



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: **M19 -A**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>               |
|-------------|--------------------------------|----------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>     |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>      |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>      |
|             | Road Length (ft.):             | <b>3,861.5</b> <b>0.0</b>  |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>      |
|             | Development Length:            | <b>207.4</b> <b>0.0</b>    |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>0.0</b> <b>0.0</b>      |
|             | Erosion Height (ft.):          | <b>0.0</b> <b>0.0</b>      |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>None</b> |
|             | Revetment length               | <b>844.3</b> <b>0.0</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>3769</b> <b>49</b>      |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>   |
|             | Mass Failures:                 |                            |
|             | Average Height (ft.):          |                            |
|             | Mass Failures:                 | <b>None</b>                |
|             | Average Heigh (ft.):           |                            |
|             | Gullies:                       | <b>None</b>                |
|             | Number of Gullies              | <b>0</b>                   |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                 |
|             | Average Height of Gullies      |                            |

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



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S1.09 -0

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                   |
|-------------|--------------------------------|--------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                    |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>         |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Road Length (ft.):             | <b>2,828.6</b> <b>0.0</b>      |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>          |
|             | Development Length:            | <b>34.4</b> <b>0.0</b>         |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>       |
|             | Erosion Length (ft.):          | <b>701.5</b> <b>300.3</b>      |
|             | Erosion Height (ft.):          | <b>4.5</b> <b>3.9</b>          |
|             | Revetment Type:                | <b>Multiple</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>994.6</b> <b>263.6</b>      |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>1284</b> <b>231</b>         |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>       |
|             | Mass Failures:                 | <b>308.3936</b>                |
|             | Average Height (ft.):          | <b>26.7</b>                    |
|             | Mass Failures:                 | <b>Multiple</b>                |
|             | Average Heigh (ft.):           | <b>26.7</b>                    |
|             | Gullies:                       | <b>One</b>                     |
|             | Number of Gullies              | <b>1</b>                       |
|             | Total Length of Gullies (ft.): | <b>100.0</b>                   |
|             | Average Height of Gullies      | <b>2.0</b>                     |

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



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S1.04 -A

| <u>Step</u> | <u>Description</u>             | <u>Value</u>               |
|-------------|--------------------------------|----------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>     |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>      |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>      |
|             | Road Length (ft.):             | <b>0.0</b> <b>0.0</b>      |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>      |
|             | Development Length:            | <b>188.8</b> <b>0.0</b>    |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>443.7</b> <b>279.9</b>  |
|             | Erosion Height (ft.):          | <b>6.0</b> <b>7.1</b>      |
|             | Revetment Type:                | <b>None</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>0.0</b> <b>192.3</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b> <b>212</b>        |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>   |
|             | Mass Failures:                 | <b>46.21009</b>            |
|             | Average Height (ft.):          | <b>12.0</b>                |
|             | Mass Failures:                 | <b>One</b>                 |
|             | Average Heigh (ft.):           | <b>12.0</b>                |
|             | Gullies:                       | <b>None</b>                |
|             | Number of Gullies              | <b>0</b>                   |
|             | Total Length of Gullies (ft.): |                            |
|             | Average Height of Gullies      |                            |

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



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S3.05 -B

| Step | Description                    | Value           |
|------|--------------------------------|-----------------|
| 1.2  | Alluvial Fan:                  | None            |
| 1.3  | Encroachments - Side           | One Both        |
|      | Berm Length (ft.):             | 129.1 0.0       |
|      | Path Length (ft.):             | 0.0 0.0         |
|      | Road Length (ft.):             | 0.0 552.1       |
|      | Railroad Lenth (ft.):          | 0.0 0.0         |
|      | Development Length:            | 0.0 0.0         |
| 3.1  | Erosion - Bank                 | Left Right      |
|      | Erosion Length (ft.):          | 0.0 0.0         |
|      | Erosion Height (ft.):          | 0.0 0.0         |
|      | Revetment Type:                | Rip-Rap Rip-Rap |
|      | Revetment length               | 60.8 82.6       |
| 3.2  | Buffer Less Than 25 ft.        | 0 0             |
| 3.3  | Riparian Corridor              | Left Right      |
|      | Mass Failures:                 | 36.79319        |
|      | Average Height (ft.):          | 8.0             |
|      | Mass Failures:                 | One             |
|      | Average Heigh (ft.):           | 8.0             |
|      | Gullies:                       | None            |
|      | Number of Gullies              | 0               |
|      | Total Length of Gullies (ft.): | 0.0             |
|      | Average Height of Gullies      |                 |

| Step | Description                 | Value            |
|------|-----------------------------|------------------|
| 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:                | 1                |
|      | Affected length (ft.):      | 100.0            |
| 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.):               | 507.3            |
|      | Dredging:                   | Dredging         |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: M14 -0

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                   |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>5,627.4</b> <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>1,985.8</b> <b>0.0</b>     |
|             | Development Length:            | <b>111.9</b> <b>0.0</b>       |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>335.4</b> <b>185.9</b>     |
|             | Erosion Height (ft.):          | <b>4.4</b> <b>3.9</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>2,581.3</b> <b>1,379.3</b> |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>6440</b> <b>6393</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 | <b>17.71096</b>               |
|             | Average Height (ft.):          | <b>20.0</b>                   |
|             | Mass Failures:                 | <b>One</b>                    |
|             | Average Heigh (ft.):           | <b>20.0</b>                   |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              | <b>0</b>                      |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                    |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>1</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>2</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>0</b>                  |
|             | Neck Cutoffs:               | <b>0</b>                  |
|             | Channel Avulsions:          | <b>0</b>                  |
|             | Braiding:                   | <b>0</b>                  |
| 5.3         | Steep Riffles and Head Cuts |                           |
|             | Steep Riffles:              | <b>2</b>                  |
|             | Head Cuts:                  | <b>0</b>                  |
| 5.4         | Animal Crossings:           | <b>Yes</b>                |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>3,958.1</b>            |
|             | Dredging:                   | <b>None</b>               |



# Stream Geomorphic Assessment

Agency of Natural Resources



Vermont.gov  
June, 08 2026

## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **T7.01 -B**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                   |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>217.6</b> <b>0.0</b>       |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>450.8</b> <b>0.0</b>       |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>         |
|             | Development Length:            | <b>57.5</b> <b>114.4</b>      |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>0.0</b> <b>0.0</b>         |
|             | Erosion Height (ft.):          | <b>0.0</b> <b>0.0</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>192.6</b> <b>258.9</b>     |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>1500</b> <b>2447</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 |                               |
|             | Average Height (ft.):          |                               |
|             | Mass Failures:                 | <b>None</b>                   |
|             | Average Heigh (ft.):           |                               |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              | <b>0</b>                      |
|             | Total Length of Gullies (ft.): |                               |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>2</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>0</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>0</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>Yes</b>           |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>1,661.8</b>       |
|             | Dredging:                   | <b>None</b>          |



# Stream Geomorphic Assessment

Agency of Natural Resources



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **M07 -A**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>84.0</b>    | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Development Length:            | <b>43.1</b>    | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Erosion Height (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>75.5</b>    | <b>54.9</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>       | <b>494</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

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



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S1.04 -B

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                   |
|-------------|--------------------------------|--------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                    |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>         |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Road Length (ft.):             | <b>2,037.6</b> <b>0.0</b>      |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>          |
|             | Development Length:            | <b>165.3</b> <b>0.0</b>        |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>       |
|             | Erosion Length (ft.):          | <b>77.4</b> <b>0.0</b>         |
|             | Erosion Height (ft.):          | <b>6.2</b> <b>0.0</b>          |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Multiple</b> |
|             | Revetment length               | <b>642.0</b> <b>975.5</b>      |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>1185</b> <b>1335</b>        |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>       |
|             | Mass Failures:                 | <b>112.3655</b>                |
|             | Average Height (ft.):          | <b>25.0</b>                    |
|             | Mass Failures:                 | <b>One</b>                     |
|             | Average Heigh (ft.):           | <b>25.0</b>                    |
|             | Gullies:                       | <b>None</b>                    |
|             | Number of Gullies              | <b>0</b>                       |
|             | Total Length of Gullies (ft.): |                                |
|             | Average Height of Gullies      |                                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>1</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>1</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>1</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>Yes</b>           |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>1,664.6</b>       |
|             | Dredging:                   | <b>None</b>          |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S1.03 -0

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                    |
|-------------|--------------------------------|---------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                     |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>          |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>           |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>           |
|             | Road Length (ft.):             | <b>3,881.5</b> <b>0.0</b>       |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>           |
|             | Development Length:            | <b>72.1</b> <b>0.0</b>          |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>        |
|             | Erosion Length (ft.):          | <b>175.7</b> <b>0.0</b>         |
|             | Erosion Height (ft.):          | <b>6.6</b> <b>0.0</b>           |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b>   |
|             | Revetment length               | <b>1,039.1</b> <b>283.4</b>     |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>1860</b> <b>680</b>          |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>        |
|             | Mass Failures:                 | <b>101.3416</b> <b>72.82626</b> |
|             | Average Height (ft.):          | <b>12.0</b> <b>20.0</b>         |
|             | Mass Failures:                 | <b>Multiple</b>                 |
|             | Average Heigh (ft.):           | <b>16.0</b>                     |
|             | Gullies:                       | <b>None</b>                     |
|             | Number of Gullies              | <b>0</b>                        |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                      |
|             | Average Height of Gullies      |                                 |

