# WATERSHED SURVEY RESULTS MEMORANDUM

**TO**: Town of Sutton, NH and Kezar Lake Protective Association

**FROM:** Lori Kennedy, Horsley Witten Group and Christine Bunyon, FB Environmental Associates

**SUBJECT:** Kezar Lake Watershed Survey Results - Final

**DATE:** February 20, 2026

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The Town of Sutton, with support from the Kezar Lake Protective Association (KLPA), contracted with FB Environmental Associates (FBE) and the Horsley Witten Group (HW) to develop a watershed management plan (WMP) for Kezar Lake. As part of the watershed planning process, HW and FBE completed a watershed survey to assess nonpoint source (NPS) pollution and to identify potential mitigation measures within the Kezar Lake Watershed. This memorandum summarizes the watershed survey methodology and findings, recommended mitigation measures, and planning-level estimates of pollutant load reduction and costs.

## Methodology

HW and FBE completed a desktop analysis of GIS mapping to identify potential pollutant hotspots and opportunity sites. The desktop analysis included review of hydrologic conditions (soil type, topography, surface waters, flood zones, subwatersheds), land use (roads, boat launches, beaches, parks, conservation lands), and property and road ownership/jurisdiction. On June 18, 2025, HW and FBE met with stakeholders for a pre-watershed survey workshop, at which residents shared their observations of erosion and stormwater runoff, ideas for mitigating those pollutant sources, and locations of interest for the watershed survey. Based on the desktop analysis and stakeholder input, HW and FBE identified target sites to visit on the field day and scheduled meetings with property owners, Town staff, neighbors, farm staff, and KLPA representatives.

On July 14, 2025, four technical staff from HW and FBE visited the target watershed sites, with one team focused on the lower watershed around Kezar Lake in Sutton and the other team focused on the upper watershed in New London. The field day was dry and sunny and was preceded by over 7 days of dry weather. HW and FBE field staff were joined by stakeholders who generously contributed their time and local knowledge, which greatly improved the specificity of our observations and recommendations.

Following the watershed survey field day, HW refined the recommended mitigation measures and calculated planning-level estimates of pollutant load reductions and capital costs. Pollutant load reductions were calculated using methodologies from the NH MS4 Permit[1] (for stormwater treatment), the EPA Region 5 model[2] (for erosion stabilization), and the UNH Stormwater Center[3] (for buffer restoration). Capital costs, which include design and construction costs (labor and materials), were estimated using Opti-tool unit costs

[1] USEPA General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems in New Hampshire (as modified). Effective January 6, 2021.
[2] USEPA Region 5 Model for Estimating Pollutant Load Reductions.
[3] UNH Stormwater Center Pollutant Removal Credits for Buffer Restoration in MS4 Permits. 2019.

for green stormwater infrastructure practices[4] and NH Department of Transportation unit prices, along with best professional judgement.

On January 5, 2026, HW and FBE met with the KLPA watershed-plan steering committee, Sutton Highway Department, and New London Department of Public Works to present the watershed survey findings and solicit feedback.

## Findings

HW and FBE identified 37 sites contributing NPS pollution to Kezar Lake and its tributaries due to untreated stormwater runoff, erosion and sedimentation, degraded shoreline buffer, and stream encroachment. Recommended mitigation measures include stormwater treatment, erosion stabilization, road drainage improvements, buffer restoration, culvert replacement, stream restoration, maintenance, and further study. Of the 37 NPS sites identified, 20 are within the Town of Sutton and 17 within the Town of New London. Most of the sites (32 out of 37) are on public property.

Table 1 summarizes the observations, recommendations, pollutant load reduction estimates, and cost estimates for each site. A column in Table 1 entitled "Additional Info & Status Updates" documents input provided by stakeholders during the January 5, 2026, meeting. Figure 1 depicts the locations of the NPS sites. The field data sheets, with descriptions and photos from the July 2025 site visits, are provided in Appendix A.

## General Recommendations

### Stormwater Treatment

As detailed in Table 1, several recommendations focus on treating (filtering or infiltrating) runoff from impervious surfaces such as driveways, parking lots, and roads. On the Field Data Sheets provided in Appendix A, the project type is noted as "stormwater" for sites for which stormwater treatment is the primary recommended mitigation measure. The recommended practices include drainage infrastructure (e.g., deep sump catch basins) and green stormwater infrastructure (e.g., rain gardens and stormwater tree trenches). The images below illustrate typical green stormwater infrastructure practices. To learn more about green stormwater infrastructure, visit NH Soak up the Rain at https://www.soaknh.des.nh.gov/.

Bioretention basin / rain garden

Stormwater tree trench

[4] EPA Region 1 (2016) Methodology for Developing Cost Estimates for Opti-Tool

## Erosion Stabilization

For most of the NPS sites identified in the watershed survey, the recommendations include practices to reduce erosion of beaches, shorelines, ditches, or gravel surfaces. On the Field Data Sheets, sites for which erosion stabilization is the primary mechanism for pollutant load reduction are noted as "Erosion" for project type. The images below illustrate several of the recommended erosion stabilization practices.

Terraced or "perched" beach

Plastic geogrid filled with crushed stone in unpaved parking area

Rubber razors (water bars) on gravel driveway

Stone-lined roadside ditch

## Buffer Restoration

Vegetated areas along lakes, streams, and wetlands, known as buffers, improve water quality by filtering runoff, holding shoreline soil in place, and shading the waterbody. As detailed in Table 1, recommendations include revegetating and protecting the buffer at several locations. Typical plants for the shoreline buffer can be found in *Native Shoreland/Riparian Buffer Plantings for New Hampshire*.[5]

Stream buffer restoration

## Road Maintenance

HW and FBE observed road sand accumulated at several low points and dispersed within the shoreline buffer along lakefront roads. The shoreline buffer was sparsely vegetated in many areas, and residents expressed concerns about road salt and sand impacting shoreline vegetation and road-side trees.

As a general best practice, we recommend enhanced road maintenance along lakefront roads to reduce the transport and impacts of road sand and salt on the vegetative buffer and receiving waters, with a focus on the following measures:

1. Employ winter road maintenance best management practices, such as those taught in the NH Green SnowPro course and outlined in NHDES fact sheet: Best Management Practices and Salt Use Minimization Efforts in Chloride-Impaired Watersheds of New Hampshire.
2. Where space allows (without impacting shoreline buffer), enlarge roadside ditches to reduce ditch erosion and increase drainage capacity, and install sediment forebays to better collect sediment before it washes into the buffer and lake. Increase the cleaning frequency for ditches, sediment forebays, and culverts, aiming for at least twice per year (fall and spring), and following large precipitation events. See Table 1 for recommended locations.
3. Sweep paved town roads at least twice per year (fall and spring) to remove leaves, road sand, and other sediment and debris, with a focus on lakefront roads.

