

PC KEY NOTES

Geopro[®] Learning Tool

January 9, 2004

FLOC LOG[®] Placement – Pump Systems [2a]

PRICE AND COMPANY, INC.



Standard Floc Log

Literally thousands of applications occur each year in which a pump draws turbid water from a construction site pond, basin or foundation excavation ... and, without clarification, discharges the water into a storm sewer, ditch, wetland, lake and other 'convenient' location. In many cases, this practice damages the environment, generates ill-will, invokes legal fees, extracts monetary penalties and/or breaks the law. However, until polymer use was accepted by MDEQ, reasonable cost and performance qualified alternatives to discharging poor-quality water simply did not exist. Now, with polymer acceptance and proper use, discharges of high-quality pumped water are both simple and economical.

process required for all successful clarification applications]. More succinctly, the following paragraphs describe how to place *Floc Logs*, a partially hydrated form of polymer blends, into a small diameter [4" or less] pump discharge system.

In all cases, *Floc Logs* should be introduced down-gradient from the pump. The *Floc Log* introduction 'system' consists of nothing more than a standard 6" diameter, Schedule 40 PVC wye with related fittings to adapt to various pipe or hose inlet and outlet systems [Figure 1]. Although not depicted, quick connect

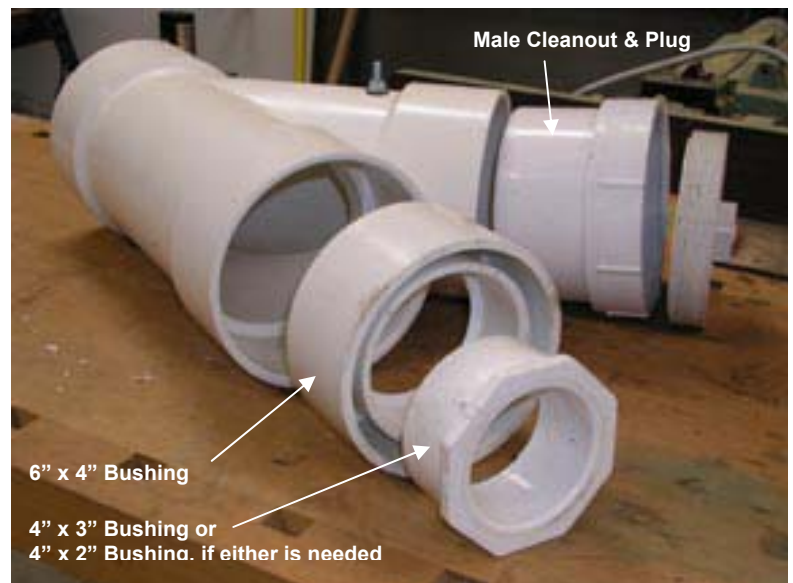


Figure 1 – Wye Introduction System

Contact your **Price and Company, Inc.** *Regional Representative* for information pertaining to a) Selecting an appropriate polymer [Step 1], b) Mixing polymer with turbid water [Step 3] and c) Settling or filtering the resulting floc from the moving water regime [Step 4]. The remainder of this **KeyNote** addresses one method to introduce polymer into a pump discharge system [Step 2 in the four-step

couplings may also be inserted at both the up-gradient and down-gradient ends.

Using a wye enables replacement of *Floc Logs* without line 'breaking' and re-coupling. Furthermore, the wye provides an ideal location for eye-bolt placement to which the *Floc Log* ropes are secured [Figure 2]. Figure 3 details the eye-bolt connection.

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Figure 2: Wye with 5/16" eye-bolt installed

Figure 3: Eye-bolt details

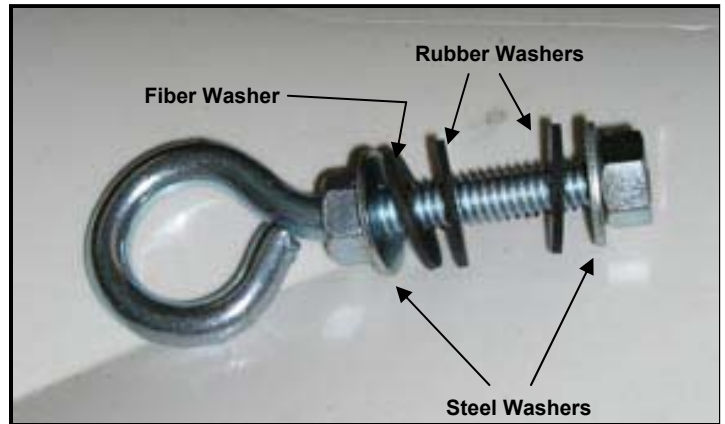


Figure 4: Floc Log 'Housing'

Figure 5: Housing to Down-Gradient PVC Pipe



Contact your **Price and Company, Inc. Regional Representative** for more information on how to set up an efficient and effective small-pump water clarification system.

Floc Log is a trademark of Applied Polymer Systems, Inc.

A sufficient length of 6" PVC is needed down-gradient from the wye to 'house' one or more *Floc Logs* [Figure 4]. Typically, two *Floc Logs* will fit into a 5' pipe length. Because greater efficiency is developed when polymer introduction is spaced out along a system, we anticipate that, at most, each wye introduction system will host a maximum of two *Floc Logs*. Given a maximum discharge rate of 450 gpm for a 4" pump, a total system may include up to 4 wyes and eight *Floc Logs*. 2" and 3" pump systems require fewer wyes and *Floc Logs*.



Figure 6: Housing to Down-Gradient Corrugated HPDE Pipe

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