GRM: "RegionA", "RegionB",

PGRM: Contract

PGRM: CWCSNEW

PGRM: Pic

PGRM: Abutment

175/1 187 3h

59h5h'sh 151Lh'36

Route 10 fre SK Stream Moccasin	CK	MRM	Da	tel 7/19/1	2 Init	tials Rent		
Bridge Structure No. 67122333 Loc								
Bridge Structure No. 67122333 Location 16 th Are SE & Moccasin Ck GPS coordinates: N46 271 [6,91] taken from: USL abutment × centerline of \(\hat{1}\) MRM end								
		ordinates: W						
Drainage area = 67.21 sq. mi.								
The average bottom of the main channel was 13.	2 ft belov	v top of guardr	ail at a poin	t 25	ft from let	ft abutment.		
Method used to determine flood flows:Freq.							7	12
								23
MISCELLANEOUS CONSIDERATIONS								107
Flows	Q104 = Q10 728			Qsh = Q251 470			2	87
Estimated flow passing through bridge	728			140 H 1232			-5	363
Estimated road overflow & overtopping	0			1238			10	128
Consideration	Yes	No	Possibly	Yes	No	Possibly	25	1470
Chance of overtopping		X				X		2240
Chance of Pressure flow							50	
Armored appearance to channel					-5-		100 /	3230
Lateral instability of channel					1		500	6470
Dinament abutumente?	No			14	21			
Riprap at abutments? Yes		Marginal Don't know	mirar pl	el contr	action			
Evidence of past Scour? Yes	No	Don't know	, ,					
Debris Potential?High	Med	Low						
Does scour countermeasure(s) appear to have been designed?								
Riprap Y	1	o Dor	ı't know	NIA				
				NA				
	YesNoNA							
OtherY	esN	oDor	i't know	NA				
Ded Marerial	Classification	. D ! M	1' B : 1	G: (D.)				
Bed Material Classification Based on Median Particle Size (D ₅₀)								
Material Silt/Clay Sand Sand	200000000000000000000000000000000000000			Cobbles Boulders_				
Size range, in mm < 0.062 0.062-2.	00	2.00-64		64-250		>250		
Comments, Diagrams & orientation of digital photos								
1)-181 09								
Z)-nain channel								
3) NEW OB								
9-5) Lot abover								
6-7) oght a last ment								
5) -1								
2) main channel 3) right os 9-5), left abriment 6-7), right abriment 5). pie								
Summary of Results							_	
	Q100 Q _{(C}			Q500 GZS				
Bridge flow evaluated	728			1232			1	
Flow depth at left abutment (yaLT), in feet	0			0			1	
Flow depth at right abutment (yaRT), in feet	C			1.9			1	
Contraction scour depth (ycs), in feet	9.1			12.7			1	
Pier scour depth (yps), in feet		4.1			4,2		1	
Left abutment scour depth (yas), in feet	0			0				

0

20

Right abutment scour depth (yas), in feet

1Flow angle of attack