## Ditch Stabilization

During the watershed survey field day, the Sutton Highway Department was cleaning and regrading roadside ditches and turnouts. Their work appeared to be very good. HW and FBE did notice, however, several ditches and culvert inlets and outlets with bare soil that would easily erode during a storm. As general best practices, we recommend installing biodegradable erosion control blankets on steep slopes, seeding bare soil promptly, and installing temporary erosion and sediment controls above any discharge to a waterbody or wetland. Ditches that remain sparsely vegetated should be reseeded. For more guidance, see NHDOT Best Management Practices for Routine Roadway Maintenance Activities in New Hampshire and Cornell Local Roads Program Roadside Ditches: Best Management Practices to Reduce Floods, Droughts, and Water Pollution.

[5] https://www.des.nh.gov/sites/g/files/ehbemt341/files/documents/native-shoreland-plantings.pdf

**Table 1. Watershed Survey Summary**

| Site ID[1] | Site Name | Location | Town | Owner/ Jurisdiction | Issues/Observations | Recommended Improvements[2] | Additional Info & Status Updates (January 2026) | Average Annual TP Load Reduction (lb/yr) | Average Annual TN Load Reduction (lb/yr) | Average Annual Sediment Load Reduction (ton/yr) | Capital Cost Range[3] | Rank by TP Load Reduction |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Horse Beach | Wadleigh Hill road edge on lakeside | Sutton | Town of Sutton | Erosion along approx. 75% of road edge. Sparse vegetation is trampled by pedestrians making their own paths to the beach. Vegetated berm in better condition at south end of beach. Assume about 2 inches of beach erosion over 10 years, based on erosion below asphalt step. | Reestablish vegetative buffer along road shoulder with berm and terrace to manage road/parking lot runoff and reduce beach erosion. Formalize and stabilize several access points to beach. | Ice rises to the berm and damages shrubs. | 1.4 | 2.7 | 1.6 | $16,000 - $21,000 | 8 |
| 3 | Wadleigh Hill Rd near Horse Beach | Road shoulder between parking lot and dam bridge | Sutton | NHDOT | Eroding road shoulder and broken asphalt where vehicles used to park before “no parking” signs were installed. | Revegetate road shoulder to discourage parking and stabilize eroding area. Also consider revegetation or other stabilization between parking lots, in front of lake host station. | | 1.0 | 1.9 | 1.1 | $16,000 - $20,000 | 10 |
| 4 | Horse Beach south parking lot | Parking lot closer to bridge | Sutton | Town of Sutton (Conservation Commission) | Gravel parking lot with evidence of puddling, eroded flow paths, and general surface erosion. Sediment washes and gets tracked onto road from parking lot. Parking lot has flooded (from lake) in recent years. | Stabilize gravel parking lot with geogrid or drivable grass pavers. Consider regrading to pitch away from lake and divert runoff into an infiltration practice. | | 0.7 | 1.4 | 0.8 | $19,000 - $23,000 | 13 |
| 5 | Horse Beach parking near boat ramp | Parking lot for boat ramp | Sutton | Private (Kezar Lake Protective Association) | Gravel parking lot with evidence of puddling, eroded flow paths, and general surface erosion. Sediment washes and gets tracked onto road from parking lot. | Stabilize gravel parking lot with geogrid or drivable grass pavers. Consider regrading to pitch away from lake and divert runoff into an infiltration practice. | | 1.7 | 3.4 | 2.0 | $47,000 - $58,000 | 6 |
| 6 | Keyser St culvert | Near 53 Keyser St | Sutton | Town of Sutton | 12-inch corrugated metal pipe (CMP) cross culvert at low point. Corroded, partially crushed. Ditch on east side of road leading to culvert is filled with sand, around 6 inches deep and above invert. Sand and debris at outlet. | Clean and reshape ditch. Remove sand and leaves at culvert inlet and outlet. Consider replacing and upsizing culvert. Install sediment forebay at culvert inlet and place cobbles/boulders at outlet to collect leaves and sediment. | DPW cleaned ditch and culvert, installed sumps on both ends of culvert to collect debris. Seeded with VT conservation mix. | 0.1 | 0.2 | 0.1 | $1,000 - $1,300 | 23 |
| 7 | Keyser St Driveway | Near high point on Keyser St | Sutton | Private | Sediment washes down gravel driveway across Keyser St into the lake. Possibly washes down steps to lake. Existing basin on the east side of driveway. | Install water bars or rubber razors across driveway to divert runoff into existing basin and reduce erosion. | | 0.5 | 1.0 | 0.6 | $700 - $1,000 | 17 |
| 8 | Keyser St culvert 2 | Near conservation property | Sutton | Town of Sutton | 12-inch CMP cross culvert, corroded and half filled in. Hose goes through pipe from property up slope. Road sand washes into ditches. Pickerelweed growing near outfall. | Clean and reshape ditch and clean out pipe, inlet, and outlet. Install forebay/stilling basin at inlet and outlet and clean regularly. Revegetate. | DPW cleaned ditch and culvert, installed sumps on both ends of culvert to collect debris. Seeded with VT conservation mix. | 0.01 | 0.03 | 0.00 | $800 - $1,000 | 32 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | Keyser St ditch and crossing | Downslope of Prospect House | Sutton | Town of Sutton | Corroded 12-inch CMP cross culvert, corroded and half filled with sand from road sanding and eroding flow path along road shoulder above culvert inlet. | Clean ditch and culvert inlet. Formalize and stabilize road ditch from Prospect House down to inlet. | DPW cleaned ditch and culvert, installed sumps on both ends of culvert to collect debris. Seeded with VT conservation mix. | 0.1 | 0.2 | 0.1 | $2,000 - $3,000 | 22 |
| 11 | Penacook Rd kayak launch | Just downslope from 101 Penacook Rd | Sutton | Private | Gap in vegetation along shoreline. Eroding private kayak launch at low point in road. | Install two water bars on kayak launch to divert runoff into vegetation. Anchor lumber into ground at an angle; could bury the lumber to secure in place or stake with 2x2 inch stakes or rebar. | | 0.1 | 0.2 | 0.1 | $200 - $400 | 24 |
| 12 | Unpaved part of Penacook Rd | Transition from paved to gravel road near 101 Penacook Rd | Sutton | Town of Sutton | Gravel road is 18 ft wide; vehicles primarily use 13 ft drive lane and slow down to pass approaching vehicles. Heavily used by pedestrians. Narrow, steep shoreline buffer with intermittent gullies eroding down to lake. Shoreline vegetation impacted by winter sand and salt. | Improve drainage, stabilize erosion, and restore shoreline buffer along waterfront stretch of gravel road. Expand/maintain ditches on uphill (west) side; add forebays and armoring at cross culverts. Berm on waterfront (east) side, with stabilized outflow at low points. Consider narrowing street to single travel lane with wider pull-off/passing areas, to create space for pedestrian zone and wider shoreline buffer. | DPW has encountered ledge when trying to widen ditch on west side of Penacook Rd. | 0.5 | 1.0 | 0.5 | $14,000 - $17,000 | 18 |
| 13 | Low point on Penacook Rd | North of 101 Penacook Rd, near speed limit sign | Sutton | Town of Sutton | At low point on Penacook Rd, gully erosion and gap in vegetation on shoreline buffer caused by runoff. Road is crowned. It's possible runoff or seepage is coming down hill across road. | Maintain and widen ditch on west shoulder of Penacook Rd to manage runoff from steep hill to west. Stabilize eroding shoreline slope with riprap, level spreader, and vegetation. | | 0.04 | 0.07 | 0.00 | $2,000 - $3,000 | 29 |
| 14 | Penacook Rd informal lake access | Next to utility pole on lake side of road | Sutton | Town of Sutton | Path used for lake access in road shoulder is eroding into lake. | Stabilize eroding slope and install water bars to divert runoff into vegetated buffer or create terracing with boulders. | | 0.07 | 0.14 | 0.1 | $1,100 - $1,500 | 25 |
