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

7/20/08 3:25 PM

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 025

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

4

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisuica*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckli*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

White water crowfoot

7/20/08 3:20 pm

**AQUATIC PLANT SURVEY (PER SA**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT D26

Sample Location Description: \_\_\_\_\_

Dominant Sediment Type (circle one):

Sampled Holding (circle one): Rake

**Eurasian Water Milfoil (*Myriophyllum***

Rake Fullness (circle one): 1-few 2

**Curly-Leaf Pondweed Record (*Potamogeton***

Rake Fullness (circle one): 1-few 2

**Comments/Additional Observations**

**Species**

Common waterweed (*Elodea cana*)

Coontail (*Ceratophyllum demersum*)

Floating-leaf-bur-reed (*Sparganium*)

Forked Duckweed (*Lemna trisulca*)

Muskgrasses (*Chara*)

Northern water milfoil (*Myriophyllum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Spatterdock (*Nuphar variegata*)

Stiff water crowfoot (*Ranunculus fl.*)

Water bulrush (*Schoenoplectus su.*)

Water marigold (*Megalodonta beci*)

Water star-grass (*Heteranthera dul.*)

White water lily (*Nymphaea odorat.*)

Whorled water-milfoil (*Myriophyllum*)

Wild celery (*Vallisneria spiralis*)

Yellow pond lily (*Nuphar advena*)



**Aquatic Plant Survey**  
**Page 1**

JAM & BRONDA LARSEN  
GREG & KATHY LIMQUIST  
STEVE & SUE SCHMIDT



**Data Collector/Observer Information**

First and Last Names of Observers: \_\_\_\_\_

Contact Information for one observer:

Telephone Number: 472-3474

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 7-20-08 Start Time: 2:45

End Date: 7-20-08 End Time: 3:45

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 6

**Species seen, habitat information, comments**

Signed: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



7/20/08 3:25 PM

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS: \_\_\_\_\_ WAYPOINT: 024

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

\_\_\_ Floating-leaf-bur-reed (*Sparganium fluctuans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Muskgrasses (*Chara*)

Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria spiralis*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

\_\_\_ Clasp-leaf pondweed (*Potamogeton richardsonii*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

7/20/08 3:30 PM

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 796 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

7/20/08 3:25 PM

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 025

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

White water crowfoot

7/20/08 3:20 pm

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT D26

Sample Location Description: \_\_\_\_\_ Depth (feet): 2

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                       | <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                          | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )      |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )              | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> ) |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                           | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )    |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illincensis</i> )    |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                     | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )          |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                          | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )       |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                             | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )      |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                               | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )            |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                             | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )   |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )              |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )               |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                        |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                      |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                        |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )         |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria spiralis</i> )              |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                           |  |

7/20/08 3:20 PM

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 565 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 2

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

\_\_\_ Floating-leaf-bur-reed (*Sparganium fluctuans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

7/20/08 3:13 PM

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 086 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

\_\_\_ Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

\_\_\_ Floating-leaf-bur-reed (*Sparganium fluctuans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Muskgrasses (*Chara*)

Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria spiralis*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

\_\_\_ Clasping-leaf pondweed (*Potamogeton richardsonii*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

7/20/08 3:13 PM

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 084 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

- Claspingleaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

7/20/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 082 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

mucky bottom

**Species**

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

\_\_\_ Floating-leaf-bur-reed (*Sparganium fluctuans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Muskgrasses (*Chara*)

Northern water milfoil (*Myriophyllum sibiricum*) (moderate)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)



7/20/08 2:45pm

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 027

Sample Location Description: \_\_\_\_\_ Depth (feet): 0

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

outside weeds ~~on~~ on top of water

**Species**

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Floating-leaf-bur-reed (*Sparganium fluctuans*)

Forked Duckweed (*Lemna trisulca*)

Muskgrasses (*Chara*)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Spatterdock (*Nuphar variegata*)

Stiff water crowfoot (*Ranunculus flabellaris*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)

Clasp-leaf pondweed (*Potamogeton richardsonii*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating-leaf pondweed (*Potamogeton natans*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Variable pondweed (*Potamogeton gramineus*)

Sago pondweed (*Stuckenia pectinata*)

White-stem pondweed (*Potamogeton praelongis*)

7/20/08

2:45pm. - 3:30pm

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 028

Sample Location Description: \_\_\_\_\_ Depth (feet): 12

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*) none

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

- Claspingleaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sagopondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

**Aquatic Plant Survey**  
**Page 1**

Tom & BRENDA COSKA  
GREG & KATHY LINQUIST  
STEVE & SUE SCHNARR  
LL

**Data Collector/Observer Information**

First and Last Names of Observers: \_\_\_\_\_

Contact Information for one observer:

Telephone Number: 472-3474

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 8-30-08 Start Time: 12:00

End Date: 8-30-08 End Time: 2:00

2 x 6 =

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 12

**Species seen, habitat information, comments**

Signed: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

8/30/08  
AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS B-796 WAYPOINT \_\_\_\_\_

Sample Location Description: Dentist Depth (feet): 7

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input checked="" type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )                   |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )              |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                 |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                 |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )               |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                       |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                    |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                   |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                         |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )                |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |   |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria spiralis</i> )                 |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |   |

8/30/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 024

Sample Location Description: CASPERWOOD Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole

Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> )          |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )               |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )          |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )             |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )             |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )           |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                   |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )               |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                     |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input checked="" type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> ) |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |   |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria spiralis</i> )      |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |   |

8/30/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 025

Sample Location Description: straight ditch Depth (feet): 5

Dominant Sediment Type (circle one): Muck  Sand  Rock

Sampled Holding (circle one): Rake Pole  Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):  1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> )       |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )          |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )          |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )        |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )             |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )            |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                  |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )         |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria spiralis</i> )      |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |  |

8/30/08  
**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 026

Sample Location Description: TREE HOUSE Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )      |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> ) |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )    |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )    |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )          |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )       |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )      |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )            |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )   |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria spiralis</i> )      |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |  |

8/20/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS B-565 WAYPOINT \_\_\_\_\_

Sample Location Description: BOAT HOUSE Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )      |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> ) |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )    |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )    |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )          |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )       |
| <input type="checkbox"/> Slender nald ( <i>Najas flexilis</i> )                      | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )      |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )            |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )   |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria spiralis</i> )                 |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |  |



8/30/08  
**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS B-084 WAYPOINT \_\_\_\_\_

Sample Location Description: Flats Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                       | <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> )       |
| <input checked="" type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )               | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )              | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                           | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )          |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )          |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )        |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                     | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                          | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )             |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                             | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )            |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                               | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                  |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                             | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )         |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )              |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )               |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                        |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                      |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                        |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )         |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria spiralis</i> )              |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                           |  |

8/30/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

8/30/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS B-082 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megaiodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

8/30/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 027

Sample Location Description: LARGE PLACE Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole

Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

\_\_\_ Floating-leaf-bur-reed (*Sparganium fluctuans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Muskgrasses (*Chara*)

Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria spiralis*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

8/30/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT: 028

Sample Location Description: GREY HOUSE Depth (feet): 7

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> )    |
| <input checked="" type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )       | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )          |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )          |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )        |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )             |
| <input type="checkbox"/> Slender nald ( <i>Najas flexilis</i> )                      | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )            |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                  |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )         |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |  |
| <input type="checkbox"/> Water burrush ( <i>Schoenoplectus subterminalis</i> )       |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria spiralis</i> )                 |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |  |

# Aquatic Plant Survey

Page 1

## Data Collector/Observer Information

First and Last Names of Observers: GAIL HELLER, TONY MANS

Contact Information for one observer

Telephone Number: \_\_\_\_\_

Email: hciconsult@AOL.com

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## Monitoring Location

Waterbody Name: BONE LAKE

County: POLK

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

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## Date/Time of Monitoring Trip

Start Date: 6-24-08 Start Time: 1805

End Date: 6-24-08 End Time: 1915

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 2 1/3

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## Results (for this monitoring trip only)

Species seen, habitat information, comments

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**Aquatic Plant Survey** 6/24/08

**Sample Location:**

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_

WAYPOINT 018

Sample Location Description: #1

Depth (feet): 2 ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sogo pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey** 4/24/08

**Sample Location:**

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS: \_\_\_\_\_

WAYPOINT 021

Sample Location Description: #5  
Depth (feet): 8 ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sogo pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)



**Aquatic Plant Survey** 6/24/08

**Sample Location:**

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_

WAYPOINT 019

Sample Location Description: #3

Depth (feet): 9ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sogo pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckettii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey**

6/24/08

**Sample Location:**

Sample #: / Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS BONO 076

WAYPOINT \_\_\_\_\_

Sample Location Description: # 3

Depth (feet): 2.5 ft

Dominant Sediment Type (circle one): Muck

Sand  Rock  
 Rake Pole  Rake Rope

Sampled Holding (circle one): Rake Pole

~~Eurasian Water Milfoil (Myriophyllum spicatum)~~  
Rake Fullness (circle one): ~~1-few~~  2-moderate ~~3-high~~

~~Curly-Leaf Pondweed Record (Potamogeton crispus)~~  
Rake Fullness (circle one): ~~1-few~~  2-moderate ~~3-high~~

Comments/Additional Observations:

**Species**

- Clasp-leaf pondweed (Potamogeton richardsonii)
- Common waterweed (Elodea canadensis)
- Coontail (Ceratophyllum demersum)
- Curly-leaf pondweed (Potamogeton crispus)
- Flat-stem pondweed (Potamogeton zosteriformis)
- Floating-leaf pondweed (Potamogeton natans)
- Floating-leaf-bur-reed (Sparganium fluctuans)
- Forked Duckweed (Lemna trisulca)
- Illinois pondweed (Potamogeton illinoensis)
- Large-leaf pondweed (Potamogeton amplifolius)
- Leafy pondweed (Potamogeton foliosus)
- Long-leaf pondweed (Potamogeton nodosus)
- Muskgrasses (Chara)
- Northern watermeal (Wolffia borealis)
- Northern wild rice (Zizania palustris)
- Pickerelweed (Pontederia cordata)
- Slender naiad (Najas flexilis)
- Small duckweed (Lemna minor)
- Sogo pondweed (Stuckenia pectinata)
- Spatterdock (Nuphar variegata)
- Stiff water crowfoot (Ranunculus flabellaris)
- Variable pondweed (Potamogeton gramineus)
- Water bulrush (Schoenoplectus subterminalis)
- Water marigold (Megalodonta beckii)
- Water star-grass (Heteranthera dubia)
- White water lily (Nymphaea odorata)
- White-stem pondweed (Potamogeton praelongis)
- Whorled water-milfoil (Myriophyllum verticillatum)
- Wild celery (Vallisneria americana)
- Yellow pond lily (Nuphar advena)

**Aquatic Plant Survey**

6/24/08

**Sample Location:**

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_

WAYPOINT 020

Sample Location Description: #4

Depth (feet): 6.5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sogo pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckettii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

took one sample  
 Northern Water Milfoil

Aquatic Plant Survey

Page 1

Data Collector/Observer Information

First and Last Names of Observers: GAIL HELLER, TONY MANS

Contact Information for one observer

Telephone Number: \_\_\_\_\_

Email: hciconsult@aol.com

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Monitoring Location

Waterbody Name: BONE LAKE

County: POLK

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

---

Date/Time of Monitoring Trip

Start Date: 7-29-07 Start Time: 7:00 pm

End Date: 7-29-07 End Time: 8:00 pm

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 2 people / 2 hours

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Results (for this monitoring trip only)

Species seen, habitat information, comments

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**Aquatic Plant Survey** 7-29-08

**Sample Location:**

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_

WAYPOINT 019

Sample Location Description: #2

Depth (feet): 7ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sogo pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey** 7-29-08

**Sample Location:**

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS BONO 076

WAYPOINT \_\_\_\_\_

Sample Location Description: #3

Depth (feet): 5'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sogo pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey** 7-29-08

**Sample Location:**

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_

WAYPOINT 020

Sample Location Description: # 4

Depth (feet): 6'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sogo pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey** 7-29-08

7:00  
1900

**Sample Location:**

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_

WAYPOINT 018

Sample Location Description: #1

Depth (feet): 8'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*) None  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sogo pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckettii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

x Northern water milfoil



**Aquatic Plant Survey 7-29-08**

**Sample Location:**

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_

WAYPOINT 021

Sample Location Description: #5

Depth (feet): 8'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sogo pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

# Aquatic Plant Survey

Page 1

## Data Collector/Observer Information

First and Last Names of Observers: GAIL HELLER, TONY MANS

Contact Information for one observer

Telephone Number: \_\_\_\_\_

Email: kciconsult@aol.com

---

## Monitoring Location

Waterbody Name: BONE LAKE

County: POLK

Method of obtaining Latitude and Longitudes:

- GPS
- offline Surface Water Data Viewer
- other mapping software

---

## Date/Time of Monitoring Trip

Start Date: 9-22-08 Start Time: 7:00 PM

End Date: 9-22-08 End Time: 8:00 PM

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 2

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## Results (for this monitoring trip only)

