



Phase 2 - FIT - Legacy Data Report

Mettowee - Indian River

SGAT Version: 4.53

Reach: **MNY10T1.08 -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>143.7</b>    |
|             | Path Length (ft.):             | <b>0.0</b>      | <b>0.0</b>      |
|             | Road Length (ft.):             | <b>665.6</b>    | <b>0.0</b>      |
|             | Railroad Lenth (ft.):          | <b>1,839.2</b>  | <b>0.0</b>      |
|             | Development Length:            | <b>0.0</b>      | <b>135.6</b>    |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>     | <u>Right</u>    |
|             | Erosion Length (ft.):          | <b>1,090.6</b>  | <b>353.6</b>    |
|             | Erosion Height (ft.):          | <b>3.3</b>      | <b>3.5</b>      |
|             | Revetment Type:                | <b>Multiple</b> | <b>Multiple</b> |
|             | Revetment length:              | <b>592.6</b>    | <b>1,428.3</b>  |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |                 |                 |
| 3.3         | <u>Riparian Corridor</u>       |                 |                 |
|             | Mass Failures:                 | <b>None</b>     |                 |
|             | Average Height (ft.):          |                 |                 |
|             | Gullies:                       | <b>None</b>     |                 |
|             | Average Height (ft.):          |                 |                 |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>1</b>             |
| 4.7         | Stormwater Inputs           | <b>0</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length:            | <b>0</b>             |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>9</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> |
|             | Dredging:                   | <b>None</b>          |



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Reach: **MNY10T1.07 -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>197.2</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>357.2</b>   | <b>701.6</b>   |
|             | Erosion Height (ft.):          | <b>1.1</b>     | <b>2.7</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length:              | <b>92.8</b>    | <b>168.2</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |                |                |
| 3.3         | <u>Riparian Corridor</u>       |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>2</b>             |
| 4.7         | Stormwater Inputs           | <b>0</b>             |
| 4.9         | Beaver Dams:                | <b>1</b>             |
|             | Affected length:            | <b>5</b>             |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>8</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> |
|             | Dredging:                   | <b>None</b>          |



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Reach: **MNY10T1.07 -D**

| <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>6.1</b>     |
|             | Erosion Height (ft.):          | <b>0.0</b>   | <b>3.0</b>     |
|             | Revetment Type:                | <b>None</b>  | <b>Rip-Rap</b> |
|             | Revetment length:              | <b>0.0</b>   | <b>202.5</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |              |                |
| 3.3         | <u>Riparian Corridor</u>       |              |                |
|             | Mass Failures:                 | <b>None</b>  |                |
|             | Average Height (ft.):          |              |                |
|             | Gullies:                       | <b>None</b>  |                |
|             | Average Height (ft.):          |              |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.7         | Stormwater Inputs           | <b>0</b>             |
| 4.9         | Beaver Dams:                | <b>3</b>             |
|             | Affected length:            | <b>1000</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>1</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Dredging:                   | <b>None</b>          |



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Reach: **MNY10T1.09 -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>330.0</b>    | <b>0.0</b>     |
|             | Development Length:            | <b>84.2</b>     | <b>46.5</b>    |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>     | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>200.0</b>    | <b>125.1</b>   |
|             | Erosion Height (ft.):          | <b>2.6</b>      | <b>2.2</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b>  | <b>Rip-Rap</b> |
|             | Revetment length:              | <b>42.7</b>     | <b>110.7</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |                 |                |
| 3.3         | <u>Riparian Corridor</u>       |                 |                |
|             | Mass Failures:                 | <b>Multiple</b> |                |
|             | Average Height (ft.):          | <b>8.0</b>      |                |
|             | Gullies:                       | <b>None</b>     |                |
|             | Average Height (ft.):          |                 |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>7</b>             |
| 4.7         | Stormwater Inputs           | <b>1</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length:            | <b>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>0</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Dredging:                   | <b>None</b>          |



