

Site Prioritization

Site inventory data were reviewed from previous stream inventories and assessments completed by Wyoming, Genesee and Monroe County Soil and Water Conservation District Staff for Black and Oatka Creeks. Previous inventories rated sites along the stream channels for bank condition, stream condition, erosion and sedimentation potential. An initial list of high-erosion potential sites was generated from these previous inventories. Additional sites were suggested by SWCD staff. An initial list of 41 candidate sites was developed from SWCD staff suggestions and from the stream inventories. A meeting was held with SWCD staff from Genesee and Wyoming Counties, G/FLRPC staff, and Lu Engineers where the list was further refined. Some sites were eliminated from the list due to inaccessibility or inability to obtain property owner approval for an on-site visit. Table 1 contains a list of sites initially considered for inclusion in the Black/Oatka Creek Riparian Corridor Restoration project.

Several sites with high erosion/sedimentation potential were selected for preliminary on-site reconnaissance and further evaluation. Reconnaissance visits consisted of a site walkover and visual assessment of stream condition, erosion/sedimentation issues noted at the site, and an initial evaluation of potential site remediation or restoration methods.

To facilitate property owner cooperation, initial site reconnaissance visits were conducted jointly by project investigators and SWCD staff in Genesee and Wyoming Counties. Site investigators are indebted to George Squires of the Genesee County SWCD and David Reckahn of the Wyoming County SWCD for their help in arranging site visits and in conducting site investigations. Final site selections were made after on-site consultations with SWCD staff.

Reconnaissance visits to Monroe County sites were made by the project investigator alone. Clear definition of site issues, physical accessibility, landowner cooperation, high erosion potential, potential danger to infrastructure, and project feasibility were some of the factors used in selecting the final list of sites.

Certain sites were rejected because of the number of landowners and complexity of obtaining permission to access the site, and the length of the stream reach. Other sites were rejected because issues were poorly defined, or solutions could not be developed without the active involvement of many government agencies and/or private parties.

Table 1. Initial Site List

Black Creek					
Site Number	Location	County	Inspection Date	Selected for Study?	Reason for Decision
B-30	42-59-16N 78-4-26W Stafford Country Club, Rt. 237, Stafford	Genesee	October 6, 2004	No	Site is currently being well managed by golf course superintendent. Riparian vegetation is being re-established; mowing is being limited from the edge of the channel. Superintendent would like to relocate a portion of the Black Creek channel. This site was not selected because the cost and time required to get a stream relocation project permitted is prohibitive for country club members. Golf course maintenance crews keep log jams out of creek and maintain banks.
B-37, B-38	43-0-56N 78-4-48W Private drive off Morganville Road Extension, Morganville	Genesee	October 29, 2004	Yes	The property owner is receptive to restoration ideas and wants to implement before channel degrades further. Project is feasible with in-kind labor and equipment contributions from the property owner, and could be representative for other sites with similar problems/issues.
B41, B42	43-2-3N 78-4-33W Griswold Road	Genesee	October 29, 2004	Yes	The property owner is interested in correcting severe erosion problems. The site generates significant erosion and is representative of similar problems in watershed. Prescriptive measures developed for this site would be applicable elsewhere with site specific modifications.

Black Creek					
Site Number	Location	County	Inspection Date	Selected for Study?	Reason for Decision
B52, B53, B54	43-5-29N 78-3-17W, Intersection of Cole & Mud Roads	Genesee	October 5, 2004	No	Unable to contact property owner. Access permission was not received.
CI-1	43-05-22N 77-47-13W west of Audino Lane Apts., Town of Chili	Monroe	October 6, 2004	Yes	Town of Chili owns south bank, no access permission required. Conditions at site are representative of conditions elsewhere in the watershed. High technology transfer potential.
CI-2	43-05-22N 77-46-50W Stottle Road Bridge, Town of Chili	Monroe	October 6, 2004	Yes	Site is accessible from roadbank.
CI-3	Black Creek from Stottle Road to Genesee River	Monroe	Intermittently between September and November, 2004	No	This site is very large, and includes multiple property owners, several road crossings, and severe access limitations. Solutions require cooperation from multiple parties and agencies.
No number	Black Creek at Churchville Park, Riga	Monroe	Not visited	No	Insufficient information available to define problem or to identify site(s).
No number	Black Creek at Churchville, near gaging station	Monroe	September 29, 2004	No	Project investigator visited this site, and found that site issues were not well defined. Monroe County Water Authority put in a new water line in this area, but this area is being monitored under requirements of SPDES program.

Oatka Creek					
Site Number	Location	County	Inspection Date	Selected for Study?	Reason for Decision
W1-W4	Warner Creek	Wyoming	October, 2004	Yes	Property owner is willing to allow access and site is representative of cropping conditions in watershed.
Oatr1	Oatka Creek ½ mi. north of Warsaw, Rt. 19 Bridge	Wyoming	October, 2004	No	Stream bank erosion at Rt. 19 bridge. Solution requires NYSDOT cooperation.
Oatn1 - Newburg	Newburg area, creek north of Rock Glen	Wyoming	October 4, 2004	No	Stream bank near bridge is eroding. Not selected due to issues with site accessibility.
No number	Stream across from county highway garage`	Wyoming	October 4, 2004	No	Problems at site are common to other areas in the watershed. Lower priority than Kennedy.
Oatm3	Trailer park – Keeney to Munger’s Mill Road	Wyoming	October, 2004	No	Visited site and walked area. Issues common to other, more accessible sites.
Oatm5, Oatm6	42-43-9N 78-7-43W to 42-43-15N 78-7-46W	Wyoming	October, 2004	Yes, in part	Site is accessible from Martinsville Road; high bank issue is common to other areas in stream channel. Oatm5 was not selected because it is a nickpoint in the stream (bedrock ledge)
Oatm8- Oatm9	Kennedy site 42-43-24N 78-7-42W	Wyoming	October, 2004	Yes	Property owner is cooperative and willing to have us on premises; site has most serious erosion problem in entire watershed; solutions developed here may be applicable elsewhere in watershed

