

# 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

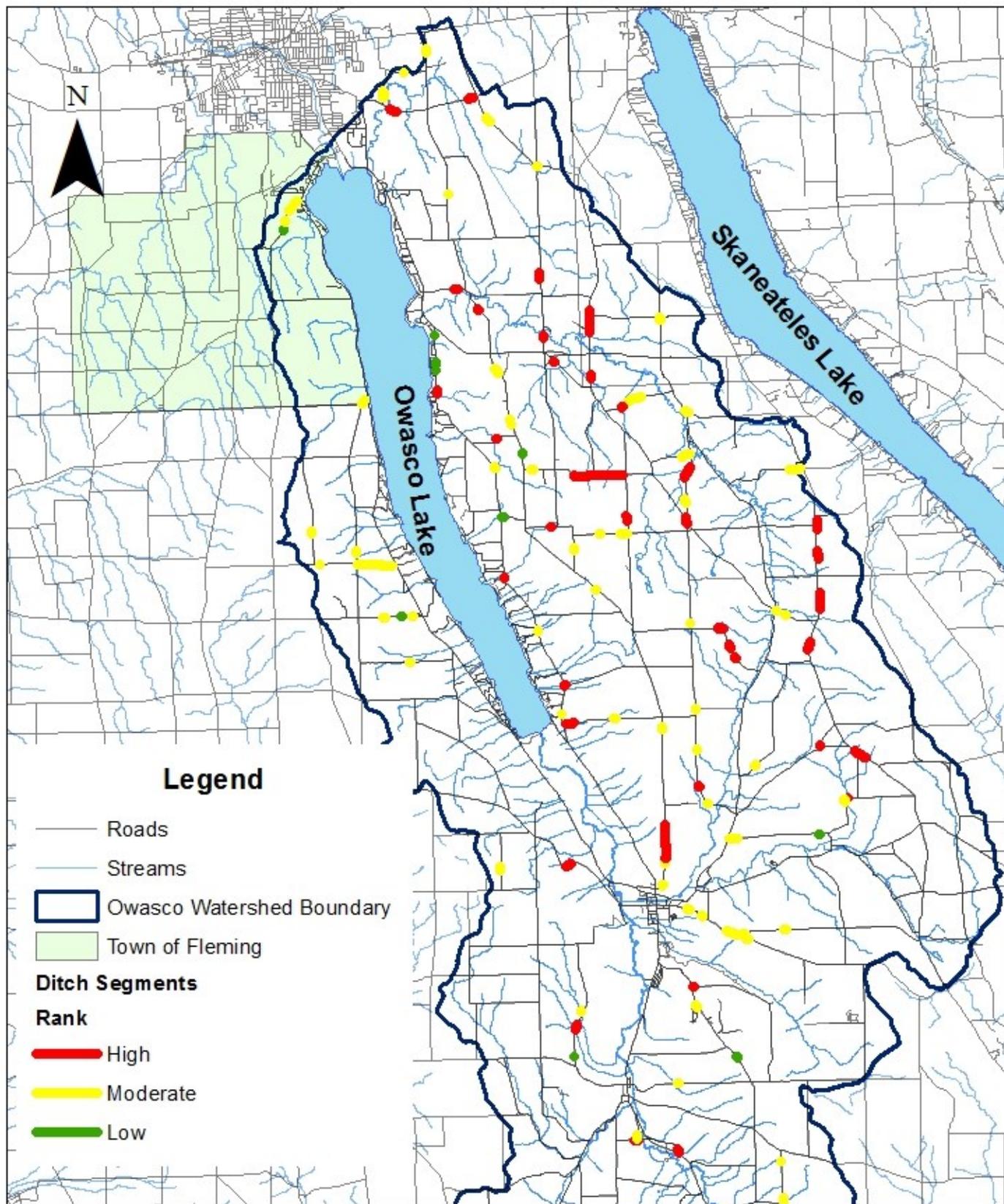
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Total Points	Rank
≤20	Low
21-39	Moderate
40-60	High