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



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## Williams River

SGAT Version: **4.56**

Reach: **T5.09 -B**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>              |
|-------------|--------------------------------|---------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>               |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>    |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>     |
|             | Road Length (ft.):             | <b>0.0</b> <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>     |
|             | Development Length:            | <b>0.0</b> <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>  |
|             | Erosion Length (ft.):          | <b>202.8</b> <b>130.6</b> |
|             | Erosion Height (ft.):          | <b>5.5</b> <b>3.6</b>     |
|             | Revetment Type:                | <b>None</b> <b>None</b>   |
|             | Revetment length               | <b>0.0</b> <b>0.0</b>     |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b> <b>0</b>         |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>  |
|             | Mass Failures:                 | <b>22.0381</b>            |
|             | Average Height (ft.):          | <b>10.0</b>               |
|             | Mass Failures:                 | <b>One</b>                |
|             | Average Heigh (ft.):           | <b>10.0</b>               |
|             | Gullies:                       | <b>None</b>               |
|             | Number of Gullies              | <b>0</b>                  |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                |
|             | Average Height of Gullies      |                           |

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



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## Williams River

SGAT Version: **4.56**

Reach: **T5.05 -A**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>531.9</b>   | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Development Length:            | <b>127.2</b>   | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>85.0</b>    | <b>49.9</b>    |
|             | Erosion Height (ft.):          | <b>2.0</b>     | <b>10.0</b>    |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>329.9</b>   | <b>31.1</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>104</b>     | <b>247</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>4</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>5</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>1</b>             |
|             | Braiding:                   | <b>2</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>2</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>280.2</b>         |
|             | Dredging:                   | <b>None</b>          |



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **M16 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>    |                |
|-------------|--------------------------------|-----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>     |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>      | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>0.0</b>      | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>      | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>194.4</b>    | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>2,642.8</b>  | <b>0.0</b>     |
|             | Development Length:            | <b>305.5</b>    | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>     | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>0.0</b>      | <b>0.0</b>     |
|             | Erosion Height (ft.):          | <b>0.0</b>      | <b>0.0</b>     |
|             | Revetment Type:                | <b>Multiple</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>1,085.7</b>  | <b>1,447.8</b> |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>1043</b>     | <b>0</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>     | <u>Right</u>   |
|             | Mass Failures:                 |                 |                |
|             | Average Height (ft.):          |                 |                |
|             | Mass Failures:                 | <b>None</b>     |                |
|             | Average Heigh (ft.):           |                 |                |
|             | Gullies:                       | <b>None</b>     |                |
|             | Number of Gullies              | <b>0</b>        |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>      |                |
|             | Average Height of Gullies      |                 |                |

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



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Williams River

SGAT Version: 4.56

Reach: T5.S1.01 -0

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>440.7</b>   | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Development Length:            | <b>0.0</b>     | <b>1,222.7</b> |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Erosion Height (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>985.8</b>   | <b>174.1</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>775</b>     | <b>493</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | <b>0</b>             |
|             | Road Ditch                  | <b>0</b>             |
|             | Field Ditch                 | <b>0</b>             |
|             | Tile Drain                  | <b>0</b>             |
|             | Other                       | <b>0</b>             |
|             | Ub Strm Wtr Pipe            | <b>1</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>0</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>0</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>1,416.8</b>       |
|             | Dredging:                   | <b>Dredging</b>      |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S1.07 -0

| <u>Step</u> | <u>Description</u>             | <u>Value</u>    |                |
|-------------|--------------------------------|-----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>     |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>      | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>1,171.5</b>  | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>      | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>5,132.7</b>  | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>      | <b>0.0</b>     |
|             | Development Length:            | <b>894.0</b>    | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>     | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>575.1</b>    | <b>784.8</b>   |
|             | Erosion Height (ft.):          | <b>3.4</b>      | <b>5.6</b>     |
|             | Revetment Type:                | <b>Multiple</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>1,985.9</b>  | <b>542.1</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>1189</b>     | <b>410</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>     | <u>Right</u>   |
|             | Mass Failures:                 | <b>391.7063</b> | <b>692.892</b> |
|             | Average Height (ft.):          | <b>29.9</b>     | <b>22.7</b>    |
|             | Mass Failures:                 | <b>Multiple</b> |                |
|             | Average Heigh (ft.):           | <b>24.0</b>     |                |
|             | Gullies:                       | <b>One</b>      |                |
|             | Number of Gullies              | <b>1</b>        |                |
|             | Total Length of Gullies (ft.): | <b>150.0</b>    |                |
|             | Average Height of Gullies      | <b>4.0</b>      |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u> |
|-------------|-----------------------------|--------------|
| 4.4         | Number of Debris Jams:      | <b>12</b>    |
| 4.5         | Flow Regulation Type:       | <b>None</b>  |
|             | Use:                        |              |
| 4.7         | Stormwater Inputs           |              |
|             | Overland Flow               | <b>0</b>     |
|             | Road Ditch                  | <b>1</b>     |
|             | Field Ditch                 | <b>0</b>     |
|             | Tile Drain                  | <b>0</b>     |
|             | Other                       | <b>0</b>     |
|             | Ub Strm Wtr Pipe            | <b>0</b>     |
| 4.9         | Beaver Dams:                | <b>0</b>     |
|             | Affected length (ft.):      | <b>0.0</b>   |
| 5.2         | Migration Features          |              |
|             | Flood Chutes:               | <b>11</b>    |
|             | Neck Cutoffs:               | <b>0</b>     |
|             | Channel Avulsions:          | <b>2</b>     |
|             | Braiding:                   | <b>0</b>     |
| 5.3         | Steep Riffles and Head Cuts |              |
|             | Steep Riffles:              | <b>6</b>     |
|             | Head Cuts:                  | <b>1</b>     |
| 5.4         | Animal Crossings:           | <b>No</b>    |
| 5.5         | Channel Alterations         |              |
|             | Straightening:              | <b>None</b>  |
|             | Length (ft.):               | <b>0.0</b>   |
|             | Dredging:                   | <b>None</b>  |



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Williams River

SGAT Version: 4.56

Reach: T5.S3.04 -B

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>444.8</b>   | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>1,178.3</b> | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Development Length:            | <b>180.8</b>   | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Erosion Height (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>151.1</b>   | <b>245.3</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>358</b>     | <b>453</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>4</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>2</b>             |
|             | Affected length (ft.):      | <b>160.0</b>         |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>2</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>2</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>2</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>457.1</b>         |
|             | Dredging:                   | <b>Dredging</b>      |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S3.03 -0

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                   |
|-------------|--------------------------------|--------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                    |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>         |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Road Length (ft.):             | <b>286.7</b> <b>0.0</b>        |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>          |
|             | Development Length:            | <b>0.0</b> <b>0.0</b>          |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>       |
|             | Erosion Length (ft.):          | <b>137.2</b> <b>80.8</b>       |
|             | Erosion Height (ft.):          | <b>9.6</b> <b>4.0</b>          |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b>  |
|             | Revetment length               | <b>159.3</b> <b>103.0</b>      |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>290</b> <b>1066</b>         |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>       |
|             | Mass Failures:                 | <b>133.754</b> <b>163.6944</b> |
|             | Average Height (ft.):          | <b>52.8</b> <b>20.6</b>        |
|             | Mass Failures:                 | <b>Multiple</b>                |
|             | Average Heigh (ft.):           | <b>35.5</b>                    |
|             | Gullies:                       | <b>None</b>                    |
|             | Number of Gullies              | <b>0</b>                       |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                     |
|             | Average Height of Gullies      |                                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>            |
|-------------|-----------------------------|-------------------------|
| 4.4         | Number of Debris Jams:      | <b>9</b>                |
| 4.5         | Flow Regulation Type:       | <b>Small Withdrawal</b> |
|             | Use:                        | <b>Other</b>            |
| 4.7         | Stormwater Inputs           |                         |
|             | Overland Flow               | Road Ditch              |
|             | Field Ditch                 | Tile Drain              |
|             | Other                       | Ub Strm Wtr Pipe        |
| 4.9         | Beaver Dams:                | <b>0</b>                |
|             | Affected length (ft.):      | <b>0.0</b>              |
| 5.2         | Migration Features          |                         |
|             | Flood Chutes:               | <b>7</b>                |
|             | Neck Cutoffs:               | <b>0</b>                |
|             | Channel Avulsions:          | <b>0</b>                |
|             | Braiding:                   | <b>0</b>                |
| 5.3         | Steep Riffles and Head Cuts |                         |
|             | Steep Riffles:              | <b>6</b>                |
|             | Head Cuts:                  | <b>0</b>                |
| 5.4         | Animal Crossings:           | <b>No</b>               |
| 5.5         | Channel Alterations         |                         |
|             | Straightening:              | <b>Straightening</b>    |
|             | Length (ft.):               | <b>1,364.1</b>          |
|             | Dredging:                   | <b>None</b>             |



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SGAT Version: **4.56**

Reach: **M20 -B**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |              |
|-------------|--------------------------------|----------------|--------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |              |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>  |
|             | Berm Length (ft.):             | <b>0.0</b>     | <b>0.0</b>   |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>   |
|             | Road Length (ft.):             | <b>3,068.4</b> | <b>0.0</b>   |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>   |
|             | Development Length:            | <b>0.0</b>     | <b>0.0</b>   |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u> |
|             | Erosion Length (ft.):          | <b>0.0</b>     | <b>0.0</b>   |
|             | Erosion Height (ft.):          | <b>0.0</b>     | <b>0.0</b>   |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>None</b>  |
|             | Revetment length               | <b>2,313.9</b> | <b>0.0</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>2491</b>    | <b>0</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u> |
|             | Mass Failures:                 |                |              |
|             | Average Height (ft.):          |                |              |
|             | Mass Failures:                 | <b>None</b>    |              |
|             | Average Heigh (ft.):           |                |              |
|             | Gullies:                       | <b>None</b>    |              |
|             | Number of Gullies              | <b>0</b>       |              |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |              |
|             | Average Height of Gullies      |                |              |

