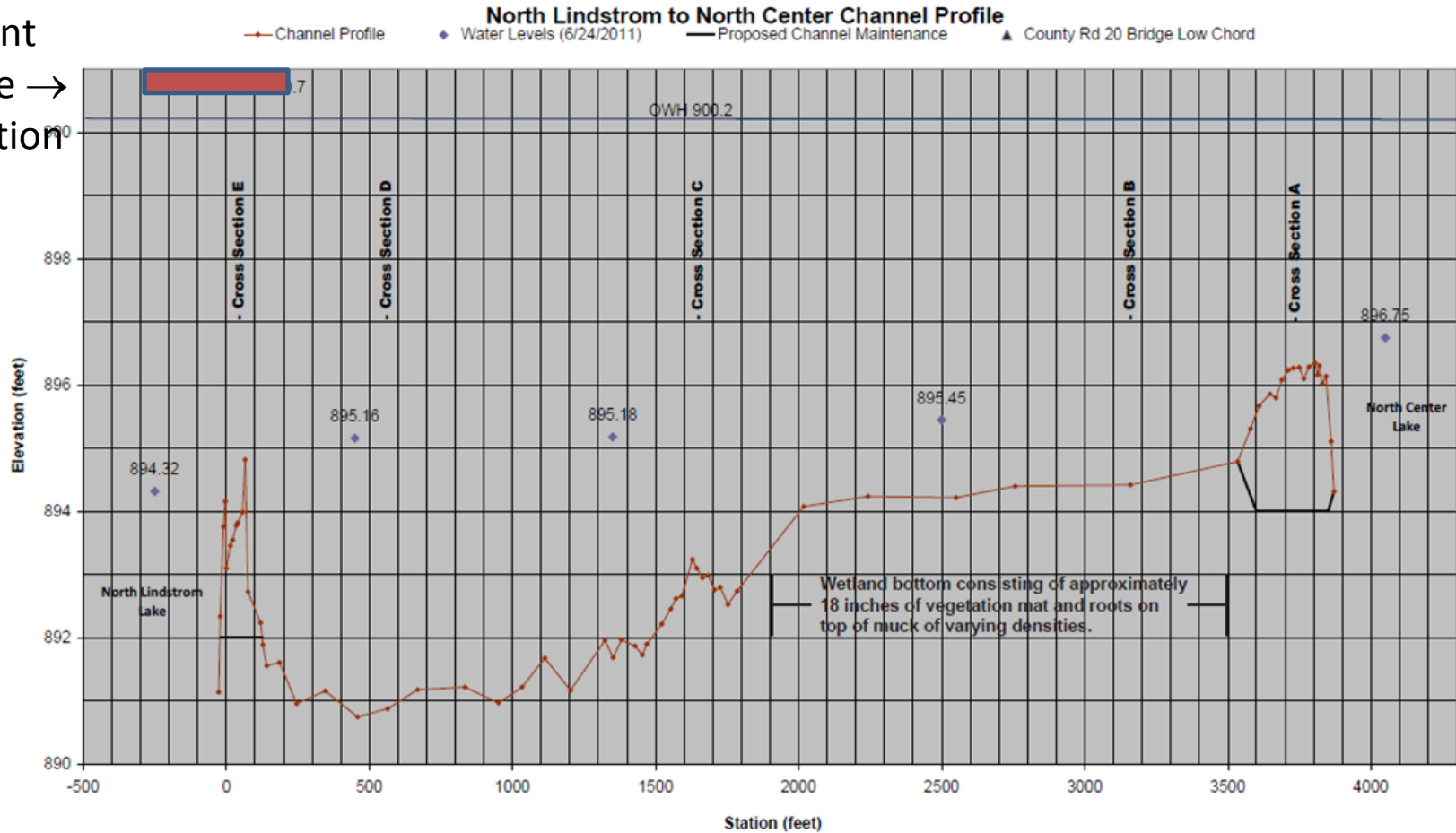


Existing Conditions

