Lakes and Ponds Field Sheet

Organization _____
PALIS # _____
Lake Name: _____
Town: _____
Site ID #: _____
Site Name: _____

General weather conditions last 3 days at: _____

date:	Rain:	Temp:	Notes:
	(cm)	(°C)	

Sampling Crew (names of volunteers): _____

Date _____ **Time** (24 hr.) _____
Photos taken? yes no
Photo Negative Numbers: _____

Lake level staff gage reading and source/type (if available)

Current Weather
Clear
Partly sunny
Partly cloudy
Mostly cloudy
Overcast
Foggy
Drizzly
Light rain
Heavy rain
Sleet
Snow

Air Temperature (°C)
<0
0 - 5
5 - 10
10 - 15
15 - 20
20 - 25
25 - 30
>30

Wind Conditions
Calm (0-2 km/h)
Slight breeze (2-8 km/h)
Moderate winds (8-25 km/h)
Gusty (15-40 km/h)
Strong winds (> 40km/h)

Lake Water Level
Low (estimate minus ___ cm)
Normal
High (estimate plus ___ cm)

Odor (surface)
None
Sulfide (rotten egg)
Fishy
Septic
Chlorine
Petroleum
Musty (basement)
Rotten vegetation
Other

Water Clarity (check all that apply)
Clear
Slightly turbid
Highly turbid
Suspended solids/murky

Water Color (color at ½secchi depth as it appears on white secchi parts)
Clear/Blue
Grayish
Brownish
Blackish
Light yellow/tan
Dark tan
Light green tint
Green
Blue-Green
Reddish
Other

Wind Direction (blowing from the …)
Calm
North
Northeast
Northwest
South
Southeast
Southwest
East
West

Wave Height
Calm (0 cm)
0-5 cm
5- 10cm
5-10 in
10-40 cm
40-60 cm
>60 cm

Presence of Algae (0-1 meter)
None
Sparse
Moderate
Dense (uniformly distributed)
Dens e (clumps/patches)
Floating scum (continuous surface bloom)

Algae Description (describe shapes: spherical, filamentous, flocculent…and note genus/species if known)**:**

Density of Aquatic Plants (check all that apply)
None
Unobs ervable (note why in description)
Sparse (individual plants, scattered)
Moderate (individual plants close together, scattered groups)
Dense (continuous coverage)

Emergent
Floating
Submerged

Aquatic Plant Description (list plants in general vicinity of site; note genus and species if known)**:**

Whole Lake Information (fill out for the lake as a whole, check multiple boxes if applicable and note locations of observations)

Scum(s) yes no (include oil sheens, pollen/dust blankets and similar **floating** layers that reduce aesthetics)
Description of Scum(s)

Observed Use(s) (include indications of use even if use not observed) none swimming boating water intake fishing other
Description of Observed Use(s) (include numbers) **or Indicators of Use(s)**

Objectionable Deposits none floating sunken garbage/trash a quatic weeds flocculent mass (rust colored or other) other
Description of Objectionable Deposits (type, extent and area affected…)

Shoreline Erosion yes no (describe any shoreline erosion observed, note location: look for existing and potential slope failures, landslides.)
Description of Erosion

Wildlife Sightings none fish mammals birds reptiles (snakes, turtles) waterfowl amphibians (frogs, salamanders) other
Description of Wildlife Sightings (include numbers) **or Indicators of Use(s)**

Potential Pollution Sources none waste outfall pipes garbage/trash dumping land clearing green lawns shoreline residences other
Description of Potential Pollution Sources

SAMPLE DATA

Bottle Sample(s) collected? Yes No **Notes:** _____

Time (24 hr.) _____

Secchi depth (m) _____

Secchi viewfinder used? Yes No

Secchi on bottom? Yes No

Secchi in weeds? Yes No

Secchi taken in sunlight? Yes No

Station Maximum Depth (m) _____

Maximum Depth Method Secchi disk line Lead line Sonar Survey rod Other **Cooler ID:**

SAMPLE ID #	Sample Depth (m)	Matrix			Analyte/Bottle Group									Sample Type						QA/QC			Total # of bottles
														Grab			Composite						
	Discrete depth/ Integrated depth	Effluent	Sediment (Z)	Water	Chemistry (C)	Nutrients* (N/P)	Solids (S)	Bacteria (B)	Chlorophyll a (I)	Algae (A)	Zoops (G)	Color (R)	Other**	Manual Grab	Vandorn/Kemmerer	Petite Ponar	Depth Integrated	Grab Composite	Other**	Field Blank	Duplicate***	Other**	

* **preservatives used** (for water matrix nutrients) (check one) 1:1 H_2SO_4 1:1 HCl

** describe in notes

*** **for duplicate samples:** use different ID#s for each sample, check 'Duplicate' column for each and leave blank lines before and after duplicate sets

INSTRUMENT DATA

Meter ID #: _____ **Notes:** _____

Thermometer ID#: _____

Surveyor #: _____

Duplicate readings taken? Yes No

Duplicate Meter ID#: _____

Time	Temp. (°C)	DO (mg/l)	Depth (meters)	Scond (µ S/cm)	pH	% Sat	Turb (ntu)	TDS (mg/l)	Redox (mV)

Cooler Temperature (post sampling at Lab): _____