

Owasco Lake Watershed 2017 Roadside Ditch Assessment



The information included in this assessment was collected between late June and early July 2017. It reflects only a percentage of roadway ditches throughout the watershed that have been recently cleaned and have no visible management practices and/or have not been re-vegetated. The Inspection Program will continue to monitor these ditch segments for stabilization while others are being identified. Ditches that have been disturbed during 2017 and are experiencing erosion due to high water velocities and instability will also be scrutinized.

The goal of this effort is to provide awareness to each town, county, and state jurisdiction, throughout the watershed, to:

1. Ascertain the total linear mileage of exposed/eroding ditches,
2. Encourage each jurisdiction to perform good housekeeping on roadside conveyance systems, and
3. Reduce sediment and nutrient loads to Owasco Lake

Criteria for Ranking Sites

Direct

Connection or proximity to a stream

Percent Vegetation

0-25%

26-50%

51-75%

76-100%

Level of erodibility

High

Moderate

Low

Bank slope

Steep Grade

Moderate Grade

Flat

Linear footage of ditch

≥401 ft

201-400 ft

≤200 ft

Points

10

15

10

5

1

10

5

1

10

5

1

15

10

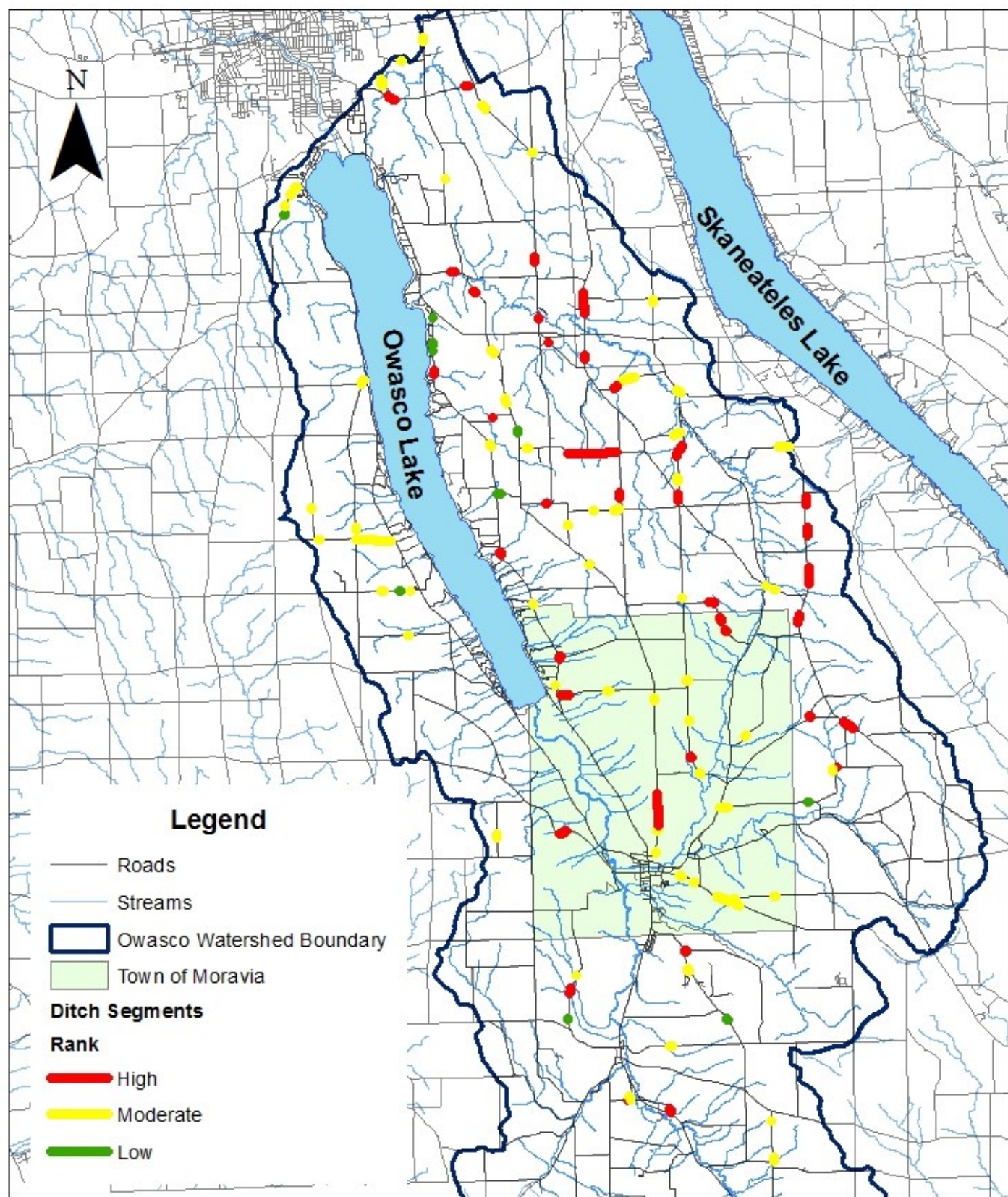
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Total Points	Rank
≤20	Low
21-39	Moderate
40-60	High



