



# Stream Geomorphic Assessment

Agency of Natural Resources



Vermont.gov  
July, 17 2024

## Phase 2 - FIT - Legacy Data Report

## Foote Brook

SGAT Version: **4.56**

Reach: **R13S0303 -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>103.7</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>0.0</b>   | <b>60.7</b>    |
|             | Erosion Height (ft.):          | <b>0.0</b>   | <b>5.0</b>     |
|             | Revetment Type:                | <b>None</b>  | <b>Rip-Rap</b> |
|             | Revetment length               | <b>0.0</b>   | <b>53.2</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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SGAT Version: **4.56**

Reach: **R13S0301 -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>63.5</b>  | <b>177.7</b> |
|             | Erosion Height (ft.):          | <b>4.0</b>   | <b>4.9</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>51.91</b> |              |
|             | Average Height (ft.):          | <b>35.0</b>  |              |
|             | Mass Failures:                 | <b>One</b>   |              |
|             | Average Heigh (ft.):           | <b>35.0</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               | 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>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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Reach: **R13S0302 -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>64.5</b> <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>      |
|             | Development Length:            | <b>58.9</b> <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>80.6</b> <b>0.0</b>     |
|             | Erosion Height (ft.):          | <b>6.0</b> <b>0.0</b>      |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>None</b> |
|             | Revetment length               | <b>109.8</b> <b>0.0</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>69</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>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> |
|             | Length (ft.):               | <b>33.2</b>          |
|             | Dredging:                   | <b>None</b>          |



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Reach: **R13S0304 -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>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>59.3</b>  |
|             | Erosion Height (ft.):          | <b>0.0</b>   | <b>4.0</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>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>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>None</b>      |
|             | Length (ft.):               | <b>0.0</b>       |
|             | Dredging:                   | <b>None</b>      |



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## Foote Brook

SGAT Version: **4.56**

Reach: **R13S0301 -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>222.6</b>    | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>      | <b>0.0</b>     |
|             | Development Length:            | <b>136.9</b>    | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>     | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>27.5</b>     | <b>294.1</b>   |
|             | Erosion Height (ft.):          | <b>4.0</b>      | <b>3.6</b>     |
|             | Revetment Type:                | <b>Multiple</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>483.6</b>    | <b>87.6</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>104</b>      | <b>98</b>      |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>     | <u>Right</u>   |
|             | Mass Failures:                 | <b>72.2</b>     |                |
|             | Average Height (ft.):          | <b>40.0</b>     |                |
|             | Mass Failures:                 | <b>One</b>      |                |
|             | Average Heigh (ft.):           | <b>40.0</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               | 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>2</b>             |
|             | Head Cuts:                  | <b>1</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>543.4</b>         |
|             | Dredging:                   | <b>None</b>          |



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SGAT Version: **4.56**

Reach: **R13S0301 -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>71.2</b>  | <b>0.0</b>   |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>  | <u>Right</u> |
|             | Erosion Length (ft.):          | <b>153.0</b> | <b>84.7</b>  |
|             | Erosion Height (ft.):          | <b>4.3</b>   | <b>3.0</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>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>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>  |