

Clinton Road Passive Treatment System
SRI O&M TAG Project #6 Request #1
OSM PTS ID: PA-36

Requesting Organization: Montour Run Watershed Association (in-kind partner)
Receiving Stream: West Fork of Enlow Run (Montour Run Watershed)
Watershed: West Fork of Enlow Run→Enlow Run→Montour Run→Ohio River
Municipality/County: Clinton Township, Allegheny County
Latitude/ Longitude: 40°29'42"N / 80°16'21"W
Construction Year: 2004

Stream Restoration Incorporated (SRI) was contacted by Mark Fedosick, President, Montour Run Watershed Association (MRWA), by email on 8/4/11 concerning problems at the Clinton Road Passive Treatment System. SRI had also previously discussed some of the issues with Mark. According to Mark, the inlet to Vertical Flow Pond 2 was plugged which was not allowing water to enter the system. The MRWA had previously attempted to clean-out the pipe, but were unsuccessful. The water was, therefore, going over the emergency spillway and by-passing all treatment.

Cliff Denholm and Buck Neely, BioMost Inc., visited the site on September 6, 2011. They were met by Kevin Gurchak of the Allegheny County Airport Authority (property owner) who provided a tour of the system. Mark Fedosick also came to further examine the site. BMI was informed that the intake pipe included a 90° elbow about halfway along the length of the buried pipe. Most likely this was the location of the plug. 'As-Built' drawings were available to provide information about the system's configuration. Using a custom-made tool, the 4" intake pipe was cleaned-out and flow to the Vertical Flow Pond was restored. In addition, sediment and debris were removed from around the inlet end of the pipe.

The project team thanks the Montour Run Watershed Association and the Allegheny County Airport Authority for all of their efforts including support and assistance. Funding for technical assistance and maintenance was provided by the PA DEP's Growing Greener and the Foundation for Pennsylvania Watersheds grant programs and in-kind services by project partners.

Additional Recommendations & Considerations:

- To update the system, BMI recommends either replacing the 4" intake pipe with a larger 8"-12" pipe or with a rock-lined channel to reduce clogging. As an interim measure, a screen or bar-guard could be installed to help protect the pipe. If this approach is used, the screen or bar-guard would need to be inspected and cleaned on a regular basis.



The influent pipe had become plugged and only a small portion of the AMD was flowing into the VFP (*top left*). Most of the untreated AMD was, therefore, bypassing the system. The influent pipe inlet was unplugged using a custom-made cleanout tool (*upper right*) which restored flow (*bottom left*) into the VFP. A recommendation to clean-out the inlet area and install a bar-guard on the inlet of the influent pipe was made which was later completed by the Allegheny County Airport Authority (*bottom right*).