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



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SGAT Version: **4.56**

Reach: **T5.06 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                   |
|-------------|--------------------------------|--------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                    |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>         |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Road Length (ft.):             | <b>1,426.5</b> <b>0.0</b>      |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>          |
|             | Development Length:            | <b>522.7</b> <b>0.0</b>        |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>       |
|             | Erosion Length (ft.):          | <b>967.0</b> <b>680.5</b>      |
|             | Erosion Height (ft.):          | <b>7.7</b> <b>5.0</b>          |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b>  |
|             | Revetment length               | <b>422.8</b> <b>874.1</b>      |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>406</b> <b>441</b>          |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>       |
|             | Mass Failures:                 | <b>602.7814</b> <b>173.676</b> |
|             | Average Height (ft.):          | <b>77.7</b> <b>15.0</b>        |
|             | Mass Failures:                 | <b>Multiple</b>                |
|             | Average Heigh (ft.):           | <b>43.8</b>                    |
|             | Gullies:                       | <b>None</b>                    |
|             | Number of Gullies              | <b>0</b>                       |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                     |
|             | Average Height of Gullies      |                                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>6</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>1</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>3</b>                  |
|             | Neck Cutoffs:               | <b>0</b>                  |
|             | Channel Avulsions:          | <b>0</b>                  |
|             | Braiding:                   | <b>0</b>                  |
| 5.3         | Steep Riffles and Head Cuts |                           |
|             | Steep Riffles:              | <b>6</b>                  |
|             | Head Cuts:                  | <b>0</b>                  |
| 5.4         | Animal Crossings:           | <b>No</b>                 |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>169.0</b>              |
|             | Dredging:                   | <b>None</b>               |



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **T5.06 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                   |
|-------------|--------------------------------|--------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                    |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>         |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Road Length (ft.):             | <b>1,426.5</b> <b>0.0</b>      |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>          |
|             | Development Length:            | <b>522.7</b> <b>0.0</b>        |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>       |
|             | Erosion Length (ft.):          | <b>967.0</b> <b>680.5</b>      |
|             | Erosion Height (ft.):          | <b>7.7</b> <b>5.0</b>          |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b>  |
|             | Revetment length               | <b>422.8</b> <b>874.1</b>      |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>406</b> <b>441</b>          |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>       |
|             | Mass Failures:                 | <b>602.7814</b> <b>173.676</b> |
|             | Average Height (ft.):          | <b>77.7</b> <b>15.0</b>        |
|             | Mass Failures:                 | <b>Multiple</b>                |
|             | Average Heigh (ft.):           | <b>43.8</b>                    |
|             | Gullies:                       | <b>None</b>                    |
|             | Number of Gullies              | <b>0</b>                       |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                     |
|             | Average Height of Gullies      |                                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>6</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>1</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>3</b>                  |
|             | Neck Cutoffs:               | <b>0</b>                  |
|             | Channel Avulsions:          | <b>0</b>                  |
|             | Braiding:                   | <b>0</b>                  |
| 5.3         | Steep Riffles and Head Cuts |                           |
|             | Steep Riffles:              | <b>6</b>                  |
|             | Head Cuts:                  | <b>0</b>                  |
| 5.4         | Animal Crossings:           | <b>No</b>                 |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>169.0</b>              |
|             | Dredging:                   | <b>None</b>               |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: M15 -0

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                   |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Railroad Lenth (ft.):          | <b>1,718.5</b> <b>0.0</b>     |
|             | Development Length:            | <b>424.0</b> <b>0.0</b>       |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>232.3</b> <b>0.0</b>       |
|             | Erosion Height (ft.):          | <b>4.9</b> <b>0.0</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>194.7</b> <b>119.7</b>     |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>169</b> <b>0</b>           |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 |                               |
|             | Average Height (ft.):          |                               |
|             | Mass Failures:                 | <b>None</b>                   |
|             | Average Heigh (ft.):           |                               |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              | <b>0</b>                      |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                    |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>2</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>2</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>0</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>996.8</b>         |
|             | Dredging:                   | <b>None</b>          |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S3.01 -0

| <u>Step</u> | <u>Description</u>             | <u>Value</u>               |
|-------------|--------------------------------|----------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>     |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>      |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>      |
|             | Road Length (ft.):             | <b>156.4</b> <b>794.0</b>  |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>      |
|             | Development Length:            | <b>272.2</b> <b>249.9</b>  |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>709.5</b> <b>465.2</b>  |
|             | Erosion Height (ft.):          | <b>6.1</b> <b>5.7</b>      |
|             | Revetment Type:                | <b>None</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>0.0</b> <b>804.7</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>40</b> <b>1171</b>      |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>   |
|             | Mass Failures:                 | <b>370.0052</b>            |
|             | Average Height (ft.):          | <b>42.8</b>                |
|             | Mass Failures:                 | <b>Multiple</b>            |
|             | Average Heigh (ft.):           | <b>38.3</b>                |
|             | Gullies:                       | <b>None</b>                |
|             | Number of Gullies              | <b>0</b>                   |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                 |
|             | Average Height of Gullies      |                            |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>10</b>            |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>4</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>6</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>551.6</b>         |
|             | Dredging:                   | <b>None</b>          |



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## Williams River

SGAT Version: **4.56**

Reach: **T5.S3.02 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                   |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>235.0</b> <b>0.0</b>       |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>3,707.9</b> <b>478.0</b>   |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>         |
|             | Development Length:            | <b>688.0</b> <b>0.0</b>       |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>797.9</b> <b>851.2</b>     |
|             | Erosion Height (ft.):          | <b>8.4</b> <b>5.8</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>914.9</b> <b>375.9</b>     |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>211</b> <b>799</b>         |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 | <b>179.0063</b>               |
|             | Average Height (ft.):          | <b>14.3</b>                   |
|             | Mass Failures:                 | <b>Multiple</b>               |
|             | Average Heigh (ft.):           | <b>12.5</b>                   |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              | <b>0</b>                      |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                    |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>11</b>            |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>4</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>1</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>8</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>610.3</b>         |
|             | Dredging:                   | <b>None</b>          |



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## Williams River

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Reach: **T5.S1.06 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>    | <u>Step</u>   | <u>Description</u>          | <u>Value</u>         |          |
|-------------|--------------------------------|-----------------|---------------|-----------------------------|----------------------|----------|
| 1.2         | Alluvial Fan:                  | <b>None</b>     | 4.4           | Number of Debris Jams:      | <b>0</b>             |          |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>      | 4.5           | Flow Regulation Type:       | <b>None</b>          |          |
|             | Berm Length (ft.):             | <b>287.4</b>    |               | Use:                        |                      |          |
|             | Path Length (ft.):             | <b>0.0</b>      | 4.7           | Stormwater Inputs           |                      |          |
|             | Road Length (ft.):             | <b>0.0</b>      | Overland Flow | <b>0</b>                    | Road Ditch           | <b>1</b> |
|             | Railroad Lenth (ft.):          | <b>0.0</b>      | Field Ditch   | <b>0</b>                    | Tile Drain           | <b>0</b> |
|             | Development Length:            | <b>432.7</b>    | Other         | <b>0</b>                    | Ub Strm Wtr Pipe     | <b>0</b> |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>     | 4.9           | Beaver Dams:                | <b>0</b>             |          |
|             | Erosion Length (ft.):          | <b>391.8</b>    |               | Affected length (ft.):      | <b>0.0</b>           |          |
|             | Erosion Height (ft.):          | <b>5.6</b>      | 5.2           | Migration Features          |                      |          |
|             | Revetment Type:                | <b>Rip-Rap</b>  |               | Flood Chutes:               | <b>1</b>             |          |
|             | Revetment length               | <b>97.5</b>     |               | Neck Cutoffs:               | <b>0</b>             |          |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>        |               | Channel Avulsions:          | <b>0</b>             |          |
|             | Mass Failures:                 | <b>261.9662</b> |               | Braiding:                   | <b>0</b>             |          |
|             | Average Height (ft.):          | <b>21.4</b>     | 5.3           | Steep Riffles and Head Cuts |                      |          |
|             | Mass Failures:                 | <b>Multiple</b> |               | Steep Riffles:              | <b>4</b>             |          |
|             | Average Heigh (ft.):           | <b>17.7</b>     |               | Head Cuts:                  | <b>0</b>             |          |
|             | Gullies:                       | <b>None</b>     | 5.4           | Animal Crossings:           | <b>Yes</b>           |          |
|             | Number of Gullies              | <b>0</b>        | 5.5           | Channel Alterations         |                      |          |
|             | Total Length of Gullies (ft.): | <b>0.0</b>      |               | Straightening:              | <b>Straightening</b> |          |
|             | Average Height of Gullies      |                 |               | Length (ft.):               | <b>520.1</b>         |          |
|             |                                |                 |               | Dredging:                   | <b>None</b>          |          |



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## Williams River

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Reach: **T5.S1.05 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                   |
|-------------|--------------------------------|--------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                    |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>         |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Road Length (ft.):             | <b>427.6</b> <b>126.6</b>      |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>          |
|             | Development Length:            | <b>136.8</b> <b>0.0</b>        |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>       |
|             | Erosion Length (ft.):          | <b>444.1</b> <b>213.1</b>      |
|             | Erosion Height (ft.):          | <b>4.7</b> <b>6.2</b>          |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b>  |
|             | Revetment length               | <b>27.1</b> <b>28.1</b>        |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>33</b> <b>417</b>           |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>       |
|             | Mass Failures:                 | <b>55.39374</b> <b>260.916</b> |
|             | Average Height (ft.):          | <b>10.0</b> <b>25.6</b>        |
|             | Mass Failures:                 | <b>Multiple</b>                |
|             | Average Heigh (ft.):           | <b>16.8</b>                    |
|             | Gullies:                       | <b>One</b>                     |
|             | Number of Gullies              | <b>1</b>                       |
|             | Total Length of Gullies (ft.): | <b>100.0</b>                   |
|             | Average Height of Gullies      | <b>2.0</b>                     |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>3</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>0</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>2</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>680.1</b>         |
|             | Dredging:                   | <b>None</b>          |