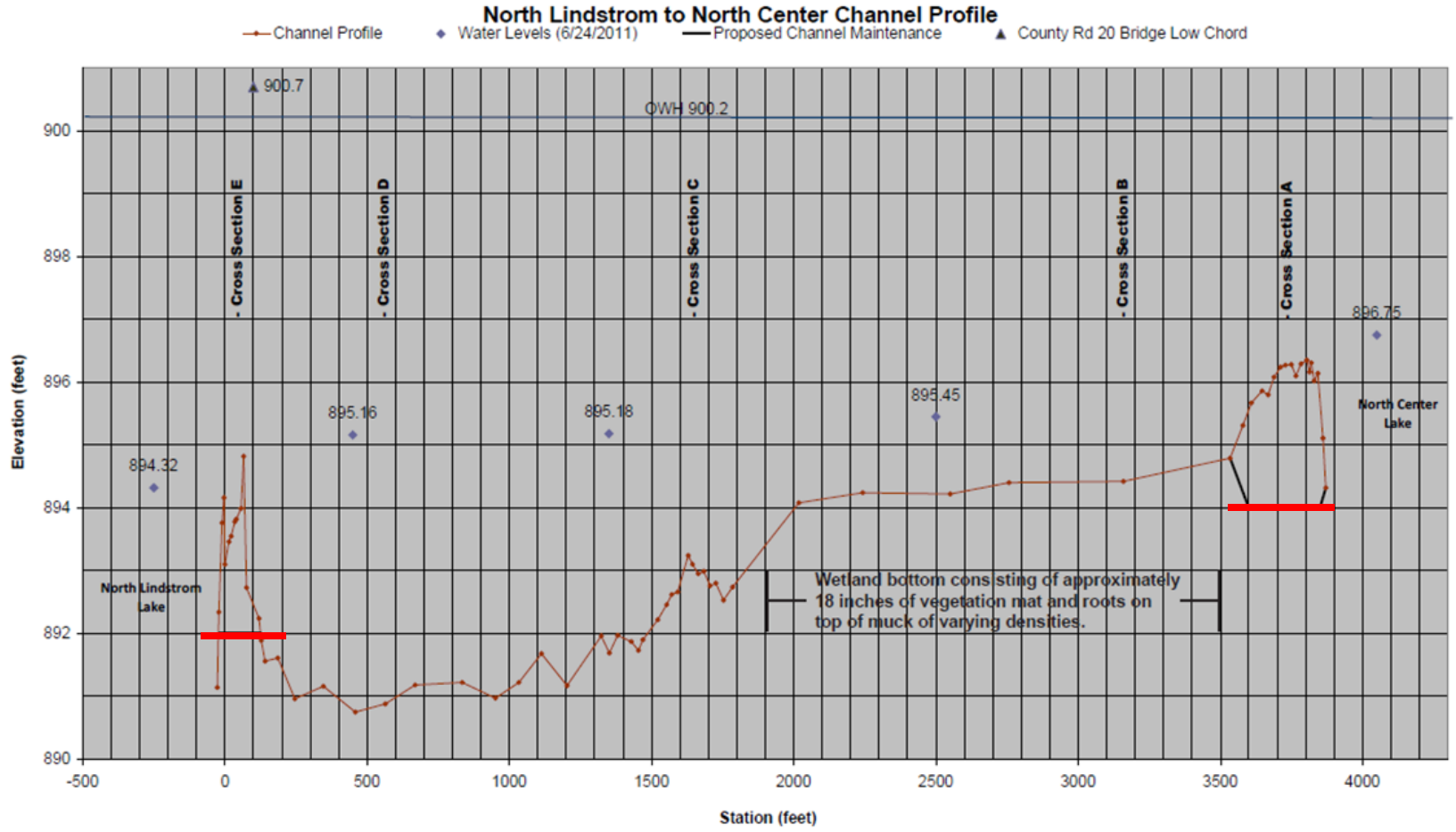
No change to existing channel
or current bridge height