Species seen, habitat information, comments

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**Aquatic Plant Survey**

9/22/08

**Sample Location:**

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_

WAYPOINT 020

Sample Location Description: #4

Depth (feet): 7 ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*) Sago
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

X Northern water milfoil

**Aquatic Plant Survey**

9/22/08 C 2:50 pm

**Sample Location:**

Sample #: 7 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS B181

WAYPOINT 019

Sample Location Description: #1

Depth (feet): 4.5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

x Northern water milfoil

**Aquatic Plant Survey**

9/22/08

**Sample Location:**

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_

WAYPOINT 021

Sample Location Description: #5

Depth (feet): 8 ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)
- Northern water milfoil

**Aquatic Plant Survey**

9/22/08

**Sample Location:**

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_

WAYPOINT 019

Sample Location Description: A2

Depth (feet): 8 ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high none

Comments/Additional Observations:

**Species**

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*) Sa go!
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

X Northern water milfoil

**Aquatic Plant Survey**

9/22/08

**Sample Location:**

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_

WAYPOINT 076

Sample Location Description: #3

Depth (feet): 6.5 ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*) Sago
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: Bill + Janet Jungbauer

Contact Information for one observer:

Telephone Number: 651-482-0323

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 8-21-08 Start Time: 8:00 pm

End Date: 8-21-08 End Time: 9:00 pm

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 2 hrs

**Species seen, habitat information, comments**

Signed: \_\_\_\_\_

Janet + Bill Jungbauer  
[Signature]

\_\_\_\_\_  
\_\_\_\_\_



6/21/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS  WAYPOINT 011

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (Myriophyllum spicatum)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (Potamogeton crispus)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*Snails*

**Species**

- Arrowhead (sagittaria graminea)
- Brown-fruited rush (Juncus pelocarpus)
- Clasping-leaf pondweed (Potamogeton richardsonii)
- Common waterweed (Elodea canadensis)
- Coontail (Ceratophyllum demersum)
- Curly-leaf pondweed (Potamogeton crispus)
- Flat-stem pondweed (Potamogeton zosteriformis)
- Floating leaf bur-reed (Sparganium fluctuans)
- Floating-leaf pondweed (Potamogeton natans)
- Forked Duckweed (Lemna trisulca)
- Grass-leaved arrowed (Sagittaria graminea)
- Illinois pondweed (Potamogeton illinoensis)
- Large-leaf pondweed (Potamogeton amplifolius)
- Leafy pondweed (Potamogeton foliosus)
- Long-leaf pondweed (Potamogeton nodosus)
- Muskgrasses (Chara )
- Nitellas, stonewarts (Nitella spp)
- Northern water milfoil (Myriophyllum sibiricum)
- Northern wild rice (Zizania palustris)
- Pickerelweed (Pontederia cordata)
- Sago pondweed (Stuckenia pectinata)
- Slender naiad (Najas flexilis)
- Small duckweed (Lemna minor)
- Small pondweed (Potamogeton pusillus)
- Spatterdock (Nuphar variegata)
- Stiff-water crowfoot (Ranunculus flabellaris)
- Variable pondweed (Potamogeton gramineus)
- Water bulrush (Schoenoplectus subterminalis)
- Water marigold (Megalodonta beckii)
- Water star-grass (Heteranthera dubia)
- White-stem pondweed (Potamogeton praelongis)
- White-water lily (Nymphaea odorata)
- Whorled water-milfoil (Myriophyllum verticillatum)
- Wild celery (Vallisneria americana)
- Yellow pond lily (Nuphar advena)

6/21/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 5 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 012

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one):      Muck      Sand      Rock

Sampled Holding (circle one):      Rake Pole      Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Comments/Additional Observations:**

*Algae only - small amount*

**Species**

- |   |  |
|---|--|
| <input type="checkbox"/> Arrowhead ( <i>sagittaria graminea</i> )                 | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )          | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                |
| <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> )  | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )            | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )               | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )              |
| <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )       | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )  | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )      |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )   | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )          |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )     | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )      | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )       |
| <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )   | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )           | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )        | <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                             | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |
| <input type="checkbox"/> Nitellas, stonewarts ( <i>Nitella</i> spp)               |  |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) |  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )          |  |

6/21/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: # 6 Bill

Sample #: 6 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 013

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rake Rope Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

6/21/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: HTA Bill

Sample #: 7 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 014

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

Snails

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

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**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: # 8 Bill

Sample #: 8 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 018

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

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**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: H Q Bill

Sample #: 9 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT BONO 836

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*Sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasp-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

✓ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus fiabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

6/21/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: Hyd Bill

Sample #: 10 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 104

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

6/21/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: H 44 Bill

Sample #: 11 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 005

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)



6/21/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: H 12 Bill

Sample #: 12 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 004

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate ~~3-high~~

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*Sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasping-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers:

Janet + Bill Jungbauer  
Mary Jo Pickering  
Jan Grabinski

Contact Information for one observer:

Telephone Number: 715-857-6021

Email: mpickering@JSBlaw.com

**Monitoring Location**

Waterbody Name: Bone Lake X

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 7/27/08 Start Time: 3:00

End Date: 7/27/08 End Time: 5:00

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 8

**Species seen, habitat information, comments**

Signed:

Mary Jo Pickering  
Bill Jungbauer  
Janet Jungbauer  
Jan Grabinski

Bill

7/27/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 011

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

Sample Bag #4

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

Bill

7/27/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 5 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 012

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

Needle Spike Rush

Bill

7/27/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 6 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 013

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

Sample Bag #6

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

Bill

7/27/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 7 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 014

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

Sample Bag # 7

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

Bill

7/27/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 8 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 018

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

Sample Bag #8

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspig-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

Bill

7/27/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 9 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS  WAYPOINT Boro 836

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

Snails

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)



B:11

7/27/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 10 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 104

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellias, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibericum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

Bill

7/27/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location: ~~Bill~~

Sample #: 17 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 005

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasping-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

Bill

7/27/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 12 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS  WAYPOINT 004

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

Sample Bag #12

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: Mary Jo Pickering Jan Grabinski Bill & Janet Jungbauer

Contact Information for one observer:

Telephone Number: 651-482-0323

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 8/30/08 Start Time: 4:00 pm

End Date: 8/30/08 End Time: 6:00 pm

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 8 hrs

**Species seen, habitat information, comments**

Signed: Janet Jungbauer  
Bill Jungbauer  
Jan Grabinski  
Mary Jo Pickering

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 011

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspig-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontall (*Ceratophyllum demersum*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp.)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow-pond-lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT ~~006~~ 013

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspig-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS  WAYPOINT 019

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck  Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input checked="" type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )       | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )        |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )   |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )      |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )      |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )    |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )            |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )         |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )        |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )              |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )     |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )     |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |  |

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS  WAYPOINT 018

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rook

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Floating-leaf-bur-reed (*Sparganium fluctuans*)

Forked Duckweed (*Lemna trisulca*)

Muskgrasses (*Chara*)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Spatterdock (*Nuphar variegata*)

Stiff water crowfoot (*Ranunculus flabellaris*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria spiralis*)

Yellow pond lily (*Nuphar advena*)

Clasp-leaf pondweed (*Potamogeton richardsonii*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating-leaf pondweed (*Potamogeton natans*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Variable pondweed (*Potamogeton gramineus*)

Sago pondweed (*Stuckenia pectinata*)

White-stem pondweed (*Potamogeton praelongis*)



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS  WAYPOINT BUND 836

Sample Location Description:

Dominant sediment type (circle one): MUD SAND ROCK

Depth (feet):

Sampled Holding (circle one): Rake Pole

Rake HOPE

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Stem Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Stem Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Floating-leaf-bur-reed (*Sparganium fluctuans*)

Forked Duckweed (*Lemna trisulca*)

Muskgrasses (*Chara*)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Spatterdock (*Nuphar variegata*)

Small water crowfoot (*Hartunculus napellans*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria spiralis*)

Yellow pond lily (*Nuphar advena*)

Grasping-leaf pondweed (*Potamogeton nodosus*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating-leaf pondweed (*Potamogeton natans*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leaty pondweed (*Potamogeton torulosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Variable pondweed (*Potamogeton gramineus*)

Sago pondweed (*Stuckenia pectinata*)

White-stem pondweed (*Potamogeton praelongis*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS Y WAYPOINT 104

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

\_\_\_ Floating-leaf-bur-reed (*Sparganium fluctuans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria spiralis*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

Sago pondweed (*Stuckenia pectinata*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS  WAYPOINT 05

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one):            Muck            Sand            Rock

Sampled Holding (circle one):            Rake Pole            Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):            1-few            2-moderate            3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):            1-few            2-moderate            3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspig-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Eiodea canadensis*)

Coontail (*Ceratophyllum demersum*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf-pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp.)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow-pond-lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS X WAYPOINT 004

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: TIM & KATHY KILLBEN

Contact Information for one observer:

Telephone Number: 715-857-5879

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 6-15-08 Start Time: 1:00

End Date: 6-15-08 End Time: 2:30

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 3

**Species seen, habitat information, comments**

Signed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Killeen, Tim + Kath  
6/15/08  
1-2:30pm

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 035

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

Signed:  
Kathleen & Killeen  
Timothy J. Killeen

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Killeen, Tim + Kasha  
6/15/08  
12:30 PM

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 036

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

Signed:  
Kasha & K Killeen  
Timothy P. Killeen

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

Killean, Tim + Kathryn  
6/15/08  
1-2:30 PM

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 537

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): ~~1-few~~ ~~2-moderate~~ 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

Signed:  
Kathleen K. Killean  
Timothy P. Killean

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                       | <input type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> )         |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                          | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )     |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )              | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )           |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                           | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )              |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )              |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) | <input checked="" type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> ) |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                     | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                    |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                          | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                 |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                             | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                               | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                      |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                             | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )             |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )              |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )               |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                        |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                      |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                        |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )         |  |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                        |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                           |  |



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Killeen, Tim & Kath  
6/15/08  
1-2:30 PM

Sample Location:

Sample #: \_\_\_\_\_ Latitude: 33 Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 032

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

Signed:  
Kathleen & Killeen  
Timothy P. Killeen

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckeria pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Killeen, Tim & Kath  
6/15/08  
1-2:30pm

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 039

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

1-3 strands

Signed:  
Kathleen & Killeen  
Timothy P. Killeen

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

**Aquatic Plant Survey**

**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: Tim & Kathy Fullen

Contact Information for one observer:

Telephone Number: 857-5879

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 7-12-08 Start Time: 12:00

End Date: 7-12-08 End Time: 1:30

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 3

**Species seen, habitat information, comments**

Signed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Killeen, Tim + KATH  
7/12/08  
12-1:30 PM

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 035

035

Sample Location Description: \_\_\_\_\_ Depth (feet): 1

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high Ø

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high Ø

Signed  
Kathleen & Killeen  
Timothy P. Killeen

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                       | <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> )           |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                          | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )     |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )              | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )           |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                           | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )              |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input checked="" type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )   |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) | <input checked="" type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> ) |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                     | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                    |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                          | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                 |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                             | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                               | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                      |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                             | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )             |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )              |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )               |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                        |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                      |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                        |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )         |  |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                        |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                           |  |

Killeen 7/12/08  
Tim & Kay 12:130 PM  
036

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 6'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (Myriophyllum spicatum)**

Rake Fullness (circle one): 1-few 2-moderate 3-high 3

**Curly-Leaf Pondweed Record (Potamogeton crispus)**

Rake Fullness (circle one): 1-few 2-moderate 3-high 3

Comments/Additional Observations:

Signed  
Kathleen K Killeen  
Timothy P. Killeen

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)
- Claspingleaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

Killeen 7/12/08  
Tim + Kath 12-1:30 PM  
037

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 037

Sample Location Description: \_\_\_\_\_ Depth (feet): 037

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high Ø

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high Ø

Comments/Additional Observations:

Signed  
Kathleen K Killeen  
Timothy P. Killeen

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                       | <input type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> )          |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                          | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )      |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )              | <input checked="" type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> ) |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                           | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )               |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )               |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) | <input checked="" type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                     | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                     |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                          | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                  |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                             | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                 |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                               | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                       |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                             | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )              |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )              |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )               |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                        |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                      |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                        |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )         |   |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )             |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                           |   |

Tim + Kath Killeen  
038  
7/12/08  
12-1:30 PM

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 038

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high 0

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Signed Kathleen K  
Killeen  
Timothy B. Killeen

Comments/Additional Observations:

