



Stream Geomorphic Assessment

Agency of Natural Resources



Vermont.gov
July, 17 2024

Phase 2 - FIT - Legacy Data Report

Waits

SGAT Version: **4.56**

Reach: **T1.09 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	47.4	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	36.1	72.2
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	139.4	238.3
	Erosion Height (ft.):	3.4	3.7
	Revetment Type:	Rip-Rap	Rip-Rap
	Revetment length	66.8	176.6
3.2	<u>Buffer Less Than 25 ft.</u>	2175	1318
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	3
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	8
	Affected length (ft.):	570.0
5.2	Migration Features	
	Flood Chutes:	9
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	1
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	549.8
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T1.05 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	1,331.8	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	154.2	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	141.6	225.8
	Erosion Height (ft.):	2.4	4.2
	Revetment Type:	Rip-Rap	None
	Revetment length	306.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	330	407
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 0
	Field Ditch 1	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	1
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,995.0
	Dredging:	None



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Reach: **T1.05 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	1,331.8 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	154.2 0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	141.6 225.8
	Erosion Height (ft.):	2.4 4.2
	Revetment Type:	Rip-Rap None
	Revetment length	306.0 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	330 407
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 2
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	1
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,995.0
	Dredging:	None



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Reach: T1.04 -0

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	455.3 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	0.0 176.5
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	420.3 537.4
	Erosion Height (ft.):	3.0 3.3
	Revetment Type:	None None
	Revetment length	0.0 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	538 1118
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	47.1
	Average Height (ft.):	10.0
	Mass Failures:	One
	Average Heigh (ft.):	10.0
	Gullies:	One
	Number of Gullies	1
	Total Length of Gullies (ft.):	25.0
	Average Height of Gullies	12.0

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
Overland Flow	2 Road Ditch	0
Field Ditch	0 Tile Drain	0
Other	0 Ub Strm Wtr Pipe	0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	3
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	3
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	166.2
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M03 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	0
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None
		<u>Both</u>		Use:	
	Berm Length (ft.):	0.0	4.7	Stormwater Inputs	
	Path Length (ft.):	0.0		Overland Flow	Road Ditch
	Road Length (ft.):	0.0		Field Ditch	Tile Drain
	Railroad Lenth (ft.):	0.0		Other	Ub Strm Wtr Pipe
	Development Length:	920.4	4.9	Beaver Dams:	0
3.1	<u>Erosion - Bank</u>	<u>Left</u>		Affected length (ft.):	0.0
	Erosion Length (ft.):	0.0	5.2	Migration Features	
	Erosion Height (ft.):	0.0		Flood Chutes:	0
	Revetment Type:	Hard Bank		Neck Cutoffs:	0
	Revetment length	184.4		Channel Avulsions:	0
3.2	<u>Buffer Less Than 25 ft.</u>	1064		Braiding:	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	5.3	Steep Riffles and Head Cuts	
	Mass Failures:			Steep Riffles:	0
	Average Height (ft.):			Head Cuts:	0
	Mass Failures:	None	5.4	Animal Crossings:	No
	Average Heigh (ft.):		5.5	Channel Alterations	
	Gullies:	None		Straightening:	Straightening
	Number of Gullies			Length (ft.):	1,065.0
	Total Length of Gullies (ft.):			Dredging:	None
	Average Height of Gullies				



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Reach: **T1.09 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	444.7	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	76.5	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	234.1	16.1
	Erosion Height (ft.):	4.4	3.0
	Revetment Type:	Other	Multiple
	Revetment length	88.0	128.7
3.2	<u>Buffer Less Than 25 ft.</u>	191	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	6
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 0
	Field Ditch 1	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	5
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	3
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T1.07 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	341.4 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	51.4 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	211.7 37.8
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	87.9 387.4
	Erosion Height (ft.):	2.0 1.2
	Revetment Type:	Rip-Rap Rip-Rap
	Revetment length	296.0 443.9
3.2	<u>Buffer Less Than 25 ft.</u>	482 473
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	58.93
	Average Height (ft.):	38.7
	Mass Failures:	Multiple
	Average Heigh (ft.):	40.0
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	10
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	9
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	3
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	580.9
	Dredging:	None



