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Pond Filter Array Technical Bulletin 2007-12

GENERAL	NOTES
<p>This technical bulletin describes the fabrication and use of the pond water pick up and filtering system that we recommend.</p> <p>The array described in this bulletin allows the user to easily place and removed the filter without resorting to the use of a diver. Keep in mind that the pipe leading to the filter should always be "soft," being made either from polyethylene or. Even at larger sizes of 2-3", these pipes will bend sufficiently to allow pulling the array out of the water. Pipe bend <u>radius</u> is typically 26 times the pipe <u>diameter</u>.</p> <p>The 5/8" rope is strong enough to pull the array with a very muddy bottom. Gravel bottoms let the array move easier, and consequently, a 1/2 " rope could be used.</p> <p>Before attaching the array/filter to the pipe, make sure the array will lay flat, or the pulling operation could rotate or topple the array over onto its side.</p> <p>FABRICATION</p> <p>A suggested assembly per sketch bellow from schedule 80 PVC and commercially able foot valve/strainer assemblers.</p> <p>INSTALLING THE ARRAY</p> <p>Make sure that the pipe and roper are under the sled, or a pull will topple the sled. Note that the sled is pulled by the elbow from the filter; not by the cable loops. The cable loops only serve to keep the sled pointed forward.</p> <p>When the array is pulled or lowered in place, anchor the end of the rope in the water near the shore for easy retrieval later.</p>	