

**Massachusetts Department of Environmental Protection/Division of Watershed Management**

Project Lead (initial) \_\_\_\_\_

**Lake and Pond Survey Field Sheet (2020)**

Station Sheet \_\_\_\_ of \_\_\_\_

General Information									
Project:			Survey Crew Lead:				Group:		
Lake (PALIS):			Survey Crew Assist:				Order:		
Site Name:			Station Description						
Date:									
Time (24 hr):			Latitude:			Longitude:			
Description of Observed Conditions (Site Specific)									
Weather Conditions <input type="checkbox"/> Clear <input type="checkbox"/> Mostly sun <input type="checkbox"/> Mostly cloud <input type="checkbox"/> Overcast <input type="checkbox"/> Fog <input type="checkbox"/> Drizzle <input type="checkbox"/> Rain <input type="checkbox"/> Sleet <input type="checkbox"/> Snow									
Air Temperature <input type="checkbox"/> < 20 F <input type="checkbox"/> 21 – 30 F <input type="checkbox"/> 31 – 40 F <input type="checkbox"/> 41 – 50 F <input type="checkbox"/> 51 – 60 F <input type="checkbox"/> 61 – 70 F <input type="checkbox"/> 71 – 80 F <input type="checkbox"/> 81 – 90 F <input type="checkbox"/> 91 – 100 F									
Wind Conditions <input type="checkbox"/> Calm (0 – 1 mph) <input type="checkbox"/> Slight (1 – 5 mph) <input type="checkbox"/> Moderates (5 – 15 mph) <input type="checkbox"/> Gusty (15 – 25 mph) <input type="checkbox"/> Strong (> 25 mph)									
Wind Direction <input type="checkbox"/> Calm <input type="checkbox"/> North <input type="checkbox"/> Northeast <input type="checkbox"/> East <input type="checkbox"/> Southeast <input type="checkbox"/> South <input type="checkbox"/> Southwest <input type="checkbox"/> West <input type="checkbox"/> Northwest									
Wave Height <input type="checkbox"/> Calm (0 in) <input type="checkbox"/> 0 – 2 in <input type="checkbox"/> 2 – 5 in <input type="checkbox"/> 5 – 10 in <input type="checkbox"/> 10 – 15 in <input type="checkbox"/> 15 – 20 in <input type="checkbox"/> > 20 in									
Lake Level <input type="checkbox"/> Low <input type="checkbox"/> Normal <input type="checkbox"/> High <i>Estimate Level from Normal (+/-ft):</i> _____ <i>Source/Type:</i> _____									
Water Odor <input type="checkbox"/> None <input type="checkbox"/> Sulfide <input type="checkbox"/> Fishy <input type="checkbox"/> Sewage <input type="checkbox"/> Effluent <input type="checkbox"/> Chlorine <input type="checkbox"/> Petroleum <input type="checkbox"/> Musty <input type="checkbox"/> Rotten Veg. <input type="checkbox"/> Other									
Water Turbidity <input type="checkbox"/> None <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Moderately Turbid <input type="checkbox"/> Highly Turbid <input type="checkbox"/> Unobservable									
Water Color <input type="checkbox"/> None <input type="checkbox"/> Grey <input type="checkbox"/> Brown <input type="checkbox"/> Black <input type="checkbox"/> Red <input type="checkbox"/> Yellow <input type="checkbox"/> Dark Tan <input type="checkbox"/> Rusty <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Other <input type="checkbox"/> Unobservable									
Objectionable Deposits (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Trash <input type="checkbox"/> Flocculent mass <input type="checkbox"/> Other <input type="checkbox"/> Unobservable Description (details, extent and severity): _____									
Floating Scum (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Oily sheens <input type="checkbox"/> Pollen blankets <input type="checkbox"/> Algal mat <input type="checkbox"/> Foam <input type="checkbox"/> Other <input type="checkbox"/> Unobservable Description (details, extent and severity): _____									
Aesthetics Impaired? <input type="checkbox"/> YES <input type="checkbox"/> NO <i>i.e., based on water odor, clarity, unnatural color, growths, scum and/or deposits, is the site impaired?</i>									
Beneficial Uses (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Swimming <input type="checkbox"/> Boating <input type="checkbox"/> Water Intake <input type="checkbox"/> Fishing <input type="checkbox"/> Other Description (details, extent): _____									
Pollution Sources (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Outfall Pipes <input type="checkbox"/> Road runoff <input type="checkbox"/> Water fowl <input type="checkbox"/> Land Clearing <input type="checkbox"/> Lawns <input type="checkbox"/> Septic <input type="checkbox"/> Agriculture <input type="checkbox"/> Other Description (details, extent and severity): _____									
Secchi Depth (m)	Dup		Time (24 hr)		Details <input type="checkbox"/> Viewfinder Used <input type="checkbox"/> On Bottom <input type="checkbox"/> In Weeds <input type="checkbox"/> In Sunlight				
Aquatic Plant and Algae (N) None: 0% (S) Sparse: 1-25% (M) Moderate: 25-50% (D) Dense: 50-75% (VD) Very Dense: 75-100% (U) Unobservable									
Index Site Specific (Approximately 5 meters either side of boat.)					Whole Lake (If whole lake is not observed, <u>leave BLANK</u> )				
Overall Aquatic Plants <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> D <input type="checkbox"/> VD <input type="checkbox"/> U					Overall Aquatic Plants <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> D <input type="checkbox"/> VD <input type="checkbox"/> U				
Floating Aquatic Plants <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> D <input type="checkbox"/> VD <input type="checkbox"/> U					Duckweed Specific <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> D <input type="checkbox"/> VD <input type="checkbox"/> U				
Emergent Aquatic Plants <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> D <input type="checkbox"/> VD <input type="checkbox"/> U					Duckweed Band Width (m) <input type="checkbox"/> < 1 <input type="checkbox"/> 1 - 5 <input type="checkbox"/> 5 - 10 <input type="checkbox"/> 10 – 15 <input type="checkbox"/> >15				
Submerged Aquatic Plants <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> D <input type="checkbox"/> VD <input type="checkbox"/> U					Duckweed Cover (%): _____ Band Width (m): _____				
Duckweed Specific <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> D <input type="checkbox"/> VD <input type="checkbox"/> U					Dominant Aquatic Plants (In order of dominance; Include any NON-NATIVE)				
Free-floating Algae <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> D <input type="checkbox"/> VD <input type="checkbox"/> U					( E / S / F )				
Periphyton <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> D <input type="checkbox"/> VD <input type="checkbox"/> U					( E / S / F )				
Non-native Aquatic Plant Species (Note approximate density)					( E / S / F )				
( S / M / D / VD )					( E / S / F )				
( S / M / D / VD )					( E / S / F )				

