



Stream Geomorphic Assessment

Agency of Natural Resources



Vermont.gov
June, 24 2024

Phase 2 - FIT - Legacy Data Report

Walloomsac

SGAT Version: **4.56**

Reach: **M03 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:		
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.):	3,237.9	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	906.6	1,373.6
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	202.3	120.1
3.2	<u>Buffer Less Than 25 ft.</u>		
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):	0.0	0.0
	Mass Failures:	None	
	Average Heigh (ft.):	0.0	
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies	0.0	

<u>Step</u>	<u>Description</u>	<u>Value</u>
4.4	Number of Debris Jams:	0
4.5	Flow Regulation Type:	
	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:	1
	Head Cuts:	0
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	Straightening
	Length (ft.):	3,182.5
	Dredging:	None



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SGAT Version: 4.56

Reach: **M06T3.04 -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.):	3,606.9	1,487.5
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	6,599.5	0.0
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	138.3	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	267.6	449.5
	Erosion Height (ft.):	6.5	6.8
	Revetment Type:	Rip-Rap	Rip-Rap
	Revetment length	359.7	193.8
3.2	<u>Buffer Less Than 25 ft.</u>		
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):	0.0	0.0
	Mass Failures:	None	
	Average Heigh (ft.):	0.0	
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies	0.0	

<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:	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.):	6,909.8
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M06T3.03 -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.):	231.7 720.5
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	3,603.3 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	186.3 0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	222.4 744.6
	Erosion Height (ft.):	0.0 11.0
	Revetment Type:	Rip-Rap Rip-Rap
	Revetment length	254.5 95.7
3.2	<u>Buffer Less Than 25 ft.</u>	
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	0.0 0.0
	Mass Failures:	None
	Average Heigh (ft.):	0.0
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	0.0

<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:	0
	Neck Cutoffs:	0
	Channel Avulsions:	0
	Braiding:	3
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	2
	Head Cuts:	1
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	With Windrowing
	Length (ft.):	4,242.5
	Dredging:	None



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Reach: **M04 -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:	1,561.1	0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	182.8	0.0
	Erosion Height (ft.):	14.0	0.0
	Revetment Type:	Rip-Rap	None
	Revetment length	30.5	0.0
3.2	<u>Buffer Less Than 25 ft.</u>		
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):	0.0	0.0
	Mass Failures:	None	
	Average Heigh (ft.):	0.0	
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies	0.0	

<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.):	2,358.1
	Dredging:	None



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SGAT Version: **4.56**

Reach: **M05 -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.):	317.7	0.0
	Path Length (ft.):	0.0	0.0
	Road Length (ft.):	3,514.2	1,195.9
	Railroad Lenth (ft.):	0.0	0.0
	Development Length:	3,385.8	974.5
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>
	Erosion Length (ft.):	0.0	237.5
	Erosion Height (ft.):	0.0	4.5
	Revetment Type:	Rip-Rap	Rip-Rap
	Revetment length	341.7	630.7
3.2	<u>Buffer Less Than 25 ft.</u>		
3.3	<u>Riparian Corridor</u>	<u>Left</u>	<u>Right</u>
	Mass Failures:		
	Average Height (ft.):	0.0	0.0
	Mass Failures:	None	
	Average Heigh (ft.):	0.0	
	Gullies:	None	
	Number of Gullies		
	Total Length of Gullies (ft.):		
	Average Height of Gullies	0.0	

<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	0
	Tile Drain	0
	Other	2
	Ub Strm Wtr Pipe	0
4.9	Beaver Dams:	0
	Affected length (ft.):	0.0
5.2	Migration Features	
	Flood Chutes:	0
	Neck Cutoffs:	1
	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.):	1,675.7
	Dredging:	None