**Species**

- \_\_\_ Common waterweed (*Eloдея canadensis*)
- \_\_\_ Coontail (*Ceratophyllum demersum*)
- \_\_\_ Floating-leaf-bur-reed (*Sparganium fluctuans*)
- \_\_\_ Forked Duckweed (*Lemna trisulca*)
- \_\_\_ Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- \_\_\_ Northern wild rice (*Zizania palustris*)
- \_\_\_ Pickerelweed (*Pontederia cordata*)
- \_\_\_ Slender naiad (*Najas flexilis*)
- \_\_\_ Small duckweed (*Lemna minor*)
- \_\_\_ Spatterdock (*Nuphar variegata*)
- \_\_\_ Stiff water crowfoot (*Ranunculus flabellaris*)
- \_\_\_ Water bulrush (*Schoenoplectus subterminalis*)
- \_\_\_ Water marigold (*Megalodonta beckii*)
- \_\_\_ Water star-grass (*Heteranthera dubia*)
- \_\_\_ White water lily (*Nymphaea odorata*)
- \_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)
- \_\_\_ Wild celery (*Vallisneria americana*)
- \_\_\_ Yellow pond lily (*Nuphar advena*)
- \_\_\_ Claspig-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- \_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)
- \_\_\_ Floating-leaf pondweed (*Potamogeton natans*)
- \_\_\_ Illinois pondweed (*Potamogeton illinoensis*)
- \_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)
- \_\_\_ Leafy pondweed (*Potamogeton foliosus*)
- \_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)
- \_\_\_ Variable pondweed (*Potamogeton gramineus*)
- \_\_\_ Sago pondweed (*Stuckenia pectinata*)
- \_\_\_ White-stem pondweed (*Potamogeton praelongis*)

17

7/12/08 Killean  
12-1:30 PM Tim & Kathryn  
039

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 1.0

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high 3

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few very 2-moderate 3-high

Comments/Additional Observations:

Signed:  
Kathleen K Killean  
Timothy P. Kullen

**Species**

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

\_\_\_ Floating-leaf-bur-reed (*Sparganium fluctuans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Muskgrasses (*Chara*)

X Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

\_\_\_ Clasping-leaf pondweed (*Potamogeton richardsonii*)

X Curly-leaf pondweed (*Potamogeton crispus*)

X Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

Hay  
onk



**Aquatic Plant Survey**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: TIM & FATHY KILLEN.

Contact Information for one observer:

Telephone Number: 857-5879

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 8-16-08 Start Time: 12:30

End Date: 8-16-08 End Time: 2:00

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 3

**Species seen, habitat information, comments**

Signed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Killeen, Tim & Kath  
8/10/08  
12:30 - 2 PM

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 035

Sample Location Description: \_\_\_\_\_ Depth (feet): 3'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

EWM

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high 0

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

Signed:  
Kathleen Killeen  
Timothy P. Killeen

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                       | <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                          | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )      |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )              | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> ) |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                           | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )    |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )    |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                     | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )          |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                          | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )       |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                             | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )      |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                               | <input type="checkbox"/> Sago pondweed ( <i>Stuckeria pectinata</i> )            |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                             | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )   |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )              |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )               |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                        |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                      |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                        |  |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )         |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )             |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                           |  |

Full

<p><u>036</u> 5' muck EWM <u>0</u> CLP Yes Fullness Few</p>	<p><u>037</u> 5' muck EWM <u>0</u> CLP Yes Fullness Few</p>	<p><u>038</u> 5' muck EWM <u>0</u> CLP Yes Fullness Few</p>	<p><u>039</u> 3' sand EWM <u>0</u> CLP <u>0</u> Fullness</p>
<p>Species: - Northern milfoil - high wild celery large leaf pondweed</p>	<p>Species: Northern milfoil wild celery</p>	<p>Species Northern milfoil wild celery Large leaf pondweed</p>	<p>Species wild celery large leaf pondweed</p>

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 36

Sample Location Description: \_\_\_\_\_ Depth (feet): 5'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus fiabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 037

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspingleaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond-lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 038

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

Arrowhead (*Sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Claspng-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowed (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond-lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 039

Sample Location Description: \_\_\_\_\_ Depth (feet) 3

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspingleaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: Tim & Emily KILLER

Contact Information for one observer:

Telephone Number: 657-5879

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: \_\_\_\_\_ Polk \_\_\_\_\_

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 7-1-08 Start Time: 9:00

End Date: 7-1-08 End Time: 10:30

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 3

**Species seen, habitat information, comments**

Signed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Killeen, Tim & Kath  
9/1/08 9-10:30AM

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 035

Sample Location Description: \_\_\_\_\_ Depth (feet): 5'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

EW N

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

CLP

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Signed:

Kathleen K Killeen

Tomatz P. Killeen

Comments/Additional Observations:

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Forked water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

<u>036</u> 7' muck	<u>037</u> 4' muck	<u>038</u> 5' muck	<u>039</u> 5' sand
EW N <input checked="" type="checkbox"/>	EW N <input checked="" type="checkbox"/>	EW N <input checked="" type="checkbox"/>	EW N <input checked="" type="checkbox"/>
CLP <input checked="" type="checkbox"/>	CLP <input checked="" type="checkbox"/>	CLP <input checked="" type="checkbox"/>	CLP <input checked="" type="checkbox"/>
Fullness <input checked="" type="checkbox"/>	Fullness <input checked="" type="checkbox"/>	Fullness <input checked="" type="checkbox"/>	Fullness <input checked="" type="checkbox"/>
Species:	Species:	Species:	Species:
Northern water milfoil Wild celery	Northern water milfoil Wild celery Water marigold	Northern water milfoil Wild celery Large leaf pondweed	Wild celery



## AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 036

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

### Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

### Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

### Comments/Additional Observations:

## Species

Arrowhead (*Sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Claspingleaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowhead (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sagopondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria spiralis*)

Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 037

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 038

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond-lily (*Nuphar advena*)

# AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 039

Sample Location Description: \_\_\_\_\_ Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

## Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

## Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

## Comments/Additional Observations:

## Species

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasping-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp.)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

Kathleen K Killen

Aquatic Plant Survey

Page 1

9/21/08 11:30 AM - 1 PM

Data Collector/Observer Information

First and Last Names of Observers: Timothy & Kathleen Killen

Contact Information for one observer  
Telephone Number: 651-698-2038  
Email: tpkillen@comcast.net

Monitoring Location

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

Signed: Kathleen K Killen  
Timothy J Killen

Date/Time of Monitoring Trip

Start Date: 9/21/08 Start Time: 11:30 AM

End Date: 9/21/08 End Time: 1 PM

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 3 hr

Results (for this monitoring trip only)

Used ~~Rato Pole~~  
EWM: Eurasian Water Milfoil  
CLP: curly leaf pondweed

Species seen, habitat information, comments

035	036	037	038	039
Depth 6' Desc: muck	Depth 5' Desc: muck	Depth 5' Desc: muck	Depth 5' Desc: muck	Depth 5' Desc: sand
EWM: 0	EWM: 0	EWM: 0	EWM: 0	EWM: 0
CLP: 0	CLP: few	CLP: few	CLP: few	CLP: 0
Fullness: 0	Fullness: 1	Fullness: 1	Fullness: 1	Fullness: 0
Species:	Species:	Species:	Species:	Species:
NWM ontail 1d Celery	NWM Wild Celery	Northern water milfoil Water Marigold Large Leaf Pondweed Wild Celery contail	NWM Wild Celery contail Large Leaf Pondweed	Wild Celery (few)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 035

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pefocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp.)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 036

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasping-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water margoid (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 037

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf-pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella spp*)
- Northern water milfoil (*Myriophyllum sibericum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 038

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibericum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 039

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: Jan & Mike Belich

Contact Information for one observer:

Telephone Number: 715-857-5963

Email: michael.belich@univsys.com

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 6/8/08 Start Time: 2:15

End Date: 6/8/08 End Time: 5:15

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 6

**Species seen, habitat information, comments**

Signed:

Michael Belich  
Janet K. Belich

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 029

Sample Location Description: Pointe Golden Depth (feet): 10

Dominant Sediment Type (circle one):      Muck      Sand      Rock

Sampled Holding (circle one):      Rake Pole      Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):      1-few      2-moderate

~~3-high~~

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):      1-few      2-moderate

3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasping-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 030

Sample Location Description: A-Frame Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

NOTHING

2nd TIME  
8'

MUCK BOTTOM  
COON TAIL  
BROAD LEAF PONDWEED  
NORTHERN MILFOIL

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspig-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Eiodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)

- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 031

Sample Location Description: Paul + Kathy's Place Depth (feet): 0

Dominant Sediment Type (circle one):      Muck      Sand      Rock

Sampled Holding (circle one):      Rake Pole      Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

Comments/Additional Observations:

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Arrowhead ( <i>sagittaria graminea</i> )                            | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus peiocarpus</i> )                     | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                |
| <input type="checkbox"/> Claspng-leaf pondweed ( <i>Potamogeton richardsonii</i> )           | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                       | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       |
| <input checked="" type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )               | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )              |
| <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )       | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )             | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )      |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )              | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )          |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                           | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )                 | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )       |
| <input checked="" type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )   | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                      | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                   | <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |
| <input checked="" type="checkbox"/> Nitellas, stonewarts ( <i>Nitella</i> spp)               |  |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) |  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                     |  |

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 032

Sample Location Description: hanners - Jack & Norm Depth (feet) 2

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 5 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 33

Sample Location Description: Tan Cabin ground point Depth (feet): 10'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Arrowhead ( <i>sagittaria graminea</i> )                      | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )               | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                |
| <input type="checkbox"/> Claspig-leaf pondweed ( <i>Potamogeton richardsonii</i> )     | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     |
| <input type="checkbox"/> Common waterweed ( <i>Eloдея canadensis</i> )                 | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                    | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )              |
| <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )       | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )      |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )        | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )          |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )          | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                     | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )           | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )          | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )       |
| <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )        | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )             | <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                  | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |
| <input type="checkbox"/> Nitellas, stonewarts ( <i>Nitella</i> spp)                    |  |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )      |  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )               |  |



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 6 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 034

Sample Location Description: Brown Boat House Depth (feet): 10'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowhead (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: Mike & Jan Belich

Contact Information for one observer:

Telephone Number: 715-857-5963

Email: michael.belich@unlsys.com

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 7/28/08 Start Time: 5:30 PM

End Date: 7/28/08 End Time: 7:30 PM

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4 hrs

**Species seen, habitat information, comments**

Signed: Michael A. Belich  
Jan K Belich

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 029

Sample Location Description: Pointe Golden Depth (feet): 12'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasp-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Eloдея canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

1 \_\_\_ Curly-leaf pondweed (*Potamogeton crispus*) pod

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

1 \_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

1 \_\_\_ Nitellas, stonewarts (*Nitella* spp)

1 \_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

1 \_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

1 \_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus fiabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

1 \_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 030

Sample Location Description: A-Frame Depth (feet): 5'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 031

Sample Location Description: Paul + Kathy's Place Depth (feet): 5'

Dominant Sediment Type (circle one): Muck ~~Sand~~ Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspig-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

~~\_\_\_~~ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

~~\_\_\_~~ Nitellas, stonewarts (*Nitella* spp)

~~\_\_\_~~ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

~~\_\_\_~~ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water butrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 032

Sample Location Description: Lanners - Jack & Norm Depth (feet): 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Arrowhead ( <i>sagittaria graminea</i> )                          | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )                   | <input checked="" type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )     |
| <input type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> )        | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                     | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                        | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )              |
| <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )     | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )           | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )      |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )            | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )          |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )              | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                         | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |
| <input checked="" type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )    | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )              | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )       |
| <input checked="" type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> ) | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                    | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input checked="" type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )      | <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                      | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |
| <input type="checkbox"/> Nitellias, stonewarts ( <i>Nitella</i> spp)                       |  |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )          |  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                   |  |

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 5 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 33

Sample Location Description: Tan Cabin ground point Depth (feet): 12'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 6 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 034

Sample Location Description: Brown Boat House Depth (feet): 8.5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)  
 Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)  
 Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

3  
~~3-high~~  
~~3-high~~  
 Ding 8/6

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)



**Aquatic Plant Survey**  
Page 1

**Data Collector/Observer Information**

First and Last Names of Observers: Jan & Mike Belich

Contact Information for one observer:

Telephone Number: 715-857-5963

Email: michael.belich@univsys.com

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 8/26/08 Start Time: 11:00 AM

End Date: 8/26/08 End Time: 1:00 PM

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4

**Species seen, habitat information, comments**

Signed: Mike Belich

Janet K. Belich

\_\_\_\_\_

\_\_\_\_\_

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 029

Sample Location Description: Pointe Golden Depth (feet): 12'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high lots of tureens

Comments/Additional Observations:

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 030

Sample Location Description: A-Frame Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Arrowhead ( <i>sagittaria graminea</i> )                          | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                             |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )                   | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                           |
| <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> )           | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                                |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                     | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                                  |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                        | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )                         |
| <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )     | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                                |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )           | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )                 |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )            | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                     |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )              | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )                  |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                         | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                           |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )               | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                         |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )              | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )                  |
| <input checked="" type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> ) | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                           |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                    | <input checked="" type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                 | <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                      | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                              |
| <input type="checkbox"/> Nitellas, stonewarts ( <i>Nitella</i> spp)                        |   |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )          |   |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                   |   |

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 031

Sample Location Description: Paul + Kathy's Place Depth (feet): 7'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*) (1075)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 032

Sample Location Description: hanners - Jack & Norm Depth (feet): 7'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibericum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus fiabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 5 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 33

Sample Location Description: Tan Cabin Ground point Depth (feet): 12'