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **T5.09 -A**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                    |
|-------------|--------------------------------|---------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                     |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>          |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>           |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>           |
|             | Road Length (ft.):             | <b>2,306.2</b> <b>0.0</b>       |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>           |
|             | Development Length:            | <b>182.4</b> <b>0.0</b>         |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>        |
|             | Erosion Length (ft.):          | <b>535.5</b> <b>332.8</b>       |
|             | Erosion Height (ft.):          | <b>4.9</b> <b>6.3</b>           |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b>   |
|             | Revetment length               | <b>225.6</b> <b>909.3</b>       |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>61</b> <b>591</b>            |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>        |
|             | Mass Failures:                 | <b>92.18665</b> <b>41.16711</b> |
|             | Average Height (ft.):          | <b>15.0</b> <b>15.0</b>         |
|             | Mass Failures:                 | <b>Multiple</b>                 |
|             | Average Heigh (ft.):           | <b>15.0</b>                     |
|             | Gullies:                       | <b>None</b>                     |
|             | Number of Gullies              | <b>0</b>                        |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                      |
|             | Average Height of Gullies      |                                 |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>5</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>4</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>0</b>                  |
|             | Neck Cutoffs:               | <b>0</b>                  |
|             | Channel Avulsions:          | <b>0</b>                  |
|             | Braiding:                   | <b>0</b>                  |
| 5.3         | Steep Riffles and Head Cuts |                           |
|             | Steep Riffles:              | <b>2</b>                  |
|             | Head Cuts:                  | <b>0</b>                  |
| 5.4         | Animal Crossings:           | <b>No</b>                 |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>971.6</b>              |
|             | Dredging:                   | <b>Dredging</b>           |



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Williams River

SGAT Version: 4.56

Reach: T5.09 -C

| <u>Step</u> | <u>Description</u>             | <u>Value</u> |              |
|-------------|--------------------------------|--------------|--------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>  |              |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>   | <u>Both</u>  |
|             | Berm Length (ft.):             | <b>0.0</b>   | <b>0.0</b>   |
|             | Path Length (ft.):             | <b>0.0</b>   | <b>0.0</b>   |
|             | Road Length (ft.):             | <b>0.0</b>   | <b>0.0</b>   |
|             | Railroad Lenth (ft.):          | <b>0.0</b>   | <b>0.0</b>   |
|             | Development Length:            | <b>0.0</b>   | <b>0.0</b>   |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>  | <u>Right</u> |
|             | Erosion Length (ft.):          | <b>0.0</b>   | <b>45.5</b>  |
|             | Erosion Height (ft.):          | <b>0.0</b>   | <b>2.0</b>   |
|             | Revetment Type:                | <b>None</b>  | <b>None</b>  |
|             | Revetment length               | <b>0.0</b>   | <b>0.0</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>     | <b>0</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              | <b>0</b>     |              |
|             | Total Length of Gullies (ft.): | <b>0.0</b>   |              |
|             | Average Height of Gullies      |              |              |

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



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Williams River

SGAT Version: 4.56

Reach: T5.05 -B

| <u>Step</u> | <u>Description</u>             | <u>Value</u>               |
|-------------|--------------------------------|----------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>     |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>      |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>      |
|             | Road Length (ft.):             | <b>1,839.5</b> <b>0.0</b>  |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>      |
|             | Development Length:            | <b>119.3</b> <b>0.0</b>    |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>708.1</b> <b>272.7</b>  |
|             | Erosion Height (ft.):          | <b>6.8</b> <b>10.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>None</b> |
|             | Revetment length               | <b>256.2</b> <b>0.0</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>50</b> <b>450</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>   |
|             | Mass Failures:                 | <b>205.4809</b>            |
|             | Average Height (ft.):          | <b>25.0</b>                |
|             | Mass Failures:                 | <b>One</b>                 |
|             | Average Heigh (ft.):           | <b>25.0</b>                |
|             | Gullies:                       | <b>None</b>                |
|             | Number of Gullies              | <b>0</b>                   |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                 |
|             | Average Height of Gullies      |                            |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>4</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>0</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>0</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>Yes</b>           |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>264.0</b>         |
|             | Dredging:                   | <b>None</b>          |



# Stream Geomorphic Assessment

Agency of Natural Resources



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **M08 -B**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   | <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|--------------------------------|----------------|-------------|-----------------------------|----------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    | 4.4         | Number of Debris Jams:      | <b>1</b>             |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             |                                | <u>Both</u>    |             | Use:                        |                      |
|             | Berm Length (ft.):             | <b>0.0</b>     | 4.7         | Stormwater Inputs           |                      |
|             | Path Length (ft.):             | <b>0.0</b>     |             | Overland Flow               | Road Ditch           |
|             | Road Length (ft.):             | <b>1,358.8</b> |             | Field Ditch                 | Tile Drain           |
|             | Railroad Lenth (ft.):          | <b>312.1</b>   |             | Other                       | Ub Strm Wtr Pipe     |
|             | Development Length:            | <b>544.5</b>   | 4.9         | Beaver Dams:                | <b>0</b>             |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    |             | Affected length (ft.):      | <b>0.0</b>           |
|             |                                | <u>Right</u>   | 5.2         | Migration Features          |                      |
|             | Erosion Length (ft.):          | <b>0.0</b>     |             | Flood Chutes:               | <b>2</b>             |
|             | Erosion Height (ft.):          | <b>0.0</b>     |             | Neck Cutoffs:               | <b>0</b>             |
|             | Revetment Type:                | <b>Rip-Rap</b> |             | Channel Avulsions:          | <b>1</b>             |
|             | Revetment length               | <b>44.5</b>    |             | Braiding:                   | <b>0</b>             |
|             |                                | <b>309.8</b>   | 5.3         | Steep Riffles and Head Cuts |                      |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>       |             | Steep Riffles:              | <b>0</b>             |
|             |                                | <b>181</b>     |             | Head Cuts:                  | <b>0</b>             |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | 5.4         | Animal Crossings:           | <b>No</b>            |
|             |                                | <u>Right</u>   | 5.5         | Channel Alterations         |                      |
|             | Mass Failures:                 |                |             | Straightening:              | <b>Straightening</b> |
|             | Average Height (ft.):          |                |             | Length (ft.):               | <b>219.0</b>         |
|             | Mass Failures:                 | <b>None</b>    |             | Dredging:                   | <b>None</b>          |
|             | Average Heigh (ft.):           |                |             |                             |                      |
|             | Gullies:                       | <b>None</b>    |             |                             |                      |
|             | Number of Gullies              | <b>0</b>       |             |                             |                      |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |             |                             |                      |
|             | Average Height of Gullies      |                |             |                             |                      |



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **T5.08 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                   |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>4,993.8</b> <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>         |
|             | Development Length:            | <b>599.6</b> <b>0.0</b>       |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>260.9</b> <b>331.8</b>     |
|             | Erosion Height (ft.):          | <b>5.2</b> <b>5.3</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>1,576.7</b> <b>726.1</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>545</b> <b>500</b>         |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 | <b>306.027</b> <b>277.237</b> |
|             | Average Height (ft.):          | <b>37.1</b> <b>17.8</b>       |
|             | Mass Failures:                 | <b>Multiple</b>               |
|             | Average Heigh (ft.):           | <b>25.0</b>                   |
|             | Gullies:                       | <b>Multiple</b>               |
|             | Number of Gullies              | <b>2</b>                      |
|             | Total Length of Gullies (ft.): | <b>130.0</b>                  |
|             | Average Height of Gullies      | <b>7.0</b>                    |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>13</b>                 |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>2</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>4</b>                  |
|             | Neck Cutoffs:               | <b>0</b>                  |
|             | Channel Avulsions:          | <b>0</b>                  |
|             | Braiding:                   | <b>0</b>                  |
| 5.3         | Steep Riffles and Head Cuts |                           |
|             | Steep Riffles:              | <b>9</b>                  |
|             | Head Cuts:                  | <b>0</b>                  |
| 5.4         | Animal Crossings:           | <b>No</b>                 |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>738.9</b>              |
|             | Dredging:                   | <b>Dredging</b>           |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S2.01 -A

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Development Length:            | <b>0.0</b>     | <b>325.3</b>   |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>67.7</b>    | <b>0.0</b>     |
|             | Erosion Height (ft.):          | <b>2.0</b>     | <b>0.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>143.0</b>   | <b>232.6</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>306</b>     | <b>533</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>6</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>0</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>2</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>797.8</b>         |
|             | Dredging:                   | <b>None</b>          |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S2.01 -C

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>354.7</b>   | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>1,982.5</b> | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Development Length:            | <b>429.3</b>   | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>25.3</b>    | <b>22.4</b>    |
|             | Erosion Height (ft.):          | <b>2.0</b>     | <b>3.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>918.8</b>   | <b>2,200.3</b> |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>1600</b>    | <b>2247</b>    |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>6</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | <b>0</b>             |
|             | Road Ditch                  | <b>1</b>             |
|             | Field Ditch                 | <b>0</b>             |
|             | Tile Drain                  | <b>0</b>             |
|             | Other                       | <b>0</b>             |
|             | Ub Strm Wtr Pipe            | <b>0</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>2</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>0</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>1,557.8</b>       |
|             | Dredging:                   | <b>None</b>          |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S1.08 -0

