

# What's going on with Stormwater in the City of Salem?

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Salem City Engineer

An aerial photograph of a city, likely Roanoke, Virginia, with a dense forest in the foreground and mountains in the background. The text is overlaid on the image.

# **There are 3 focus areas of the Virginia Storm Water Management Program (VSMP)**

- Small Construction Permits**

- Municipal Separate Storm Sewer Systems (MS4)**

- Watershed Implementation Plan (WIP) for TMDLs upper Roanoke River Basin.**

# Small Construction Permit (VSMP)

- Applies to every locality in the Commonwealth
- Very similar in framework to the Erosion and Sediment Control laws
- Only applies to land disturbances 1 acre or greater
- Land disturbances less than 1 acre are not affected\*
- SWM program transferred from VDCR to VDEQ
- City staff will have to be certified for the program by the Commonwealth.
- Land owners will be responsible for long term maintenance
- Best management practices will be approved at the state level.

# Small Construction Permit (VSMP)

- Set table of fees
- 28% fees go back to Commonwealth
- If locality waives the permit fees, the Commonwealth still gets 28%
- Extra importance attached to low impact development (LID)
- No exception for redevelopment from regulations.\*\*
- Virginia Stormwater BMP Clearing house:  
[vwrrc.vt.edu/SWC/index.html](http://vwrrc.vt.edu/SWC/index.html)

# Municipal Separate Stormwater Sewer System (MS4)

- Regulation addresses non-point sources of pollution to natural water systems versus point sources such as sanitary sewer or industrial discharges.
- Pollution can come from many different sources from pet wastes to motor oil.
- Sets up 6 different categories of Minimum Control Measures.
- Public Education and Outreach
- Public Involvement/Participation
- Illicit Discharge Detection and Elimination
- Construction Site Runoff Control
- Post Construction Runoff Control
- Pollution Prevention/Good Housekeeping

# Municipal Separate Stormwater Sewer System (MS4)

The City must make the following changes to the MS4 program within 1 year after permit coverage:

- Revisions to Public Education Outreach Plan
- Illicit Discharge Procedures
- Revisions to the training schedule and program
- Single Family SWM Special Criteria
- Operator-Owned Stormwater Management Inspection Procedures
- Stormwater Pollution Prevention Plan (SWPPP) Locations
- Nutrient Management Plan (NMP) Locations

