



Lanchester Landfill Sedimentation Pond No. 7

Sedimentation Pond No. 7 is one of eleven existing erosion and sedimentation control ponds (the Ponds) that are maintained and operated by the Chester County Solid Waste Authority (the Authority). The Ponds are an integral part of the Soil Erosion and Sedimentation Control Plan (the Plan) found in the Solid Waste Management Permit (the Permit) issued by the Pennsylvania Department of Environmental Protection (the Department). The Ponds help the Authority achieve the following three objectives:

- i. Management of surface water;
- ii. Minimize erosion;
- iii. Control sedimentation.

The Ponds accomplish these objectives by collecting surface water run-off and run-on, allowing adequate detention time for sedimentation to occur within the Ponds; and controlling the rate of discharge to nearby waterways and local controls.

The Ponds represent only a portion of the control features included in the Plan. Other features found in the Plan include:

- i. Re-vegetation of disturbed areas;
- ii. Drainage channels, diversion berms and culverts to route surface water runoff and run-on;
- iii. Temporary silt fences and sediment traps to reduce both runoff velocity and the sediment load of the runoff.

The surface water management and erosion control systems at the Lanchester Landfill (the Landfill) are designed and maintained in accordance with the regulatory requirements of the Department. The principle spillways are sized to handle the peak runoff from the 25-year, 24-hour storm event without the use of the emergency spillway. The dewatering time for Pond 7 is about 3.5 days. The total storage volume for Pond 7 is about 2 million gallons. The area of Pond 7 is about 1.5 acres.

All of the Ponds remain functional during all phases of the Landfill's construction and operation. The Ponds will also remain functional through-out closure and post closure care periods. The Ponds are used to collect surface water from those portions of the Landfill controlled by a protective cover layer. All surface water that comes into direct contact with solid waste is collected and controlled separately using leachate collection piping and treatment processes.

Discharge from the Ponds are also monitored and regulated under the requirements of the National Pollutant Discharge Elimination System (NPDES). Discharges from the Ponds are monitored semi-annually for variety of parameters identified in the Landfills NPDES permit