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Walloomsac

SGAT Version: **4.56**

Reach: **M03 -B**

<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:	Large Run of River
	Berm Length (ft.):	0.0	0.0		Use:	Other
	Path Length (ft.):	0.0	0.0	4.7	Stormwater Inputs	
	Road Length (ft.):	52.4	0.0		Overland Flow	Road Ditch
	Railroad Lenth (ft.):	0.0	0.0		Field Ditch	Tile Drain
	Development Length:	0.0	333.9		Other	Ub Strm Wtr Pipe
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>	4.9	Beaver Dams:	0
	Erosion Length (ft.):	0.0	0.0		Affected length (ft.):	0.0
	Erosion Height (ft.):	0.0	0.0	5.2	Migration Features	
	Revetment Type:	None	None		Flood Chutes:	0
	Revetment length	0.0	0.0		Neck Cutoffs:	0
3.2	<u>Buffer Less Than 25 ft.</u>				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.):	0.0	0.0		Steep Riffles:	0
	Mass Failures:	None			Head Cuts:	0
	Average Heigh (ft.):	0.0		5.4	Animal Crossings:	No
	Gullies:	None		5.5	Channel Alterations	
	Number of Gullies				Straightening:	None
	Total Length of Gullies (ft.):				Length (ft.):	0.0
	Average Height of Gullies	0.0			Dredging:	None



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SGAT Version: **4.56**

Reach: **M06T3.01 -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.):	705.8 4,906.7
	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.):	99.5 405.2
	Erosion Height (ft.):	4.0 14.3
	Revetment Type:	Multiple Rip-Rap
	Revetment length	1,735.1 1,015.3
3.2	<u>Buffer Less Than 25 ft.</u>	
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	0.0 0.0
	Mass Failures:	None
	Average Heigh (ft.):	0.0
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	0.0

<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	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:	3
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	4
	Head Cuts:	6
5.4	Animal Crossings:	No
5.5	Channel Alterations	
	Straightening:	With Windrowing
	Length (ft.):	7,200.8
	Dredging:	None



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Walloomsac

SGAT Version: **4.56**

Reach: **M06 -B**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>
1.2	Alluvial Fan:	Unknown	4.4	Number of Debris Jams:	0
1.3	<u>Encroachments - Side</u>	<u>One</u> <u>Both</u>	4.5	Flow Regulation Type:	Small Run of River
	Berm Length (ft.):	0.0 2,013.0		Use:	Other
	Path Length (ft.):	0.0 0.0	4.7	Stormwater Inputs	
	Road Length (ft.):	852.0 311.4	Overland Flow	0	Road Ditch 0
	Railroad Lenth (ft.):	0.0 0.0	Field Ditch	0	Tile Drain 0
	Development Length:	679.0 1,126.0	Other	3	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.):	687.3 836.9		Affected length (ft.):	0.0
	Erosion Height (ft.):	10.7 7.0	5.2	Migration Features	
	Revetment Type:	Rip-Rap Rip-Rap		Flood Chutes:	0
	Revetment length	705.4 414.2		Neck Cutoffs:	0
3.2	<u>Buffer Less Than 25 ft.</u>			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.):	0.0 0.0		Steep Riffles:	2
	Mass Failures:	None		Head Cuts:	0
	Average Heigh (ft.):	0.0	5.4	Animal Crossings:	No
	Gullies:	None	5.5	Channel Alterations	
	Number of Gullies			Straightening:	With Windrowing
	Total Length of Gullies (ft.):			Length (ft.):	2,704.8
	Average Height of Gullies	0.0		Dredging:	None