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                    |
|-------------|--------------------------------|---------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                     |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>          |
|             | Berm Length (ft.):             | <b>135.5</b> <b>0.0</b>         |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>           |
|             | Road Length (ft.):             | <b>4,452.1</b> <b>0.0</b>       |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>           |
|             | Development Length:            | <b>504.2</b> <b>0.0</b>         |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>        |
|             | Erosion Length (ft.):          | <b>816.6</b> <b>524.0</b>       |
|             | Erosion Height (ft.):          | <b>4.5</b> <b>5.4</b>           |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b>   |
|             | Revetment length               | <b>530.1</b> <b>1,787.1</b>     |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>387</b> <b>1248</b>          |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>        |
|             | Mass Failures:                 | <b>213.5928</b> <b>153.0237</b> |
|             | Average Height (ft.):          | <b>26.2</b> <b>32.8</b>         |
|             | Mass Failures:                 | <b>Multiple</b>                 |
|             | Average Heigh (ft.):           | <b>26.0</b>                     |
|             | Gullies:                       | <b>None</b>                     |
|             | Number of Gullies              | <b>0</b>                        |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                      |
|             | Average Height of Gullies      |                                 |

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



# Stream Geomorphic Assessment

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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **T5.01 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                   |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>402.3</b> <b>456.9</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>         |
|             | Development Length:            | <b>139.6</b> <b>461.1</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>317.9</b> <b>270.1</b>     |
|             | Erosion Height (ft.):          | <b>7.0</b> <b>9.0</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>61.4</b> <b>726.2</b>      |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>336</b> <b>187</b>         |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 |                               |
|             | Average Height (ft.):          |                               |
|             | Mass Failures:                 | <b>None</b>                   |
|             | Average Heigh (ft.):           |                               |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              | <b>0</b>                      |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                    |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>0</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>1</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>2,520.9</b>       |
|             | Dredging:                   | <b>None</b>          |



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **T5.04 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                    |
|-------------|--------------------------------|---------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                     |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>          |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>           |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>           |
|             | Road Length (ft.):             | <b>5,333.4</b> <b>0.0</b>       |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>           |
|             | Development Length:            | <b>227.0</b> <b>0.0</b>         |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>        |
|             | Erosion Length (ft.):          | <b>428.4</b> <b>540.8</b>       |
|             | Erosion Height (ft.):          | <b>6.9</b> <b>7.5</b>           |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b>   |
|             | Revetment length               | <b>510.7</b> <b>716.5</b>       |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>509</b> <b>418</b>           |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>        |
|             | Mass Failures:                 | <b>546.0808</b> <b>1166.447</b> |
|             | Average Height (ft.):          | <b>55.5</b> <b>42.5</b>         |
|             | Mass Failures:                 | <b>Multiple</b>                 |
|             | Average Heigh (ft.):           | <b>42.1</b>                     |
|             | Gullies:                       | <b>None</b>                     |
|             | Number of Gullies              | <b>0</b>                        |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                      |
|             | Average Height of Gullies      |                                 |

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



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **M09 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>268.4</b>   | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>3,470.3</b> | <b>0.0</b>     |
|             | Development Length:            | <b>122.5</b>   | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>835.8</b>   | <b>273.8</b>   |
|             | Erosion Height (ft.):          | <b>5.2</b>     | <b>8.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>173.4</b>   | <b>1,523.9</b> |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>       | <b>1367</b>    |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>1</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>4</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>3,384.9</b>       |
|             | Dredging:                   | <b>None</b>          |



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **M07 -B**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                   |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>1,013.8</b> <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>330.7</b> <b>0.0</b>       |
|             | Development Length:            | <b>114.2</b> <b>0.0</b>       |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>0.0</b> <b>301.2</b>       |
|             | Erosion Height (ft.):          | <b>0.0</b> <b>3.6</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>677.5</b> <b>76.1</b>      |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>477</b> <b>349</b>         |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 | <b>109.243</b>                |
|             | Average Height (ft.):          | <b>25.0</b>                   |
|             | Mass Failures:                 | <b>One</b>                    |
|             | Average Heigh (ft.):           | <b>25.0</b>                   |
|             | Gullies:                       | <b>One</b>                    |
|             | Number of Gullies              | <b>1</b>                      |
|             | Total Length of Gullies (ft.): | <b>60.0</b>                   |
|             | Average Height of Gullies      | <b>2.0</b>                    |

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



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **M08 -A**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>1,047.4</b> | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>1,506.7</b> | <b>0.0</b>     |
|             | Development Length:            | <b>38.8</b>    | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>434.9</b>   | <b>94.6</b>    |
|             | Erosion Height (ft.):          | <b>8.0</b>     | <b>4.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>410.7</b>   | <b>1,506.0</b> |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>2283</b>    | <b>51</b>      |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>3</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>0</b>                  |
|             | Neck Cutoffs:               | <b>0</b>                  |
|             | Channel Avulsions:          | <b>0</b>                  |
|             | Braiding:                   | <b>0</b>                  |
| 5.3         | Steep Riffles and Head Cuts |                           |
|             | Steep Riffles:              | <b>0</b>                  |
|             | Head Cuts:                  | <b>0</b>                  |
| 5.4         | Animal Crossings:           | <b>No</b>                 |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>3,038.5</b>            |
|             | Dredging:                   | <b>None</b>               |



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **M19 -B**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>3,379.6</b> | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Development Length:            | <b>107.6</b>   | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>20.9</b>    | <b>0.0</b>     |
|             | Erosion Height (ft.):          | <b>6.0</b>     | <b>0.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>833.5</b>   | <b>1,117.4</b> |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>415</b>     | <b>1463</b>    |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

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



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: **M19 -C**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>2,064.0</b> | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Development Length:            | <b>0.0</b>     | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Erosion Height (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>318.6</b>   | <b>48.1</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>272</b>     | <b>475</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

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



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S3.04 -A

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>543.9</b>   | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>1,894.8</b> | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Development Length:            | <b>0.0</b>     | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>101.4</b>   | <b>135.7</b>   |
|             | Erosion Height (ft.):          | <b>3.0</b>     | <b>5.0</b>     |
|             | Revetment Type:                | <b>None</b>    | <b>Rip-Rap</b> |
|             | Revetment length               | <b>0.0</b>     | <b>218.4</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>       | <b>579</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>3</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>0</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>0</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>1,343.8</b>       |
|             | Dredging:                   | <b>None</b>          |



# Stream Geomorphic Assessment

Agency of Natural Resources



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June, 08 2026

## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **M20 -A**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>342.1</b>   | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>1,938.8</b> | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Development Length:            | <b>0.0</b>     | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>0.0</b>     | <b>56.9</b>    |
|             | Erosion Height (ft.):          | <b>0.0</b>     | <b>2.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>1,135.3</b> | <b>270.6</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>1012</b>    | <b>343</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

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



# Stream Geomorphic Assessment

Agency of Natural Resources



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June, 08 2026

## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **T8.01 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>1,488.9</b> | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Development Length:            | <b>0.0</b>     | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>242.1</b>   | <b>0.0</b>     |
|             | Erosion Height (ft.):          | <b>2.0</b>     | <b>0.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>154.2</b>   | <b>321.6</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>694</b>     | <b>390</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>2</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>4</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>1</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>0</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>609.4</b>         |
|             | Dredging:                   | <b>None</b>          |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T7.01 -A

| <u>Step</u> | <u>Description</u>             | <u>Value</u> |              |
|-------------|--------------------------------|--------------|--------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>  |              |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>   | <u>Both</u>  |
|             | Berm Length (ft.):             | <b>0.0</b>   | <b>0.0</b>   |
|             | Path Length (ft.):             | <b>0.0</b>   | <b>0.0</b>   |
|             | Road Length (ft.):             | <b>0.0</b>   | <b>0.0</b>   |
|             | Railroad Lenth (ft.):          | <b>0.0</b>   | <b>0.0</b>   |
|             | Development Length:            | <b>0.0</b>   | <b>0.0</b>   |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>  | <u>Right</u> |
|             | Erosion Length (ft.):          | <b>0.0</b>   | <b>0.0</b>   |
|             | Erosion Height (ft.):          | <b>0.0</b>   | <b>0.0</b>   |
|             | Revetment Type:                | <b>None</b>  | <b>None</b>  |
|             | Revetment length               | <b>0.0</b>   | <b>0.0</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>36</b>    | <b>41</b>    |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              | <b>0</b>     |              |
|             | Total Length of Gullies (ft.): | <b>0.0</b>   |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>6</b>             |
|             | Affected length (ft.):      | <b>1,800.0</b>       |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>0</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>0</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>Yes</b>           |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>84.8</b>          |
|             | Dredging:                   | <b>None</b>          |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: **M13 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                   |
|-------------|--------------------------------|--------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                    |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>         |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Road Length (ft.):             | <b>4,529.8</b> <b>365.9</b>    |
|             | Railroad Lenth (ft.):          | <b>1,674.7</b> <b>0.0</b>      |
|             | Development Length:            | <b>506.0</b> <b>0.0</b>        |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>       |
|             | Erosion Length (ft.):          | <b>495.7</b> <b>625.7</b>      |
|             | Erosion Height (ft.):          | <b>3.7</b> <b>5.2</b>          |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Multiple</b> |
|             | Revetment length               | <b>3,076.2</b> <b>1,027.1</b>  |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>8822</b> <b>3641</b>        |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>       |
|             | Mass Failures:                 | <b>22.96268</b>                |
|             | Average Height (ft.):          | <b>10.0</b>                    |
|             | Mass Failures:                 | <b>One</b>                     |
|             | Average Heigh (ft.):           | <b>10.0</b>                    |
|             | Gullies:                       | <b>None</b>                    |
|             | Number of Gullies              | <b>0</b>                       |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                     |
|             | Average Height of Gullies      |                                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>4</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>2</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>0</b>                  |
|             | Neck Cutoffs:               | <b>0</b>                  |
|             | Channel Avulsions:          | <b>1</b>                  |
|             | Braiding:                   | <b>0</b>                  |
| 5.3         | Steep Riffles and Head Cuts |                           |
|             | Steep Riffles:              | <b>5</b>                  |
|             | Head Cuts:                  | <b>0</b>                  |
| 5.4         | Animal Crossings:           | <b>No</b>                 |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>2,135.6</b>            |
|             | Dredging:                   | <b>None</b>               |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.07 -0