Dominant Sediment Type (circle one): Muck Sand Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Arrowhead ( <i>sagittaria graminea</i> )                            | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )                     | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                |
| <input type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> )          | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                       | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       |
| <input checked="" type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )               | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )              |
| <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )       | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )             | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )      |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )              | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )          |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                           | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )                 | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )       |
| <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )              | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                      | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                   | <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |
| <input type="checkbox"/> Nitellias, stonewarts ( <i>Nitella</i> spp)                         |  |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) |  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                     |  |

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 6 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 034

Sample Location Description: Brown Boat House Depth (feet): 7'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): ~~1-few~~ 2-moderate 3-high

(lots of  
TOREENS)

Comments/Additional Observations:

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*) *lots of TOREENS*
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisuica*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: David, Mary, Burnell Rekstad

Contact Information for one observer:

Telephone Number: 703-420-4311

Email: maryrekstad@comcast.net

**Monitoring Location**

Waterbody Name: Bone Lake ✓

County: Polk

7 hrs total

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 8-10-08 Start Time: 7:30 pm

End Date: 8-10-08 End Time: 8:30 pm

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 3 hrs

**Species seen, habitat information, comments**

Signed: Burnell Rekstad  
Mary Rekstad  
David Rekstad  
\_\_\_\_\_  
\_\_\_\_\_



Aug. 10 2008

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: WPE2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WPE2

Sample Location Description: Grey Cabin w/ Brick Fireplace Depth (feet): Swing 6

Dominant Sediment Type (circle one): Muck ~~Sand~~ Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Eiodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus fiabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

Aug. 10<sup>th</sup> 2008

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WP116

Sample Location Description: Big brown on hill w/ Red Boat Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high NO

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

Arrowhead (*sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Claspng-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowed (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)

Aug. 10, 2008

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WP01

Sample Location Description: left of white Boathouse Depth (feet): 1e

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high No

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*Sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasping-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

Aug 10, 2008

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WP 60

Sample Location Description: Blue Cabin w/ light House Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Arrowhead ( <i>Sagittaria graminea</i> )                          | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )                   | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                |
| <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> )           | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                     | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                        | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )              |
| <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )                | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )           | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )      |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )            | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )          |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )              | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                         | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |
| <input type="checkbox"/> Grass-leaved arrowhead ( <i>Sagittaria graminea</i> )             | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )              | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )       |
| <input checked="" type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> ) | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                    | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                 | <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                      | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |
| <input type="checkbox"/> Nitellas, stonewarts ( <i>Nitella</i> spp)                        |  |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )          |  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                   |  |

Aug. 10, 2008

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 5 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WP49

Sample Location Description: Left of P. Hicks between 2 poles Depth (feet): 4 ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

Arrowhead (*Sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Clasp-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowed (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellias, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickereedweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)

Aug 10, 2008

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 6 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WP 94

Sample Location Description: 100' from N Buoy on East Side Depth (feet): 8ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations: None

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibericum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckli*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 7 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 47

Sample Location Description: East of South Buoy Depth (feet): 12 ft.

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high No

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high No

Comments/Additional Observations:

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickeretweed (*Pontederia cordata*)
- Sago pondweed (*Stuckeria pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water mangold (*Megalodorita beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: Mary Rekestad, David Rekestad, Dean Meyer

Contact Information for one observer:

Carol Meyer

Telephone Number: 763-420-4311

Email: maryrekestad@comcast.net

**Monitoring Location**

Waterbody Name: Bone Lake ✓

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 7/6/08 Start Time: 10:00 a.m.

End Date: 7/6/08 End Time: 11:00 A.M.

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4 hours

**Species seen, habitat information, comments**

Signed:

Mary Rekestad  
David Rekestad  
Carol Meyer



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WP 62

Sample Location Description: Grey Cabin w/ Brick Fireplace Depth (feet): 6<sup>1</sup>

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): ~~1-few~~ 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 116

w/ Red Boat

Sample Location Description: Big Brown Cabin on Hill Depth (feet): 5'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT Lel

Sample Location Description: left of white boathouse Depth (feet): 8<sup>1</sup>

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellias, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WP60

Sample Location Description: Blue Cabin w/ Light House (sic) Depth (feet): 5'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Pontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella spp*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water burrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 5 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 49

Sample Location Description: left of Pitlicks - Between Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate ~~3-high~~

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspingleaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluviatilis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowhead (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 6 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 94

Sample Location Description: 100' from N buoy on E side of bay Depth (feet): 6'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate ~~3-high~~

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

lots

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowhead (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 7 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 47

Sample Location Description: East of South Bowoy 200' Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate ~~3-high~~

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high x 1000  
Really

Comments/Additional Observations:

Lots + Lots

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowhead (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water mangold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

6/15 (12 hrs TOTAL)

**Aquatic Plant Survey  
Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: Todd Sturgeon, Dale & Cindy Gardner

Contact Information for one observer:

Telephone Number: 715-749-3398

Email: drgardner@sbcglobal.net

**Monitoring Location**

Waterbody Name: Bone Lake ✓

County: Polk ✓

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 6/15 Start Time: 10:30

End Date: 6/15 End Time: 12:00

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4.5

**Species seen, habitat information, comments**

Signed: Todd Sturgeon  
Cindy Gardner  
Dale Gardner



6/15

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WPO40

Sample Location Description: \_\_\_\_\_ Depth (feet): 7 ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella spp*)
- Northern water milfoil (*Myriophyllum sibericum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

6/15

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT Bea0683

Sample Location Description: \_\_\_\_\_ Depth (feet): 8.6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> )          |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )                 |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input checked="" type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> ) |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )               |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )               |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )             |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                     |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                  |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                 |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                       |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )              |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |   |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |   |

6/15

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 041

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> )          |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )                 |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input checked="" type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> ) |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )               |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )               |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )             |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                     |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                  |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                 |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                       |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )              |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |   |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |   |

6/15

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 042

Sample Location Description: \_\_\_\_\_ Depth (feet): 6 ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input checked="" type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )        |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input checked="" type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )   |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisuica</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                 |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                 |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )               |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                       |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                    |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                   |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                         |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input checked="" type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )     |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |   |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |   |

6/15

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 5 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT Point 799

Sample Location Description: \_\_\_\_\_ Depth (feet) 5-6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )               | <input type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> )          |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                  | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )      |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )      | <input checked="" type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> ) |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                   | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )               |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )               |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )    | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )             |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )             | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                     |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                  |
| <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )                 |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                       |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     | <input checked="" type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )   |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )      |   |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |   |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |   |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |   |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                |   |
| <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |   |
| <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |   |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |   |

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# Aquatic Plant Survey

Page 1

## Data Collector/Observer Information

First and Last Names of Observers: Todd Sturgeon, Dale & Cindy Gardner

Contact Information for one observer

Telephone Number: 715-749-3398

Email: d-cgardner@sbcglobal.net

## Monitoring Location

Waterbody Name: Boys Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

## Date/Time of Monitoring Trip

Start Date: 7/27 Start Time: 10:30

End Date: 7/27 End Time: 12:00

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4.50

## Results (for this monitoring trip only)

Species seen, habitat information, comments

Todd Sturgeon  
Dale Gardner  
Cindy Gardner

7/27

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 1 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 040

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

flat stem sample  
grass like sample

**AQUATIC PLANT SURVEY (PER SAMPLE)**

7/27

Sample Location:

Sample #: 2 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT Bone 683

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |   |  |
|---|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                          | <input type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> )     |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                             | <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )                 | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                              | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )          |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )   | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )          |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )               | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )        |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                        | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                |
| <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                             | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )             |
| <input checked="" type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )            |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                                  | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                  |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                                | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )         |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )                 |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )                  |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                           |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                         |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                           |  |
| <input checked="" type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria spiralis</i> )                 |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                              |  |

flat stem sample  
like coontail - white water crowfoot?



7/27

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 3 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 051

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |   |  |
|---|--|
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                          | <input type="checkbox"/> Claspingleaf pondweed ( <i>Potamogeton richardsonii</i> ) |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                             | <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )        |
| <input type="checkbox"/> Floating-leaf-bur-reed ( <i>Sparganium fluctuans</i> )                 | <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )   |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                              | <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )      |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )   | <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )      |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )               | <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )    |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                        | <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )            |
| <input checked="" type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  | <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )         |
| <input checked="" type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )        |
| <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                                  | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )              |
| <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                                | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )     |
| <input type="checkbox"/> Stiff water crowfoot ( <i>Ranunculus flabellaris</i> )                 |  |
| <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )                  |  |
| <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                           |  |
| <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                         |  |
| <input type="checkbox"/> White water lily ( <i>Nymphaea odorata</i> )                           |  |
| <input checked="" type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |  |
| <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria spiralis</i> )                 |  |
| <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                              |  |

crowfoot? same as #2  
flat stem same as #1

7/27

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 4 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 042

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

grass - same as #1  
flat stem leaves off stem & leaves off  
long-leaf pondweed? root

7/27

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 5 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 68AD799

Sample Location Description: \_\_\_\_\_ Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Muskgrasses (*Chara*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Variable pondweed (*Potamogeton gramineus*)
- Sago pondweed (*Stuckenia pectinata*)
- White-stem pondweed (*Potamogeton praelongis*)

9/1/08

# Aquatic Plant Survey

Page 1

## Data Collector/Observer Information

First and Last Names of Observers: Todd Sturgeon, Dale & Cindy Gardner

Contact information for one observer

Telephone Number: 715-749-3398

Email: drgardner@sbcglobal.net

## Monitoring Location

Waterbody Name: Bone Lake

County: Pelk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

## Date/Time of Monitoring Trip

Start Date: 9/1/08 Start Time: 10:15

End Date: 9/1/08 End Time: 11:15

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 3

## Results (for this monitoring trip only)

Species seen, habitat information, comments

Todd Sturgeon  
Cindy Gardner  
Dale Gardner

9/1/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT Bono 799

Sample Location Description: \_\_\_\_\_ Depth (feet): 7ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water butrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

9/1/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WP042

Sample Location Description: \_\_\_\_\_ Depth (feet): 6ft

Dominant Sediment Type (circle one):      Muck      Sand      Rock

Sampled Holding (circle one):      Rake Pole      Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

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**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WPO41

Sample Location Description: \_\_\_\_\_ Depth (feet): 5 ft.

Dominant Sediment Type (circle one):      Muck      Sand      Rock

Sampled Holding (circle one):      Rake Pole      Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibericum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

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**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WP040

Sample Location Description: \_\_\_\_\_ Depth (feet): 5 ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water butrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)



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**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT Bono 683

Sample Location Description: \_\_\_\_\_ Depth (feet): 6 ft.

Dominant Sediment Type (circle one):            Muck            Sand            Rock

Sampled Holding (circle one):            Rake Pole            Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):            1-few            2-moderate            3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):            1-few            2-moderate            3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Portedera cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

# Aquatic Plant Survey

Page 1

## Data Collector/Observer Information

First and Last Names of Observers: Jack & Norma Lanners, Jim & Kathie Widen

Contact Information for one observer

Telephone Number: 612-859-2002 Jack Cell

Email: jlanners@MSN.com

## Monitoring Location

Waterbody Name: Dane Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

## Date/Time of Monitoring Trip

Start Date: 5-31 Start Time: 4:45

End Date: 5-31 End Time: 5:50

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4

## Results (for this monitoring trip only)

Species seen, habitat information, comments

13 hrs total

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS: 079 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasping-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

## AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 080 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

### Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

### Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

## Species

\_\_\_ Arrowhead (*Sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspng-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS .081 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): ~~4~~ 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*Barely anything.*

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowhead (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender najad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

*hardly any*

## AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS # 082 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 15

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

### Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

### Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

## Species

Arrowhead (*Sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Clasp-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowed (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)

## AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS .083 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 9

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

### Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

### Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

### Comments/Additional Observations:

*Nothing but mud*

### Species

\_\_\_ Arrowhead (*Sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowhead (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 0102 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations: very few

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspig-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 103 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS # 023 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowhead (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS .022 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowhead (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria spiralis*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

last year's model

# Aquatic Plant Survey

Page 1

## Data Collector/Observer Information

First and Last Names of Observers: Jack and Norma Lanners, Jim and Kathie Widen

Contact Information for one observer

Telephone Number: 651-436-7599 Lanners

Email: Jlanners@MSN.com

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## Monitoring Location

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

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## Date/Time of Monitoring Trip

Start Date: 8-29-08 Start Time: 2:00 P.M.

End Date: 8-29-08 End Time: 3:00 P.M.

