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SWM Pond Modification Report

National Conservation Training Center Shepherdstown, West Virginia Jefferson County

Prepared For:
West Virginia DEP

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Aerial and Soils Map	Exhibit 1
Existing Conditions Map	Exhibit 2
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PROJECT OVERVIEW

The National Conservation Training Center (NCTC) property was designed to utilize several Storm water management ponds throughout the site. After construction, several sinkholes developed near some of the SWM facilities. The existence of multiple sinkholes prompted the WVDEP to pursue a review of the pond design and installation of a pond liner to meet the WVDEP requirements set forth in the West Virginia Stormwater Management Guidance document. The West Virginia Department of Environmental Protection asked that the pond design be reviewed to see what modifications to the existing “Central Pond” would be required for the facility to accommodate a new parking lot and ensure that the pond functions properly. This report will summarize the stormwater infrastructure modifications needed to adequately control Storm water runoff for the NCTC site draining to the Central Pond. These modifications have been designed to meet the requirements set forth by the State of West Virginia and Jefferson County.

SITE CHARACTERISTICS

The NCTC is located North of Shepherdstown along the Potomac River in Northern Jefferson County. The property can be described as gentle to severe sloping meadow with outcroppings of rocks and groups of trees. The site is located on the Shepherdstown USGS Quad Map.

This site contains the following soils pursuant to the Soil Survey of Jefferson County, West Virginia.

Soil Type	Name	Hydrologic Soil Groups
DgB	Duffield Silt Loam – 2-6% slopes	B
DgC3	Duffield Silt Loam – 6-12%	B
HgC	Hagerstown and Frederick very rocky silt loam – 6-12%	C
HIC3	Hagerstown and Frederick very rocky silty clay loams – 6-12%	C
HID3	Hagerstown and Frederick very rocky silty clay loams – 12-25%	C

*DgC3, HIC3, and HID3 represent severely eroded units of their respective series.

SUMMARY

In order for the Central Stormwater management facility to function properly the pond will need to be excavated to the specifications shown on Exhibit 3 as proposed grading. The Central stormwater management facility should provide a minimum of a 15,000 square foot pond liner that will meet the specifications set forth in the West Virginia Stormwater Management Guidance document and those of the West Virginia Department of Environmental protection.



Appendix A