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                   |
|-------------|--------------------------------|--------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                    |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>         |
|             | Berm Length (ft.):             | <b>476.0</b> <b>0.0</b>        |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>          |
|             | Road Length (ft.):             | <b>4,550.8</b> <b>0.0</b>      |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>          |
|             | Development Length:            | <b>707.1</b> <b>0.0</b>        |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>       |
|             | Erosion Length (ft.):          | <b>829.5</b> <b>340.8</b>      |
|             | Erosion Height (ft.):          | <b>7.0</b> <b>6.1</b>          |
|             | Revetment Type:                | <b>Multiple</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>1,061.8</b> <b>71.5</b>     |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>968</b> <b>0</b>            |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>       |
|             | Mass Failures:                 | <b>508.4969</b>                |
|             | Average Height (ft.):          | <b>27.5</b>                    |
|             | Mass Failures:                 | <b>Multiple</b>                |
|             | Average Heigh (ft.):           | <b>28.0</b>                    |
|             | Gullies:                       | <b>None</b>                    |
|             | Number of Gullies              | <b>0</b>                       |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                     |
|             | Average Height of Gullies      |                                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>                       |
|-------------|-----------------------------|------------------------------------|
| 4.4         | Number of Debris Jams:      | <b>5</b>                           |
| 4.5         | Flow Regulation Type:       | <b>None</b>                        |
|             | Use:                        |                                    |
| 4.7         | Stormwater Inputs           |                                    |
|             | Overland Flow               | <b>0</b> Road Ditch <b>1</b>       |
|             | Field Ditch                 | <b>0</b> Tile Drain <b>0</b>       |
|             | Other                       | <b>0</b> Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                           |
|             | Affected length (ft.):      | <b>0.0</b>                         |
| 5.2         | Migration Features          |                                    |
|             | Flood Chutes:               | <b>0</b>                           |
|             | Neck Cutoffs:               | <b>0</b>                           |
|             | Channel Avulsions:          | <b>0</b>                           |
|             | Braiding:                   | <b>0</b>                           |
| 5.3         | Steep Riffles and Head Cuts |                                    |
|             | Steep Riffles:              | <b>3</b>                           |
|             | Head Cuts:                  | <b>0</b>                           |
| 5.4         | Animal Crossings:           | <b>No</b>                          |
| 5.5         | Channel Alterations         |                                    |
|             | Straightening:              | <b>Straightening</b>               |
|             | Length (ft.):               | <b>717.7</b>                       |
|             | Dredging:                   | <b>Dredging</b>                    |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.05 -C

| <u>Step</u> | <u>Description</u>             | <u>Value</u> |                |
|-------------|--------------------------------|--------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>  |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>   | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>0.0</b>   | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>   | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>288.3</b> | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>   | <b>0.0</b>     |
|             | Development Length:            | <b>93.3</b>  | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>  | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>0.0</b>   | <b>0.0</b>     |
|             | Erosion Height (ft.):          | <b>0.0</b>   | <b>0.0</b>     |
|             | Revetment Type:                | <b>None</b>  | <b>Rip-Rap</b> |
|             | Revetment length               | <b>0.0</b>   | <b>17.9</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>     | <b>240</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>  | <u>Right</u>   |
|             | Mass Failures:                 |              |                |
|             | Average Height (ft.):          |              |                |
|             | Mass Failures:                 | <b>None</b>  |                |
|             | Average Heigh (ft.):           |              |                |
|             | Gullies:                       | <b>None</b>  |                |
|             | Number of Gullies              | <b>0</b>     |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>   |                |
|             | Average Height of Gullies      |              |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>0</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>0</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>566.5</b>         |
|             | Dredging:                   | <b>None</b>          |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S2.01 -B

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                   |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>147.4</b> <b>0.0</b>       |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>418.9</b> <b>152.4</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>         |
|             | Development Length:            | <b>731.8</b> <b>441.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>106.4</b> <b>65.2</b>      |
|             | Erosion Height (ft.):          | <b>2.0</b> <b>2.0</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>187.0</b> <b>590.1</b>     |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>130</b> <b>1400</b>        |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 |                               |
|             | Average Height (ft.):          |                               |
|             | Mass Failures:                 | <b>None</b>                   |
|             | Average Heigh (ft.):           |                               |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              | <b>0</b>                      |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                    |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>                       |
|-------------|-----------------------------|------------------------------------|
| 4.4         | Number of Debris Jams:      | <b>1</b>                           |
| 4.5         | Flow Regulation Type:       | <b>None</b>                        |
|             | Use:                        |                                    |
| 4.7         | Stormwater Inputs           |                                    |
|             | Overland Flow               | <b>0</b> Road Ditch <b>0</b>       |
|             | Field Ditch                 | <b>0</b> Tile Drain <b>0</b>       |
|             | Other                       | <b>0</b> Ub Strm Wtr Pipe <b>3</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                           |
|             | Affected length (ft.):      | <b>0.0</b>                         |
| 5.2         | Migration Features          |                                    |
|             | Flood Chutes:               | <b>0</b>                           |
|             | Neck Cutoffs:               | <b>0</b>                           |
|             | Channel Avulsions:          | <b>0</b>                           |
|             | Braiding:                   | <b>0</b>                           |
| 5.3         | Steep Riffles and Head Cuts |                                    |
|             | Steep Riffles:              | <b>0</b>                           |
|             | Head Cuts:                  | <b>0</b>                           |
| 5.4         | Animal Crossings:           | <b>No</b>                          |
| 5.5         | Channel Alterations         |                                    |
|             | Straightening:              | <b>Straightening</b>               |
|             | Length (ft.):               | <b>1,251.2</b>                     |
|             | Dredging:                   | <b>None</b>                        |



# Stream Geomorphic Assessment

Agency of Natural Resources



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **M10 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                   |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Railroad Lenth (ft.):          | <b>6,007.2</b> <b>0.0</b>     |
|             | Development Length:            | <b>81.1</b> <b>0.0</b>        |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>453.8</b> <b>451.6</b>     |
|             | Erosion Height (ft.):          | <b>3.0</b> <b>11.8</b>        |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>131.0</b> <b>4,260.7</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>493</b> <b>2924</b>        |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 | <b>69.25397</b>               |
|             | Average Height (ft.):          | <b>20.0</b>                   |
|             | Mass Failures:                 | <b>One</b>                    |
|             | Average Heigh (ft.):           | <b>20.0</b>                   |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              | <b>0</b>                      |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                    |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>                       |
|-------------|-----------------------------|------------------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                           |
| 4.5         | Flow Regulation Type:       | <b>None</b>                        |
|             | Use:                        |                                    |
| 4.7         | Stormwater Inputs           |                                    |
|             | Overland Flow               | <b>0</b> Road Ditch <b>1</b>       |
|             | Field Ditch                 | <b>0</b> Tile Drain <b>0</b>       |
|             | Other                       | <b>0</b> Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                           |
|             | Affected length (ft.):      | <b>0.0</b>                         |
| 5.2         | Migration Features          |                                    |
|             | Flood Chutes:               | <b>5</b>                           |
|             | Neck Cutoffs:               | <b>0</b>                           |
|             | Channel Avulsions:          | <b>0</b>                           |
|             | Braiding:                   | <b>0</b>                           |
| 5.3         | Steep Riffles and Head Cuts |                                    |
|             | Steep Riffles:              | <b>3</b>                           |
|             | Head Cuts:                  | <b>0</b>                           |
| 5.4         | Animal Crossings:           | <b>No</b>                          |
| 5.5         | Channel Alterations         |                                    |
|             | Straightening:              | <b>Straightening</b>               |
|             | Length (ft.):               | <b>3,942.1</b>                     |
|             | Dredging:                   | <b>Dredging</b>                    |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: M17 -0