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SGAT Version: 4.56

Reach: T1.06S1.01 -B

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	Yes
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	1,153.4 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	645.3 0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	107.5 43.5
	Erosion Height (ft.):	2.0 4.0
	Revetment Type:	Rip-Rap Rip-Rap
	Revetment length	264.9 256.7
3.2	<u>Buffer Less Than 25 ft.</u>	555 1156
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 3
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	1
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	1
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,109.2
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M05 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	2,464.4	1,324.4
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	2,550.7	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	110.8	659.2
	Erosion Height (ft.):	2.0	4.3
	Revetment Type:	Rip-Rap	Rip-Rap
	Revetment length	314.0	566.9
3.2	<u>Buffer Less Than 25 ft.</u>	2316	102
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	3
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 5
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	1
	Affected length (ft.):	400.0
5.2	Migration Features	
	Flood Chutes:	6
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	3
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	5
	Head Cuts:	1
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	2,868.9
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T2.02 -C**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	1,383.7 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	964.4 208.1
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	0.0 0.0
	Erosion Height (ft.):	0.0 0.0
	Revetment Type:	Multiple None
	Revetment length	773.7 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	1916 77
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	Small Store and Release
	Use:	Hydro-electric
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	4
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,690.4
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T1.02 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	1,374.9	0.0
	Road Length (ft.):	1,017.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	49.1	38.3
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	564.4	1,505.4
	Erosion Height (ft.):	2.3	3.3
	Revetment Type:	None	Rip-Rap
	Revetment length	0.0	28.0
3.2	<u>Buffer Less Than 25 ft.</u>	0	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:	89.91	85.22
	Average Height (ft.):	25.0	15.0
	Mass Failures:	Multiple	
	Average Heigh (ft.):	20.0	
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 1	Road Ditch 0
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	4
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	3
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,793.4
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M04 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	677.2	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	128.8	201.5
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	96.0	0.0
	Erosion Height (ft.):	5.0	0.0
	Revetment Type:	None	Multiple
	Revetment length	0.0	169.0
3.2	<u>Buffer Less Than 25 ft.</u>	1095	987
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 1
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	830.8
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M07 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	0
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	None
	Berm Length (ft.):	0.0		Use:	
	Path Length (ft.):	0.0	4.7	Stormwater Inputs	
	Road Length (ft.):	2,842.3		Overland Flow	Road Ditch
	Railroad Lenth (ft.):	0.0		Field Ditch	Tile Drain
	Development Length:	184.9		Other	Ub Strm Wtr Pipe
3.1	<u>Erosion - Bank</u>	<u>Left</u>	4.9	Beaver Dams:	0
	Erosion Length (ft.):	412.2		Affected length (ft.):	0.0
	Erosion Height (ft.):	2.9	5.2	Migration Features	
	Revetment Type:	Rip-Rap		Flood Chutes:	5
	Revetment length	448.7		Neck Cutoffs:	0
3.2	<u>Buffer Less Than 25 ft.</u>	2856		Channel Avulsions:	0
	Mass Failures:	None		Braiding:	0
	Average Height (ft.):		5.3	Steep Riffles and Head Cuts	
	Mass Failures:	None		Steep Riffles:	3
	Average Heigh (ft.):			Head Cuts:	0
	Gullies:	None	5.4	Animal Crossings:	Yes
	Number of Gullies		5.5	Channel Alterations	
	Total Length of Gullies (ft.):			Straightening:	Straightening
	Average Height of Gullies			Length (ft.):	5,921.5
				Dredging:	None



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SGAT Version: **4.56**

Reach: **M10 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	144.5	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	74.9	86.9
	Erosion Height (ft.):	2.6	3.0
	Revetment Type:	None	Rip-Rap
	Revetment length	0.0	86.6
3.2	<u>Buffer Less Than 25 ft.</u>	0	125
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 0
	Field Ditch 2	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,424.4
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M10 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>		<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None		4.4	Number of Debris Jams:	0
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>	4.5	Flow Regulation Type:	None
	Berm Length (ft.):	0.0	0.0		Use:	
	Path Length (ft.):	0.0	0.0	4.7	Stormwater Inputs	
	Road Length (ft.):	0.0	0.0	Overland Flow	0	Road Ditch 0
	Railroad Lenth (ft.):	0.0	0.0	Field Ditch	0	Tile Drain 0
	Development Length:	144.5	0.0	Other	1	Ub Strm Wtr Pipe 0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>	4.9	Beaver Dams:	0
	Erosion Length (ft.):	74.9	86.9		Affected length (ft.):	0.0
	Erosion Height (ft.):	2.6	3.0	5.2	Migration Features	
	Revetment Type:	None	Rip-Rap	Flood Chutes:	0	
	Revetment length	0.0	86.6	Neck Cutoffs:	0	
3.2	<u>Buffer Less Than 25 ft.</u>	0	125	Channel Avulsions:	0	
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>	Braiding:	0	
	Mass Failures:			5.3	Steep Riffles and Head Cuts	
	Average Height (ft.):			Steep Riffles:	0	
	Mass Failures:	None		Head Cuts:	0	
	Average Heigh (ft.):			5.4	Animal Crossings:	No
	Gullies:	None		5.5	Channel Alterations	
	Number of Gullies			Straightening:	Straightening	
	Total Length of Gullies (ft.):			Length (ft.):	1,424.4	
	Average Height of Gullies			Dredging:	None	