For office use only

Field Sheet Login #:

Unique ID #:

Revision Date 6/18/20

Sample Data									
Station Max Depth (m):				Max Depth Method: <input type="checkbox"/> Secchi Disk <input type="checkbox"/> Lead Line <input type="checkbox"/> Sonar <input type="checkbox"/> Survey Rod <input type="checkbox"/> Other					
Samples Collected? <input type="checkbox"/> Yes <input type="checkbox"/> No				From? <input type="checkbox"/> Boat <input type="checkbox"/> Dock <input type="checkbox"/> Bridge <input type="checkbox"/> Other				Max Depth Site? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Field filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No				Analyte(s):				Van Dorn Serial#	

Sample Specific Notes

OWMID #	Sample Time (24 hr)	Sample Depth (m)		Matrix		Analyte/Bottle Group										Sample Type (1 per sample)				QA/QC					
																Grab		Composite							
“X” all applicable boxes Provide sample times for all samples Provide separate OWMID#s for each matrix and sample type, and for QA/QC samples. Relative Depth: S=surface M=mid-depth NB=near bottom		Relative Depth (S, M, NB)	Measured /Integrated depth	SEDIMENT	WATER	Alkalinity/Hardness (C)	Organic Carbon, Dissolved (OC)	Color/turbidity/hardness (R)	Nutrients (N) <i>H<sub>2</sub>SO<sub>4</sub></i> : Yes No	Bacteria (B)	Chlorophyll a (l)	Algae ID Count (A)	Algal Toxins (MC)	Other:	Other:	Manual Grab	Van Dorn Bottle	Ambient Field Blank	Depth Integrated / tube	Grab Composite	Other :	Field Blank	Duplicate	Other :	Total # of Bottles

General Notes

Station Sheet \_\_\_\_ of \_\_\_\_

**Project Lead (initial)** \_\_\_\_\_

Station Sheet \_\_\_\_ of \_\_\_\_

[illegible]

### Profile Notes