| 15 | Rowes Creek culvert at Kings Hill | Couple hundred feet from road | Sutton | Town of Sutton | Rowes Creek 48-inch CMP culvert under camp road/trail that is used for fire services and recreation. Above inlet, some bank incision and water flowing under inlet. Recent significant road washout from flooding (now filled with 6 cubic yards of gravel). Ongoing erosion of road above outlet. | Replace stream culvert with open bottom box culvert to prevent further washouts. Stabilize eroding areas. | | 3.5 | 7.1 | 4.2 | $400,000 - $550,000 | 3 |
| 16 | Muster Field Farm | Harvey Rd | Sutton | Town of Sutton | Crop fields, apple orchard, a few animals, and small-scale timber harvest for firewood. Organic fertilizers. No detention ponds except one small fire pond. Not much runoff. Adequate forest buffer around fields. Farm staff expressed concern that sugar maples along Harvey Rd may be impacted by excessive winter salting. | Consider reduced salting along Harvey Rd. | | NA | NA | NA | NA | NA |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | Wadleigh State Park beach | Entire beach | Sutton | NH State Parks | Long stretch of sandy beach below line of pine trees, path, and picnic areas. Erosion around exposed tree roots. Eroding informal access points to beach at breaks in vegetation. Beach sand is regularly dragged/combed but not replenished. Retaining wall in one section (see photo on field data sheet). Lake level rises to picnic tables and path after big storms. Erosion is accelerating. | Construct a retaining wall below tree line (similar to existing) and restore vegetated buffer above beach. Plant a more diverse forest mix in areas of open canopy or where dead, diseased, or hazard trees will be removed (existing red pines and hemlocks are threatened by disease). Formalize steps and paths to parking lot and beach to discourage unauthorized paths, which can cause erosion. | | 3.9 | 7.8 | 4.6 | $120,000 - $150,000 | 2 |
| 18 | Rowes Creek at Penacook Rd | Rowes Creek crossing under Penacook Rd | Sutton | Town of Sutton and Private | Open bottom box culvert under Penacook Rd. Landowners dredge stream and dig/clear banks and buffer periodically. Stream bottom is covered with fine sediment and organic matter, very different from gravel/cobble streambed on Kings Hill. | Discontinue stream dredging and streambank clearing, except as permitted by NHDES. Investigate and control source(s) of fine sediment and organics. Hire a stream geomorphologist to advise on stream restoration. Stabilize and revegetate stream bank and buffer. | | NA | NA | NA | NA | NA |
| 100 | New London DPW Southern Driveway | Southern driveway, south corner of intersection | New London | Town of New London | Runoff runs down driveway to grass shoulder, some riprap and sand accumulation. | Install bioretention basin for stormwater treatment. | New London DPW yard is being redesigned. | 1.2 | 10.9 | 0.00 | $61,000 - $75,000 | 9 |
| 101 | New London DPW Existing stormwater area | South of salt shed, abutting berm and stream buffer | New London | Town of New London | Shallow stormwater pond with fabric and stone below ground for infiltration. Very rarely will water rise up and overflow over berm. This area is also used for snow storage. | Replace existing shallow stormwater pond with bioretention area. | New London DPW yard is being redesigned. | 0.7 | 6.1 | 0.00 | $34,000 - $42,000 | 12 |
| 102 | New London DPW Northern driveway | Entrance of northern driveway | New London | Town of New London | Existing plastic culvert is starting to collapse, lots of water flows down to culvert. Water overtops culvert and flows down road. Armored ditch will fill up to road in large storm. | Culvert replacement. Consider upsizing culvert. DPW is considering removing this entrance in redevelopment project. If this is the case, consider a larger settling basin in location of entrance. | New London DPW yard is being redesigned. | NA | NA | NA | NA | NA |
| 103 | New London DPW firefighter retention pond | Behind salt shed and next to firefighter training structure | New London | Town of New London | Existing retention pond. Gravel driveway runs into retention pond, overtops rock wall. Piled gravel to prevent overtop. Runoff runs down sides. | Add one or two deep sump catch basins to gravel parking area and outlet to retention pond. | New London DPW yard is being redesigned. | 0.3 | 1.5 | 0.00 | $11,000 - $14,000 | 21 |
| 104 | New London DPW behind salt shed | Behind salt shed along forest/wetland edge | New London | Town of New London | Some sand washing over edge. | Extend berm around corner and behind shed up to retention pond. Revegetate behind shed. | New London DPW yard is being redesigned. | 0.1 | 0.5 | 0.00 | $19,000 - $23,000 | 26 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 105 | Old Sewer Plant | Maintenance road and retired sewage plant | New London | Town of New London | Gullying and gravel/sand road. Pile of sand next to streambank. | Resurface road with larger stone. Remove sand pile. Clean out catch basins around building. | | 0.1 | 0.1 | 0.1 | $26,000 - $32,000 | 27 |
| 106 | Municipal lot | Municipal lot at intersection of S. Pleasant St and Main St | New London | Town of New London | Large, paved parking lot with no stormwater treatment. Sediment accumulation in northwest corner. Damaged pavement and sediment accumulation at entrance from standing water due to poor drainage. | Bioretention in northwest corner. Consider re-grading and striping parking lot. Regrade entrance of parking lot to keep road runoff in road. Consider landscape/bioswale island and second stormwater practice in southeast corner. | There is foot traffic over the knoll toward library. DPW redid the parking lot entrance this year. | 0.6 | 4.8 | 0.00 | $29,000 - $36,000 | 15 |
| 107 | Main St | Closed drainage system along Main Street | New London | NHDOT | Catch basins do not run along gutter line/flow path. Runoff appears to bypass catch basins and turn down side roads or driveways. Business implementing armored flow paths to improve eroded areas. Damaged pavement at side roads/driveways. | Adjust inlet grate placement or curb line/berm to prevent bypass. Clean out catch basins or replace. Install infiltration tree trenches to treat runoff diverted from catch basins where possible. Re-grade driveway or side road entrances to keep runoff in road. | | 5.0 | 45.9 | 0.00 | $250,000 - $310,000 | 1 |
| 108 | S Pleasant Roadside | S. Pleasant St. roadside just south of Barrett Road intersection | New London | Town of New London | Sand washing around corner of Barrett Road and accumulating just upgradient of culvert outlet. Some riprap along road edge at culvert outfall. | Re-shape ditch, add check dams and armor with riprap. Careful of depth for digging at the lower end because of the culvert pipe. Install sediment forebay upgradient of culvert. | | 2.2 | 4.4 | 2.6 | $6,000 - $8,000 | 4 |
| 109 | Squires Ln | Roadside of 39 & 51 Squires Lane | New London | Town of New London | Gullying at catch basins and along roadside. | Revegetation and sand removal. | | 0.02 | 0.03 | 0.00 | $2,600 - $3,200 | 31 |
| 110 | Squires Ln corner | Roadside of 51 Squires Lane (at bend) | New London | Town of New London | Gullying along roadside and sand accumulation. Sand accumulation area about 11.5 feet wide and 20 feet long. | Sand removal and revegetation. | | 0.04 | 0.08 | 0.00 | $700 - $900 | 28 |
| 111 | Woodward Park stream | Next to lower ball field at Woodward Park | New London | Private | Tributary coming from woods through Woodward Park. Three culvert crossings and a small bridge. Slow moving standing water. Evidence of natural oil. No buffer and all vegetation has been mowed. | Discontinue mowing to stream edge. Revegetate stream buffer on both sides of stream. | | 0.3 | 1.6 | 0.00 | $19,000 - $23,000 | 20 |
| 112 | Bog Rd boat ramp | Boat ramp/access point off Bog Road to Messer Pond | New London | Town of New London | Unstable gravel/sand sloped access point down to pond. | Stabilize boat ramp. Install turnout upgradient of boat ramp if possible. | | 0.6 | 1.2 | 0.7 | $10,000 - $13,000 | 16 |
| 113 | 236 Knights Hill Rd | Roadside at 236 Knights Hill Road | New London | Town of New London | Sand accumulation and gullying. Stone check dam accumulating sand. | Clean out upgradient of check dam and add second check dam. Consider armoring ditch. | | 0.03 | 0.05 | 0.00 | $800 - $1,000 | 30 |

