

















## Base Map

### Lake Winnisquam Watershed Based Management Plan

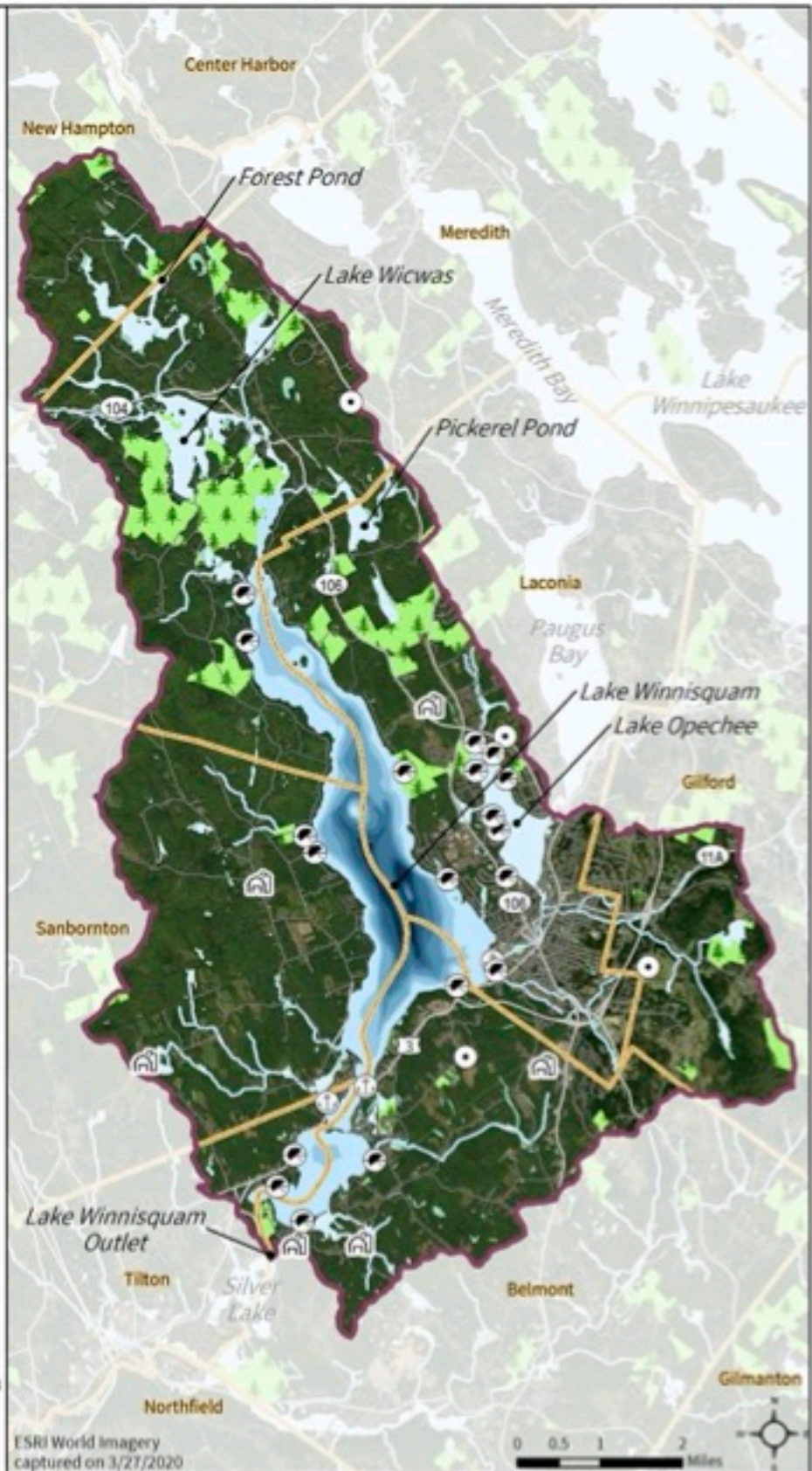
-  Lake Winnisquam Watershed
-  Town Boundary
-  State Road
-  Local Road
-  Private Road
-  Unmaintained Road
-  Waterbody
-  Stream/River
-  Wetland
-  Conservation Land
-  Beach
-  Farm
-  Golf Course
-  Marina

#### Bathymetry (ft)

-  0 - 20
-  21 - 40
-  41 - 60
-  61 - 80
-  81 - 100
-  101 - 120
-  121 - 140
-  141 - 160



Data Source: NH Granit,  
NHD, NWI, ESRI  
Coordinate System: NAD 1983  
State Plane NH FIPS 2800 ft  
Map Created By: C. Bunyon  
FB Environmental  
Date Created: 1/5/2021



ESRI World Imagery  
captured on 3/27/2020

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# Water Quality Goal & Objectives

The goal of the Lake Winnisquam WBP is to improve the water quality of Lake Winnisquam such that it meets state water quality standards for the protection of Aquatic Life Integrity.