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>279.7</b>   | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>1,658.9</b> | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>785.6</b>   | <b>0.0</b>     |
|             | Development Length:            | <b>1,098.3</b> | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>0.0</b>     | <b>75.1</b>    |
|             | Erosion Height (ft.):          | <b>0.0</b>     | <b>3.6</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>941.0</b>   | <b>2,045.2</b> |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>982</b>     | <b>1173</b>    |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>5</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | <b>0</b>             |
|             | Road Ditch                  | <b>2</b>             |
|             | Field Ditch                 | <b>0</b>             |
|             | Tile Drain                  | <b>0</b>             |
|             | Other                       | <b>0</b>             |
|             | Ub Strm Wtr Pipe            | <b>0</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>0</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>5</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>1,076.7</b>       |
|             | Dredging:                   | <b>None</b>          |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: M17 -0

| Step | Description                    | Value           |
|------|--------------------------------|-----------------|
| 1.2  | Alluvial Fan:                  | None            |
| 1.3  | Encroachments - Side           | One Both        |
|      | Berm Length (ft.):             | 279.7 0.0       |
|      | Path Length (ft.):             | 0.0 0.0         |
|      | Road Length (ft.):             | 1,658.9 0.0     |
|      | Railroad Lenth (ft.):          | 785.6 0.0       |
|      | Development Length:            | 1,098.3 0.0     |
| 3.1  | Erosion - Bank                 | Left Right      |
|      | Erosion Length (ft.):          | 0.0 75.1        |
|      | Erosion Height (ft.):          | 0.0 3.6         |
|      | Revetment Type:                | Rip-Rap Rip-Rap |
|      | Revetment length               | 941.0 2,045.2   |
| 3.2  | Buffer Less Than 25 ft.        | 982 1173        |
| 3.3  | Riparian Corridor              | Left Right      |
|      | Mass Failures:                 |                 |
|      | Average Height (ft.):          |                 |
|      | Mass Failures:                 | None            |
|      | Average Heigh (ft.):           |                 |
|      | Gullies:                       | None            |
|      | Number of Gullies              | 0               |
|      | Total Length of Gullies (ft.): | 0.0             |
|      | Average Height of Gullies      |                 |

| Step | Description                 | Value              |
|------|-----------------------------|--------------------|
| 4.4  | Number of Debris Jams:      | 5                  |
| 4.5  | Flow Regulation Type:       | None               |
|      | Use:                        |                    |
| 4.7  | Stormwater Inputs           |                    |
|      | Overland Flow 0             | Road Ditch 0       |
|      | Field Ditch 0               | Tile Drain 0       |
|      | Other 0                     | Ub Strm Wtr Pipe 1 |
| 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:              | 5                  |
|      | Head Cuts:                  | 0                  |
| 5.4  | Animal Crossings:           | No                 |
| 5.5  | Channel Alterations         |                    |
|      | Straightening:              | Straightening      |
|      | Length (ft.):               | 1,076.7            |
|      | Dredging:                   | None               |



# Stream Geomorphic Assessment

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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **M11 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                   |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>1,407.2</b> <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>4,959.8</b> <b>0.0</b>     |
|             | Development Length:            | <b>629.5</b> <b>0.0</b>       |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>101.3</b> <b>201.9</b>     |
|             | Erosion Height (ft.):          | <b>3.0</b> <b>8.5</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>1,298.1</b> <b>1,331.9</b> |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>3065</b> <b>2544</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 | <b>106.9292</b>               |
|             | Average Height (ft.):          | <b>30.0</b>                   |
|             | Mass Failures:                 | <b>One</b>                    |
|             | Average Heigh (ft.):           | <b>30.0</b>                   |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              | <b>0</b>                      |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                    |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>3</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>3</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>1</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>3</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>4,734.7</b>       |
|             | Dredging:                   | <b>Dredging</b>      |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S3.a.01 -0

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                    |
|-------------|--------------------------------|---------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                     |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>          |
|             | Berm Length (ft.):             | <b>72.4</b> <b>0.0</b>          |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>           |
|             | Road Length (ft.):             | <b>3,631.2</b> <b>0.0</b>       |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>           |
|             | Development Length:            | <b>449.1</b> <b>0.0</b>         |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>        |
|             | Erosion Length (ft.):          | <b>304.2</b> <b>816.7</b>       |
|             | Erosion Height (ft.):          | <b>5.4</b> <b>6.5</b>           |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b>   |
|             | Revetment length               | <b>913.8</b> <b>151.9</b>       |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>1064</b> <b>562</b>          |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>        |
|             | Mass Failures:                 | <b>150.9172</b> <b>337.0168</b> |
|             | Average Height (ft.):          | <b>17.7</b> <b>14.1</b>         |
|             | Mass Failures:                 | <b>Multiple</b>                 |
|             | Average Heigh (ft.):           | <b>16.7</b>                     |
|             | Gullies:                       | <b>None</b>                     |
|             | Number of Gullies              | <b>0</b>                        |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                      |
|             | Average Height of Gullies      |                                 |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>                       |
|-------------|-----------------------------|------------------------------------|
| 4.4         | Number of Debris Jams:      | <b>16</b>                          |
| 4.5         | Flow Regulation Type:       | <b>None</b>                        |
|             | Use:                        |                                    |
| 4.7         | Stormwater Inputs           |                                    |
|             | Overland Flow               | <b>0</b> Road Ditch <b>0</b>       |
|             | Field Ditch                 | <b>1</b> Tile Drain <b>0</b>       |
|             | Other                       | <b>0</b> Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                           |
|             | Affected length (ft.):      | <b>0.0</b>                         |
| 5.2         | Migration Features          |                                    |
|             | Flood Chutes:               | <b>1</b>                           |
|             | Neck Cutoffs:               | <b>0</b>                           |
|             | Channel Avulsions:          | <b>0</b>                           |
|             | Braiding:                   | <b>0</b>                           |
| 5.3         | Steep Riffles and Head Cuts |                                    |
|             | Steep Riffles:              | <b>4</b>                           |
|             | Head Cuts:                  | <b>0</b>                           |
| 5.4         | Animal Crossings:           | <b>Yes</b>                         |
| 5.5         | Channel Alterations         |                                    |
|             | Straightening:              | <b>None</b>                        |
|             | Length (ft.):               | <b>0.0</b>                         |
|             | Dredging:                   | <b>None</b>                        |



# Stream Geomorphic Assessment

Agency of Natural Resources



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **M18 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |                |
|-------------|--------------------------------|----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>577.3</b>   | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>772.7</b>   | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Development Length:            | <b>929.5</b>   | <b>173.8</b>   |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Erosion Height (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>79.3</b>    | <b>1,209.1</b> |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>898</b>     | <b>560</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              | <b>0</b>       |                |
|             | Total Length of Gullies (ft.): | <b>0.0</b>     |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>0</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>0</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>Yes</b>           |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>499.8</b>         |
|             | Dredging:                   | <b>Dredging</b>      |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.03 -0

| Step | Description                    | Value           |
|------|--------------------------------|-----------------|
| 1.2  | Alluvial Fan:                  | None            |
| 1.3  | Encroachments - Side           | One Both        |
|      | Berm Length (ft.):             | 416.3 0.0       |
|      | Path Length (ft.):             | 0.0 0.0         |
|      | Road Length (ft.):             | 3,942.7 0.0     |
|      | Railroad Lenth (ft.):          | 0.0 0.0         |
|      | Development Length:            | 923.7 0.0       |
| 3.1  | Erosion - Bank                 | Left Right      |
|      | Erosion Length (ft.):          | 1,654.0 1,258.8 |
|      | Erosion Height (ft.):          | 8.1 6.5         |
|      | Revetment Type:                | Rip-Rap Rip-Rap |
|      | Revetment length               | 2,073.1 30.2    |
| 3.2  | Buffer Less Than 25 ft.        | 2563 279        |
| 3.3  | Riparian Corridor              | Left Right      |
|      | Mass Failures:                 | 241.1128        |
|      | Average Height (ft.):          | 36.4            |
|      | Mass Failures:                 | Multiple        |
|      | Average Heigh (ft.):           | 47.5            |
|      | Gullies:                       | None            |
|      | Number of Gullies              | 0               |
|      | Total Length of Gullies (ft.): | 0.0             |
|      | Average Height of Gullies      |                 |

| Step | Description                 | Value              |
|------|-----------------------------|--------------------|
| 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 0                     | Ub Strm Wtr Pipe 1 |
| 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:              | 2                  |
|      | Head Cuts:                  | 0                  |
| 5.4  | Animal Crossings:           | No                 |
| 5.5  | Channel Alterations         |                    |
|      | Straightening:              | Straightening      |
|      | Length (ft.):               | 1,141.8            |
|      | Dredging:                   | Dredging           |



# Stream Geomorphic Assessment

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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **M21 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                   |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>306.3</b> <b>0.0</b>       |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>6,415.4</b> <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>         |
|             | Development Length:            | <b>664.5</b> <b>0.0</b>       |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>275.9</b> <b>142.1</b>     |
|             | Erosion Height (ft.):          | <b>3.6</b> <b>4.0</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>2,462.5</b> <b>42.9</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>3540</b> <b>139</b>        |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 | <b>52.09431</b>               |
|             | Average Height (ft.):          | <b>30.0</b>                   |
|             | Mass Failures:                 | <b>One</b>                    |
|             | Average Heigh (ft.):           | <b>30.0</b>                   |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              | <b>0</b>                      |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                    |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>2</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>7</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>2</b>                  |
|             | Neck Cutoffs:               | <b>0</b>                  |
|             | Channel Avulsions:          | <b>1</b>                  |
|             | Braiding:                   | <b>0</b>                  |
| 5.3         | Steep Riffles and Head Cuts |                           |
|             | Steep Riffles:              | <b>3</b>                  |
|             | Head Cuts:                  | <b>0</b>                  |
| 5.4         | Animal Crossings:           | <b>Yes</b>                |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>637.1</b>              |
|             | Dredging:                   | <b>None</b>               |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.02 -0