| Site ID[1] | Site Name | Location | Town | Owner/ Jurisdiction | Issues/Observations | Recommended Improvements[2] | Additional Info & Status Updates (January 2026) | Average Annual TP Load Reduction (lb/yr) | Average Annual TN Load Reduction (lb/yr) | Average Annual Sediment Load Reduction (ton/yr) | Capital Cost Range[3] | Rank by TP Load Reduction |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 114 | Across 236 Knights Hill Rd | Roadside across from 236 Knights Hill Road | New London | Town of New London | Existing settling basins with sand accumulation. Sand along road. | Add check dams and clean out sand. Revegetate 600 feet of road (8 feet wide). | | 0.7 | 1.3 | 0.8 | $9,000 - $11,000 | 14 |
| 115 | Old Main Street/King Hill Road | On both sides of 607 Old Main Street. | New London | Town of New London | Sand accumulation in settling basin on the east side of the road and above check dam on the west side of the road. Paved swale along the western roadside edge. | Clean out settling basin and check dam. | | NA | NA | NA | NA | NA |
| 116 | Meadow Brook | Corner of Winslow Rd and Meadowbrook Road | Sutton | Town of Sutton | Deep gully on Meadowbrook Road. Runoff coming from Winslow Road. | Add plunge pool and armor steep portion of the ditch. Revegetate lower flat area, add check dam. | | 2.1 | 4.3 | 2.5 | $6,000 - $8,000 | 5 |
| 117 | Winslow Circle | Across from 104 Winslow Circle | Sutton | Town of Sutton | Outfall of long length of roadside swale that goes under several driveway crossings. Outfall drops 6 feet then 30 feet. Large amount of leaf litter accumulation. Possibly a settling basin before 30-foot drop. | Install a roadside bioswale upgradient of existing settling basin. Clean out settling basin. Consider stepped pool system down to wetlands. | | 0.4 | 4.2 | 0.00 | $25,000 - $31,000 | 19 |
| 118 | King Hill Road | Roadside of 130 King Hill Rd to Rowell Hill Rd | New London | NHDOT | Gullying along roadside. | Revegetate with turnouts. | | 0.8 | 1.6 | 0.8 | $6,000 - $8,000 | 11 |
| 119 | Hominy Pot Road | Across from 332 Hominy Pot Road | Sutton | Town of Sutton | Deep ditch along roadside. Freshly paved road. Appears ditch has been dug out recently. Erosion and sand accumulation starting to occur. Seed was possibly laid in ditch. Ditch crosses to other side of road in culvert at driveway crossings. | Armor ditch and/or revegetate. | | 1.5 | 2.9 | 1.5 | $30,000 - $37,000 | 7 |
| 120 | Construction site | Across from 332 Hominy Pot Rd | Sutton | Private | Construction site. Steep slope down to roadside ditch. Large amount of clearing. | Install erosion and sediment control practices at construction site. | | NA | NA | NA | NA | NA |

Notes:
1. Site numbers below 100 are for locations in the lower watershed (Kezar Lake direct drainage and vicinity); site numbers above 100 are for locations in the upper watershed.
2. Pollutant load reduction and capital costs were estimated for recommended erosion stabilization, stormwater treatment, and buffer restoration projects.
3. Capital costs are expressed in 2025 dollars and include design and construction (labor and material). Cost estimates are intended for comparison and prioritization and should not be used as the basis for specific funding requests or budgeting.

