Bo12h'Eh G19bL'Lb

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of a

in - Market &

Route Keiper Rd Stream James Ri	20	MDM	Dat	6/6/1) Init	ials Lat		
Route Neiger 1 4 Stream Samus 171	Y CV	M.///	Date	0/0/1	RI	ilais Par	-	
Bridge Structure No. 34162052 Location nr Milltown on Keiper Rd								
CDS goordinates: M970 747 22.111 taken from: USL abutment X centerline of II MRM end								
	Datum of co	ordinates: W	GS84	NAD27_				
Drainage area = $\frac{17740.35}{\text{sq. mi.}}$				0.0				
The average bottom of the main channel was	3 ft below	top of guardi	rail at a point	119	_ft from le	ft abutment.		
Method used to determine flood flows:Freq.	Anal	drainage area	ratio 🔪 r	egional reg	ression equ	ations.		
MISCELLANEOUS CONSIDERATIONS								26
Flows						77300	-	.620
Estimated flow passing through bridge	45300			36500 76208			2 10 25 50	5050
Estimated now passing unough ortage Estimated road overflow & overtopping	158			192			5	
Consideration	Yes	No	Possibly	Yes	No	Possibly	10	45300
Chance of overtopping	1 03	×	1 000101)		X		45	2200
Chance of Pressure flow		×		X			50	77300
Armored appearance to channel		\sim			X		100	123000
Lateral instability of channel		1			~		500	303090
Cateran instability of channel	199			1. knest				
Riprap at abutments? Yes No Marginal along left abutment Evidence of past Scour? Yes No Don't know contraction								
Evidence of past Scour?YesNoDon't know								
Debris Potential? High								
		fal	w water			. 1 L		
Does scour countermeasure(s) appear to have been	designed?	de	ad free)	0.4	along let	tabl.		
Does scour countermeasure(s) appear to have been designed? Riprap Yes No Don't know NA 105e qualite Yes No Don't know NA Other Ves No Don't know NA								
Spur Dike Yes No Don't know NA								
Other Vi	es > / N	loDo	n't know	NA				
OtherYo	× × · · ·		ii t kilo "					
Bed Material Classification Based on Median Particle Size (D ₅₀)								
Material Silt/Clay Sand_		Gravel		Cobbles		Boulders		
		2.00-64		64-250		>250		
Size range, in mm <0.062 0.062-2.	00	2.00-04		04-230		-250		
Comments, Diagrams & orientation of digital photos								
Dimein channel Brisht CB								
7) A'CC (8) mai a ch-and								
2). piers 3). main channel 4). left abut. 5). left abut. 6). right abut.								
SI- right april	B							
4). left abut.								
5) left abut								
Elicht atil.								
Summary of Results		Constitution of the			17.00		1	
	Q100 G>5		Q500 Q50					
Bridge flow evaluated	45300		76209			1		
Flow depth at left abutment (yaLT), in feet		0	0		2.1			· >
Flow depth at right abutment (yaRT), in feet	5,3 5,1			10.4			1	
Contraction scour depth (ycs), in feet	5,1			8.59.3				

9,2

Pier scour depth (yps), in feet

1Flow angle of attack

Left abutment scour depth (yas), in feet Right abutment scour depth (yas), in feet