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                   |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>398.9</b> <b>0.0</b>       |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>2,510.8</b> <b>437.1</b>   |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>         |
|             | Development Length:            | <b>4,454.5</b> <b>1,080.7</b> |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>1,905.2</b> <b>1,390.2</b> |
|             | Erosion Height (ft.):          | <b>11.1</b> <b>5.5</b>        |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>1,473.7</b> <b>855.2</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>589</b> <b>928</b>         |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 | <b>244.243</b>                |
|             | Average Height (ft.):          | <b>37.1</b>                   |
|             | Mass Failures:                 | <b>Multiple</b>               |
|             | Average Heigh (ft.):           | <b>37.5</b>                   |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              | <b>0</b>                      |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                    |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>                       |
|-------------|-----------------------------|------------------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                           |
| 4.5         | Flow Regulation Type:       | <b>None</b>                        |
|             | Use:                        |                                    |
| 4.7         | Stormwater Inputs           |                                    |
|             | Overland Flow               | <b>0</b> Road Ditch <b>4</b>       |
|             | Field Ditch                 | <b>0</b> Tile Drain <b>0</b>       |
|             | Other                       | <b>0</b> Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                           |
|             | Affected length (ft.):      | <b>0.0</b>                         |
| 5.2         | Migration Features          |                                    |
|             | Flood Chutes:               | <b>0</b>                           |
|             | Neck Cutoffs:               | <b>0</b>                           |
|             | Channel Avulsions:          | <b>0</b>                           |
|             | Braiding:                   | <b>0</b>                           |
| 5.3         | Steep Riffles and Head Cuts |                                    |
|             | Steep Riffles:              | <b>0</b>                           |
|             | Head Cuts:                  | <b>0</b>                           |
| 5.4         | Animal Crossings:           | <b>No</b>                          |
| 5.5         | Channel Alterations         |                                    |
|             | Straightening:              | <b>Straightening</b>               |
|             | Length (ft.):               | <b>3,676.0</b>                     |
|             | Dredging:                   | <b>Dredging</b>                    |



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **M12 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                   |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>3,112.8</b> <b>371.5</b>   |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>         |
|             | Development Length:            | <b>2,065.9</b> <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>132.9</b> <b>98.6</b>      |
|             | Erosion Height (ft.):          | <b>6.1</b> <b>4.3</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>1,554.4</b> <b>1,697.3</b> |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>4745</b> <b>1105</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 |                               |
|             | Average Height (ft.):          |                               |
|             | Mass Failures:                 | <b>None</b>                   |
|             | Average Heigh (ft.):           |                               |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              | <b>0</b>                      |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                    |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>1</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>1</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>0</b>                  |
|             | Neck Cutoffs:               | <b>0</b>                  |
|             | Channel Avulsions:          | <b>0</b>                  |
|             | Braiding:                   | <b>0</b>                  |
| 5.3         | Steep Riffles and Head Cuts |                           |
|             | Steep Riffles:              | <b>1</b>                  |
|             | Head Cuts:                  | <b>0</b>                  |
| 5.4         | Animal Crossings:           | <b>No</b>                 |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>1,935.1</b>            |
|             | Dredging:                   | <b>Dredging</b>           |



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## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **T5.S3.b.01 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>Yes</b>                    |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>926.2</b> <b>0.0</b>       |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>3,304.4</b> <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>         |
|             | Development Length:            | <b>679.5</b> <b>0.0</b>       |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>0.0</b> <b>109.3</b>       |
|             | Erosion Height (ft.):          | <b>0.0</b> <b>7.5</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>1,490.9</b> <b>89.8</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>2477</b> <b>0</b>          |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 | <b>145.8748</b>               |
|             | Average Height (ft.):          | <b>17.6</b>                   |
|             | Mass Failures:                 | <b>Multiple</b>               |
|             | Average Heigh (ft.):           | <b>16.7</b>                   |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              | <b>0</b>                      |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                    |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>                       |
|-------------|-----------------------------|------------------------------------|
| 4.4         | Number of Debris Jams:      | <b>6</b>                           |
| 4.5         | Flow Regulation Type:       | <b>None</b>                        |
|             | Use:                        |                                    |
| 4.7         | Stormwater Inputs           |                                    |
|             | Overland Flow               | <b>0</b> Road Ditch <b>1</b>       |
|             | Field Ditch                 | <b>0</b> Tile Drain <b>0</b>       |
|             | Other                       | <b>0</b> Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                           |
|             | Affected length (ft.):      | <b>0.0</b>                         |
| 5.2         | Migration Features          |                                    |
|             | Flood Chutes:               | <b>0</b>                           |
|             | Neck Cutoffs:               | <b>0</b>                           |
|             | Channel Avulsions:          | <b>0</b>                           |
|             | Braiding:                   | <b>0</b>                           |
| 5.3         | Steep Riffles and Head Cuts |                                    |
|             | Steep Riffles:              | <b>1</b>                           |
|             | Head Cuts:                  | <b>0</b>                           |
| 5.4         | Animal Crossings:           | <b>No</b>                          |
| 5.5         | Channel Alterations         |                                    |
|             | Straightening:              | <b>With Windrowing</b>             |
|             | Length (ft.):               | <b>1,651.2</b>                     |
|             | Dredging:                   | <b>Dredging</b>                    |



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Williams River

SGAT Version: 4.56

Reach: T5.S3.05 -A

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>Yes</b>                    |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>54.0</b> <b>48.2</b>       |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>1,151.0</b> <b>378.9</b>   |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>         |
|             | Development Length:            | <b>1,158.5</b> <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>0.0</b> <b>202.6</b>       |
|             | Erosion Height (ft.):          | <b>0.0</b> <b>2.5</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>266.1</b> <b>695.0</b>     |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b> <b>1320</b>          |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 |                               |
|             | Average Height (ft.):          |                               |
|             | Mass Failures:                 | <b>None</b>                   |
|             | Average Heigh (ft.):           |                               |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              | <b>0</b>                      |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                    |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>                       |
|-------------|-----------------------------|------------------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                           |
| 4.5         | Flow Regulation Type:       | <b>None</b>                        |
|             | Use:                        |                                    |
| 4.7         | Stormwater Inputs           |                                    |
|             | Overland Flow               | <b>0</b> Road Ditch <b>1</b>       |
|             | Field Ditch                 | <b>0</b> Tile Drain <b>0</b>       |
|             | Other                       | <b>0</b> Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                           |
|             | Affected length (ft.):      | <b>0.0</b>                         |
| 5.2         | Migration Features          |                                    |
|             | Flood Chutes:               | <b>2</b>                           |
|             | Neck Cutoffs:               | <b>0</b>                           |
|             | Channel Avulsions:          | <b>0</b>                           |
|             | Braiding:                   | <b>0</b>                           |
| 5.3         | Steep Riffles and Head Cuts |                                    |
|             | Steep Riffles:              | <b>0</b>                           |
|             | Head Cuts:                  | <b>0</b>                           |
| 5.4         | Animal Crossings:           | <b>No</b>                          |
| 5.5         | Channel Alterations         |                                    |
|             | Straightening:              | <b>Straightening</b>               |
|             | Length (ft.):               | <b>1,157.0</b>                     |
|             | Dredging:                   | <b>Dredging</b>                    |



Phase 2 - FIT - Legacy Data Report

Williams River

SGAT Version: 4.56

Reach: T5.S1.02 -0

| <u>Step</u> | <u>Description</u>             | <u>Value</u>                  |
|-------------|--------------------------------|-------------------------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>                   |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>        |
|             | Berm Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>2,170.9</b> <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>         |
|             | Development Length:            | <b>186.0</b> <b>305.6</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>1,022.5</b> <b>62.0</b>    |
|             | Erosion Height (ft.):          | <b>4.2</b> <b>5.0</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>293.6</b> <b>286.8</b>     |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>868</b> <b>373</b>         |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 | <b>147.6574</b> <b>304.48</b> |
|             | Average Height (ft.):          | <b>20.0</b> <b>32.8</b>       |
|             | Mass Failures:                 | <b>Multiple</b>               |
|             | Average Heigh (ft.):           | <b>25.0</b>                   |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              | <b>0</b>                      |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                    |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>4</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>3</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>1</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>3</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>757.1</b>         |
|             | Dredging:                   | <b>Dredging</b>      |



# Stream Geomorphic Assessment

Agency of Natural Resources



Vermont.gov  
June, 08 2026

## Phase 2 - FIT - Legacy Data Report

## Williams River

SGAT Version: **4.56**

Reach: **M22 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>               |
|-------------|--------------------------------|----------------------------|
| 1.2         | Alluvial Fan:                  | <b>Yes</b>                 |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u> <u>Both</u>     |
|             | Berm Length (ft.):             | <b>495.7</b> <b>0.0</b>    |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>      |
|             | Road Length (ft.):             | <b>0.0</b> <b>0.0</b>      |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>      |
|             | Development Length:            | <b>77.5</b> <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>55.2</b> <b>55.6</b>    |
|             | Erosion Height (ft.):          | <b>8.0</b> <b>8.0</b>      |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>None</b> |
|             | Revetment length               | <b>183.8</b> <b>0.0</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>172</b> <b>0</b>        |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>   |
|             | Mass Failures:                 | <b>41.38082</b>            |
|             | Average Height (ft.):          | <b>15.0</b>                |
|             | Mass Failures:                 | <b>One</b>                 |
|             | Average Heigh (ft.):           | <b>15.0</b>                |
|             | Gullies:                       | <b>None</b>                |
|             | Number of Gullies              | <b>0</b>                   |
|             | Total Length of Gullies (ft.): | <b>0.0</b>                 |
|             | Average Height of Gullies      |                            |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>4</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>1</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>7</b>                  |
|             | Neck Cutoffs:               | <b>0</b>                  |
|             | Channel Avulsions:          | <b>1</b>                  |
|             | Braiding:                   | <b>0</b>                  |
| 5.3         | Steep Riffles and Head Cuts |                           |
|             | Steep Riffles:              | <b>1</b>                  |
|             | Head Cuts:                  | <b>1</b>                  |
| 5.4         | Animal Crossings:           | <b>No</b>                 |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>None</b>               |
|             | Length (ft.):               | <b>0.0</b>                |
|             | Dredging:                   | <b>None</b>               |