Ohio Bridge Inspection Summary Report — CUY-00006-0559 (1800574)

2: District	District 12 — 68056 - ROCKY RIVER (CUY county)	5A: Inventory Route	1 00006
21: Major Maint A/B	01 - State Highway Agency /	7: Facility On	USR 6
225 Routine Main A/B	04 - City or Municipal Highway Agency /	6: Feature Ints	STREAM 1.73 MI E. OF 252
221 Inspection A/B	01 - State Highway Agency /	9: Location	2.02 MI E JCT SR 252
220: Inv. Location	DISTRICT 12	Lat, Lon	41.4815638817282 ,-81.8667019562483

Condition

58: Deck	**N - Not Applicable**
58.01 Wearing Surface	N - Not Applicable
58.02 Joint	N- Not Applicable
59: Superstructure	**N - Not Applicable**
59.01 Paint & PCS	N - Not Applicable
60: Substructure	**N - Not Applicable**
61: Channel	**6**
61.01 Scour	**6 - Satisfactory**
62: Culverts	**4 - Large spalls, heavy scaling, wide cracks**
67.01 GA	**4**

Appraisal

Sufficiency Rating	73.0 SD/FO 1 - SD
36: Rail, Tr, Gd, Term Std	N N N N
72: Approach Alignment	8 - Equal to present desirable criteria
113: Scour Critical	8 - Stable for scour conditions
71: Waterway Adequacy	8 - Bridge Above Approaches

Geometric

48: Max Span Length (ft)	10.0
49: Structure Length (ft)	19.5
52: Deck Width, Out-To-Out (ft)	0.0
424: Deck Area (sf)	819
32: Appr Roadway Width (ft)	42.0
51: Road Width, Curb-Curb (ft)	0.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	0
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	0
336A: Min Vert Clrnce IR Cardinal (ft)	99
336B: Min V Clr IR Non-Cardinal (ft)	0
578: Culvert Length (ft)	100

Load Posting

41: Op/Post/Closed	A - Open
70: Posting	5 - Equal to or above legal loads
70.01: Date	
70.02: Sign Type	
734: Percent Legal (%)	150
704: Analysis Date	07/01/2010
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

Structure Type

43: Bridge Type	3 - Steel 19 - Culvert (includes frame culverts) N- Not Applicable
45: Spans Main / Approach	1 / 1
107: Deck Type	N - Not Applicable
408: Composite Deck	X - Not Applicable
414A Joint Type 1	N - None
414B: Joint Type 2	N - None
108A: Wearing Surface	N - NA N- Not Applicable
422: WS Date	
423: WS Thick (in)	0.0
482: Protective Coating	N - None or Not Applicable
483: PCS Date	
453: Bearing Type 1	N - None
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	N - None (Such as most Culverts)
533: Foundn: Abut Rear	N - None (such as most Culverts)
536: Foundn: Pier 1	N - None (Such as most Culverts)
539: Foundn: Pier 2	N - None (Such as most Culverts)

Age and Service

27: Year Built/ 106 Rehab	1900 / 0000
42A: Service On	5 - Highway-pedestrian
42B: Service Under	5 - Waterway
28A: Lanes on	02
28B: Lanes Under	00
19: Bypass Length	0
29: ADT	10749
109: % Trucks (%)	3

Inspections

		Months	
90: Routine Insp.		12	10/28/2021
92A: FCM Insp.	N		
92B: Dive Insp.	N		
92C: Special Insp.	N		
92D: UBIT Insp.	N		
92E: Drone Insp.			

Inspector Persanyi,Andrea

Inspector: Andrea Persanyi **Structure Number:** 1800574

Inspection Date: 10/28/2021 **Facility Carried:** USR 6

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
240 - Steel Culvert	3 - Mod.	90	ft.	0	0	60	30
	CMP has a shotcrete coating. CS2 - Evidence of infiltration at seams to west cell. Leaching areas with efflorescence & some rust stains in west cell. CS3 - Areas of erosion to shotcrete exposing wire mesh in west cell. CS4 - West cell has rusted thru holes as long as 34" & as wide as 10" located thru out invert (probing indicates depths from 4"-10" below areas of some invert thru holes). This is located under the roadway. Fill is less than 10'. Erosion of invert has caused 5' of 360° rebar exposure.						
241 - Reinforced Concrete Culvert	3 - Mod.	100	ft.	20	60	20	0
	Concrete repairs to walls & ceiling in east cell. Three 12" diameter constructed thru holes in ceiling. North hole is sealed with a severely decomposed wood bulkhead & the south holes are thru to fill. CS2 - Leaching cracks to walls & ceiling of east cell, some wall cracks are full height. Honeycombed areas & stalactites in ceiling. CS3 - A few ceiling spalls & delams to east cell. South of repaired location: deep spalls in walls & ceiling with 1' of 360° rebar exposure & 4 rust severed rebar in east wall.						
835 - Culvert End Treatment	3 - Mod.	2	each	2	0	0	0
	A few cracks, some leaching. Spalls at bottom of west cell inlet.						
845 - Roadway Over Structure	3 - Mod.	1	each	0	1	0	0
	CS2 - Many sealed cracks.						

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ODOT District:	District 12					Date Built:	07/01/1900
Major Maint:	01 - State Highway Agency	Facility Carried:	USR 6	Traffic On:	5 - Highway-pedestrian	Rehab Date:	
Routine Maint:	04 - City or Municipal Highway Agency	Feature Inters:	STREAM 1.73 MI E. OF 252	Traffic Under:	5 - Waterway	Insp. Resp A:	01 - State Highway Agency
FIPS Code:	68056 - ROCKY RIVER (CUY county)	Location:	DISTRICT 12	2.02 MI E JCT SR 252		Insp Resp B:	
Inspector	Persanyi,Andrea	Inspection Date	10/28/2021	Reviewer	Seif,Youssef		

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface

Sealed cracks.

Approach Embankment

Slope has slid over the top of west cell and down between the east & west cells. Minor erosion around east cell.

Inspector Comments - General Appraisal

Superstructure

Substructure

Culvert

Culvert Scour

5' scour hole near outlet of west cell with as much as 24" of toe wall exposed to flowing water (no undermining). 3' scour hole at outlet of east cell with as much as 18" (all) of toe wall exposed to flowing water. Note: east cell outlet toe wall is on rock.

Inspector Comments - Waterway

Waterway Adequacy

Channel Hydraulic Opening

Note: repaired section in east cell reduces opening.

Channel

Channel Protection

Some areas of erosion around outlet headwall.

Scour Critical