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4

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## Results (for this monitoring trip only)

Species seen, habitat information, comments

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**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 022 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Arrowhead ( <i>sagittaria graminea</i> )                            | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                       |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )                     | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                     |
| <input type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> )          | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                          |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                       | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                            |
| <input checked="" type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )               | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )                   |
| <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )                  | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                          |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )             | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )           |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )              | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )               |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )            |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                           | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                     |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )                 | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                   |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                | <input checked="" type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> ) |
| <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )              | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                     |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                      | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )      |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                   | <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )          |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                        |
| <input type="checkbox"/> Nitellas, stonewarts ( <i>Nitella</i> spp)                          |   |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) |   |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                     |   |

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 023 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 8

Dominant Sediment Type (circle one):      Muck      Sand      Rock

Sampled Holding (circle one):      Rake Pole      Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspng-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

## AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 102 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

### Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

### Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

## Species

Arrowhead (*Sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Clasp-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowhead (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria spiralis*)

Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 103 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspig-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 083 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praetongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

Diems →

Samples

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: ~~080~~ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 080 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspingleaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Eloдея canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella spp*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 082 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 8

Dominant Sediment Type (circle one):            Muck    Sand            Rock

Sampled Holding (circle one):            Rake Pole            Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):            1-few            2-moderate            3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):            1-few            2-moderate            3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 081 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond illy (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 079 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspingleaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

# Aquatic Plant Survey

Page 1

## Data Collector/Observer Information

First and Last Names of Observers: Jack and Norma Lanners, Jim and Kathie Widen

Contact Information for one observer

Telephone Number: 651-436-7599 Lanners

Email: jlanners@msn.com

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## Monitoring Location

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

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## Date/Time of Monitoring Trip

Start Date: 8-3-08 Start Time: 10:45 A.M.

End Date: 8-3-08 End Time: 12:00 P.M.

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 5

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## Results (for this monitoring trip only)

Species seen, habitat information, comments

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## AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 079 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

### Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

### Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

## Species

Arrowhead (*Sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Clasp-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowhead (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 080 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 080 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 1

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Eloдея canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella spp*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample # 081 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 081 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

\_\_\_ Arrowhead (*Sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

X Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowhead (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

X ~~Sago pondweed (*Stuckenia pectinata*)~~

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

X White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria spiralis*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

B.B South end

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: ~~083~~ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 083 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand **Rock**

Sampled Holding (circle one): Rake Pole **Rake Rope**

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: ~~083~~ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 082 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 9

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasp-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

*Diemut*

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: ~~102~~ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 102 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 7

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: 105 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 103 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: ~~154~~ <sup>023</sup> Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 023 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspng-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

## AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: ~~002~~ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 002 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 9

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

### Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

### Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

### Comments/Additional Observations:

### Species

- |  |  |
|--|--|
| <input type="checkbox"/> Arrowhead ( <i>sagittaria graminea</i> )                            | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )                     | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                |
| <input type="checkbox"/> Claspng-leaf pondweed ( <i>Potamogeton richardsonii</i> )           | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                       | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                          | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )              |
| <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )                  | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )             | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )      |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )              | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )          |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                           | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )                 | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )       |
| <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )              | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                      | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                   | <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |
| <input type="checkbox"/> Nitellas, stonewarts ( <i>Nitella</i> spp)                          |  |
| <input checked="" type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) |  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                     |  |

**Aquatic Plant Survey**

Page 1

**Data Collector/Observer Information**

First and Last Names of Observers: Karen Engelbretson & Steve Nusbaum

Contact Information for one observer  
Telephone Number: 651-224-5133 or 715-857-5134  
Email: karen@kje.com

**Monitoring Location**

Waterbody Name: Bone Lake  
County: Polk  
Email: karen@kje.com  
Method of obtaining Latitude and Longitudes:  
• GPS  
• online Surface Water Data Viewer  
• other mapping software

**Date/Time of Monitoring Trip**

Start Date: 7/5/08 Start Time: 7am  
End Date: 7/5/08 End Time: 8am

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4 hrs

**Results (for this monitoring trip only)**

**Species seen, habitat information, comments**

CIP topping out thru bay + channel.  
Beds very heavy + prevented sampling at some locations. Could not get boat there.  
Did not sample BL0782 BL0783

8 hrs  
TOTAL



7/5/06

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS BL0781 WAYPOINT \_\_\_\_\_

Sample Location Description: Karen + Steve's dock Depth (feet): 6'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole / Rake Rope

**Eurasian Water Milfoil (Myriophyllum spicatum)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (Potamogeton crispus)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (Sagittaria graminea)
- Brown-fruited rush (Juncus pelocarpus)
- Clasping-leaf pondweed (Potamogeton richardsonii)
- Common waterweed (Elodea canadensis)
- Coontail (Ceratophyllum demersum)
- Curly-leaf pondweed (Potamogeton crispus)
- Flat-stem pondweed (Potamogeton zosteriformis)
- Floating leaf bur-reed (Sparganium fluctans)
- Floating-leaf pondweed (Potamogeton natans)
- Forked Duckweed (Lemna trisulca)
- Grass-leaved arrowhead (Sagittaria graminea)
- Illinois pondweed (Potamogeton illinoensis)
- Large-leaf pondweed (Potamogeton amplifolius)
- Leafy pondweed (Potamogeton foliosus)
- Long-leaf pondweed (Potamogeton nodosus)
- Muskgrasses (Chara )
- Nitellas, stonewarts (Nitella spp)
- Northern water milfoil (Myriophyllum sibiricum)
- Northern wild rice (Zizania palustris)
- Pickerelweed (Pontederia cordata)
- Sago pondweed (Stuckenia pectinata)
- Slender naiad (Najas flexilis)
- Small duckweed (Lemna minor)
- Small pondweed (Potamogeton pusillus)
- Spatterdock (Nuphar variegata)
- Stiff-water crowfoot (Ranunculus flabellaris)
- Variable pondweed (Potamogeton gramineus)
- Water bulrush (Schoenoplectus subterminalis)
- Water marigold (Megalodonta beckii)
- Water star-grass (Heteranthera dubia)
- White-stem pondweed (Potamogeton praelongis)
- White-water lily (Nymphaea odorata)
- Whorled water-milfoil (Myriophyllum verticillatum)
- Wild celery (Vallisneria americana)
- Yellow pond lily (Nuphar advena)

7/5/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WPOOLE

Sample Location Description: Brown Gum Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Eloдея canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

7/5/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 0779 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*torious formed + detaching  
CLP heavy - hard to find other plants on rake*

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

7/5/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 007

Sample Location Description: Sand point Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one):      Muck      Sand      Rock

Sampled Holding (circle one):      Rake Pole      Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Comments/Additional Observations:**

*CLP heavy. hard to get to sample point  
not sampled*

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta heckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)
- Pickerelweed (*Pontederia cordata*)

7/5/07

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS BLOG53 WAYPOINT \_\_\_\_\_

Sample Location Description: small island - N tip Depth (feet): 10

Dominant Sediment Type (circle one):          Muck          Sand          Rock

Sampled Holding (circle one):          Rake Pole          Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):          1-few          2-moderate          3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):          1-few          2-moderate          3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasp-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Eloдея canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

11/5/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WPO08

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*Sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasping-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

7/5/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WP009

Sample Location Description: \_\_\_\_\_ Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

no CLP until water gets deeper  
lots of low plants that didn't rake up

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta heckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

Pickerelweed (*Pontederia cordata*)

**AQUATIC PLANT SURVEY (PER TRIP)**

Data Collector/Observer Information

First and Last Names of Observers: Karen Engelbretson & Steve Nusbaum

Contact Information for one observer

Telephone Number: 651-224-5133 or 715-857-5134

Email: karen@kje.com

Monitoring Location

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

Date/Time of Monitoring Trip

Start Date: 8/2/08 Start Time: 9a

End Date: 8/2/08 End Time: 11a

Total People 2

Hours Spent 4

(for example if 2 people spent 2 hours each = 4 hours)

Results (for this monitoring trip only) Species seen, habitat information, comments

*lots of aquatic plants + wide variety in orv sample points  
many other plants observed @ different depths but  
only those @ orv or waypoint have been recorded.*



8/2/04

### AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS BL0653 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 12'

Dominant Sediment Type (circle one):      Muck      Sand      Rock

Sampled Holding (circle one):      Rake Pole      Rake Rope

#### Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one):      1-few      2-moderate      3-high

#### Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one):      1-few      2-moderate      3-high

#### Comments/Additional Observations:

*0 plants*

#### Species

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

8/2/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS B10895 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 8'

Dominant Sediment Type (circle one):            Muck            Sand            Rock

Sampled Holding (circle one):            Rake Pole            Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):            1-few            2-moderate            3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):            1-few            2-moderate            3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

8/2/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS ~~E~~ \_\_\_\_\_ WAYPOINT WP008

Sample Location Description: \_\_\_\_\_ Depth (feet): 5'

Dominant Sediment Type (circle one):      Muck      Sand      Rock

Sampled Holding (circle one):      Rake Pole      Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Comments/Additional Observations:**

0 plants

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta heckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

8/2/08

### AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WP 009

Sample Location Description: \_\_\_\_\_ Depth (feet): 5'

Dominant Sediment Type (circle one):            Muck            Sand            Rock

Sampled Holding (circle one):            Rake Pole            Rake Rope

#### Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one):            1-few            2-moderate            3-high

#### Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one):            1-few            2-moderate            3-high

Comments/Additional Observations:

### Species

Arrowhead (*Sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Clasp-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowed (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)

Pickerelweed (*Pontederia cordata*)

6/2/06

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WP #10

Sample Location Description: \_\_\_\_\_ Depth (feet): 8'

Dominant Sediment Type (circle one):            Muck            Sand            Rock

Sampled Holding (circle one):            Rake Pole            Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):            1-few            2-moderate            3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):            1-few            2-moderate            3-high

**Comments/Additional Observations:**

*Big stick*

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspingleaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

Pickerelweed (*Pontederia cordata*)

8/2/08

8/2

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS BL0781 WAYPOINT \_\_\_\_\_

Sample Location Description: Karen + Steven dock Depth (feet): 5'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate ~~3-high~~

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*Lots of plants*

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasp-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Eloдея canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta heckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

8/5/09

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS BLO782 WAYPOINT \_\_\_\_\_

Sample Location Description: Green Door Boat House Depth (feet): 4'

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*in shallower water there is  
\* Common bur-reed (*Sparganium eurycarpum*)  
We should do an inventory of emergents here.*

*@ shore  
on land - rare  
• purple fruited orchids  
• giant reed (*Phragmites australis*)*

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

Pickerelweed (*Pontederia cordata*)

8/2/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS B10783 WAYPOINT \_\_\_\_\_

Sample Location Description: Hubers dock Depth (feet): 2'

Dominant Sediment Type (circle one):      Muck      Sand      Rock

Sampled Holding (circle one):      Rake Pole      Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Arrowhead (*sagittaria graminea*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta heckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)
- Pickerelweed (*Pontederia cordata*)



3/8/68

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT WP 007

Sample Location Description: sandpoint Depth (feet): 6'

Dominant Sediment Type (circle one):      Muck      Sand      Rock

**Sampled Holding** (circle one):      Rake Pole      Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):      1-few      2-moderate      3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara* )
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

Pickerelweed (*Pontederia cordata*)

8/2/08

### AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS BL 0779 WAYPOINT \_\_\_\_\_

Sample Location Description: Pearson Depth (feet): 5'

Dominant Sediment Type (circle one):      Muck      Sand      Rock

Sampled Holding (circle one):      Rake Pole      Rake Rope

#### Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one):      1-few      2-moderate      3-high

#### Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one):      1-few      2-moderate      3-high

#### Comments/Additional Observations:

#### Species

Arrowhead (*sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Claspingleaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowhead (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)

Pickerelweed (*Pontederia cordata*)

8/2/08

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT UP 006

Sample Location Description: Brown cabin Depth (feet): 6'

Dominant Sediment Type (circle one):            Muck            Sand            Rock

Sampled Holding (circle one):            Rake Pole            Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one):            1-few            2-moderate            3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one):            1-few            2-moderate            3-high

**Comments/Additional Observations:**

**Species**

Arrowhead (*sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Clasping-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Eloдея canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowed (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella spp*)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)

Pickerelweed (*Pontederia cordata*)

**Aquatic Plant Survey - June**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: Mike & Lorraine Lunzer

Contact Information for one observer:

Telephone Number: 715-857-5516

Email: llunzer@lakeland.ws

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 6/30/08 Start Time: 9:00 PM

End Date: 6/30/08 End Time: 9:15

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4.5 hrs

**Species seen, habitat information, comments**

Massive beds of curly leaf pondweed laying on top of the water, every where at or near all 6 of our locations. Almost no other weeds seen in area. Turions found in the heavy clumps of pond weed on rake.