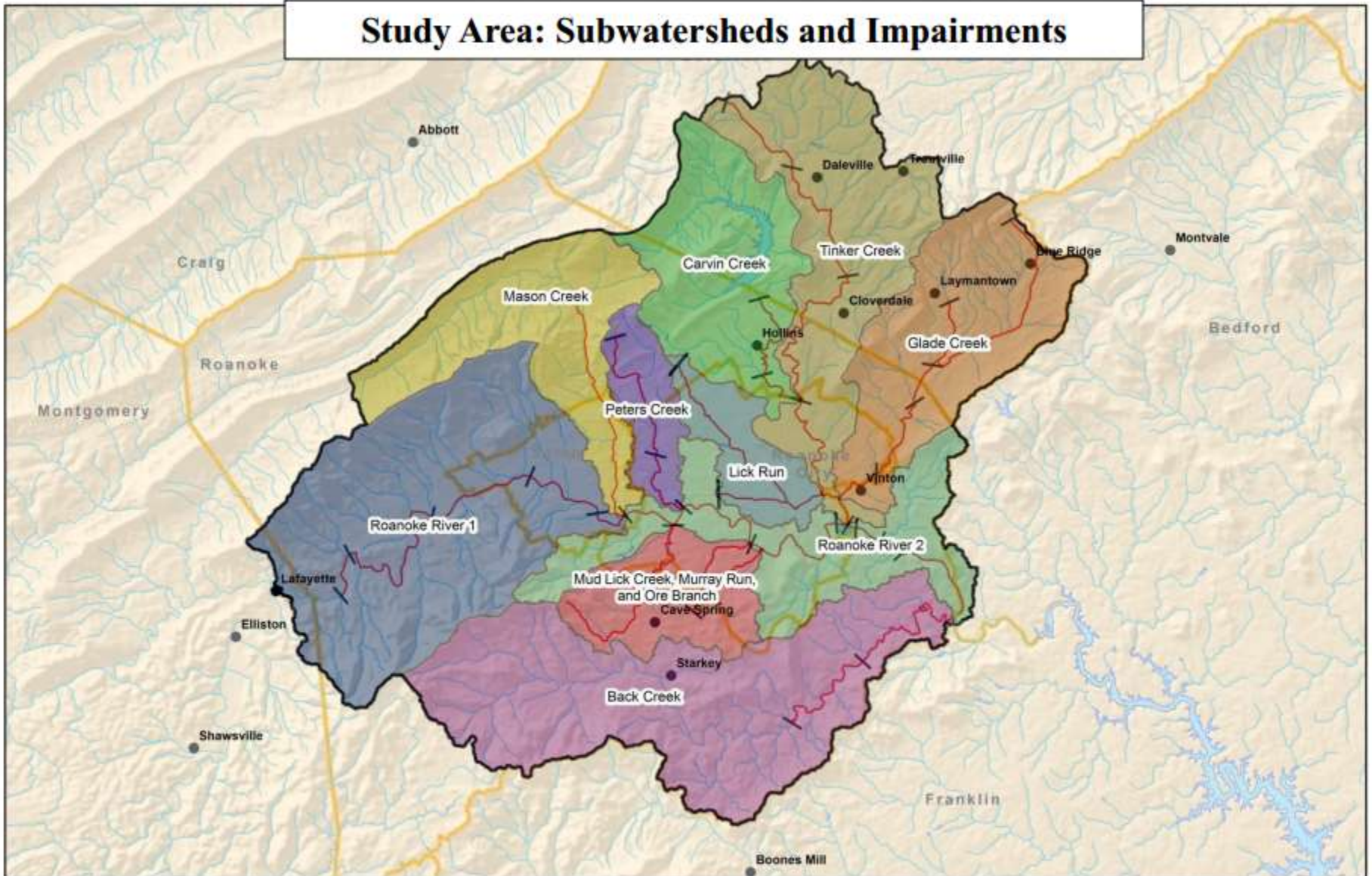


# TMDL Watershed Implementation Plan (WIP)

- Currently being developed by the Virginia Department of Environmental Quality, thru their consultant Louis Berger Group, Inc., to address the TMDLs for the Upper Roanoke River.
- Sediment
- Bacteriologic
- PCBs ????
- BMPs (Best Management Practices) may supersede local ordinances or MS4 regulations of Localities.
- The WIP will encompass areas that are regulated by MS4s and others that are not currently MS4.
- Varies working groups, such as the Residential, Agricultural and Businesses working groups.



# Study Area: Subwatersheds and Impairments



## Legend

- |                    |              |  |
|--------------------|--------------|--|
| Impaired Segments  | Back Creek   | Mud Lick Creek, Murray Run, and Ore Branch |
| Study Area         | Carvin Creek | Peters Creek                               |
| County             | Glade Creek  | Roanoke River 1                            |
| Waterbodies        | Lick Run     | Roanoke River 2                            |
| Streams and Rivers | Mason Creek  | Tinker Creek                               |
| Cities             |              |  |



0 1 2 4 Miles



## VA INDEX MAP



# Project Timeline

**April 10, 2013**

**Kick-Off Meeting:**

Introduce local agencies, government and NGOs  
Implementation Process

**June 20th**

**AG, Resid., Business Working Group Meetings:**

Discuss potential best management practices and Outreach activities

**November 21st**

**Steering Committee Meeting**

Prioritize Best Management Practices, discuss funding sources & timeline

**February**

**Public Meeting:**

Present Draft Clean up Plan to Citizens of the watersheds!

APRIL/MAY

JUNE

JULY/AUG.

SEPT./OCTOBER

NOVEMBER

DECEMBER

JAN./FEB. 2014

**June 11th**

**Open House:**

Introduce Clean up Plan to the Community, Working Group Sign up

**August 27th**

**Government Working Group Meeting:**

Discuss potential best management practices and Outreach activities

**January**

**Working Group & Steering Committee Meetings (if needed):**

Discuss implementation scenarios, cost, funding, and monitoring

Public Comment period ends 30 days after Final Public Meeting.

**NEXT STEP:**

Finalize Clean up Plan, begin implementing Best Management Practices! Kick off N. and S. Forks Roanoke Clean up Plan...

# Roanoke River Clean up Plan Contacts



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*\*There are still opportunities to be involved in the Working Groups (Business, Ag, Residential and/or Government).*



THE Louis Berger Group, INC.

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# What's Salem currently doing specifically to address TMDLs?

- Street Sweeping
- E&S regulations that regulate land disturbance beginning at 5000 square feet.
- Roadside pickup of leaves starting November 1.
- Increased public education on TMDL pollutants such as pet wastes.
- Installation of waste bag dispenser and receptacle at all greenway parking areas
- Participation in the Roanoke River TMDL action groups.
- Reevaluation of good housekeeping rules at city facilities in regards to TMDL pollutants
- Increased Landscaping

# What can you do?

- Pick up pet waste. Even in your yard.
- Properly dispose of Motor oil and other household chemicals
- Bag, mulch or compose yard clippings. Don't sweep them into the street.
- Take you car to the car wash and/or use bio-degradable detergents
- Control Erosion. Try not to leave exposed soil in your yard. Keep gardens from washing out.
- Participate in City/regional hazardous waste & chemical disposal events.
- Clean your gutters often.
- Use your garage for the car.

# Links?

My email:

- [cvanallman@saalemva.gov](mailto:cvanallman@saalemva.gov) or [engineering@saalemva.gov](mailto:engineering@saalemva.gov)

City's stormwater information:

- <http://www.salemva.gov/departments/engineering/StormWaterInformation.aspx>

TMDL and WIP:

- <http://www.deq.virginia.gov/Programs/Water/WaterQualityInformationTMDLs/TMDL/TMDLImplementation/TMDLImplementationProgress.aspx>

VSMP and MS4:

- <http://www.deq.virginia.gov/Programs/Water/StormwaterManagement/VSMPPermits.aspx>

*“Well no, I’m not an environmental scientist, but I did stay at a Holiday Inn Express last night.”*

Questions?

