

Hidden Valley Golf Course Stream Restoration Project Summary

City of Delaware Finalizes Design Plans for Section 319(h) Clean Water Grant Stream Restoration Project at Hidden Valley Golf Course



Excessive sediment deposits with existing pond along UNT to Delaware Run

The City of Delaware received a Section 319(h) Nonpoint Source Award from the United States Environmental Protection Agency through an Ohio Environmental Protection Agency assistance agreement for the Hidden Valley Golf Course Stream Restoration on October 25, 2022.

The Hidden Valley Golf Course Stream Restoration project aims to restore 1,349 linear feet of stream flow and create 2.0 acres of riparian buffer and 0.5 acres of restored wetlands to address eroding streambanks and reduce sediment and nutrient levels in Delaware Run.

The design phase is complete, and construction will begin in January 2025. A tour will be planned upon project completion.

HVGC Stream Restoration Project Summary

- Aligns with Ohio's Nonpoint Source Management Update and the Hypoxia Task Force goals.
- Will stabilize and restore 1,349 linear feet of stream and create 2.0 acres of riparian buffer and restore 0.5 acres of wetlands.

Environmental Benefits and Reduction Goals

- Improves aquatic performance and addresses water quality impairment issues for **Delaware Run**.
- Contributes to reducing sediment, nitrogen and phosphorus loadings to the Olentangy River and Ohio River Basin.
- Estimated annual reductions: 402 lbs. of nitrogen, 141 lbs. of phosphorus, and 190.1 tons of sediment post restoration.



Erosional hot spot along backside of the driving range



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Delaware Run HUC-12 Watershed Overview

- Located in north-central Delaware County, Ohio, covering 43.89 square miles.
- Predominantly agricultural land (~68%) with urban/residential development (~16%) in the south.
- Contains 6.6 miles of the scenic Olentangy River.
- Major tributaries: Norris Run, Horseshoe Run, Sugar Run, and Delaware Run. **Delaware Run is inside the MS4 for the City of Delaware.**
- Historical sampling indicated these tributaries did not support Warm Water Habitats due to habitat alterations from urban development and runoff, **particularly in Delaware Run.**
- As a result, the City applied for and was awarded the Ohio EPA's Gulf Hypoxia Assistance grant in fall of 2020 to develop a strategic plan to address nonpoint source (NPS) pollution in the **Delaware Run-Olentangy River HUC 12** watershed.



Project Timeline Updates

- The non-point source implementation plan (NPS-IS) was developed and approved by the Ohio EPA in June 2021 laying the foundation to obtain funding through Section 319(h) for Nonpoint Source Grants from the USEPA via the OEPA assistance agreement.
- The City applied for and received the CWA 319 Grant funding in October 2022.
- Design for the project was funded by the City of Delaware.
- Construction is projected to begin in January 2025.
- 319 Grant closure date is October 31, 2025.

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Current conditions prior to the stream and wetland restoration. The tributary exhibits low sinuosity.