Signed: Lorraine Lunzer

Mike Lunzer

llunzer@lakeland.ws

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS BOAO 463 WAYPOINT \_\_\_\_\_

Sample Location Description: Bessie's Point - Duck & Bay Depth (feet): 3 1/2

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*Some Moss  
Floating Mass of Curly Leaf Pond Weed to the west of buoy*

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PL**

Sample Loca

Sample #: \_\_

GPS\_\_\_\_\_

Sample Loca

Dominant Se

**Sampled Ho**

**Eurasian W**  
Rake Fullnes

**Curly-Leaf F**  
Rake Fullnes

**Comments/**

Seam/  
Lots o  
Some l

**Species**

Arrowhead

Brown-fruite

Claspig-lea

Common w

Coontail (C

Curly-leaf p

Flat-stem p

Floating lea

Floating-lea

Forked Duc

Grass-leavi

Illinois ponc

Large-leaf j

Leafy pond

Long-leaf p

Muskgrass

Nitellas, str

Northern w

Northern w

# AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT .051 \_\_\_\_\_

Sample Location Description: 180' north from Gun Cabin w/ Windows Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

## Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

## Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

## Comments/Additional Observations:

*Seem / moss  
Lots of floating curly leaf pond weed and a small amount of water lilies  
Some large leaf pondweed*

## Species

Arrowhead (*Sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Clasp-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluviatilis*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowhead (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellias, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water burrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria spiralis*)

Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE) 1**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS WAYPOINT .052

Sample Location Description: 320 ft from shore + 4 trees Depth (feet): 1

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*Lots of Moss on rake  
Floating beds of curly leaf pondweed in water*

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*) *one plant*
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibericum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*) *one small plant*
- Yellow pond lily (*Nuphar advena*)



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS BAND 283 WAYPOINT \_\_\_\_\_

Sample Location Description: South yard of Gray House - 100ft out Depth (feet): 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high +++

**Comments/Additional Observations:**

Gobs of curly leaf pond weed on Rake  
Floating beds of same  
No other weeds

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus petocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE) /**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS WAYPOINT 053

Sample Location Description: Riley's Dock 150' out Depth (feet): 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high + + +

**Comments/Additional Observations:**

*Massive grove of thick curly leaf pondweed  
Doubtless weeds -*

**Species**

Arrowhead (*sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Clasp-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowed (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellias, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water martgold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS WAYPOINT 0.54

Sample Location Description: South end of Larcen's house <sup>75ft out</sup> Depth (feet): 13

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (Myriophyllum spicatum)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (Potamogeton crispus)**

Rake Fullness (circle one): 1-few 2-moderate 3-high ++

**Comments/Additional Observations:**

*Massive area of floating beds of curly leaf pondweed  
No other weeds*

**Species**

- Arrowhead (Sagittaria graminea)
- Brown-fruited rush (Juncus pelocarpus)
- Claspng-leaf pondweed (Potamogeton richardsonii)
- Common waterweed (Elodea canadensis)
- Coontail (Ceratophyllum demersum)
- Curly-leaf pondweed (Potamogeton crispus)
- Flat-stem pondweed (Potamogeton zosteriformis)
- Floating leaf bur-reed (Sparganium fluctuans)
- Floating-leaf pondweed (Potamogeton natans)
- Forked Duckweed (Lemna trisulca)
- Grass-leaved arrowed (Sagittaria graminea)
- Illinois pondweed (Potamogeton illinoensis)
- Large-leaf pondweed (Potamogeton amplifolius)
- Leafy pondweed (Potamogeton foliosus)
- Long-leaf pondweed (Potamogeton nodosus)
- Muskgrasses (Chara )
- Nitellas, stonewarts (Nitella spp)
- Northern water milfoil (Myriophyllum sibiricum)
- Northern wild rice (Zizania palustris)
- Pickerelweed (Pontederia cordata)
- Sago pondweed (Stuckenia pectinata)
- Slender naiad (Najas flexilis)
- Small duckweed (Lemna minor)
- Small pondweed (Potamogeton pusillus)
- Spatterdock (Nuphar variegata)
- Stiff-water crowfoot (Ranunculus flabellaris)
- Variable pondweed (Potamogeton gramineus)
- Water bulrush (Schoenoplectus subterminalis)
- Water marigold (Megalodonta beckii)
- Water star-grass (Heteranthera dubia)
- White-stem pondweed (Potamogeton praelongis)
- White-water lily (Nymphaea odorata)
- Whorled water-milfoil (Myriophyllum verticillatum)
- Wild celery (Vallisneria americana)
- Yellow pond lily (Nuphar advena)

**Aquatic Plant Survey - July**  
**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: Mike E. Lorraine Lurvey

Contact Information for one observer:

Telephone Number: 915-857-5516

Email: Llurvey@lakeandlakes.com

**Monitoring Location**

Waterbody Name:  Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 7/31/08 Start Time: 2:30 PM

End Date: 7/31/08 End Time: 5:40 PM

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4

**Species seen, habitat information, comments**

Mostly SKIMMERS Nival seen on lake bottom.  
Beds of clay leaf pondweed zone. Pickups were  
few weeds on shore although clasp leaf &  
only leaf pondweed could be seen in the  
lake bed.

Signed: Lorraine Lurvey

Mike Lurvey

\_\_\_\_\_  
\_\_\_\_\_

**AQUATIC PLANT SURVEY (PER SAMPLE) <sup>2</sup>**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS BOND 463 WAYPOINT \_\_\_\_\_

Sample Location Description: Bossy's Point - Dock + Boory Depth (feet): 7

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*Spencer Weed - Celery Weed*  
*lots few - 3 or 4 on rake*

**Species**

- |  |  |
|--|--|
| <input type="checkbox"/> Arrowhead ( <i>sagittaria graminea</i> )                      | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )               | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                |
| <input type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> )    | <input checked="" type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )          |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                 | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                    | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )              |
| <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )       | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )      |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluviuans</i> )        | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )          |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )          | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                     | <input type="checkbox"/> Water margold ( <i>Megalodonta beckii</i> )                 |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )           | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )          | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )       |
| <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )        | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )             | <input checked="" type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )     |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                  | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |
| <input type="checkbox"/> Nitelias, stonewarts ( <i>Nitella</i> spp)                    |  |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )      |  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )               |  |

2 1/31/08  
**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT . 051

Sample Location Description: 180' N. of house from Cabin w. windows Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (Myriophyllum spicatum)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (Potamogeton crispus)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*few weeds on rake  
Spring Rice - many  
moss - small amount*

**Species**

\_\_\_ Arrowhead (sagittaria graminea)

\_\_\_ Brown-fruited rush (Juncus pelocarpus)

\_\_\_ Claspingleaf pondweed (Potamogeton richardsonii)

\_\_\_ Common waterweed (Elodea canadensis)

\_\_\_ Coontail (Ceratophyllum demersum)

\_\_\_ Curly-leaf pondweed (Potamogeton crispus)

\_\_\_ Flat-stem pondweed (Potamogeton zosteriformis)

\_\_\_ Floating leaf bur-reed (Sparganium fluviatans)

\_\_\_ Floating-leaf pondweed (Potamogeton natans)

\_\_\_ Forked Duckweed (Lemna trisulca)

\_\_\_ Grass-leaved arrowhead (Sagittaria graminea)

\_\_\_ Illinois pondweed (Potamogeton illinoensis)

\_\_\_ Large-leaf pondweed (Potamogeton amplifolius)

\_\_\_ Leafy pondweed (Potamogeton foliosus)

\_\_\_ Long-leaf pondweed (Potamogeton nodosus)

\_\_\_ Muskgrasses (Chara)

\_\_\_ Nitellas, stonewarts (Nitella spp)

\_\_\_ Northern water milfoil (Myriophyllum sibiricum)

\_\_\_ Northern wild rice (Zizania palustris)

\_\_\_ Pickerelweed (Pontederia cordata)

\_\_\_ Sago pondweed (Stuckenia pectinata)

Slender naiad (Najas flexilis)

\_\_\_ Small duckweed (Lemna minor)

\_\_\_ Small pondweed (Potamogeton pusillus)

\_\_\_ Spatterdock (Nuphar variegata)

\_\_\_ Stiff-water crowfoot (Ranunculus flabellaris)

\_\_\_ Variable pondweed (Potamogeton gramineus)

\_\_\_ Water bulrush (Schoenoplectus subterminalis)

\_\_\_ Water marigold (Megalodonta beckii)

\_\_\_ Water star-grass (Heteranthera dubia)

\_\_\_ White-stem pondweed (Potamogeton praelongis)

\_\_\_ White-water lily (Nymphaea odorata)

\_\_\_ Whorled water-milfoil (Myriophyllum verticillatum)

\_\_\_ Wild celery (Vallisneria americana)

\_\_\_ Yellow pond lily (Nuphar advena)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

2 1/31/08

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS WAYPOINT .052

Sample Location Description: 320 ft from shore - 4 trees Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*Sparganium* Weed  
Lots on rake

1-clasping leaf  
pondweed

1- white stem  
pondweed

**Species**

- |  |   |
|--|---|
| <input type="checkbox"/> Arrowhead ( <i>Sagittaria graminea</i> )                              | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                       |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )                       | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                     |
| <input checked="" type="checkbox"/> Clasping-leaf pondweed ( <i>Potamogeton richardsonii</i> ) | <input checked="" type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )               |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                         | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                            |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                            | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )                   |
| <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )                    | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                          |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )               | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )           |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )                | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )               |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )                  | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )            |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                             | <input type="checkbox"/> Water margold ( <i>Megalodonta beckii</i> )                      |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )                   | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )                   |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )                  | <input checked="" type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> ) |
| <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )                | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                     |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                        | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> )      |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                     | <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                     |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )  | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                        |
| <input type="checkbox"/> Nitellias, stonewarts ( <i>Nitella</i> spp)                           |   |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )              |   |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                       |   |

**AQUATIC PLANT SURVEY (PER SAMPLE)** *a* *7/31/08*

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS B020283 WAYPOINT \_\_\_\_\_

Sample Location Description: So yard of Gray House - 100ft out Depth (feet): 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*Wet flat land - Coontail ← 1 weed on rake*

**Species**

- |   |  |
|---|--|
| <input type="checkbox"/> Arrowhead ( <i>sagittaria graminea</i> )                           | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )                    | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                |
| <input type="checkbox"/> Claspng-leaf pondweed ( <i>Potamogeton richardsonii</i> )          | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     |
| <input type="checkbox"/> Common waterweed ( <i>Eloдея canadensis</i> )                      | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       |
| <input checked="" type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )              | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )              |
| <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )                 | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     |
| <input checked="" type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> ) | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )      |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )             | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )          |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )               | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                          | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )                | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )               | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )       |
| <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )             | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                     | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                  | <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                       | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |
| <input type="checkbox"/> Nitellas, stonewarts ( <i>Nitella</i> spp)                         |  |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )           |  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                    |  |



**AQUATIC PLANT SURVEY (PER SAMPLE) 2**

7/31/09

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT .053

Sample Location Description: Riley's Dock 150 ft out Depth (feet): 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

Decomposed material - unidentifiable  
Black. Some what stringy

**Species**

- |   |  |
|---|--|
| <input type="checkbox"/> Arrowhead ( <i>sagittaria graminea</i> )                 | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )          | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                |
| <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> )  | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )            | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )               | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )              |
| <input type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )       | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )  | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )      |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )   | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )          |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )     | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )      | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )     | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )       |
| <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )   | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )           | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )        | <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                             | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |
| <input type="checkbox"/> Nitellas, stonewarts ( <i>Nitella</i> spp)               |  |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> ) |  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )          |  |

Aquatic Plant Survey - A09  
Page 1

Data Collector/Observer Information

First and Last Names of Observers: Mike Lorraine Lunzer

Contact Information for one observer:

Telephone Number: 715-857-5516

Email: llunzer@lakeandlakes.com

Monitoring Location

Waterbody Name: X Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

Date/Time of Monitoring Trip

Start Date: 9/28/08 Start Time: 7:00 PM

End Date: 9/28/08 End Time: 8:15 PM

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 2 1/2

Species seen, habitat information, comments

Very few weeds seen / picked up.

Signed: Lorraine Lunzer  
Mike Lunzer  
\_\_\_\_\_  
\_\_\_\_\_

AQUATIC PLANT SURVEY (PER SAMPLE)

3

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS BAND 463 WAYPOINT \_\_\_\_\_

Sample Location Description: Bessy's Point - Dock & Buoy Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

*SP. OF DEER*  
*SP. FLY W/ weed - Light*  
*mostly wild celery grass.*  
*Northern Milfoil - 1 weed*

Species

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*) *1 weed*
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water fly (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

3

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT .051

Sample Location Description: 100 ft from Pier 200 4 windows Depth (feet): 3 1/2 ft

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (Myriophyllum spicatum)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (Potamogeton crispus)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*Light weeds  
Curly leaf pondweed  
Wild celery*

**Species**

- Arrowhead (sagittaria graminea)
- Brown-fruited rush (Juncus pelocarpus)
- Claspng-leaf pondweed (Potamogeton richardsonii)
- Common waterweed (Elodea canadensis)
- Coontail (Ceratophyllum demersum)
- Curly-leaf pondweed (Potamogeton crispus)
- Flat-stem pondweed (Potamogeton zosteriformis)
- Floating leaf bur-reed (Sparganium fluctuans)
- Floating-leaf pondweed (Potamogeton natans)
- Forked Duckweed (Lemna trisulca)
- Grass-leaved arrowed (Sagittaria graminea)
- Illinois pondweed (Potamogeton illinoensis)
- Large-leaf pondweed (Potamogeton amplifolius)
- Leafy pondweed (Potamogeton foliosus)
- Long-leaf pondweed (Potamogeton nodosus)
- Muskgrasses (Chara)
- Nitellas, stonewarts (Nitella spp)
- Northern water milfoil (Myriophyllum sibiricum)
- Northern wild rice (Zizania palustris)
- Pickerelweed (Pontederia cordata)
- Sago pondweed (Stuckenia pectinata)
- Slender naiad (Najas flexilis)
- Small duckweed (Lemna minor)
- Small pondweed (Potamogeton pusillus)
- Spatterdock (Nuphar variegata)
- Stiff-water crowfoot (Ranunculus flabellaris)
- Variable pondweed (Potamogeton gramineus)
- Water bulrush (Schoenoplectus subterminalis)
- Water marigold (Megalodonta beckii)
- Water star-grass (Heteranthera dubia)
- White-stem pondweed (Potamogeton praelongis)
- White-water lily (Nymphaea odorata)
- Whorled water-milfoil (Myriophyllum verticillatum)
- Wild celery (Vallisneria americana)
- Yellow pond lily (Nuphar advena)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