Current
Bridge →
Elevation



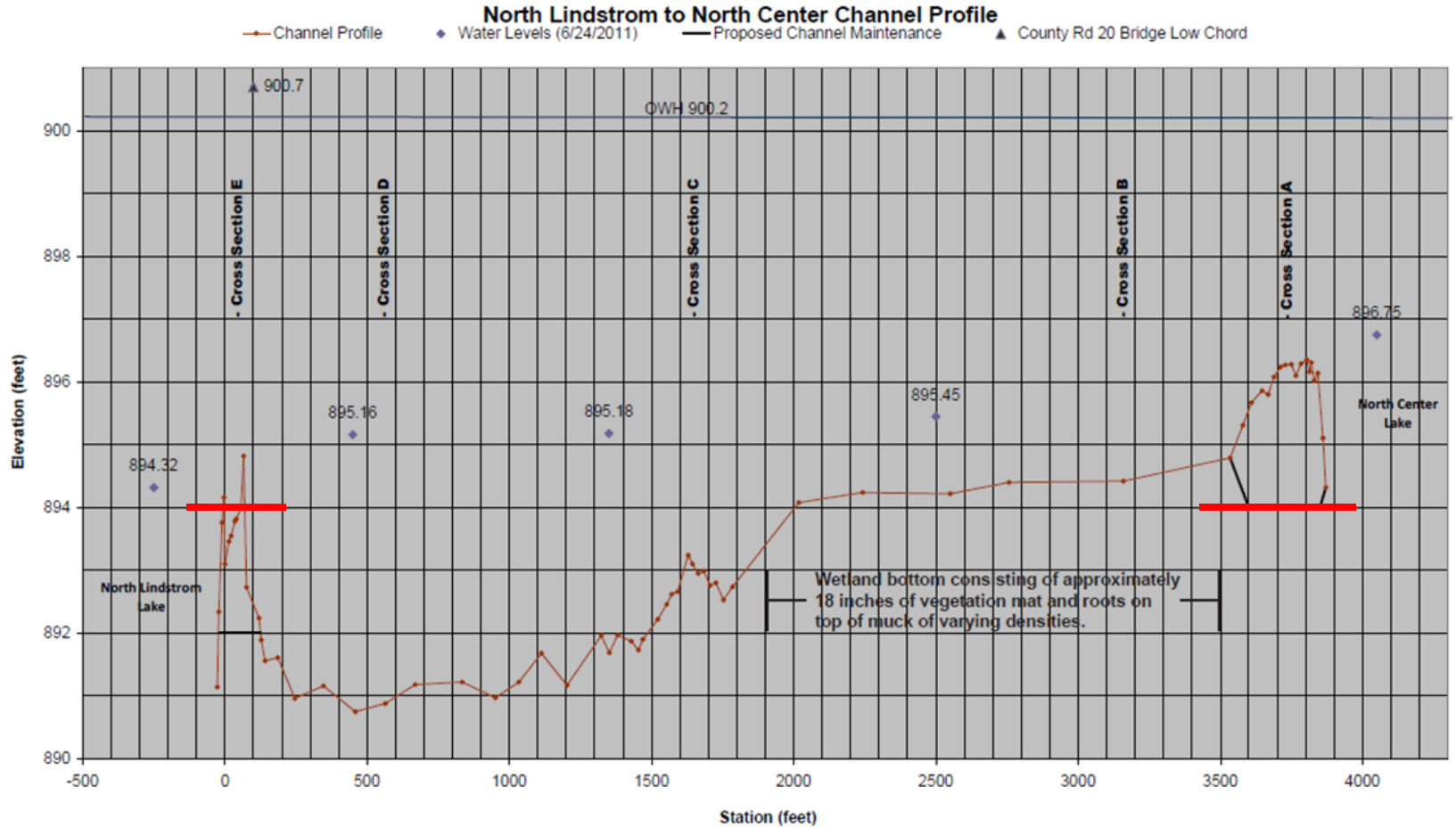
Concept Design 1

Lower inlet and outlet elevations



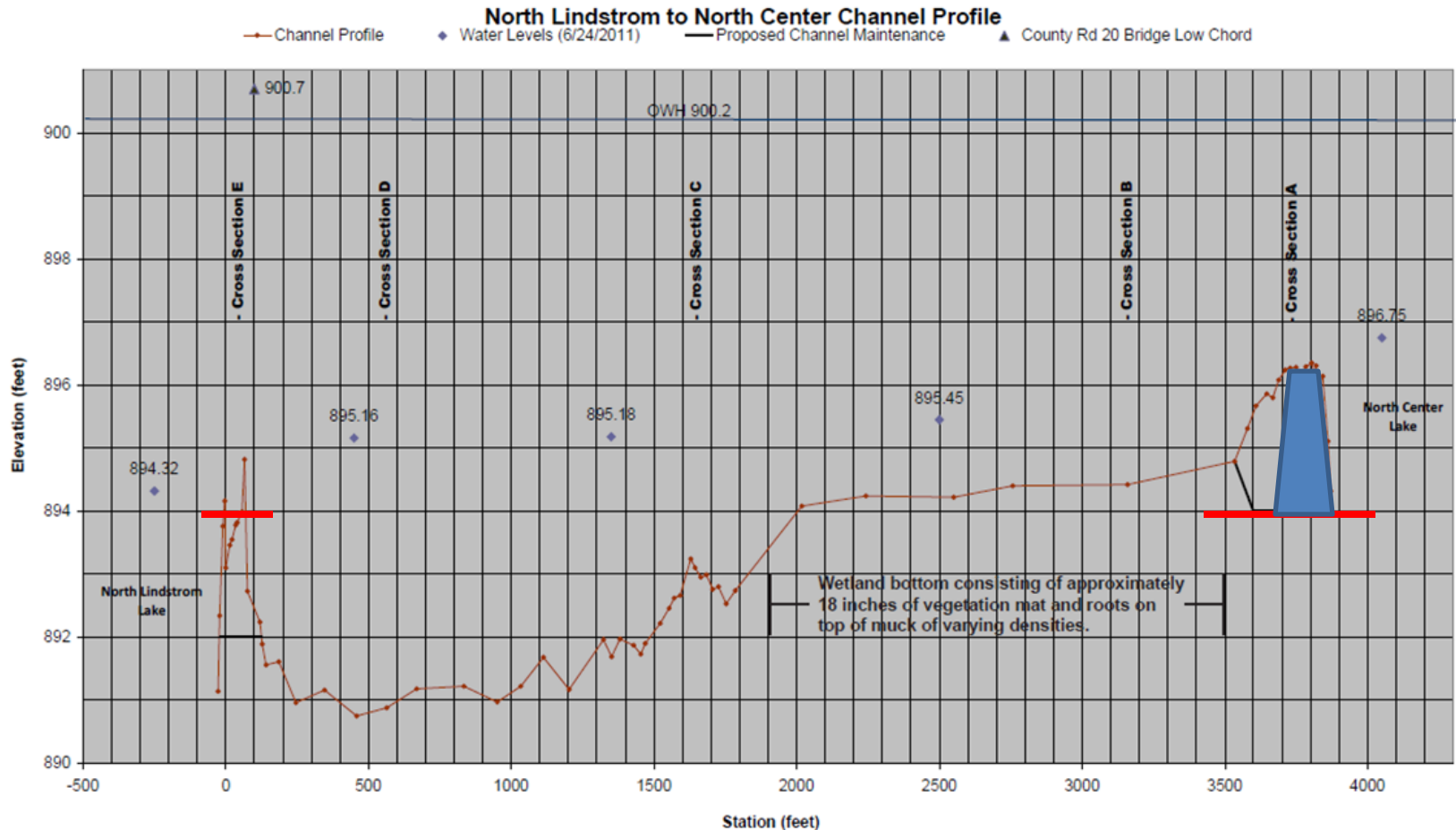
Concept Design 2

Lower inlet elevation, maintain deep marsh



Concept Design 3

Lower inlet elevation, maintain deep marsh, add removable Weir



Concept Design 4

No change to channel, raise bridge

10 feet



6 ½ feet



3 feet



Current

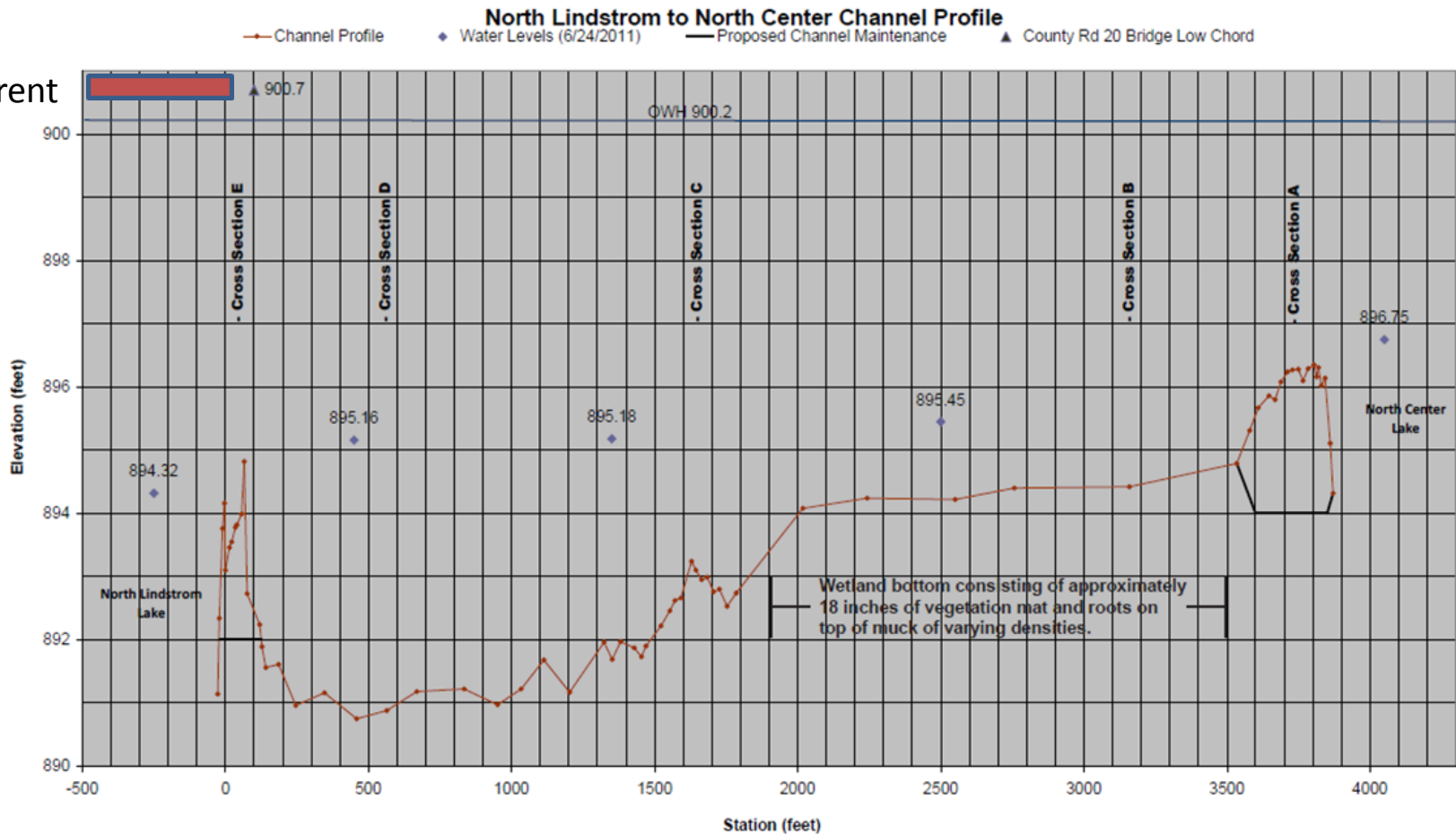


Table 1. Comparison of Existing Conditions and Project Concepts.

Scenario	Navigability (% of time navigable)	Wetland Impacts due to excavation* (square feet)	Wetland impacts due to changes in