



Hinkson Creek

Collaborative Adaptive Management

December 11, 2017

List of Potential Projects for Stakeholder Consideration

1. Stream Stabilization Projects
 - a. i.e. Seven Oaks, near Reese Lane low water crossing off Hinkson Creek Rd
2. Additional macroinvertebrate study
 - a. Mine existing studies
 - b. Focus on specific bugs whose populations are thin
 - c. Determine cost of continued macroinvertebrate monitoring, by either MDNR or an independent consultant
3. Grade Control Program
 - a. Install grade control on minor tributaries
 - b. Focus on tributaries that contribute to where Hinkson no scoring well
4. Riparian Restoration on Public Properties
 - a. Waters Moss
 - b. East side of 63 in sewer corridor
 - c. East side of Maquire, south of Stadium
5. Identify a staff person to assist the Science Team with administrative tasks
 - a. Prepare minutes and publish on website
 - b. Create agendas (ensure continuity of items under discussion)
 - c. Help the Science Team generate more detailed descriptions for study RFP's and ballpark costs
 - d. Help coordinate reports from other teams
6. Request the Science Team to re-evaluate the list of potential projects contained in the Science Strategy with less emphasis on cost and more emphasis on what information would be the most beneficial
7. Pursue funding through the USDA Regional Conservation Partnership Program to establish a program for the Hinkson Watershed that will help promote conservation practices on private property in the upper watershed area

Additional Potential Projects Identified

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8. Retrofit Existing Detention Basins
 - a. Oak Forest Trash retrofit
 - b. Do cost benefit for retrofitting Oak Forest Dam to take longer ponding
 - c. Lake Shire Estates near Mexico Gravel and Ballenger
9. Ultra-slow conveyance retrofit
 - a. Replace failing metal pipes with much slower conveyance
 - b. Will include installing good trash and sediment BMPs
10. Proprietary BMP Retrofit Program
 - a. Prioritize placement to focus on “hot spots” like downtown that don’t get any other treatment
11. Roadside Vegetation Management for Salt
 - a. Using *distichlis spicata* (inland salt grass) to occupy roadside to withdraw salt from soil. Burn or mow and remove salt laden grass. (May be other species to use, too.)
12. Enhanced Street Sweeping Study
13. Retrofit water quality basins near MoDOT right of way between 63 and Lemone Industrial Park
14. Retrofit water quality enhancements in Forum near Green Meadows and Woodrail
15. Retrofit water quality enhancements in Providenc from Nifong to the north.
16. Improved street tree program
 - a. Install several per year
17. Roadside vegetation and soil improvement (a little different than focusing on salt)
 - a. Compost amendment of roadside soils
18. Utilize “tree lawn” areas between curb and sidewalk to have rain gardens/bioretenion/trees
19. Work with the Science Team to generate a synthesis of work/knowledge of Hinkson Creek at this point in time
20. Evaluate and possibly revise Stormwater re-development criteria
21. Offer incentives for Stormwater retrofits
 - a. Possibly apply for a Chapter 319 grant to fund this process
22. Implement Lynne Hooper’s project on sediment in Hinkson Creek and work with the Science Team to interpret results