A Trimble GPS unit is used to map different features of the ditches, allowing for the Inspection Program to categorize the level of erodibility and risk of ditch failure

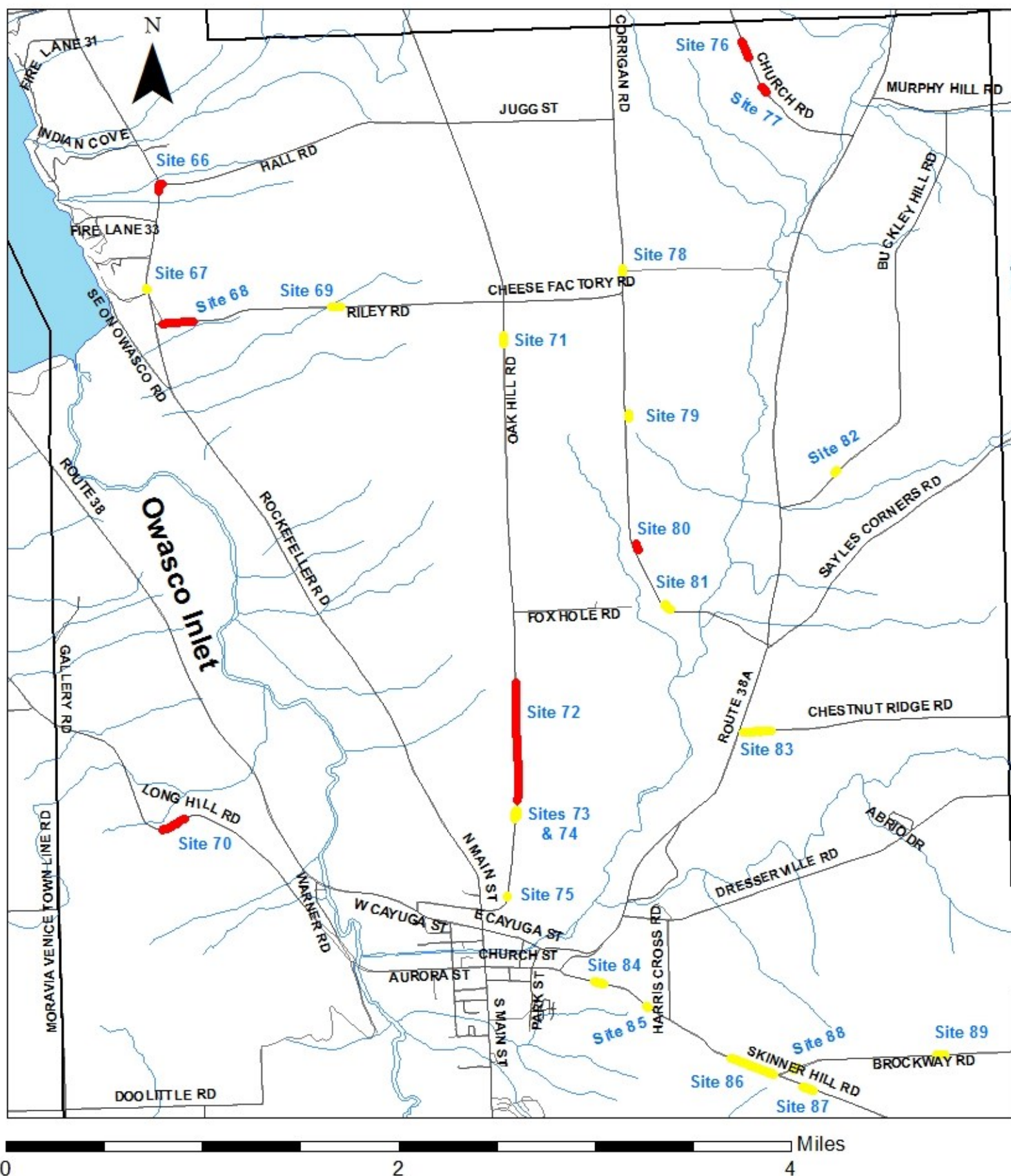
Road Ditch Assessment Sites in the Owasco Lake Watershed (Summer 2017)



