

Bridge Scour Report

Structure No.: _____ Date: _____

County: _____ Section: _____ Township: _____ Range: _____

300 Series Scour Critical Items

	Yes	No		Yes	No
344 Abutment Walls undermined	<input type="checkbox"/>	<input type="checkbox"/>	353 Potential Debris Upstream	<input type="checkbox"/>	<input type="checkbox"/>
344a Approach settles/washes out	<input type="checkbox"/>	<input type="checkbox"/>	354 Bents/Piers in Channel	<input type="checkbox"/>	<input type="checkbox"/>
346 Is Stream Bed degraded	<input type="checkbox"/>	<input type="checkbox"/>	355 Bridge Alignment with Flow (9-0)		
347 Contracted Stream/Abuts inside HB	<input type="checkbox"/>	<input type="checkbox"/>	356 Debris blocking Channel at Bridge	<input type="checkbox"/>	<input type="checkbox"/>
348 Scour at: A (abut), B (bent/pier), C (other), N (no)		-	357 Drop from Upstream Deck to Ground: Abut 1 - _____ Flow line - _____ Abut 2 - _____		
349 Is Bank Erosion in Progress	<input type="checkbox"/>	<input type="checkbox"/>	358 Opinion Scour problem	<input type="checkbox"/>	<input type="checkbox"/>
350 Stream shifted from Bridge Center	<input type="checkbox"/>	<input type="checkbox"/>	358a Significant Flood in last Two Years A - Over road, B - Not over road, C - No		-
351 Floodwater reaches Low Structure	<input type="checkbox"/>	<input type="checkbox"/>	358b Scour increased in last two years	<input type="checkbox"/>	<input type="checkbox"/>
351a Low Road Elev. below Low Str.	<input type="checkbox"/>	<input type="checkbox"/>	358c Scour Plan of Action Effective Date: _____		
352 Flood overtops Road/Bridge Relief	<input type="checkbox"/>	<input type="checkbox"/>			

113 Scour Critical Rating

<input type="checkbox"/> 9 Foundations Safely Above Floodwater	<input type="checkbox"/> 5 Low Risk	<input type="checkbox"/> 2 Unstable, Extensive Scour
<input type="checkbox"/> 8 Stable, Foundations Resist Scour	<input type="checkbox"/> 4 Action Required	<input type="checkbox"/> 1 Failure Imminent, Closed
<input type="checkbox"/> 7 Scour Problem Mitigated	<input type="checkbox"/> 3 Unstable Foundation	<input type="checkbox"/> 0 Failed

Hydrology

Stream: _____	Drainage Area: _____ mi ²	Stream Slope: _____ ft/mi
Q ₂ : _____ cfs	Q ₁₀ : _____ cfs	Q ₂₅ : _____ cfs
Q ₅₀ : _____ cfs	Q ₁₀₀ : _____ cfs	Q ₅₀₀ : _____ cfs
Elev. _____ ft	Elev. _____ ft	Elev. _____ ft

Bridge Information

Abut. ₁ Grade: _____ ft	Abut. ₂ Grade: _____ ft	Low Structure Elev.: _____ ft
Q ₁₀₀ Base Flood: _____ cfs	HW elev. (DS side): _____ ft	Bridge WWA: _____ ft ²
Q ₁₀₀ Bridge Base Flood: _____ cfs	Overtopping Flood: _____ cfs	Overtopping Freq.: _____ yr
Flowline Elev.: _____ ft	High Bank Elev.: _____ ft	Low Road Elev.: _____ ft
Channel Bottom Width: _____ ft	Berm Elev.: _____ ft	Critical Berm Elev.: _____ ft

Scour Information

Q ₁₀₀ General Scour: _____ ft	Q ₁₀₀ Local Scour: _____ ft	Q ₅₀₀ Scour Elev.: _____ ft
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Comments

Written By: _____	QC By: _____	QA By: _____
Date: _____	Date: _____	Date: _____