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

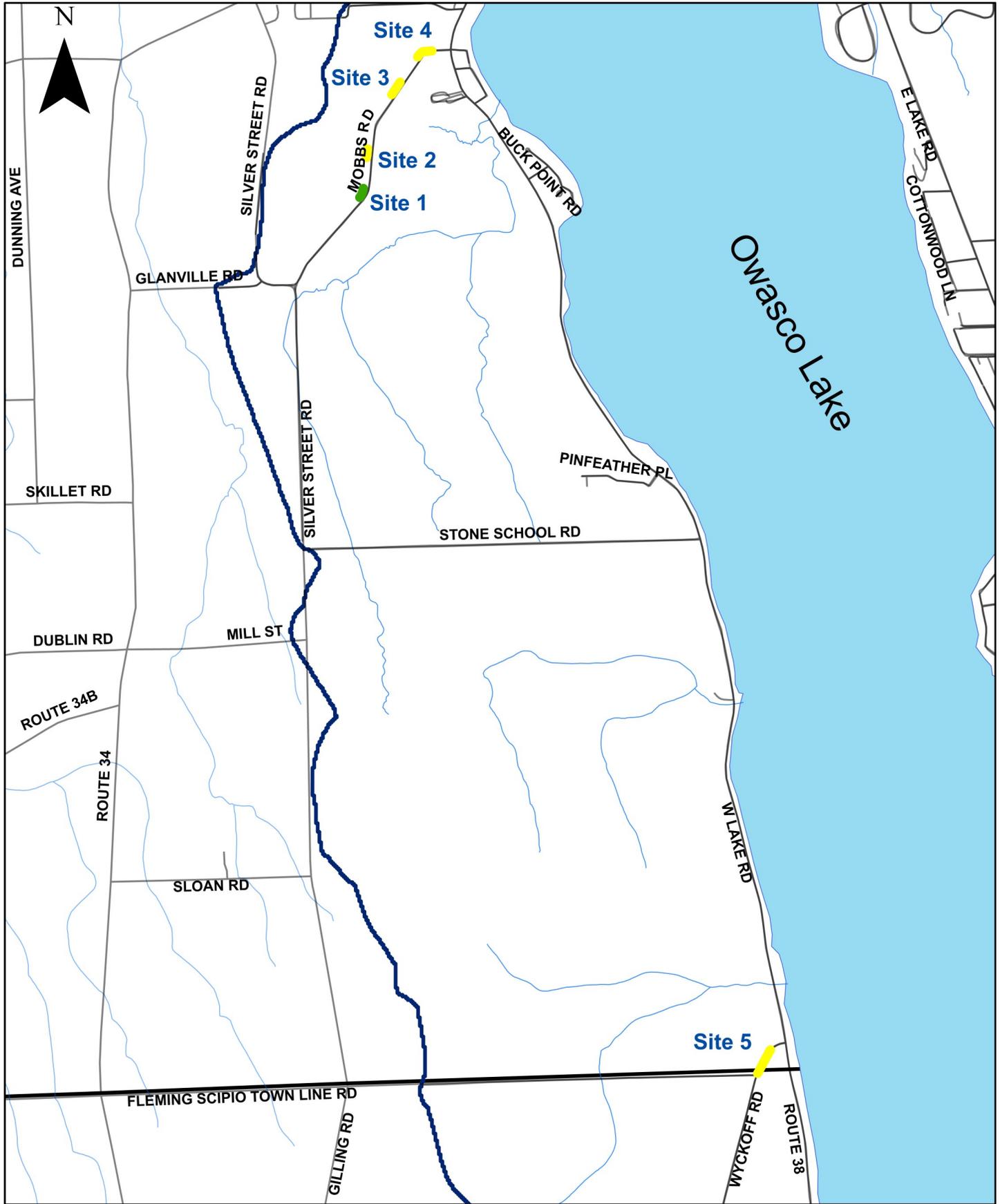
# Road Ditch Assessment Sites in the Owasco Lake Watershed (Summer 2017)