Map created by Kathryn Vellone,
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Owasco Lake Watershed Inspection Program
September 5, 2017

0 5 10 Miles

Road Ditch Assessment Sites in Moravia (Cayuga County)





Map Identifier: Site 66
Sub-watershed: Firelane 33
Tributary
Road Name: Rockefeller Road
Town: Moravia
Road Jurisdiction: Cayuga County
Highway
Closest Intersection: Rockefeller Road/Hall Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 25% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 300 ft
Management Recommended: Hydroseeding
Resolvability: Moderate

Rank: High (Score = 45)
Estimated Cost: \$450



Map Identifier: Site 67
Sub-watershed: Unknown
Road Name: Rockefeller Road
Town: Moravia
Road Jurisdiction: Cayuga County
Highway
Closest Intersection: Rockefeller Road/Angling Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 20% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 50 ft
Management Recommended: Hydroseeding
Resolvability: Moderate

Rank: Moderate (Score = 30)
Estimated Cost: \$75
Comments: Near Fire Lane 35



Map Identifier: Site 68
Sub-watershed: Owasco Inlet
Road Name: Riley Road
Town: Moravia
Road Jurisdiction: Town of Moravia
Closest Intersection: Riley Road/
Angling Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 50%
Grasses
Level of Erodibility: Moderate
Slope of Area: Steep Grade
Length of Ditch: 800 ft
Management Recommended:
Hydroseeding
Resolvability: Simple

Rank: High (Score = 40)
Estimated Cost: \$1,200



Map Identifier: Site 69
Sub-watershed: Owasco Inlet
Road Name: Riley Road
Town: Moravia
Road Jurisdiction: Town of Moravia
Closest Intersection: Riley Road/
Oak Hill Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 75%
Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 250 ft
Management Recommended:
Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 35)
Estimated Cost: \$375
Comments: Concrete at bottom of
ditch

8/19/2017



Map Identifier: Site 70

Sub-watershed: Owasco Inlet

Road Name: Long Hill Road

Town: Moravia

Road Jurisdiction: Cayuga County
Highway

Closest Intersection: Long Hill Road/
Warner Road

Direct connection or proximity to a stream?: Yes

Percent Vegetation & Type: 60% Grasses

Level of Erodibility: Moderate

Slope of Area: Steep Grade

Length of Ditch: 700 ft

Management Recommended:
Hydroseeding

Resolvability: Moderate

Rank: High (Score = 45)