Abbreviations: Total Phosphorus (TP), Total Nitrogen (TN), Pound (lb), Year (yr)

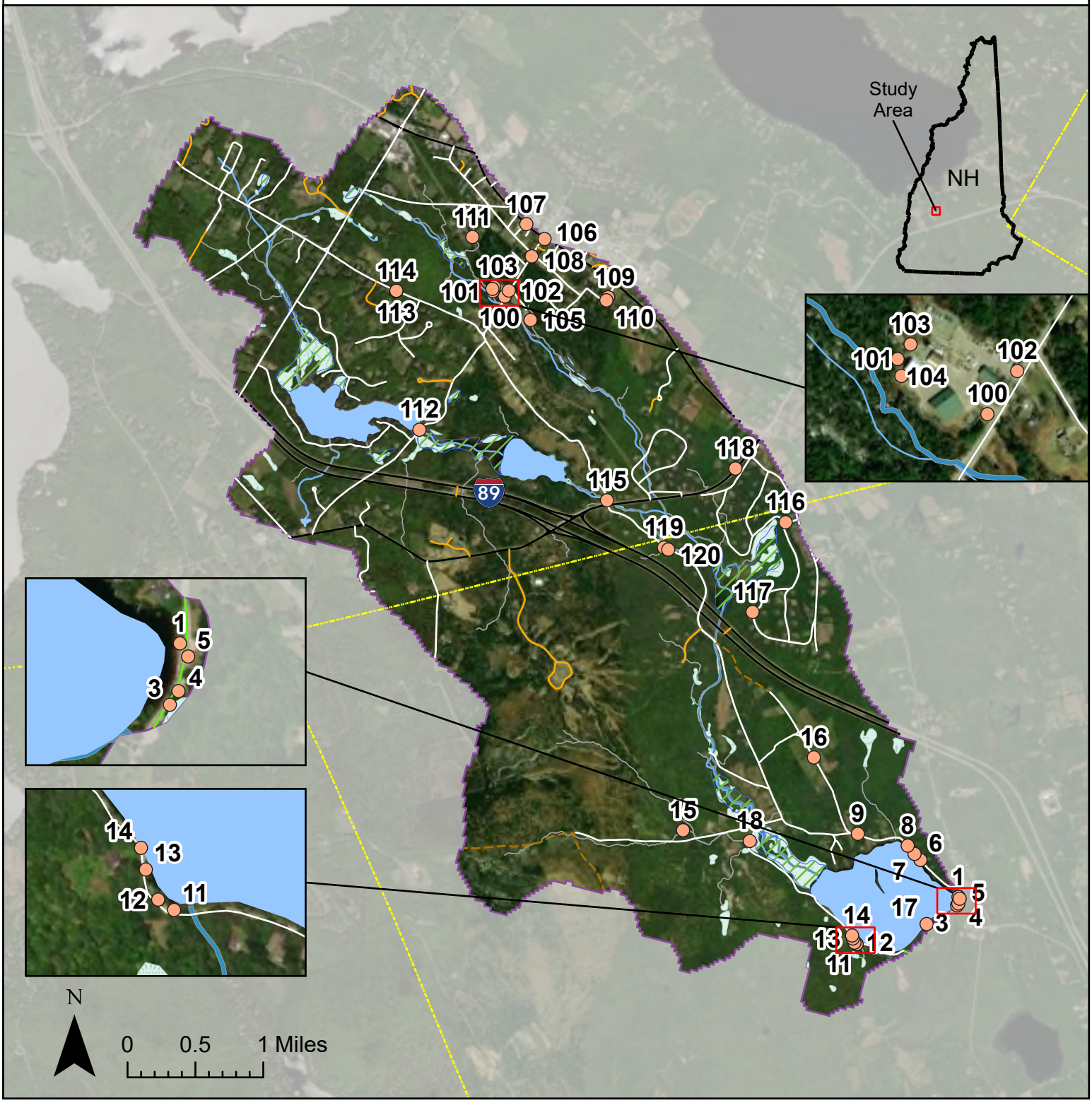
# Kezar Lake

## Watershed-Based Management Plan

## Watershed Survey

Data Credits: NH GRANIT, NHD, NWI, ESRI
Coordinate System: NAD 1983 State Plane New Hampshire FIPS 2800 (US Feet)

- Survey Point
- Watershed Boundary
- Town Boundary
- State Road
- Local Road
- Unmaintained Road
- Private Road
- Recreational Road
- Lake/Pond
- Swamp/Marsh
- Freshwater Forested/Shrub Wetland
- Riverine
- Rivers/Streams



# Appendix A. Field Data Sheets

| Site 1: Horse Beach | Project Type: Erosion |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Wadleigh Hill Road edge on lakeside | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Erosion along approx. 75% of road edge. Sparse vegetation is trampled by pedestrians making their own paths to the beach. Vegetated berm in better condition at south end of beach. Assume about 2 inches of beach erosion over 10 years, based on erosion below asphalt step. | **Recommendations:**<br>Reestablish vegetative buffer along road shoulder with berm and terrace to manage road/parking lot runoff and reduce beach erosion. Formalize and stabilize several access points to beach. |
| **PHOTOS/SKETCHES** | |
|  |  |
|  |  |

**Date Assessed:** 7/14/2025 **Assessed by:** LK TK

| Site 3: Wadleigh Hill Rd near Horse Beach | Project Type: Erosion |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Road shoulder between parking lot and dam bridge | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Eroding road shoulder and broken asphalt where vehicles used to park before “no parking” signs were installed. | **Recommendations:**<br>Revegetate road shoulder to discourage parking and stabilize eroding area. Also consider revegetation or other stabilization between parking lots, in front of lake host station. |
| **PHOTOS/SKETCHES** | |
|  |  |
|  |  |

**Date Assessed:** 7/14/2025 **Assessed by:** LK TK

| Site 4: Horse Beach south parking lot | Project Type: Erosion |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Parking lot closer to bridge | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Gravel parking lot with evidence of puddling, eroded flow paths, and general surface erosion. Sediment washes and gets tracked onto road from parking lot. Parking lot has flooded (from lake) in recent years. | **Recommendations:**<br>Stabilize gravel parking lot with geogrid or drivable grass pavers. Consider regrading to pitch away from lake and divert runoff into an infiltration practice. |
| **PHOTOS/SKETCHES** | |
|  |  |
|  |  |