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Reach: **MNY10T1.11 -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>98.9</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>116.1</b>   |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>210.6</b>   | <b>92.8</b>    |
|             | Erosion Height (ft.):          | <b>2.6</b>     | <b>2.4</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length:              | <b>250.7</b>   | <b>217.8</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |                |                |
| 3.3         | <u>Riparian Corridor</u>       |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>2</b>             |
| 4.7         | Stormwater Inputs           | <b>0</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length:            | <b>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>1</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Dredging:                   | <b>None</b>          |



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Reach: **MNY10T1.10 -B**

| <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>799.3</b>   | <b>77.0</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>23.1</b>    | <b>73.9</b>    |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>797.3</b>   | <b>608.9</b>   |
|             | Erosion Height (ft.):          | <b>1.6</b>     | <b>1.2</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length:              | <b>884.9</b>   | <b>336.4</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |                |                |
| 3.3         | <u>Riparian Corridor</u>       |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.7         | Stormwater Inputs           | <b>1</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length:            | <b>0</b>             |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>6</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>4</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>Yes</b>           |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Dredging:                   | <b>None</b>          |



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Reach: **MNY10T1.09 -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>927.0</b> <b>0.0</b>       |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>221.1</b> <b>0.0</b>       |
|             | Railroad Lenth (ft.):          | <b>1,663.4</b> <b>0.0</b>     |
|             | Development Length:            | <b>87.9</b> <b>33.3</b>       |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>47.7</b> <b>47.9</b>       |
|             | Erosion Height (ft.):          | <b>2.0</b> <b>2.5</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length:              | <b>748.9</b> <b>1,161.5</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |                               |
| 3.3         | <u>Riparian Corridor</u>       |                               |
|             | Mass Failures:                 | <b>None</b>                   |
|             | Average Height (ft.):          |                               |
|             | Gullies:                       | <b>None</b>                   |
|             | Average Height (ft.):          |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>10</b>            |
| 4.7         | Stormwater Inputs           | <b>2</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length:            | <b>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>1</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>Yes</b>           |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Dredging:                   | <b>Dredging</b>      |



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Reach: **MNY10T1.08 -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>737.3</b>   | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>966.5</b>   | <b>216.0</b>   |
|             | Railroad Lenth (ft.):          | <b>173.6</b>   | <b>0.0</b>     |
|             | Development Length:            | <b>208.1</b>   | <b>253.1</b>   |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>177.0</b>   | <b>175.2</b>   |
|             | Erosion Height (ft.):          | <b>2.5</b>     | <b>2.2</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length:              | <b>496.0</b>   | <b>2,145.9</b> |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |                |                |
| 3.3         | <u>Riparian Corridor</u>       |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>3</b>             |
| 4.7         | Stormwater Inputs           | <b>2</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length:            | <b>0</b>             |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>6</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> |
|             | Dredging:                   | <b>None</b>          |





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Reach: **MNY10T1.10 -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>115.5</b>   | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>54.7</b>    | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>0.0</b>     | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>1,412.5</b> | <b>0.0</b>     |
|             | Development Length:            | <b>0.0</b>     | <b>61.3</b>    |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>0.0</b>     | <b>118.7</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>30.8</b>    | <b>211.3</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |                |                |
| 3.3         | <u>Riparian Corridor</u>       |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.7         | Stormwater Inputs           | <b>1</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length:            | <b>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>3</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>Yes</b>           |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Dredging:                   | <b>None</b>          |



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Reach: **MNY10T1.07 -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>1,430.4</b> | <b>0.0</b>     |
|             | Development Length:            | <b>0.0</b>     | <b>59.9</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>368.4</b>   | <b>1,430.4</b> |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |                |                |
| 3.3         | <u>Riparian Corridor</u>       |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>    |
|-------------|-----------------------------|-----------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>        |
| 4.7         | Stormwater Inputs           | <b>0</b>        |
| 4.9         | Beaver Dams:                | <b>0</b>        |
|             | Affected length:            | <b>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>0</b>        |
|             | Head Cuts:                  | <b>0</b>        |
| 5.4         | Animal Crossings:           | <b>No</b>       |
| 5.5         | Channel Alterations         |                 |
|             | Straightening:              | <b>None</b>     |
|             | Dredging:                   | <b>Dredging</b> |



