

Information for File # 2013-04759-DAS

Applicant Dr. Robert Schroeder
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Section SW ¼, Sec. 3
Township 111N
Range 13W

Information Complete On: December 13, 2013

Posting Expires On February 8, 2014

Authorization Type LOP-05-MN

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified above.

Project Includes: Construction of a culvert crossing of Gilbert Creek, a state designated trout stream.

PROJECT DESCRIPTION AND PURPOSE: The applicant proposes to discharge fill material into Gilbert Creek in conjunction with the construction of a culvert crossing for access to north side of property for future development. The applicant proposes to use a 20 foot long box culvert with a span of 100 inches and a height of 78 inches

NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS: Fill material would be discharged into 3,000 square feet of Gilbert Creek for the bedding and backfill of the proposed culvert.

ALTERNATIVES CONSIDERED: The no build alternative was considered, but this alternative will result in limited access to the north side of the property for future development. The construction of a bridge was also considered. The culvert crossing was chosen based upon availability, suitability, and cost.

COMPENSATORY MITIGATION: No compensatory mitigation is proposed.

Drawings See attached.

Project site located west of Lake City approximately 4.5 miles.



DR. ROBERT SCHROEDER - GILBERT CREEK
Site Locator Map

**Wenck**
Engineers - Scientists
Business Professionals
www.wenck.com
1800 Pioneer Creek Center
Maple Plain, MN 55359-0429
1-800-472-2232

DEC 2013
Figure 1

Technical Memo
 Gilbert Creek Culvert Crossing
 December 4, 2013

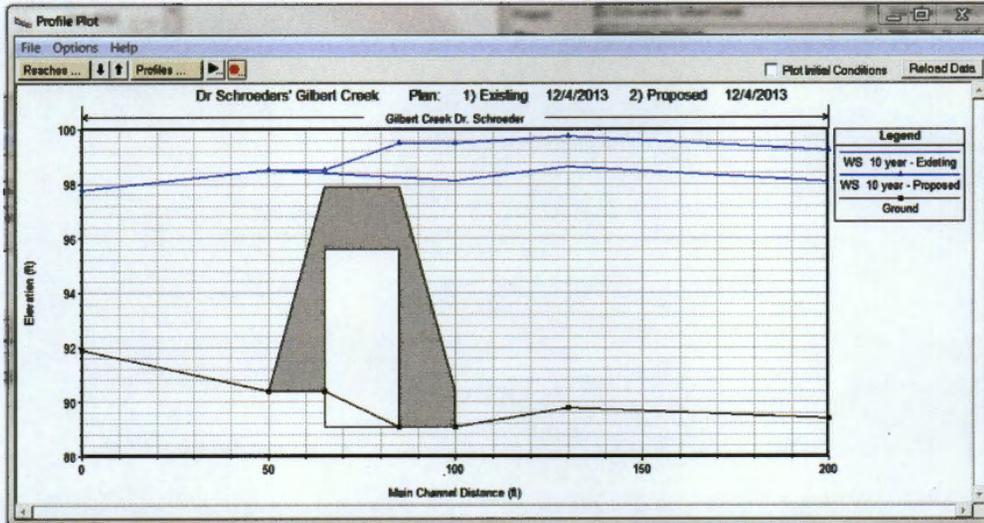


Figure 6. 10-year flow profile comparison of Existing and proposed conditions.

Station	Existing Conditions				Proposed Conditions 100"x78" Culvert			
	10-year	50-year	100-year	500-year	10-year	50-year	100-year	500-year
200	98.08	100.75	101.30	102.20	99.22	100.75	101.30	102.21
130	98.61	100.63	101.20	102.10	99.76	100.63	101.21	102.11
100	98.10	100.65	101.20	102.10	99.48	100.64	101.21	102.11
50	98.50	100.71	101.24	102.13	98.50	100.71	101.24	102.13
0	97.77	99.83	100.41	101.39	97.77	99.83	100.41	101.39

Table 3. Water surface elevations.

Station	Change in Elevation			
	10-year	50-year	100-year	500-year
200	1.14	0.00	0.00	0.01
130	1.15	0.00	0.01	0.01
100	1.38	-0.01	0.01	0.01
50	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00

Table 4. Difference in water surface elevations.