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Walloomsac

SGAT Version: **4.56**

Reach: **M06 -A**

<u>Step</u>	<u>Description</u>	<u>Value</u>	<u>Step</u>	<u>Description</u>	<u>Value</u>	
1.2	Alluvial Fan:		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.):	0.0	0.0	4.7	Stormwater Inputs	
	Road Length (ft.):	0.0	0.0	Overland Flow	Road Ditch	
	Railroad Lenth (ft.):	0.0	0.0	Field Ditch	Tile Drain	
	Development Length:	1,451.2	0.0	Other	Ub Strm Wtr Pipe	
3.1	<u>Erosion - Bank</u>	<u>Left</u>	<u>Right</u>	4.9	Beaver Dams:	0
	Erosion Length (ft.):	1,202.5	314.5		Affected length (ft.):	0.0
	Erosion Height (ft.):	8.0	5.0	5.2	Migration Features	
	Revetment Type:	Rip-Rap	Rip-Rap	Flood Chutes:	0	
	Revetment length	683.8	176.0	Neck Cutoffs:	0	
3.2	<u>Buffer Less Than 25 ft.</u>			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.):	0.0	0.0	Steep Riffles:	0	
	Mass Failures:	None		Head Cuts:	0	
	Average Heigh (ft.):	0.0		5.4	Animal Crossings:	No
	Gullies:	None		5.5	Channel Alterations	
	Number of Gullies			Straightening:	With Windrowing	
	Total Length of Gullies (ft.):			Length (ft.):	3,941.2	
	Average Height of Gullies	0.0		Dredging:	None	



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SGAT Version: **4.56**

Reach: **M02 -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:	1	
1.3	<u>Encroachments - Side</u>	<u>One</u>	4.5	Flow Regulation Type:	Small Run of River	
	Berm Length (ft.):	0.0		Use:	Other	
	Path Length (ft.):	0.0	4.7	Stormwater Inputs		
	Road Length (ft.):	6,084.5	Overland Flow	0	Road Ditch	0
	Railroad Lenth (ft.):	0.0	Field Ditch	0	Tile Drain	0
	Development Length:	1,404.9	Other	1	Ub Strm Wtr Pipe	0
		1,700.8	4.9	Beaver Dams:	0	
3.1	<u>Erosion - Bank</u>	<u>Left</u>		Affected length (ft.):	0.0	
	Erosion Length (ft.):	679.8	5.2	Migration Features		
	Erosion Height (ft.):	5.0		Flood Chutes:	0	
	Revetment Type:	Rip-Rap		Neck Cutoffs:	0	
	Revetment length	453.6		Channel Avulsions:	0	
3.2	<u>Buffer Less Than 25 ft.</u>	25		Braiding:	2	
3.3	<u>Riparian Corridor</u>	<u>Left</u>	5.3	Steep Riffles and Head Cuts		
	Mass Failures:			Steep Riffles:	0	
	Average Height (ft.):	0.0		Head Cuts:	0	
	Mass Failures:	None	5.4	Animal Crossings:	Yes	
	Average Heigh (ft.):	0.0	5.5	Channel Alterations		
	Gullies:	None		Straightening:	Straightening	
	Number of Gullies			Length (ft.):	12,088.0	
	Total Length of Gullies (ft.):			Dredging:	None	
	Average Height of Gullies	0.0				



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Reach: **M06T3.02 -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.):	2,642.8 1,217.1
	Path Length (ft.):	0.0 0.0
	Road Length (ft.):	0.0 0.0
	Railroad Lenth (ft.):	0.0 0.0
	Development Length:	1,259.9 0.0
3.1	<u>Erosion - Bank</u>	<u>Left</u> <u>Right</u>
	Erosion Length (ft.):	997.7 595.2
	Erosion Height (ft.):	20.0 18.7
	Revetment Type:	Multiple None
	Revetment length	987.8 0.0
3.2	<u>Buffer Less Than 25 ft.</u>	
3.3	<u>Riparian Corridor</u>	<u>Left</u> <u>Right</u>
	Mass Failures:	
	Average Height (ft.):	0.0 0.0
	Mass Failures:	None
	Average Heigh (ft.):	0.0
	Gullies:	None
	Number of Gullies	
	Total Length of Gullies (ft.):	
	Average Height of Gullies	0.0

<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:	4
5.3	Steep Riffles and Head Cuts	
	Steep Riffles:	2
	Head Cuts:	1
5.4	Animal Crossings:	Yes
5.5	Channel Alterations	
	Straightening:	With Windrowing
	Length (ft.):	4,980.4
	Dredging:	None