Appendix 6-B
Summary Hydraulic Analysis Form

Revised August 2022

SUMMARY OF HYDRAULIC ANALYSIS							
EXISTING				PROPOSED			
FLOOD DATA	DISCHARGE (CFS)	WATER SURFACE ELEV. AT U/S FACE OF STRUCTURE (FT)	VELOCITY AT D/S FACE (FT/S)	WATER SURFACE ELEV. AT U/S FACE OF STRUCTURE (FT)	VELOCITY AT D/S FACE (FT/S)	WATERWAY AREA AT D/S FACE (SQ.FT)	CHANGE IN WSEL FROM U/S FACE OF PROPOSED STRUCTURE (FT)
10-YEAR							
50-YEAR							
100-YEAR							
500-YEAR							
PROPOSED BRIDGE AREA BELOW LOW CHORD IS **xxx** SQUARE FEET							

SUMMARY OF SCOUR ANALYSIS						
FLOOD DATA		ABUT. A ELEVATION (FT.)	ABUT. B ELEVATION (FT.)	PIER 1 ELEVATION (FT.)	PIER 2 ELEVATION (FT.)	PIER 3 ELEVATION (FT.)
100-YEAR	DESIGN					
500-YEAR	CHECK					
	OVERTOP					
ITEM 113 RATING -						

NOTES:

1. The drainage area contribution to this crossing is xx square miles.
2. The existing bridge area below the low chord is xxx sft.
3. Existing overtopping elevation is XXX.XX ft.
4. Proposed overtopping elevation is XXX.XX ft.
5. **Do not** use broken concrete for riprap.
6. The water surface and/or energy grade elevations shown on the above hydraulic table are to be used for comparison purposes only and are not to be used for establishing a regulatory floodplain. The elevations may be used provided they are verified with the Water Resources Division, Michigan Department of Environment, Great Lakes, and Energy.
7. The Item 113 rating is based on properly installing the countermeasure and filter as shown on plans and per specifications. Any deviation must be reviewed and approved by the Hydraulic Unit <<USE ONLY FOR COUNTERMEASURE INSTALLATIONS ON EXISTING STRUCTURES>>