Oatka Creek					
Site Number	Location	County	Inspection Date	Selected for Study?	Reason for Decision
No number	Welch's sugar camp, unnamed tributary of Oatka Creek	Wyoming	October, 2004	No	Site was one of the last we looked at during reconnaissance. SWCD staff agreed that design focus should be on Kennedy site because it had the biggest problems.
Oatp1	Pearl Creek	Wyoming	October, 2004	No	Site accessibility issues.
E001-E005	Schumacher, Clayton & Kelkenburg farms adjacent to creek	Wyoming Genesee co. line	October 2004	No	Further property owner contact and discussion is required before specific solutions can be developed.
E-06	42-52-5N 78-1-59W near former B&O track, Pavilion	Genesee	October, 2004	Yes	Access is available from parking lot at rear of Pavilion Fire Hall; railroad embankment is threatened; issues of log jams, sharp bends in stream channel, maintenance are common to many parts of Oatka and Black Creeks
E-10	42-53-53N 78-1-19W	Genesee	September, 2004	No	Insufficient problem definition. No real problem with erosion that could be addressed at that site.
E-17	42-54-32N 78-1-44W Rt. 20 Bridge over Oatka Creek	Genesee	September, 2004	No	Issue appears to be scouring at this bridge site. Stream banks are very steep, channel is deep (>6 ft) with strong currents. Canoe access unavailable due to steepness of banks.

Oatka Creek					
Site Number	Location	County	Inspection Date	Selected for Study?	Reason for Decision
E-37	42-57-49N 78-0-39W former B&O currently RSR railroad bridge over Oatka Creek, Town of LeRoy	Genesee	October 6, 2004	Yes	Scour issue and undercut bank at northwest bridge abutment ; failing retaining wall on south bank; accessible by canoe; issues are common at several other sites. Potential threat to infrastructure.
E42, E43, E44	42-58-26N 77-59-37W Sites in Vg of LeRoy	Genesee	October, 2004	Yes	Bank erosion and undercutting due to water level fluctuations; lack of woody vegetation along channel bank. Recommendations to consist of vegetative and structural measures. Stream channel too deep to permit cross section analysis and estimation of bankfull flows. Water is held bank by the dam at Rt. 5.
E045	42-58-34N 77-59-19W Village of LeRoy	Genesee	October 2004	No	Bank erosion on south side of stream channel is the subject of a remedial plan by Village of LeRoy. Village placed a large amount of rip rap along this bank to protect utilities in the bank. Hard-armoring solution already partially in place.
E-57	43-0-55N 77-57-59W	Genesee	September, 2004	No	Stream channel is on bedrock at this location, and has easy access to flood plain. Erosion is not a significant issue here.
SB-WH1	43-00-25N 77-42-03W 1198 Quaker Road, Wheatland	Monroe	November 16, 2004	Yes	Site is accessible; property owner is cooperative and willing to participate in problem solution. Site was noted in Monroe Co. study as being significant source of sediment.

Oatka Creek					
Site Number	Location	County	Inspection Date	Selected for Study?	Reason for Decision
SV-2	43-01-08N 77-44-47W (coordinates approximate)	Monroe	Not inspected	No	Site is not easily accessible by foot.

As the site selection process moved forward, the following sites were combined into one site for design purposes: B37 and B38 were combined into one site called the “Morganville Road” site; B41 and B42 were combined into one site called the “Griswold Road” site; Sites E42, E43, and E44 were combined into one site called the “LeRoy Village site”.

Lu Engineers reviewed and interpreted high quality, recent aerial photographs to understand the watershed context of erosion and sedimentation problems identified in the stream channel condition assessments prior to going in the field for preliminary site reconnaissance. Site familiarization using aerial photography and U.S.G.S. topographic maps facilitated rapid assessment of land uses and on-site conditions contributing to erosion and sedimentation on the candidate sites.

More detailed site evaluation was done at four sites (Black Creek at Griswold Road and Black Creek at Morganville Road, and Oatka Creek at the Kennedy Site, and Oatka Creek at Martinsville Road) using the Rosgen Level II and some Level III stream channel assessment techniques. Wyoming County SWCD staff assisted site investigators to survey cross sections and reach profiles, and pebble counts. At the Black Creek sites in Genesee County, site investigators completed survey cross sections and profiles and completed pebble counts.

In-stream surveys were not done at sites where stream channel depth exceeded four feet. The following sites were accessed by canoe: Oatka Creek at Pavilion, Oatka Creek at the Rochester & Southern Railroad Bridge (LeRoy), and the LeRoy Village sites, and Black Creek from Union Station Park to Stottle Road (Chili). While cross sections could not be made, maximum depth, typical thalweg depths, and bank height measurements were made at these sites. Notes were also collected on substrate condition, sediment size and distribution, soil types, and bankfull depth. Bankfull stream width was estimated from aerial photographs and on-site notes.

Site investigators developed estimates of bankfull flows based on channel morphology from survey data, as well as stream gage data from U.S.G.S. sites on Oatka Creek at Warsaw and Garbutt. Additional analyses for bankfull flows will be required before final designs can be developed for the Black Creek-Chili sites.