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SGAT Version: **4.56**

Reach: **T1.06S1.01 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	1,963.6 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	59.2 47.6
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	335.8 141.5
	Erosion Height (ft.):	2.2 2.9
	Revetment Type:	Rip-Rap Rip-Rap
	Revetment length	1,097.3 962.5
3.2	<u>Buffer Less Than 25 ft.</u>	2527 1834
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	3
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 0
	Field Ditch 3	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	10
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	6
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,052.8
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T1.01 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	1,629.2 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	367.0 0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	588.0 619.7
	Erosion Height (ft.):	4.0 3.4
	Revetment Type:	None Rip-Rap
	Revetment length	0.0 75.0
3.2	<u>Buffer Less Than 25 ft.</u>	0 671
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	24.7
	Average Height (ft.):	40.0
	Mass Failures:	One
	Average Heigh (ft.):	40.0
	Gullies:	One
	Number of Gullies	1
	Total Length of Gullies (ft.):	165.0
	Average Height of Gullies	10.0

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	2
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	4
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	2
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	1
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	2,141.2
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M09 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	1,109.1	0.0
	Road Length (ft.):	793.4	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	963.1	49.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	0.0	0.0
	Erosion Height (ft.):	0.0	0.0
	Revetment Type:	Rip-Rap	Rip-Rap
	Revetment length	117.4	109.6
3.2	<u>Buffer Less Than 25 ft.</u>	549	514
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	1
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	With Windrowing
	Length (ft.):	1,198.9
	Dredging:	None