**Layman's Terms: No Lake Blooms, Deep Clarity, Healthy Aquatic Life**

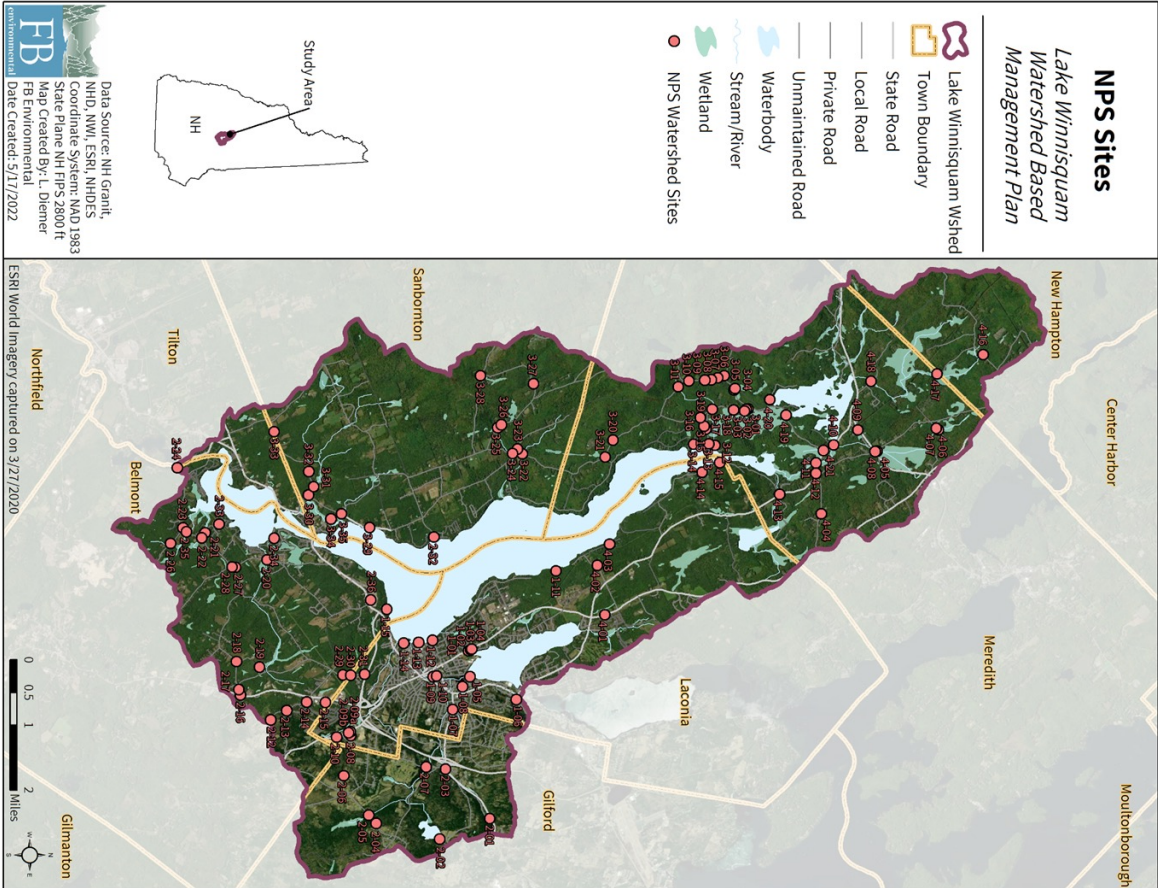
- **Objective #1:** Reduce pollutant loading from Hueber Brook.
- **Objective #2:** Mitigate (prevent or offset) pollutant loading from future development.
- **Objective #3:** Reduce pollutant loading from existing development.



