

Birch Creek and Dan River Watersheds TMDL Cleanup Plan
Government Working Group
October 3, 2017
Danville Regional Airport, Eastern Conference Room

Information Request:

DEQ would appreciate localities sending the information listed below. While we are seeking detailed information, any form or level of information would be appreciated.

- Stormwater BMP (GIS Layers)
 - Type of BMP (Detention (Dry) Basin, Retention (Wet) Basin, Bioretention, Infiltration Trench, Manufactured Units, Constructed Wetlands, Rain Gardens, Permeable Pavement, Riparian Buffers, Urban Landuse Conversion)
 - Location of BMP
 - Drainage Area of BMP
 - Age of System
- Sewage Disposal Practices (GIS Layers)
 - Sewer Lines
 - Housing/Building Layers (with age of houses)
- Street Sweeping Practices
 - Extent and Frequency of Sweeping
 - Amount of Debris swept
- Pet Waste Program Information
 - Pet Waste Station Locations (Existing and Proposed)
 - Any ongoing educational or outreach efforts
- Streambank stabilization projects
- Stream Restoration Projects
 - Location, Length and Cost of Project
- Grant Funding Opportunities
- Ongoing or Future Watershed Plans

QUESTIONS:

Sewage Handling and Disposal:

If present, ask VDH to give an overview of their activities/programs to correct straight pipes and failing septic systems locally.

The TMDL assumed a septic system failure rate of **3%** (Dan River TMDL) of the total septic systems in the watershed.

- 1) *In order to appropriately quantify the number of new systems or connections to public sewer that address septic system failures, do we need to adjust the estimated failure rate?*
- 2) *Should there be specific failure rates by locality/watersheds?*

Straight pipe estimates during TMDL development:

Tables 3-21: Estimates of the Number of Septic Systems and Straight Pipes					
Category	#Failing Systems	# People per Household	People Served	Flow (gal/day)	Daily Load (#cfu/day)
Septic Systems	189	2.47	464	34,837	1.3187E+10
Straight Pipe	421	2.47	1,034	77,561	3.0534E+12

- 3) *Does this number seem appropriate?* Straight pipe estimates during TMDL development were 421 (Dan River Bacteria TMDL). These estimates are based on a self-reported number from a question on the 1990 census. On the 1990 U.S. Census, people were asked what type of sewage disposal system that was associated with their home: sanitary sewer connection, septic system or “other”. During TMDL development, the census data is interpreted the “other” to mean straight pipes. The 2000 and 2010 Census did not ask questions about sewage disposal. The houses included in this category are assumed to be disposing of sewer directly via straight pipes if located within 200 feet of a stream (Figure 3-20 in TMDL document). Percent of Houses within each County on public sewer, septic system, and other means.

County	% Public Sewer	% Septic Tank	% Other Means
Danville	88	12	1
Halifax	14	77	10
Henry	34	63	3
Patrick	7	86	7
Pittsylvania	8	86	6

- 4) *Is it appropriate to assume that all new development that has occurred since approval of the TMDLs (Birch Creek 2004, Dan River 2008) has been connected to the sanitary sewer system in some areas? If so, what areas?*

- 5) *Are there certain communities, subdivisions, etc. that could be referenced in the IP that generally have a higher number of septic system failures?*

- 6) *Some counties in Virginia require homes within a certain distance of the sewer system to connect. Do localities in this area enforce this type of ordinance? If so, what is the distance to the sewer system that the ordinance addresses?*

- 7) *Is there a need/interest/capability to add sewer to any areas?*

- 8) *Are there any BMPs targeting undersized sanitary sewer or overflows (SSO's)?*

- 9) *Is there a need for public sanitary sewer education?*

- 10) *If grant funds are obtained to cost-share on addressing straight pipes and failing septic systems which local agency/organization(s) would possibly be interested and best suited for this role? Southeast Rural Community Assistance Project (SERCAP), VDH, SWCDs, WPPDC, and/or DRBA? Do all of these have experience in managing grant funds?*

Agricultural Programs and Implementation Locally:

*If present, ask NRCS/SWCD to give an overview of the **federal** agricultural programs that local landowners are utilizing (e.g., CREP, CRP, EQIP, etc.).*

- 1) *What is the level of participation in these programs?*
- 2) *Is there adequate funding for these programs?*

*If present, ask the SWCDs to give an overview of the **state** cost-share program in their areas.*

- 1) *What is the level of participation in these programs?*
- 2) *What is the estimate of farmers not participating in federal and or state cost-share programs locally?*
- 3) *How much cost-share funding does each District generally receive annually? Is there adequate funding for this program?*
- 4) *Are the Districts involved in tracking voluntary BMPs? Should voluntary BMPs be included in the IP (means we would list certain BMPs and targeted numbers that could be implemented at landowner cost (e.g., stream fencing) with or without an incentive). [CL: CCI-SE-1 is not an incentive to implement fencing. It is an incentive for a farmer to maintain voluntary fencing for 5 years and for cost-shared fencing practices coming out of the 10-year life span requirement to be maintained for an additional 5 years.]*
- 5) *How was the sign-up for 100% cost share for stream exclusion?*
- 6) *How is participation in practices that would reduce loading through runoff?*

Stormwater Programs (Urban Runoff)

- 1) *Are there any efforts underway through local stormwater programs that are addressing bacteria and sediment sources that should be referenced in the IP?*
- 2) *Are there any existing illicit discharges along sewer lines in the urban areas (even if they have been addressed through corrective actions)?*
- 3) *Are there current stormwater BMPs that were constructed for runoff quantity control that could be retrofit for water quality improvement? Are there any existing designs and/or costs estimates for any of these BMPs?*
- 4) *Are there areas where streambank restoration projects could be or are being implemented?*

Pet Waste

- 1) *What is going on locally to educate about and or control pet waste?*

- 2) *How receptive would residents in concentrated residential areas be to such a campaign?*

- 3) *Who can help identify where there are existing pet waste disposal stations in the impaired watersheds?*

- 4) *Are there some other dog walking areas where disposal stations and educational kiosks should be installed? (Parks, walking trails, etc.)*

- 5) *Are there hunt clubs, kennels, other boarding facilities where dogs are confined locally long-term or either seasonally? Should these be considered as a potential source issue to address in the IP?*

- 6) *Which agency and or organization would be good to help with education to address this bacteria source? (VCE, Parks and Rec, veterinarians, others?)*

Other Bacteria Sources

- 1) *Are there other potential sources of bacteria that have not been mentioned that should be discussed?*

Integration with Other Activities and Local Planning

- 1) *Are there existing or planned activities, studies, planning efforts that should be referenced in the IP since these could possibly help with meeting IP goals?*

Regulatory Controls

We are required to identify in the IP regulatory controls in place that could be used to promote implementation. These include the state's Agricultural Stewardship Act and VDH's Sewage Handling and Disposal Regulations.

- 1) *Currently no septic tank pump-out ordinances – any in the works?*
- 2) *Any sewer extensions anticipated?*
- 3) *Any programs in place to control wildlife? Any anticipated?*
- 4) *Any pet waste (pickup) ordinances?*
- 5) *Any stormwater regulations?*
- 6) *Are there other relevant regulations and ordinances?*

Other Topics:

- 1) *Government Working Group representative to the Steering Committee? Volunteer?*
- 2) *Other Plans have quantified Erosion and Sediment controls (and in some cases “enhanced” E&S); would you share, in general, your locality's/entity's approach to E&S control?*
- 3) *With regard to street sweeping, are there opportunities to modify frequency?*
- 4) *What alternative funding sources are available?*
- 5) *Are there any additional educational needs which should be addressed?*

- 6) *Would it be possible to use local municipal mailings (utility bills, tax bills) or space on municipal websites, or through various town registers as an avenue for education on watershed cleanup, septic education [operation, maintenance], pet waste education?*

- 7) *Are there any additional or planned BMPs that we need to account for?*

- 8) *Are there any upcoming opportunities for outreach (i.e. any large gatherings of businesses) that we could piggy-back the water quality message on to?*