**Date Assessed:** 7/14/2025 **Assessed by:** LK TK

| Site 5: Horse Beach parking near boat ramp | Project Type: Erosion |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Parking lot for boat ramp | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Gravel parking lot with evidence of puddling, eroded flow paths, and general surface erosion. Sediment washes and gets tracked onto road from parking lot. | **Recommendations:**<br>Stabilize gravel parking lot with geogrid or drivable grass pavers. Consider regrading to pitch away from lake and divert runoff into an infiltration practice. |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025 **Assessed by:** LK TK

| Site 6: Keyser St culvert | Project Type: Erosion, Maintenance |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Near 53 Keyser St | **Drainage Area Notes:** |
| **Issues/Observations:**<br>12-inch corrugated metal pipe (CMP) cross culvert at low point. Corroded, partially crushed. Ditch on east side of road leading to culvert is filled with sand, around 6 inches deep and above invert. Sand and debris at outlet. | **Recommendations:**<br>Clean and expand ditch. Remove sand and leaves at culvert inlet and outlet. Consider replacing and upsizing culvert. Install sediment forebay at culvert inlet and place cobbles/boulders at outlet to collect leaves and sediment. |
| **PHOTOS/SKETCHES** | |
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**Date Assessed:** 7/14/2025 **Assessed by:** LK TK

| Site 7: Keyser St Driveway | Project Type: Erosion |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Near high point on Keyser St | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Sediment washes down gravel driveway across Keyser St into the lake. Possibly washes down steps to lake. Existing basin on the east side of driveway. | **Recommendations:**<br>Install water bars or rubber razors across driveway to divert runoff into existing basin and reduce erosion. |
| **PHOTOS/SKETCHES** | |
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**Date Assessed:** 7/14/2025 **Assessed by:** LK TK

| Site 8: Keyser St culvert 2 | Project Type: Erosion, Maintenance |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Near conservation property | **Drainage Area Notes:** |
| **Issues/Observations:**<br>12-inch CMP cross culvert, corroded and half filled in. Hose goes through pipe from property up slope. Road sand washes into ditches. Pickerelweed growing near outfall. | **Recommendations:**<br>Clean and expand ditch and clean out pipe, inlet, and outlet. Install forebay/stilling basin at inlet and outlet and clean regularly. Revegetate. |
| **PHOTOS/SKETCHES** | |
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**Date Assessed:** 7/14/2025 **Assessed by:** LK TK

| Site 9: Keyser St ditch and crossing | Project Type: Erosion |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Downslope of Prospect House | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Corroded 12-inch CMP cross culvert, corroded and half filled with sand from road sanding and eroding flow path along road shoulder above culvert inlet. | **Recommendations:**<br>Clean ditch and culvert inlet. Formalize and armor road ditch from Prospect House down to inlet. |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025

**Assessed by:** LK TK

| Site 11: Penacook Rd kayak launch | Project Type: Erosion |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Just downslope from 101 Penacook Rd | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Gap in vegetation along shoreline. Eroding private kayak launch at low point in road. | **Recommendations:**<br>Install two water bars on kayak launch to divert runoff into vegetation. Anchor lumber into ground at an angle; could bury the lumber to secure in place or stake with 2x2-inch stakes or rebar. |
| **PHOTOS/SKETCHES** | |
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**Date Assessed:** 7/14/2025 **Assessed by:** LK TK

| Site 12: Unpaved part of Penacook Rd | Project Type: Erosion, Buffer |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Transition from paved to gravel road near 101 Penacook Rd | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Gravel road is 18 ft wide; vehicles primarily use 13 ft drive lane and slow down to pass approaching vehicles. Heavily used by pedestrians. Narrow, steep shoreline buffer with intermittent gullies eroding down to lake. Shoreline vegetation impacted by winter sand and salt. | **Recommendations:**<br>Improve drainage, stabilize erosion, and restore shoreline buffer along waterfront stretch of gravel road. Expand/maintain ditches on uphill (west) side; add forebays and armoring at cross culverts. Berm on waterfront (east) side, with stabilized outflow at low points. Consider narrowing street to single travel lane with wider pull-off/passing areas, to create space for pedestrian zone and wider shoreline buffer. |
| **PHOTOS/SKETCHES** | |
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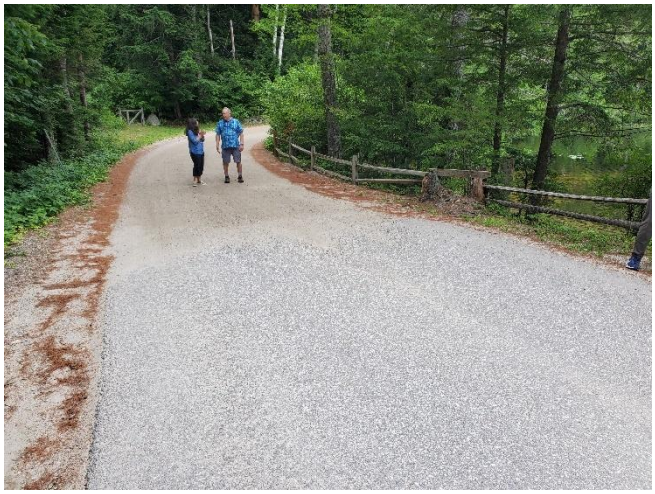
|  |  |

**Date Assessed:** 7/14/2025 **Assessed by:** LK TK

| Site 13: Low point on Penacook Rd | Project Type: Erosion |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>North of 101 Penacook Rd, near speed limit sign | **Drainage Area Notes:** |
| **Issues/Observations:**<br>At low point on Penacook Rd, gully erosion and gap in vegetation on shoreline buffer caused by runoff. Road is crowned. It's possible runoff or seepage is coming down hill across road. | **Recommendations:**<br>Maintain and widen ditch on west shoulder of Penacook Rd to manage runoff from steep hill to west. Stabilize eroding shoreline slope with riprap, level spreader, and vegetation. |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025

**Assessed by:** LK TK

| Site 14: Penacook Rd informal lake access | Project Type: Erosion |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Next to utility pole on lake side of road | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Path used for lake access in road shoulder is eroding into lake. | **Recommendations:**<br>Stabilize eroding slope and install water bars to divert runoff into vegetated buffer or create terracing with boulders. |
| **PHOTOS/SKETCHES** | |
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**Date Assessed:** 7/14/2025 **Assessed by:** LK TK

| Site 15: Rowes Creek culvert at Kings Hill | Project Type: Erosion |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Couple hundred feet from road | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Rowes Creek 48-inch CMP culvert under camp road/trail that is used for fire services and recreation. Above inlet, some bank incision and water flowing under inlet. Recent significant road washout from flooding (now filled with 6 cubic yards of gravel). Ongoing erosion of road above outlet. | **Recommendations:**<br>Replace stream culvert with open bottom box culvert to prevent further washouts. Stabilize eroding areas. |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025 **Assessed by:** LK TK