# Watershed Survey



**Unpaved road and ditch erosion** biggest issue contributing to sediment and nutrient loading to Lake Winnisquam



## Top 24 High Priority Structural BMP Sites in the Lake Winnisquam Watershed

Site ID	Site Description	Municipality	Recommendations	Potential Pollutant Reduction	
				Average Annual Sediment Load (kg/yr)	Average Annual TP Load (kg/yr)
1-12	Gale Ave - small pocket park with access to lake	Laconia	Install a bioretention basin within the park to treat runoff from Gale Ave. Stabilize eroded areas, improve buffer.	2,282	1.6
2-05	Swain Rd at Jewett Brook crossing	Gilford	Armor ditch with stone or grass, Install turnout, Reshape ditch, Stabilize banks, Install runoff diverter, Plant/improve buffer	1,361	0.8
3-10	Chemung Rd	Meredith	Armor ditch with stone or grass, Reshape ditch, Reshape or crown road, Reshape/vegetate shoulder	1,633	0.7
3-11	Roxbury Rd	Meredith	Armor ditch with stone or grass, Reshape ditch, Reshape or crown road, Reshape/vegetate shoulder	2,195	0.9
3-12	Stoney Brook Rd	Meredith	Reshape or crown road, Reshape/vegetate shoulder, Clean out and stabilize plow pile area	3,024	1.3
3-13	Stoney Brook Rd, crossing with river	Meredith	Armor ditch with stone or grass, Reshape ditch, Reshape or crown road, Reshape/vegetate shoulder, Investigate geomorphic stability of river	1,597	0.7
3-14	Deer Park Association beach on Weed Rd	Meredith	Reshape or crown road, Reshape/vegetate shoulder, Restore sediment forebay, Install rain garden, tiered landscaping, infiltration steps; Improve buffer, Install turnouts on south access road to lake	1,597	0.7
3-16	Weed Rd	Meredith	Armor ditch with stone or grass, Reshape ditch, Reshape or crown road, Reshape/vegetate shoulder, Improve buffer	1,814	0.8
3-20	New road construction off Batchelder Hill Rd	Meredith	Armor ditch with stone or grass, Reshape ditch, Reshape or crown road, Reshape/vegetate shoulder	1,996	0.8
3-21	Eagle Ledge Rd intersection with Batchelder Hill Rd	Meredith	Armor ditch with stone or grass, Reshape ditch, Reshape or crown road, Reshape/vegetate shoulder	3,592	1.5
3-22	Eagle Ledge Rd, Black Brook crossing	Sanbornton	Stabilize inlet and/or outlet, Armor ditch with stone or grass, Reshape ditch, Reshape or crown road, Reshape/vegetate shoulder	2,395	1.0
3-23	Kaulback Rd and Roxbury Rd	Sanbornton	Stabilize inlet and/or outlet, Replace/enlarge culvert, Armor ditch with stone or grass, Reshape ditch, Reshape or crown road, Reshape/vegetate shoulder	3,393	1.4

Site ID	Site Description	Municipality	Recommendations	Potential Pollutant Reduction	
				Average Annual Sediment Load (kg/yr)	Average Annual TP Load (kg/yr)
3-24	Lower Bay Rd and Huse Rd	Sanbornton	Armor ditch with stone or grass, Reshape ditch, Reshape or crown road, Reshape/vegetate shoulder	2,776	1.4
3-25	Woodman Rd	Sanbornton	Stabilize inlet and/or outlet, Armor ditch with stone or grass, Reshape ditch, Reshape/vegetate shoulder	2,159	1.1
3-26	Woodman Rd	Sanbornton	Armor ditch with stone or grass, Reshape ditch, Reshape/vegetate shoulder, Divert driveway runoff, Enhance and stabilize buffer between road and stream	1,597	0.7
3-28	Woodman Rd intersection with Steele Hill Rd	Sanbornton	Stabilize inlet and/or outlet, Armor ditch/turnouts with stone or grass with check dams, Reshape ditch, Reshape or crown road, Reshape/vegetate shoulder	3,629	1.5
3-30	Chapman Rd	Sanbornton	Stabilize inlet and/or outlet, Armor ditch with stone or grass, Reshape ditch, Reshape or crown road, Reshape/vegetate shoulder	1,996	0.8
3-31	Philbrook Rd	Sanbornton	Stabilize inlet and/or outlet, Armor ditch with stone or grass, Reshape ditch/turnouts, Reshape or crown road, Reshape/vegetate shoulder	2,395	1.0
3-32	Philbrook Rd	Sanbornton	Stabilize inlet and/or outlet, Armor ditch with stone or grass, Reshape ditch/turnouts, Reshape or crown road, Reshape/vegetate shoulder	1,361	0.8
3-34	Bay Rd	Sanbornton	Stabilize parking area, pull-off area, and access ramps	4,990	2.1
3-36	Doctor True Rd and Maple Circle	Sanbornton	The Town is considering paving Dr True Rd and Maple Circle to address erosion and travel issues. If paving moves forward, evaluate BMPs to manage sand and salt from newly paved roads.	9,273	4.6
4-06	Old Stage Rd culvert	Meredith	Install turnout, Reshape ditch, Reshape/vegetate shoulder, Reshape or crown road, Install runoff diverter	1,814	0.8
4-08	Intersection of Rt 104 and Hatch Corner Rd	Meredith	Remove winter sand, Install erosion controls (e.g., silt fence), Armor ditch with stone or grass	1,814	0.8
4-09	Dow Rd, near intersection with Rt 104	Meredith	Armor ditch with stone or grass, Install erosion controls (e.g., silt fence)	1,814	0.8

# Project Implementation

- \$125k Section 319 grant just awarded to WWN for design and construction of non-point source pollutant controls at three sites:
  - Gale Ave Park in Laconia
  - Deer Park Beach in Meredith
  - Kaulback Road in Sanbornton

