

Gunners Lake Erosion Channel Repair Project - Fact Sheet



Figure 1: Gunners Lake Location Map

Gunners Lake

Original Construction:

1985

Owner:

North Lake Village Federation (NLVF)

Location:

Germantown, MD

Drainage Area:

1,233 acres

Surface Area of Lake:

22 acres

Dam Height:

28 feet

Watershed:

Seneca Creek

Project Goals:

Extend existing storm drain system, backfill eroded channel, grade and install riprap channel protection along downstream toe of dam

Costs:

TBD

Background

Gunners Lake is a regional stormwater management facility designed to capture and treat stormwater runoff. The Lake was built in 1985 as part of Gunners Lake Village by building a dam across Gunners Branch in the Great Seneca Watershed. This dam also serves as a roadway embankment for Wisteria Drive and is designated as a significant hazard dam by the Maryland Department of Environment (MDE) Dam Safety Division (DSD). The lake is owned by North Lake Village Federation and maintained by Montgomery County Department of Environmental protection (MCDEP). The dam is designated by the MCDEP as Asset #27300 and by MDE as Dam #305.

Project Selection

In recent years, the area along the downstream toe of the dam has experienced significant

erosion. This condition was noted on the County's annual dam inspection reports from FY13 through FY20. The erosion is associated with a privately owned 24" storm drain outfall located on Silvergate Way just south of its intersection with Wisteria Drive.

The headcut and the eroded channel have been migrating upstream towards the storm drain outfall and continue to expand eastward and northward, threatening the stability of the dam's embankment. A loss of surface material along the downstream slope of the dam could cause a failure of the dam, increasing risk to infrastructure and property located downstream. MCDEP has initiated this repair project to address the erosion and protect the structural integrity of the dam.



Figure 2: Gunners Lake Erosion Channel Repair Project Area

Proposed Scope

This project will include the extension of the existing 24" closed storm drain system, restoration of the eroded channel, protection of the toe of dam from additional erosion, and removal of woody vegetation along the downstream toe of dam. The proposed work will be completed in accordance with current MDE DSD standards. To meet these standards, a 24" pressure rated concrete watertight pipe will be installed with a concrete cradle, structural backfill will be placed, and stable surface flow conveyance will be provided along the toe of dam.

Temporary impacts to adjacent pedestrian and vehicular traffic are proposed during construction. Construction access and staging will primarily be within public right-of-way along Wisteria Drive. A secondary access will be provided off of Silvergate

Way. As a result, the southern shoulder and sidewalk of Wisteria Drive will be closed throughout the duration of construction. Maintenance of Traffic for vehicular traffic will consist of a shoulder closure, no detour is anticipated. A temporary detour for pedestrian foot traffic along the south side of Wisteria Drive will be provided. Pedestrians will be directed to utilize the sidewalk along the north side of Wisteria Drive. Existing circulation paths will be restored upon project completion.

Proposed Schedule

Design plans for this project are expected to be completed in **June, 2023** and construction completed in **September, 2024**, depending on weather conditions. The County will make every effort to minimize the impacts of the construction activities on the residents of the community.

For more information, contact:



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