3

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT .052

Sample Location Description: 320 ft from So Shore x 4 trees Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*med rate full - curly leaf pondweed*

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluviatense*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowhead (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

*weed*  Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild calery (*Vallisneria spiralis*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

3  
AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS BOUNO 283 WAYPOINT \_\_\_\_\_

Sample Location Description: So. Pd. of Gray House 100ft out Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

*Very Light - wind*

Species

\_\_\_ Arrowhead (*Sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus palocarpus*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluviatense*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Fored Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowhead (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water burrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria spiralis*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

3

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 053

Sample Location Description: Riley's Dock 150 ft out Depth (feet): 11

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**  
 Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**  
 Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*big light - picked up only curly pondweed plants  
 TURIONS*

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus palocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Eloidea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosterifolius*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

3

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 054

Sample Location Description: S. End of Larsons House 75 ft deep Depth (feet): 14

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

*Some pondweed pods  
1 mixed tuft*

**Species**

Arrowhead (*Sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Claspng-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowhead (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praeflongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)



Aquatic Plant Survey  
Page 1

10 hrs  
TOTAL

June - 2008

Data Collector/Observer Information

First and Last Names of Observers: Dennis + Jeanne Lunzer

Contact Information for one observer:

Telephone Number: 472-2217

Email: \_\_\_\_\_

Monitoring Location

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

Date/Time of Monitoring Trip

Start Date: 6/29 Start Time: 8:00 am

End Date: 6/29 End Time: 9:30 am

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 3

Species seen, habitat information, comments

curly leaf pondweed  
flat stem  
white stem  
coontail

Signed:

D. Lunzer  
Jeanne Lunzer

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 845 WAYPOINT \_\_\_\_\_

Sample Location Description: LUNZER'S DOCK Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspingleaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 844 WAYPOINT \_\_\_\_\_

Sample Location Description: Wilkins Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**X Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 01b

Sample Location Description: Pine Grove Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasp-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT D17

Sample Location Description: Lag Cabin Depth (feet): 6 1/2

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*Sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspng-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water mangold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 6167 WAYPOINT \_\_\_\_\_

Sample Location Description: Ray's Reef Depth (feet): 8

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**\* Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Arrowhead (*Sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Clasp-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosterifomis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Magalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 61A WAYPOINT → \_\_\_\_\_

Sample Location Description: other side of Ray's Reef Depth (feet): 12

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**X Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heieranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT S**

Sample Location:

Sample #: \_\_\_\_\_ L

GPS 790 WA

Sample Location Des

Dominant Sediment

**Sampled Holding (c**

**Eurasian Water Milf**

Rake Fullness (circle

**Curly-Leaf Pondwee**

Rake Fullness (circle

**Comments/Additior**

**Species**

\_\_\_ Common waterwi

\_\_\_ Coontail (Ceratop

\_\_\_ Floating-leaf-bur-

\_\_\_ Forked Duckweed

\_\_\_ Muskgrasses (Ch

\_\_\_ Northern water m

\_\_\_ Northern wild rice

\_\_\_ Pickerelweed (Po

\_\_\_ Slender naiad (Næ

\_\_\_ Small duckweed

\_\_\_ Spatterdock (Nup

\_\_\_ Stiff water crowfc

\_\_\_ Water bulrush (Sc

\_\_\_ Water marigold (M

\_\_\_ Water star-grass (

\_\_\_ White water lily (N

\_\_\_ Whorled water-m

\_\_\_ Wild celery (Vallis

\_\_\_ Yellow pond lily (f



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 790 WAYPOINT \_\_\_\_\_

Sample Location Description: left of McCall's Depth (feet): 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole

Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

\_\_\_ Common waterweed (*Elodea canadensis*)

\_\_\_ Coontail (*Ceratophyllum demersum*)

\_\_\_ Floating-leaf-bur-reed (*Sparganium fluctuans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontederia cordata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

\_\_\_ Claspingleaf pondweed (*Potamogeton richardsonii*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

White-stem pondweed (*Potamogeton praelongis*)

**Aquatic Plant Survey**  
**Page 1**

July - 2008

**Data Collector/Observer Information**

First and Last Names of Observers: Dennis + Jeanne Lunzer

Contact Information for one observer:

Telephone Number: 472-2212

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 7/28 Start Time: 8:45

End Date: 7/28 End Time: 10:45

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4 hrs

**Species seen, habitat information, comments**

Cootail  
Curly-leaf pondweed  
white stem pondweed  
flat stem "

Signed: Jeanne Lunzer  
D. Lunzer

R: 45 - 10:45  
July 28

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 845 WAYPOINT \_\_\_\_\_

Sample Location Description: Lumbers Dock Depth (feet): 2

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender najad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPL**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Lon:

GPS 844 WAYPOINT \_\_\_\_\_

Sample Location Description: Wilk

Dominant Sediment Type (circle one):

Sampled Holding (circle one): Rake

Eurasian Water Milfoil (*Myriophyllum* sp)

Rake Fullness (circle one): 1-few

Curly-Leaf Pondweed Record (*Potamogeton*)

Rake Fullness (circle one): 1-few

Comments/Additional Observations:

**Species**

Arrowhead (*sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Claspig-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowhead (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 844 WAYPOINT \_\_\_\_\_

Sample Location Description: Wilkin's Depth (feet): 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Eiodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 016

Sample Location Description: Pine Grove Depth (feet): 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium flucluanis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trislca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella spp*)
- Northern water milfoil (*Myriophyllum sibericum*)
- Northern wild rice (*Zizania palustris*)
- Pickereelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water buirush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

## AQUATIC PLANT SURV

Sample Location:

Sample #: \_\_\_\_\_ Latitude

GPS \_\_\_\_\_ WAY

Sample Location Descrip

Dominant Sediment Type

**Sampled Holding** (circle

**Eurasian Water Milfoil**

Rake Fullness (circle one

**Curly-Leaf Pondweed**

Rake Fullness (circle one

**Comments/Additional**

### Species

Arrowhead (sagittaria gran

Brown-fruited rush (Juncu

Claspng-leaf pondweed (l

Common waterweed (Eloc

Coontail (Ceratophyllum d

Curly-leaf pondweed (Pot

Flat-stem pondweed (Pot

Floating leaf bur-reed (Sp

Floating-leaf pondweed (F

Forked Duckweed (Lemni

Grass-leaved arrowed (St

Illinois pondweed (Potam

Large-leaf pondweed (Po

Leafy pondweed (Potam

Long-leaf pondweed (Pot

Muskgrasses (Chara )

Nitellas, stonewarts (Nitel

Northern water milfoil (M)

Northern wild rice (Zizani

# AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 017

Sample Location Description: 151 Log Cabin (Bird #) Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

## Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

## Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

## Comments/Additional Observations:

### Species

Arrowhead (*Sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Clasp-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Eilodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluviatans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowhead (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 667 WAYPOINT \_\_\_\_\_

Sample Location Description: Ray's Reef Depth (feet): 9

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuana*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*) fullness ①
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

August-2008

Data Collector/Observer Information

First and Last Names of Observers: Dennis + Jeanne Lunzer

Contact Information for one observer:

Telephone Number: 472-2217

Email: \_\_\_\_\_

Monitoring Location

Waterbody Name: Bone Lake

County: Polk

Method of obtaining Latitude and Longitudes:

- GPS
- online Surface Water Data Viewer
- other mapping software

Date/Time of Monitoring Trip

Start Date: 8/28 Start Time: 9:30

End Date: 8/28 End Time: 11:00

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 3 hrs

Species seen, habitat information, comments

white stem pondweed  
coontail  
flatstem  
whitewater crowfoot

Signed: Jeanne Lunzer  
D. Lunzer

\_\_\_\_\_  
\_\_\_\_\_

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS P 45 WAYPOINT \_\_\_\_\_

Sample Location Description: Lunzer's Dock Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluviatans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowhead (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 844 WAYPOINT \_\_\_\_\_

Sample Location Description: Wilkins Dock Depth (feet): 7

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

Arrowhead (*sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Clasping-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluviatans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowed (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_ WAYPOINT 017

Sample Location Description: Log Cabin Bird H. Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)

- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthere dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 667 WAYPOINT \_\_\_\_\_

Sample Location Description: Roy's Reef Depth (feet): 7

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

white water crowfoot

**Species**

\_\_\_ Arrowhead (*sagittaria graminea*)

\_\_\_ Brown-fruited rush (*Juncus pelocarpus*)

\_\_\_ Claspng-leaf pondweed (*Potamogeton richardsonii*)

\_\_\_ Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

\_\_\_ Curly-leaf pondweed (*Potamogeton crispus*)

\_\_\_ Flat-stem pondweed (*Potamogeton zosteriformis*)

\_\_\_ Floating leaf bur-reed (*Sparganium fluctuans*)

\_\_\_ Floating-leaf pondweed (*Potamogeton natans*)

\_\_\_ Forked Duckweed (*Lemna trisulca*)

\_\_\_ Grass-leaved arrowed (*Sagittaria graminea*)

\_\_\_ Illinois pondweed (*Potamogeton illinoensis*)

\_\_\_ Large-leaf pondweed (*Potamogeton amplifolius*)

\_\_\_ Leafy pondweed (*Potamogeton foliosus*)

\_\_\_ Long-leaf pondweed (*Potamogeton nodosus*)

\_\_\_ Muskgrasses (*Chara*)

\_\_\_ Nitellas, stonewarts (*Nitella* spp)

\_\_\_ Northern water milfoil (*Myriophyllum sibiricum*)

\_\_\_ Northern wild rice (*Zizania palustris*)

\_\_\_ Pickerelweed (*Pontedera cordata*)

\_\_\_ Sago pondweed (*Stuckenia pectinata*)

\_\_\_ Slender naiad (*Najas flexilis*)

\_\_\_ Small duckweed (*Lemna minor*)

\_\_\_ Small pondweed (*Potamogeton pusillus*)

\_\_\_ Spatterdock (*Nuphar variegata*)

\_\_\_ Stiff-water crowfoot (*Ranunculus flabellaris*)

\_\_\_ Variable pondweed (*Potamogeton gramineus*)

\_\_\_ Water bulrush (*Schoenoplectus subterminalis*)

\_\_\_ Water marigold (*Megalodonta beckii*)

\_\_\_ Water star-grass (*Heteranthera dubia*)

\_\_\_ White-stem pondweed (*Potamogeton praelongis*)

\_\_\_ White-water lily (*Nymphaea odorata*)

\_\_\_ Whorled water-milfoil (*Myriophyllum verticillatum*)

\_\_\_ Wild celery (*Vallisneria americana*)

\_\_\_ Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 61D WAYPOINT \_\_\_\_\_

Sample Location Description: otherside Ray's Reef Depth (feet): 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

white water crowfoot

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Eiodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 790 WAYPOINT \_\_\_\_\_

Sample Location Description: Left of Mc Collis Depth (feet): 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

Arrowhead (*sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Clasping-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowed (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender najad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)



ROBERT GRAHAM      DAVE NELSON

RECAP —

<u>DATE</u>	<u>HOURS</u>
6/15/08	4
7/14/08	5
8/16/08	5
9/12/08	5
	<hr/>
	21

# Aquatic Plant Survey

Page 1

## Data Collector/Observer Information

First and Last Names of Observers: BOB GRADY / DAVE NELSON

Contact Information for one observer

Telephone Number: 651-789-3492

Email: \_\_\_\_\_

## Monitoring Location

Waterbody Name: ROBEY LAKE

County: ROBEY

Method of obtaining Latitude and Longitudes:

- GPS ~~GPS~~
- online Surface Water Data Viewer
- other mapping software

## Date/Time of Monitoring Trip

Start Date: 6-15-08 Start Time: 11:00

End Date: 6-15-08 End Time: 2:00

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 4

## Results (for this monitoring trip only)

Species seen, habitat information, comments

\_\_\_\_\_  
\_\_\_\_\_

*Bob Grady*  
*Dave Nelson*

## Aquatic Plant Survey

### Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 879

WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_

Depth (feet): 12

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

### Species

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

# Aquatic Plant Survey

## Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 105

WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_

Depth (feet): 12

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

## Species

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

# Aquatic Plant Survey

## Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 003

WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_

Depth (feet): 12

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

Species CLEAN

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

## Aquatic Plant Survey

### Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 919

WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_

Depth (feet): 14

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

### Species

- Claspingleaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- \* Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria spiralis*)
- Yellow pond lily (*Nuphar advena*)

# Aquatic Plant Survey

## Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 45

WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_

Depth (feet): 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

Species CLEAN

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

# Aquatic Plant Survey

## Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 44

WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_

Depth (feet): 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

Species CLEAN

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)