Estimated Cost: \$1,050

Comments: Solid rock at bottom of ditch

8/21/2017



Map Identifier: Site 71

Sub-watershed: Decker Creek

Road Name: Oak Hill Road

Town: Moravia

Road Jurisdiction: Cayuga County
Highway

Closest Intersection: Oak Hill Road/
Cheese Factory Road

Direct connection or proximity to a stream?: No

Percent Vegetation & Type: 5% Grasses

Level of Erodibility: Moderate

Slope of Area: Moderate Grade

Length of Ditch: 200 ft

Management Recommended:
Hydroseeding

Resolvability: Simple

Rank: Moderate (Score = 35)

Estimated Cost: \$300



Map Identifier: Site 72
Sub-watershed: Owasco Inlet
Road Name: Oak Hill Road
Town: Moravia
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Oak Hill Road/ North Main Street
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 50% Woody Shrubs
Level of Erodibility: High
Slope of Area: Steep Grade
Length of Ditch: 3,150 ft
Management Recommended: Rock Armor
Resolvability: Moderate

Rank: High (Score = 50)
Estimated Cost: \$4,725



Map Identifier: Site 73
Sub-watershed: Owasco Inlet
Road Name: Oak Hill Road
Town: Moravia
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Oak Hill Road/ North Main Street
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 5% Grasses
Level of Erodibility: High
Slope of Area: Moderate Grade
Length of Ditch: 150 ft
Management Required: Rock Armor
Resolvability: Moderate

Rank: Moderate (Score = 35)
Estimated Cost: \$225
Comments: Post-storm damage



Map Identifier: Site 74
Sub-watershed: Owasco Inlet
Road Name: Oak Hill Road
Town: Moravia
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Oak Hill Road/North Main Street
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 0%
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 250 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 35)
Estimated Cost: \$375
Comments: Ditch split into several segments



Map Identifier: Site 75
Sub-watershed: Owasco Inlet
Road Name: Oak Hill Road
Town: Moravia
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Oak Hill Road/North Main Street
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 60% Grasses
Level of Erodibility: Moderate
Slope of Area: Steep Grade
Length of Ditch: 50 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 30)
Estimated Cost: \$75
Comments: Culvert in deteriorating condition



Map Identifier: Site 76
Sub-watershed: Decker Creek
Road Name: Church Road
Town: Moravia
Road Jurisdiction: Town of Moravia
Closest Intersection: Church Road/State Route 38A
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 70% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 500 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: High (Score = 40)
Estimated Cost: \$750



Map Identifier: Site 77
Sub-watershed: Decker Creek
Road Name: Church Road
Town: Moravia
Road Jurisdiction: Town of Moravia
Closest Intersection: Church Road/State Route 38A
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 50% Woody Shrubs
Level of Erodibility: High
Slope of Area: Moderate Grade
Length of Ditch: 200 ft
Management Recommended: Rock Armor
Resolvability: Difficult

Rank: High (Score = 40)
Estimated Cost: \$300



Map Identifier: Site 78
Sub-watershed: Decker Creek
Road Name: Jugg Street
Town: Moravia
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Jugg Street/ Decker Hill Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 80% Grasses
Level or Erodibility: Low
Slope of Area: Moderate Grade
Length of Ditch: 150 ft
Management Recommended: Hydroseeding
Resolvability: Simple
Rank: Moderate (Score = 22)
Estimated Cost: \$225



Map Identifier: Site 79
Sub-watershed: Decker Creek
Road Name: Jugg Street
Town: Moravia
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Jugg Street/ Cheese Factory Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 30% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 150 ft
Management Recommended: Hydroseeding
Resolvability: Moderate
Rank: Moderate (Score = 35)
Estimated Cost: \$225
Comments: Gravel at bottom of ditch