

# EXHIBIT 1



## **Operations and Maintenance Plan – SSL-099 (Flood Recovery)**

The preparation and implementation of operation and maintenance plans is critical to the ongoing performance of practices installed with State funds such as those disbursed in response to damages resulting from the flood of 2012. Minor maintenance needs can quickly become major, costly maintenance problems if left untreated. Ensuring that the project is not intentionally destroyed or altered (unless by forces out of the landowner's control) is the responsibility of the landowner for the useful lifetime of the project (10 years). If there is a malfunction or failure of the practice or project, the landowner should immediately notify the organization providing State funding for the practice or project (South St. Louis Soil & Water Conservation District).

**Landowner(s):** City of Duluth

**Location:** Glen Avon Park, 2401 Woodland Ave., Duluth MN 55803

**Project Description:** Tischer Creek stream restoration

**Installation Date:** 2017

The inherent nature of this project, as with most other stream restoration projects utilizing natural channel design methodology, is that they are self-sustaining. Little to no maintenance is required of the landowners for projects such as these. Left alone, the river will stabilize over time and vegetation will take root and prevent bank erosion. However, landowners should note the following:

- Trees and shrubs are planted along the creek as part of this project. Tree and shrub protection should be removed after it is no longer needed (approximately five years after planting).
- The City of Duluth should not mow any part of the planted riparian area. Native grass and wildflower seed has been planted and needs time to establish.
- Erosion blanket should not be disturbed. It is holding seed in place and preventing erosion. The erosion blanket will biodegrade over time.
- This project has a 3-year maintenance plan to prevent exotic species from invading the project area. This plan will be carried out by the contractor and includes site trimming, weeding, spot spraying and other methods to control weeds.
- A site inspection by SWCD staff may be required after unusually large storm events, if property ownership changes, or if any major project failures take place. The City of Duluth should contact the SWCD office to schedule an inspection after such occurrences. Otherwise, SWCD staff will conduct routine inspections one, three, and nine years after project construction.

Landowners' signature indicates their agreement to abide by this maintenance plan to the best of their abilities.

CITY OF DULUTH

By: \_\_\_\_\_  
Mayor

Date: \_\_\_\_\_

Attest: \_\_\_\_\_  
City Clerk

For questions, please contact:

Tim Beaster, Conservation Specialist

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Thank you for your continued cooperation in restoring and protecting Tischer Creek.