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Reach: **MNY10T1.07 -E**

| <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>161.6</b> <b>0.0</b>       |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>342.4</b> <b>0.0</b>       |
|             | Railroad Lenth (ft.):          | <b>4,695.7</b> <b>0.0</b>     |
|             | Development Length:            | <b>116.9</b> <b>158.7</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>1,101.8</b> <b>321.9</b>   |
|             | Erosion Height (ft.):          | <b>3.4</b> <b>3.6</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length:              | <b>831.4</b> <b>3,802.2</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |                               |
| 3.3         | <u>Riparian Corridor</u>       |                               |
|             | Mass Failures:                 | <b>None</b>                   |
|             | Average Height (ft.):          |                               |
|             | Gullies:                       | <b>None</b>                   |
|             | Average Height (ft.):          |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>6</b>             |
| 4.7         | Stormwater Inputs           | <b>0</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length:            | <b>0</b>             |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>6</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> |
|             | Dredging:                   | <b>Dredging</b>      |



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Reach: **MNY10T1.07 -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>1,237.4</b> | <b>0.0</b>     |
|             | Development Length:            | <b>0.0</b>     | <b>24.2</b>    |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>248.5</b>   | <b>297.3</b>   |
|             | Erosion Height (ft.):          | <b>3.5</b>     | <b>3.7</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length:              | <b>55.9</b>    | <b>164.9</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |                |                |
| 3.3         | <u>Riparian Corridor</u>       |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u> |
|-------------|-----------------------------|--------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>     |
| 4.7         | Stormwater Inputs           | <b>0</b>     |
| 4.9         | Beaver Dams:                | <b>0</b>     |
|             | Affected length:            | <b>0</b>     |
| 5.2         | Migration Features          |              |
|             | Flood Chutes:               | <b>0</b>     |
|             | Neck Cutoffs:               | <b>1</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>Yes</b>   |
| 5.5         | Channel Alterations         |              |
|             | Straightening:              | <b>None</b>  |
|             | Dredging:                   | <b>None</b>  |



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Reach: **MNY10T1.09 -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>0.0</b>     | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>709.9</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>65.0</b>    | <b>0.0</b>     |
|             | Erosion Height (ft.):          | <b>4.0</b>     | <b>0.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length:              | <b>65.7</b>    | <b>459.2</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |                |                |
| 3.3         | <u>Riparian Corridor</u>       |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Average Height (ft.):          |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u> |
|-------------|-----------------------------|--------------|
| 4.4         | Number of Debris Jams:      | <b>2</b>     |
| 4.7         | Stormwater Inputs           | <b>0</b>     |
| 4.9         | Beaver Dams:                | <b>0</b>     |
|             | Affected length:            | <b>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>  |
|             | Dredging:                   | <b>None</b>  |



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Reach: **MNY10T1.11 -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>66.7</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>0.0</b>     | <b>0.0</b>   |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u> |
|             | Erosion Length (ft.):          | <b>37.3</b>    | <b>36.8</b>  |
|             | Erosion Height (ft.):          | <b>2.0</b>     | <b>2.0</b>   |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>None</b>  |
|             | Revetment length:              | <b>64.2</b>    | <b>0.0</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |                |              |
| 3.3         | <u>Riparian Corridor</u>       |                |              |
|             | Mass Failures:                 | <b>None</b>    |              |
|             | Average Height (ft.):          |                |              |
|             | Gullies:                       | <b>None</b>    |              |
|             | Average Height (ft.):          |                |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.7         | Stormwater Inputs           | <b>0</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length:            | <b>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>0</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Dredging:                   | <b>None</b>          |