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Waits

SGAT Version: **4.56**

Reach: **T1.09 -C**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	481.1 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	281.1 0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	173.3 0.0
	Erosion Height (ft.):	2.9 0.0
	Revetment Type:	Rip-Rap None
	Revetment length	136.1 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	476 0
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	4
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	6
	Affected length (ft.):	180.0
5.2	Migration Features	
	Flood Chutes:	1
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	2
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T1.08 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	0.0	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	0.0	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	0.0	0.0
	Erosion Height (ft.):	0.0	0.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	0	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	1
	Affected length (ft.):	150.0
5.2	Migration Features	
	Flood Chutes:	2
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	2
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	3
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M06 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	3,493.4 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	1,091.6 85.1
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	0.0 151.3
	Erosion Height (ft.):	0.0 4.3
	Revetment Type:	Rip-Rap Rip-Rap
	Revetment length	3,452.8 426.4
3.2	<u>Buffer Less Than 25 ft.</u>	2080 0
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	0 Road Ditch 5
	Field Ditch	0 Tile Drain 0
	Other	0 Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	2
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	1
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	With Windrowing
	Length (ft.):	3,528.7
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M09 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	533.8	0.0
	Road Length (ft.):	3,066.1	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	339.9	29.5
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	223.6	145.3
	Erosion Height (ft.):	1.0	3.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	403	477
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 1
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	2
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	With Windrowing
	Length (ft.):	3,168.4
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M08 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	6,455.5 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	926.4 0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	235.8 224.1
	Erosion Height (ft.):	4.4 2.3
	Revetment Type:	Rip-Rap Rip-Rap
	Revetment length	457.9 991.3
3.2	<u>Buffer Less Than 25 ft.</u>	0 2280
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	211.82
	Average Height (ft.):	0.0
	Mass Failures:	Multiple
	Average Heigh (ft.):	0.0
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 7
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	7
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	3
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	6,054.6
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T2.01 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	Yes
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	832.2 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	116.2 74.9
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	44.3 0.0
	Erosion Height (ft.):	3.6 0.0
	Revetment Type:	Rip-Rap Rip-Rap
	Revetment length	63.1 189.4
3.2	<u>Buffer Less Than 25 ft.</u>	0 685
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 1
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	2
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	519.6
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T1.06 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	220.7 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	1,324.0 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	0.0 0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	452.3 476.8
	Erosion Height (ft.):	3.1 4.4
	Revetment Type:	Rip-Rap None
	Revetment length	348.3 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	591 277
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	3
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	4
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	2
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,487.5
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M05 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>		
1.2	Alluvial Fan:	None	4.4	Number of Debris Jams:	2		
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>	4.5	Flow Regulation Type:	None	
	Berm Length (ft.):	0.0	0.0		Use:		
	Path Length (ft.):	29.2	0.0	4.7	Stormwater Inputs		
	Road Length (ft.):	8,478.5	1,282.3	Overland Flow	0	Road Ditch	1
	Railroad Lenth (ft.):	0.0	0.0	Field Ditch	0	Tile Drain	0
	Development Length:	2,602.2	503.6	Other	0	Ub Strm Wtr Pipe	0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>	4.9	Beaver Dams:	0	
	Erosion Length (ft.):	1,789.7	660.2		Affected length (ft.):	0.0	
	Erosion Height (ft.):	4.3	2.3	5.2	Migration Features		
	Revetment Type:	Hard Bank	Multiple	Flood Chutes:	4		
	Revetment length	28.7	2,046.1	Neck Cutoffs:	0		
3.2	<u>Buffer Less Than 25 ft.</u>	64	4000	Channel Avulsions:	0		
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>	Braiding:	3		
	Mass Failures:			5.3	Steep Riffles and Head Cuts		
	Average Height (ft.):			Steep Riffles:	6		
	Mass Failures:	None		Head Cuts:	0		
	Average Heigh (ft.):			5.4	Animal Crossings:	No	
	Gullies:	None		5.5	Channel Alterations		
	Number of Gullies			Straightening:	Straightening		
	Total Length of Gullies (ft.):			Length (ft.):	6,150.2		
	Average Height of Gullies			Dredging:	Commercial Mining		



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SGAT Version: **4.56**

Reach: **T2.02 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	649.2 72.1
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	725.4 0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	0.0 0.0
	Erosion Height (ft.):	0.0 0.0
	Revetment Type:	Rip-Rap None
	Revetment length	492.5 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	254 196
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	0
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	709.7
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T1.05 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	195.6 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	3,128.9 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	767.5 69.4
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	2,975.2 1,377.1
	Erosion Height (ft.):	3.6 4.0
	Revetment Type:	Rip-Rap Multiple
	Revetment length	733.1 724.1
3.2	<u>Buffer Less Than 25 ft.</u>	6453 4754
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	56.34
	Average Height (ft.):	9.1
	Mass Failures:	Multiple
	Average Heigh (ft.):	9.0
	Gullies:	One
	Number of Gullies	1
	Total Length of Gullies (ft.):	70.0
	Average Height of Gullies	4.0

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 0
	Field Ditch 1	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	1
	Affected length (ft.):	500.0
5.2	Migration Features	
	Flood Chutes:	9
	Neck Cutoffs:	1
	Channel Avulsions:	4
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	15
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	6,642.1
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T1.05 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	195.6 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	3,128.9 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	767.5 69.4
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	2,975.2 1,377.1
	Erosion Height (ft.):	3.6 4.0
	Revetment Type:	Rip-Rap Multiple
	Revetment length	733.1 724.1
3.2	<u>Buffer Less Than 25 ft.</u>	6453 4754
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	56.34
	Average Height (ft.):	9.1
	Mass Failures:	Multiple
	Average Heigh (ft.):	9.0
	Gullies:	One
	Number of Gullies	1
	Total Length of Gullies (ft.):	70.0
	Average Height of Gullies	4.0

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 1	Road Ditch 0
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	1
	Affected length (ft.):	500.0
5.2	Migration Features	
	Flood Chutes:	9
	Neck Cutoffs:	1
	Channel Avulsions:	4
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	15
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	6,642.1
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T1.05 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	195.6 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	3,128.9 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	767.5 69.4
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	2,975.2 1,377.1
	Erosion Height (ft.):	3.6 4.0
	Revetment Type:	Rip-Rap Multiple
	Revetment length	733.1 724.1
3.2	<u>Buffer Less Than 25 ft.</u>	6453 4754
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	56.34
	Average Height (ft.):	9.1
	Mass Failures:	Multiple
	Average Heigh (ft.):	9.0
	Gullies:	One
	Number of Gullies	1
	Total Length of Gullies (ft.):	70.0
	Average Height of Gullies	4.0