## Aquatic Plant Survey

### Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 43

WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_

Depth (feet): 10

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

### Species

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey**

**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: BOB GRAHAM / DAVE NELSON

Contact Information for one observer

Telephone Number: 651-739-3432

Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: BEAR LAKE

County: POLK

Method of obtaining Latitude and Longitudes:

- GPS ~~GPS~~
- online Surface Water Data Viewer
- other mapping software

**Date/Time of Monitoring Trip**

Start Date: 7-14-08 Start Time: 9 AM

End Date: 7-14-08 End Time: 11:30 AM

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 5

**Results (for this monitoring trip only)**

Species seen, habitat information, comments

Dave Nelson  
Bob Graham

## Aquatic Plant Survey

### Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 879

WAYPOINT 879

Sample Location Description: \_\_\_\_\_

Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

### Species

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

## Aquatic Plant Survey

### Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_

WAYPOINT 105

Sample Location Description: \_\_\_\_\_

Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

### Species

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

## Aquatic Plant Survey

### Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 003

WAYPOINT \_\_\_\_\_

Sample Location Description: 3

Depth (feet): \_\_\_\_\_

Dominant Sediment Type (circle one): Muck      Sand      Rock

Sampled Holding (circle one): Rake Pole      Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few    2-moderate    3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few    2-moderate    3-high

Comments/Additional Observations:

### Species

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

# Aquatic Plant Survey

## Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS \_\_\_\_\_

WAYPOINT 9.9

Sample Location Description: \_\_\_\_\_

Depth (feet): 3

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

## Species

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sogo pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

## Aquatic Plant Survey

### Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS #845

WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_

Depth (feet): 5

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

### Species

- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sago pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

# Aquatic Plant Survey

## Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 44

WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_

Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

Eurasian Water Milfoil (*Myriophyllum spicatum*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Curly-Leaf Pondweed Record (*Potamogeton crispus*)

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

## Species

- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Floating-leaf-bur-reed (*Sparganium fluctuans*)
- Forked Duckweed (*Lemna trisulca*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Northern watermeal (*Wolffia borealis*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Sogo pondweed (*Stuckenia pectinata*)
- Spatterdock (*Nuphar variegata*)
- Stiff water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White water lily (*Nymphaea odorata*)
- White-stem pondweed (*Potamogeton praelongis*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)



**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 43 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 6

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibericum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**Aquatic Plant Survey**

**Page 1**

**Data Collector/Observer Information**

First and Last Names of Observers: ROBERT GRAHAM - DAVE NELSON

Contact Information for one observer  
Telephone Number: 651-739-3432  
Email: \_\_\_\_\_

**Monitoring Location**

Waterbody Name: BONE LAKE  
County: YORK  
Method of obtaining Latitude and Longitudes:  
• GPS ~~SP~~  
• online Surface Water Data Viewer  
• other mapping software

**Date/Time of Monitoring Trip**

Start Date: 8-16-08 Start Time: 12:00  
End Date: 8-16-08 End Time: 2:30  
Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 5

**Results (for this monitoring trip only)**

**Species seen, habitat information, comments**

\_\_\_\_\_  
\_\_\_\_\_  
*Robert Graham*  
*Dave Nelson*

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 879 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspingleaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Eloдея canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowhead (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 105 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 3

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

# AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 003 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 3

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

## Species

- |  |  |
|--|--|
| <input type="checkbox"/> Arrowhead ( <i>sagittaria graminea</i> )                      | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )               | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                |
| <input type="checkbox"/> Clasp-leaf pondweed ( <i>Potamogeton richardsonii</i> )       | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                 | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                    | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )              |
| <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> ) | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )       | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )      |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )        | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )          |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )          | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                     | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )           | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )          | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )       |
| <input type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> )        | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )             | <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                  | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |
| <input type="checkbox"/> Nitellas, stonewarts ( <i>Nitella</i> spp)                    |  |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )      |  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )               |  |

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 99 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella spp*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 45 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 3

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitelia* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

# AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 44 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

## Species

- |  |  |
|--|--|
| <input type="checkbox"/> Arrowhead ( <i>sagittaria graminea</i> )                          | <input type="checkbox"/> Pickerelweed ( <i>Pontederia cordata</i> )                  |
| <input type="checkbox"/> Brown-fruited rush ( <i>Juncus pelocarpus</i> )                   | <input type="checkbox"/> Sago pondweed ( <i>Stuckenia pectinata</i> )                |
| <input type="checkbox"/> Claspig-leaf pondweed ( <i>Potamogeton richardsonii</i> )         | <input type="checkbox"/> Slender naiad ( <i>Najas flexilis</i> )                     |
| <input type="checkbox"/> Common waterweed ( <i>Elodea canadensis</i> )                     | <input type="checkbox"/> Small duckweed ( <i>Lemna minor</i> )                       |
| <input type="checkbox"/> Coontail ( <i>Ceratophyllum demersum</i> )                        | <input type="checkbox"/> Small pondweed ( <i>Potamogeton pusillus</i> )              |
| <input checked="" type="checkbox"/> Curly-leaf pondweed ( <i>Potamogeton crispus</i> )     | <input type="checkbox"/> Spatterdock ( <i>Nuphar variegata</i> )                     |
| <input type="checkbox"/> Flat-stem pondweed ( <i>Potamogeton zosteriformis</i> )           | <input type="checkbox"/> Stiff-water crowfoot ( <i>Ranunculus flabellaris</i> )      |
| <input type="checkbox"/> Floating leaf bur-reed ( <i>Sparganium fluctuans</i> )            | <input type="checkbox"/> Variable pondweed ( <i>Potamogeton gramineus</i> )          |
| <input type="checkbox"/> Floating-leaf pondweed ( <i>Potamogeton natans</i> )              | <input type="checkbox"/> Water bulrush ( <i>Schoenoplectus subterminalis</i> )       |
| <input type="checkbox"/> Forked Duckweed ( <i>Lemna trisulca</i> )                         | <input type="checkbox"/> Water marigold ( <i>Megalodonta beckii</i> )                |
| <input type="checkbox"/> Grass-leaved arrowed ( <i>Sagittaria graminea</i> )               | <input type="checkbox"/> Water star-grass ( <i>Heteranthera dubia</i> )              |
| <input type="checkbox"/> Illinois pondweed ( <i>Potamogeton illinoensis</i> )              | <input type="checkbox"/> White-stem pondweed ( <i>Potamogeton praelongis</i> )       |
| <input checked="" type="checkbox"/> Large-leaf pondweed ( <i>Potamogeton amplifolius</i> ) | <input type="checkbox"/> White-water lily ( <i>Nymphaea odorata</i> )                |
| <input type="checkbox"/> Leafy pondweed ( <i>Potamogeton foliosus</i> )                    | <input type="checkbox"/> Whorled water-milfoil ( <i>Myriophyllum verticillatum</i> ) |
| <input type="checkbox"/> Long-leaf pondweed ( <i>Potamogeton nodosus</i> )                 | <input type="checkbox"/> Wild celery ( <i>Vallisneria americana</i> )                |
| <input type="checkbox"/> Muskgrasses ( <i>Chara</i> )                                      | <input type="checkbox"/> Yellow pond lily ( <i>Nuphar advena</i> )                   |
| <input type="checkbox"/> Nitellas, stonewarts ( <i>Nitella</i> spp)                        |  |
| <input type="checkbox"/> Northern water milfoil ( <i>Myriophyllum sibiricum</i> )          |  |
| <input type="checkbox"/> Northern wild rice ( <i>Zizania palustris</i> )                   |  |



# AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 43 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 3

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

## Species

Arrowhead (*sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Clasp-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowhead (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)

# Aquatic Plant Survey

Page 1

## Data Collector/Observer Information

First and Last Names of Observers:

ROBERT GRAHAM - DAVE NELSON

Contact Information for one observer

Telephone Number: 651-739-3432

Email: \_\_\_\_\_

## Monitoring Location

Waterbody Name: ROBEY LAKE

County: POPKIN

Method of obtaining Latitude and Longitudes:

- GPS 875
- online Surface Water Data Viewer
- other mapping software

## Date/Time of Monitoring Trip

Start Date: 9-12-08 Start Time: 1:15

End Date: 9-12-08 End Time: 3:15

Total People Hours Spent (for example if 2 people spent 2 hours each = 4 hours): 5

## Results (for this monitoring trip only)

Species seen, habitat information, comments

Robert Graham  
Dave Nelson

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 879 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella spp*)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 105 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 023 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasping-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowhead (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 9.9 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 3

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**  
Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

**Species**

- Arrowhead (*Sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 45 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Claspng-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coontail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibericum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)

**AQUATIC PLANT SURVEY (PER SAMPLE)**

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 444 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Comments/Additional Observations:**

**Species**

- Arrowhead (*sagittaria graminea*)
- Brown-fruited rush (*Juncus pelocarpus*)
- Clasp-leaf pondweed (*Potamogeton richardsonii*)
- Common waterweed (*Elodea canadensis*)
- Coon-tail (*Ceratophyllum demersum*)
- Curly-leaf pondweed (*Potamogeton crispus*)
- Flat-stem pondweed (*Potamogeton zosteriformis*)
- Floating leaf bur-reed (*Sparganium fluctuans*)
- Floating-leaf pondweed (*Potamogeton natans*)
- Forked Duckweed (*Lemna trisulca*)
- Grass-leaved arrowed (*Sagittaria graminea*)
- Illinois pondweed (*Potamogeton illinoensis*)
- Large-leaf pondweed (*Potamogeton amplifolius*)
- Leafy pondweed (*Potamogeton foliosus*)
- Long-leaf pondweed (*Potamogeton nodosus*)
- Muskgrasses (*Chara*)
- Nitellas, stonewarts (*Nitella* spp)
- Northern water milfoil (*Myriophyllum sibiricum*)
- Northern wild rice (*Zizania palustris*)
- Pickerelweed (*Pontederia cordata*)
- Sago pondweed (*Stuckenia pectinata*)
- Slender naiad (*Najas flexilis*)
- Small duckweed (*Lemna minor*)
- Small pondweed (*Potamogeton pusillus*)
- Spatterdock (*Nuphar variegata*)
- Stiff-water crowfoot (*Ranunculus flabellaris*)
- Variable pondweed (*Potamogeton gramineus*)
- Water bulrush (*Schoenoplectus subterminalis*)
- Water marigold (*Megalodonta beckii*)
- Water star-grass (*Heteranthera dubia*)
- White-stem pondweed (*Potamogeton praelongis*)
- White-water lily (*Nymphaea odorata*)
- Whorled water-milfoil (*Myriophyllum verticillatum*)
- Wild celery (*Vallisneria americana*)
- Yellow pond lily (*Nuphar advena*)



# AQUATIC PLANT SURVEY (PER SAMPLE)

Sample Location:

Sample #: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

GPS 43 WAYPOINT \_\_\_\_\_

Sample Location Description: \_\_\_\_\_ Depth (feet): 4

Dominant Sediment Type (circle one): Muck Sand Rock

Sampled Holding (circle one): Rake Pole Rake Rope

**Eurasian Water Milfoil (*Myriophyllum spicatum*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

**Curly-Leaf Pondweed Record (*Potamogeton crispus*)**

Rake Fullness (circle one): 1-few 2-moderate 3-high

Comments/Additional Observations:

## Species

Arrowhead (*sagittaria graminea*)

Brown-fruited rush (*Juncus pelocarpus*)

Claspng-leaf pondweed (*Potamogeton richardsonii*)

Common waterweed (*Elodea canadensis*)

Coontail (*Ceratophyllum demersum*)

Curly-leaf pondweed (*Potamogeton crispus*)

Flat-stem pondweed (*Potamogeton zosteriformis*)

Floating leaf bur-reed (*Sparganium fluctuans*)

Floating-leaf pondweed (*Potamogeton natans*)

Forked Duckweed (*Lemna trisulca*)

Grass-leaved arrowed (*Sagittaria graminea*)

Illinois pondweed (*Potamogeton illinoensis*)

Large-leaf pondweed (*Potamogeton amplifolius*)

Leafy pondweed (*Potamogeton foliosus*)

Long-leaf pondweed (*Potamogeton nodosus*)

Muskgrasses (*Chara*)

Nitellas, stonewarts (*Nitella* spp)

Northern water milfoil (*Myriophyllum sibiricum*)

Northern wild rice (*Zizania palustris*)

Pickerelweed (*Pontederia cordata*)

Sago pondweed (*Stuckenia pectinata*)

Slender naiad (*Najas flexilis*)

Small duckweed (*Lemna minor*)

Small pondweed (*Potamogeton pusillus*)

Spatterdock (*Nuphar variegata*)

Stiff-water crowfoot (*Ranunculus flabellaris*)

Variable pondweed (*Potamogeton gramineus*)

Water bulrush (*Schoenoplectus subterminalis*)

Water marigold (*Megalodonta beckii*)

Water star-grass (*Heteranthera dubia*)

White-stem pondweed (*Potamogeton praelongis*)

White-water lily (*Nymphaea odorata*)

Whorled water-milfoil (*Myriophyllum verticillatum*)

Wild celery (*Vallisneria americana*)

Yellow pond lily (*Nuphar advena*)