Ice Trek
Decision-making Sheet

1. Name of lake or pond: ________________________________
2. Distance from school: ________________________________
3. Transportation needed? _______________________________
4. Authority to sample granted by: ________________________
5. Depth of water: ___________________________________
   When no ice is present: ________________________________
6. Present depth of ice: _________________________________
7. Ice hole auger available? ______________________________
8. How far from access road? ____________________________
   Possible collection dates: _____________________________
   ________________________________
   ________________________________
Class decision on sample site ___________________________
Collection dates ________________________________
   ________________________________
   ________________________________

Math Calculations for water collection
To calculate the volume of 1 foot worth of water inside the pipe, use the formula:

\((\pi r^2) h\) where \(\pi = 3.14\), \(r = .5\) inches or 1.27 cm, and \(h = 30.48\) cm

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Change the cubic inches or cubic centimeters (cc) to milliliters using the conversion factor of
1 cc = 1 ml or 1 cubic inch = 16.39 cubic centimeters (cc)

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Use the volume to decide what size container you need for each level you are sampling.

1.