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 6
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	1
	Affected length (ft.):	500.0
5.2	Migration Features	
	Flood Chutes:	9
	Neck Cutoffs:	1
	Channel Avulsions:	4
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	15
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	6,642.1
	Dredging:	None



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SGAT Version: **4.56**

Reach: **T1.05 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	195.6 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	3,128.9 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	767.5 69.4
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	2,975.2 1,377.1
	Erosion Height (ft.):	3.6 4.0
	Revetment Type:	Rip-Rap Multiple
	Revetment length	733.1 724.1
3.2	<u>Buffer Less Than 25 ft.</u>	6453 4754
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	56.34
	Average Height (ft.):	9.1
	Mass Failures:	Multiple
	Average Heigh (ft.):	9.0
	Gullies:	One
	Number of Gullies	1
	Total Length of Gullies (ft.):	70.0
	Average Height of Gullies	4.0

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 0
	Field Ditch 0	Tile Drain 1
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	1
	Affected length (ft.):	500.0
5.2	Migration Features	
	Flood Chutes:	9
	Neck Cutoffs:	1
	Channel Avulsions:	4
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	15
	Head Cuts:	0
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	6,642.1
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M06 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	None
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>
	Berm Length (ft.):	0.0 0.0
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	3,751.2 426.9
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	873.2 0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	0.0 168.6
	Erosion Height (ft.):	0.0 4.0
	Revetment Type:	Rip-Rap None
	Revetment length	1,260.5 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	1973 0
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	
	Mass Failures:	None
	Average Heigh (ft.):	
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	0 Road Ditch 2
	Field Ditch	0 Tile Drain 0
	Other	0 Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	2
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	1
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	With Windrowing
	Length (ft.):	4,197.7
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M04 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	3,372.2	406.9
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	1,851.0	236.8
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	789.0	924.2
	Erosion Height (ft.):	3.3	8.0
	Revetment Type:	Rip-Rap	Rip-Rap
	Revetment length	533.3	68.5
3.2	<u>Buffer Less Than 25 ft.</u>	2380	2004
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow 0	Road Ditch 5
	Field Ditch 0	Tile Drain 0
	Other 0	Ub Strm Wtr Pipe 0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	4
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	1
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	3
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	6,290.3
	Dredging:	None



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SGAT Version: 4.56

Reach: **T2.02 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	486.1	1,121.3
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	1,380.6	70.6
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	77.8	0.0
	Erosion Height (ft.):	4.0	0.0
	Revetment Type:	Rip-Rap	Rip-Rap
	Revetment length	353.4	534.9
3.2	<u>Buffer Less Than 25 ft.</u>	1240	1012
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):		
	Mass Failures:	None	
	Average Heigh (ft.):		
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	Small Withdrawal
	Use:	Other
4.7	Stormwater Inputs	
	Overland Flow	0
	Road Ditch	0
	Field Ditch	0
	Tile Drain	0
	Other	1
	Ub Strm Wtr Pipe	0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	2
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	1,703.8
	Dredging:	None



Stream Geomorphic Assessment

Agency of Natural Resources



Vermont.gov
July, 17 2024

Phase 2 - FIT - Legacy Data Report

Waits

SGAT Version: **4.56**

Reach: **T1.03 -0**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:	None	
1.3	<u>Encroachments - Side</u>	<u>One</u>	<u>Both</u>
	Berm Length (ft.):	0.0	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	1,021.3	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	1,004.3	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	41.6	317.2
	Erosion Height (ft.):	6.0	2.0
	Revetment Type:	None	None
	Revetment length	0.0	0.0
3.2	<u>Buffer Less Than 25 ft.</u>	0	0
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:	222.66	95.78
	Average Height (ft.):	35.8	34.7
	Mass Failures:	Multiple	
	Average Heigh (ft.):	36.3	
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies		

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	1
4.5	Flow Regulation Type:	None
	Use:	
4.7	Stormwater Inputs	
	Overland Flow	Road Ditch
	Field Ditch	Tile Drain
	Other	Ub Strm Wtr Pipe
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	4
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	0
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	2
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	None
	Length (ft.):	0.0
	Dredging:	None