hydrology	North Lindstrom Water Quality Impacts	North Center Lake Level Impacts	Bridge Design Options
Existing	0%	NA	NA	NA	NA	1
Concept #1	88%	13,235	No loss of wetland. Deep marsh upstream of Highway 20 will revert to a shallow marsh under low water conditions	Increases TP concentration from 21 to 22 ppb under high water conditions and from 33 to 38 ppb under low water conditions.	High water years: 0-3 inches lower. Low water years: lake levels trend ~1' lower.	2,3,4,4a
Concept #2	88%	13,235	No loss of wetland or change in type.	Increases TP concentration from 21 to 22 ppb under high water conditions and from 33 to 38 ppb under low water conditions.	High water years: 0-3 inches lower. Low water years: lake levels trend ~1' lower.	2,3,4,4a
Concept #3	60%	13,235	No loss of wetland or change in type.	Increases TP concentration from 21 to 22 ppb under high water conditions and does not impact water quality under low conditions	High water years: 0-3 inches lower. Low water years: Negligible reduction.	2,3,4,4a
Concept #4	** 2%, 37%, 42%	NA	NA	NA	NA	2,3,4,4a

*Analysis of impacts will need to be revised to reflect final channel design, construction methods and timing of construction for a final determination of impacts.

**See discussion in 3rd paragraph of navigation section.