| Site 16: Muster Field Farm | Project Type: Maintenance |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Harvey Rd | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Crop fields, apple orchard, a few animals, and small-scale timber harvest for firewood. Organic fertilizers. No detention ponds except one small fire pond. Not much runoff. Adequate forest buffer around fields. Farm staff expressed concern that sugar maples along Harvey Rd may be impacted by excessive winter salting. | **Recommendations:**<br>Consider reduced salting along Harvey Rd. |
| **PHOTOS/SKETCHES** | |
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**Date Assessed:** 7/14/2025 **Assessed by:** LK TK

| Site 17: Wadleigh State Park beach | Project Type: Erosion, Buffer |
|---|---|

**DESCRIPTION**

**Location Description:**
Entire beach

**Drainage Area Notes:**

**Issues/Observations:**
Long stretch of sandy beach below line of pine trees, path, and picnic areas. Erosion around exposed tree roots. Eroding informal access points to beach at breaks in vegetation. Beach sand is regularly dragged/combed but not replenished. Retaining wall in one section (see photo). Lake level rises to picnic tables and path after big storms. Erosion is accelerating.

**Recommendations:**
Construct a retaining wall below tree line (similar to existing) and restore vegetated buffer above beach. Plant a more diverse forest mix in areas of open canopy or where dead, diseased, or hazard trees will be removed (existing red pines and hemlocks are threatened by disease). Formalize steps and paths to parking lot and beach to discourage unauthorized paths, which can cause erosion.

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025

**Assessed by:** LK TK

| Site 18: Rowes Creek at Penacook Rd | Project Type: Stream Restoration |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Rowes Creek crossing under Penacook Rd | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Open bottom box culvert under Penacook Rd. Landowners dredge stream and dig/clear banks and buffer periodically. Stream bottom is covered with fine sediment and organic matter, very different from gravel/cobble streambed on Kings Hill. | **Recommendations:**<br>Discontinue stream dredging and streambank clearing, except as permitted by NHDES. Investigate and control source(s) of fine sediment and organics. Hire a stream geomorphologist to advise on stream restoration. Stabilize and revegetate stream bank and buffer. |
| **PHOTOS/SKETCHES** | |
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**Date Assessed:** 7/14/2025 **Assessed by:** LK TK

| Site 100: New London DPW Southern Driveway | Project Type: Stormwater |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Southern driveway, south corner of intersection | **Drainage Area Notes:**<br>Drainage area appears to include half or more of garage roof, red building roof, entrance driveway, and a portion of the paved parking areas within DPW. |
| **Issues/Observations:**<br>Runoff runs down driveway to grass shoulder, some gravel and sand accumulation. | **Recommendations:**<br>Install bioretention basin at corner of DPW entrance and S Pleasant Street for stormwater treatment. |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025

**Assessed by:** JV CB

| Site 101: New London DPW Existing stormwater area | Project Type: Stormwater |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>South of salt shed, abutting berm and stream buffer | **Drainage Area Notes:**<br>Drainage area includes about a third of the garage roof and paved area between garage and salt shed. |
| **Issues/Observations:**<br>Existing shallow stormwater pond with fabric and stone below ground for infiltration. Very rarely will water rise up and overflow over berm. This area is also used for snow storage. | **Recommendations:**<br>Replace existing shallow stormwater pond with bioretention area. |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025

**Assessed by:** JV CB

| Site 102: New London DPW Northern driveway | Project Type: Maintenance |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Entrance of northern driveway | **Drainage Area Notes:**<br>Large volume of water comes to culvert from the north. |
| **Issues/Observations:**<br>Existing plastic culvert is starting to collapse, lots of water flows down to culvert. Water overtops culvert and flows down road. Armored ditch will fill up to road in large storm. | **Recommendations:**<br>Culvert replacement. Consider upsizing culvert. DPW is considering removing this entrance in redevelopment project. If this is the case, consider a larger settling basin in location of entrance. |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025

**Assessed by:** JV CB

| Site 103: New London DPW firefighter retention pond | Project Type: Stormwater |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Behind salt shed and next to firefighter training structure | **Drainage Area Notes:**<br>Drainage area is sand and gravel. |
| **Issues/Observations:**<br>Existing retention pond. Gravel driveway runs into retention pond, overtops rock wall. Piled gravel to prevent overtop. Runoff runs down sides. | **Recommendations:**<br>Add one or two deep sump catch basins to gravel parking area and outlet to retention pond. |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025 **Assessed by:** JV CB

| Site 104: New London DPW behind salt shed | Project Type: Buffer |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Behind salt shed along forest/wetland edge | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Some sand washing over edge. | **Recommendations:**<br>Extend berm around corner and behind shed up to retention pond. Revegetate behind shed. |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025

**Assessed by:** JV CB

| Site 105: Old Sewer Plant | Project Type: Erosion, Maintenance |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Maintenance road and retired sewage plant | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Gullying and gravel/sand road. Pile of sand next to streambank. | **Recommendations:**<br>Resurface road with larger stone. Remove sand pile. Clean out catch basins around building. |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025 **Assessed by:** JV CB

| Site 106: Municipal lot | Project Type: Stormwater |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Municipal lot at intersection of S. Pleasant St and Main St | **Drainage Area Notes:**<br>Parking lot. |
| **Issues/Observations:**<br>Large paved parking lot with no stormwater treatment. Sediment accumulation in northwest corner. Damaged pavement and sediment accumulation at entrance from standing water due to poor drainage. | **Recommendations:**<br>Bioretention in northwest corner. Consider re-grading and striping parking lot. Regrade entrance of parking lot to keep road runoff in road. Consider landscape/bioswale island and second stormwater practice in southeast corner. |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025 **Assessed by:** JV CB

| Site 107: Main St | Project Type: Stormwater |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Closed drainage system along Main street | **Drainage Area Notes:**<br>Main Street |
| **Issues/Observations:**<br>Catch basins do not run along gutter line/flow path. Runoff appears to bypass catch basins and turns down side roads or driveways. Business implementing armored flow path to improve eroded areas. Damaged pavement at side roads/driveways. | **Recommendations:**<br>Adjust inlet grate placement or curb line/berm to prevent bypass. Clean out catch basins or replace. Install infiltation tree trenches to treat runoff diverted from catch basins where possible. Re-grade driveway or side road entrances to keep runoff in road. |

**PHOTOS/SKETCHES**




**Date Assessed:** 7/14/2025 **Assessed by:** JV CB

| Site 108: S Pleasant Roadside | Project Type: Erosion |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>S. Pleasant St. roadside just south of Barrett Road intersection | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Sand washing around corner of Barrett Road and accumulating just upgradient of culvert outlet. Some riprap along road edge at culvert outfall. | **Recommendations:**<br>Re-shape ditch, add check dams and armor with riprap. Careful of depth for digging at the lower end because of the culvert pipe. Install sediment forebay upgradient of culvert. |