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

0 5 10 Miles

# Road Ditch Assessment Sites in Fleming (Cayuga County)





**Map Identifier:** Site 1  
**Sub-watershed:** Veness Brook  
**Road Name:** Mobbs Road  
**Town:** Fleming  
**Road Jurisdiction:** Town of Fleming  
**Closest Intersection:** Mobbs Road/  
Silver Street Road  
**Direct connection or proximity to a stream?:** No  
**Percent Vegetation & Type:** 60%  
Grasses  
**Level of Erodibility:** Moderate  
**Slope of Area:** Moderate Grade  
**Length of Ditch:** 200 ft  
**Management Recommended:**  
Hydroseeding  
**Resolvability:** Simple  
  
**Rank: Low (Score = 20)**  
**Estimated Cost: \$300**



**Map Identifier:** Site 2  
**Sub-watershed:** Veness Brook  
**Road Name:** Mobbs Road  
**Town:** Fleming  
**Road Jurisdiction:** Town of Fleming  
**Closest Intersection:** Mobbs Road/  
West Lake Road  
**Direct connection or proximity to a stream?:** No  
**Percent Vegetation & Type:** 50%  
Grasses  
**Level of Erodibility:** Low  
**Slope of Area:** Moderate Grade  
**Length of Ditch:** 150 ft  
**Management Recommended:**  
Hydroseeding  
**Resolvability:** Simple  
  
**Rank: Moderate (Score = 21)**  
**Estimated Cost: \$225**  
**Comments:** rocky soil, some  
garbage in ditch



**Map Identifier:** Site 3  
**Sub-watershed:** Veness Brook  
**Road Name:** Mobbs Road  
**Town:** Fleming  
**Road Jurisdiction:** Town of Fleming  
**Closest Intersection:** Mobbs Road/West Lake Road  
**Direct connection or proximity to a stream?:** No  
**Percent Vegetation & Type:** 50% Grasses  
**Level of Erodibility:** Low  
**Slope of Area:** Moderate Grade  
**Length of Ditch:** 300 ft  
**Management Recommended:** Hydroseeding  
**Resolvability:** Simple  
  
**Rank: Moderate (Score = 26)**  
**Estimated Cost: \$450**



**Map Identifier:** Site 4  
**Sub-Watershed:** Veness Brook  
**Road Name:** Mobbs Road  
**Town:** Fleming  
**Road Jurisdiction:** Town of Fleming  
**Closest Intersection:** Mobbs Road/West Lake Road  
**Direct connection or proximity to a stream?:** No  
**Percent Vegetation & Type:** 50% Grasses  
**Level of Erodibility:** Moderate  
**Slope of Area:** Flat  
**Length of Ditch:** 300 ft  
**Management Recommended:** Hydroseeding  
**Resolvability:** Simple  
  
**Rank: Moderate (Score = 26)**  
**Estimated Cost: \$450**



**Map Identifier:** Site 5  
**Sub-watershed:** Unknown  
**Road Name:** Wyckoff Road  
**Town:** Fleming  
**Road Jurisdiction:** Cayuga County Highway  
**Closest Intersection:** Wyckoff Road/Town Line Road  
**Direct connection or proximity to a stream?:** No  
**Percent Vegetation & Type:** 70% Grasses  
**Level of Erodibility:** Low  
**Slope of Area:** Moderate Grade  
**Length of Ditch:** 500 ft  
**Management Recommended:** Hydroseeding  
**Resolvability:** Simple

**Rank: Moderate (Score = 26)**  
**Estimated Cost: \$750**

# Summary

Cumulative Roadside Ditch and Total Costs Based on Road Jurisdiction:

**Town of Fleming:**

**4 sites, 950 ft**

**\$1,425**

**Cayuga County Highway**

**(Fleming):**

**1 site, 500 ft**