

Watershed Management Area 5
Scope of Work
Stream Priority Segment
Tenakill Brook

Background

Watershed Management Area 5 (WMA 5) has a drainage area of approximately 165 square miles, which includes parts of Hudson and Bergen Counties. WMA 5 is comprised of three watersheds: Hackensack River Watershed, Hudson River Watershed and Pascack Brook Watershed. The Hackensack River originates in New York State and flows south to the Newark Bay. New Jersey's portion of the river is 31 miles long. The Hackensack River Watershed is approximately 85 square miles. Major tributaries include the Pascack Brook, Berry's Creek, Overpeck Creek, and Wolf Creek. The Pascack Brook Watershed has a drainage area of approximately 51 square miles.

Through the WMA process, the Public Advisory Committee (PAC) of WMA 5 has identified the Tenakill in its entirety (4 stream miles) as the highest priority waterbody. The Tenakill Brook was prioritized based upon several criteria: the fact that it is impaired for fecal coliform and is one of the streams that has an established Expedited TMDL for fecal coliform; it is a headwater to the Oradell Reservoir and is therefore important for water supply and improvement in water quality for a headwater will provide improvement to the watershed as a whole; the fact that it is a first order stream ensures that all the issues concerning the stream originate within the boundary of WMA 5; and the availability of other data. The Tenakill Brook originates in Tenafly and flows generally north through the towns of Cresskill, Demarest and Closter into the Oradell Reservoir. This project will complement both a non-point source project in the Town of Demarest and also the Characterization and Assessment Report for WMA 5, which is underway.

PROJECT DESCRIPTION

The objective of this project is to provide an in-depth characterization of the current conditions within the identified stream segment, and an evaluation and assessment of the findings of that characterization to evaluate and assess the short-term and long-term management measures that will be required to allow the stream to achieve full attainment of its designated uses. A Stream Characterization Report, including cost-benefit analyses, monitoring, identification of data gaps, and recommendations for further work and actions will be the principal deliverables. Achieving clean and plentiful water is a goal that requires balancing overall vision with site-specific individual characterizations. This project will provide a culmination of the vision of the WMA 5 PAC, NJDEP and other stakeholders in the watershed with the detailed analyses required to provide for actual measurable changes in water quality.

TASK

Task 1: Review of Available Data for defined segment

- a. water quality and quantity records
- b. land use summary analysis from existing GIS
- c. TMDL issues including Fecal Coliform

Task 2: Design and execution of limited water quality monitoring program to fill in data gaps needed to complete a characterization

- a. Chemical
- b. Biological
- c. Physical

Task 3: Development of Stream Segment Management Plan, including all available data, monitoring and modeling results. The overall components of the Stream Characterization Report will include:

- a. Measurable Goals
- b. Applicable BMPs
- c. Applicable Model Ordinance
- d. Mitigation Approaches used elsewhere, and their success.
- e. Timeline
- f. Identification Potential Funding sources

Deliverables

Task	Deliverable	Timeline	
<p><u>Task 1:</u> Review of Available Data for defined segment</p>	<p>Report assessing the existing data. Data will be drawn from: USGS pharmaceutical study; NJDEP; RATs/BATs; NJPDES permits/DMRs; United Water; Alpine Municipal Health Office; stormwater discharge points determined from municipal DPW records; NJDEP Known Contaminated Sites for information on specific sites such as Penatone an historical organic chemical manufacturer in Tenafly;</p>	<p>1st Quarter</p>	
<p><u>Task 2:</u> Design and execution of limited water quality monitoring program to fill in data gaps needed to complete a characterization</p>	<p>Monitoring report, including raw data available electronically; Fecal coliform sampling;</p>	<p>2nd & 3rd quarter</p>	
<p><u>Task 3:</u> Development of Stream Segment Management Plan, including all available data, monitoring and modeling results.</p>	<p>The overall components of the Stream Characterization Report will include:</p> <ul style="list-style-type: none"> Measurable Goals Applicable BMPs Applicable Model Ordinance Mitigation Approaches used elsewhere, and their success. Timeline Identification Potential Funding sources 	<p>3rd & 4th Quarters</p>	

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WMA5

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