**PHOTOS/SKETCHES**


**Date Assessed:** 7/14/2025 **Assessed by:** JV CB

| Site 109: Squires Ln | Project Type: Erosion |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Roadside of 39 & 51 Squires Lane | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Gullying at catch basins and along roadside. | **Recommendations:**<br>Revegetation and sand removal. |
| **PHOTOS/SKETCHES** | |
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**Date Assessed:** 7/14/2025 **Assessed by:** JV CB

| Site 110: Squires Ln corner | Project Type: Erosion |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Roadside of 51 Squires Lane (at bend) | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Gullying along roadside and sand accumulation. Sand accumulation area about 11.5 feet wide and 20 feet long. | **Recommendations:**<br>Sand removal and revegetation. |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025

**Assessed by:** JV CB

| Site 111: Woodward Park stream | Project Type: Buffer |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Next to lower ball field at Woodward Park | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Tributary coming from woods through Woodward Park. Three culvert crossings and a small bridge. Slow moving standing water. Evidence of natural oil. No buffer and all vegetation has been mowed. | **Recommendations:**<br>Discontinue mowing to stream edge. Revegetate stream buffer. |
| **PHOTOS/SKETCHES** | |
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**Date Assessed:** 7/14/2025 **Assessed by:** JV CB

| Site 112: Bog Rd boat ramp | Project Type: Erosion |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Boat ramp/access point off Bog Road to Messer Pond | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Unstable gravel/sand sloped access point down to pond. | **Recommendations:**<br>Stabilize boat ramp. Install turnout upgradient of boat ramp if possible. |
| **PHOTOS/SKETCHES** | |
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**Date Assessed:** 7/14/2025 **Assessed by:** JV,CB

| Site 113: 236 Knights Hill Rd | Project Type: Erosion |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Roadside at 236 Knights Hill Road | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Sand accumulation and gullying. Stone check dam accumulating sand. | **Recommendations:**<br>Clean out upgradient of check dam and add second check dam. Consider armoring ditch. |

**PHOTOS/SKETCHES**


**Date Assessed:** 7/14/2025 **Assessed by:** JV CB

| Site 114: Across 236 Knights Hill Rd | Project Type: Erosion |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Roadside across from 236 Knights Hill Road | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Existing settling basins with sand accumulation. Sand along road. | **Recommendations:**<br>Add check dams and clean out sand. Revegetate 600 feet of road (8 feet wide). |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025

**Assessed by:** JV CB

| Site 115: Old Main Street/King Hill Road | Project Type: Maintenance |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>On both sides of 607 Old Main Street | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Sand accumulation in settling basin on the east side of the road and above check dam on the west side of the road. Paved swale along the western roadside edge. | **Recommendations:**<br>Clean out settling basin and check dam. |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025

**Assessed by:** JV CB

| Site 116: Meadow Brook | Project Type: Erosion |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Corner of Winslow Rd and Meadowbrook Road | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Deep gully on Meadowbrook Road. Runoff coming from Winslow Road. | **Recommendations:**<br>Add plunge pool and armor steep portion of the ditch. Revegetate lower flat area, add check dam. |

**PHOTOS/SKETCHES**


**Date Assessed:** 7/14/2025 **Assessed by:** JV CB

| Site 117: Winslow Circle | Project Type: Stormwater |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Across from 104 Winslow Circle | **Drainage Area Notes:**<br>Drainage area includes significant length of Winslow Circle. 1,000 feet of roadside swale drains to outfall. Crowned road. |
| **Issues/Observations:**<br>Outfall of long length of roadside swale that goes under several driveway crossings. Outfall drops 6 feet then 30 feet. Large amount of leaf litter accumulation. Possibly a settling basin before 30-foot drop. | **Recommendations:**<br>Install a roadside bioswale upgradient of existing settling basin. Clean out settling basin. Consider stepped pool system down to wetlands. |

**PHOTOS/SKETCHES**

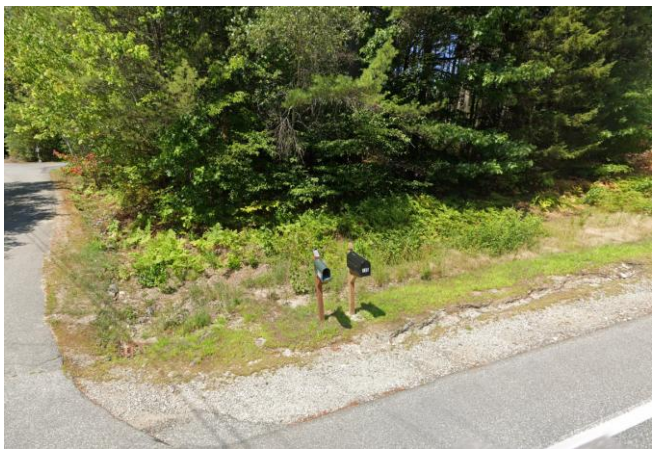
**Date Assessed:** 7/14/2025 **Assessed by:** JV CB

| Site 118: King Hill Road | Project Type: Erosion |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Roadside of 130 King Hill Rd to Rowell Hill Rd | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Gullying along roadside. | **Recommendations:**<br>Revegetate with turnouts. |

**PHOTOS/SKETCHES**



**Date Assessed:** 7/14/2025

**Assessed by:** JV CB

| Site 119: Hominy Pot Road | Project Type: Erosion |
|---|---|

**DESCRIPTION**

| | |
|---|---|
| **Location Description:**<br>Across from 332 Hominy Pot Road | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Deep ditch along road side. Freshly paved road. Appears ditch has been dug out recently. Erosion and sand accumulation starting to occur. Seed was possibly laid in ditch. Ditch crosses to other side of road in culvert at driveway crossings. | **Recommendations:**<br>Armor ditch and/or revegetate. |

**PHOTOS/SKETCHES**

**Date Assessed:** 7/14/2025 **Assessed by:** JV CB

| Site 120: Construction site | Project Type: Other |
|---|---|
| **DESCRIPTION** | |
| **Location Description:**<br>Across from 332 Hominy Pot Rd | **Drainage Area Notes:** |
| **Issues/Observations:**<br>Construction site. Steep slope down to roadside ditch. Large amount of clearing. | **Recommendations:**<br>Install erosion and sediment control practices at construction site. |
| **PHOTOS/SKETCHES** | |
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**Date Assessed:** 7/14/2025 **Assessed by:** JV CB