

Location:
Kentucky

Agency:
Winchester Municipal
Utilities

Dates:
2008 – Present

Present Status:
Complete

Project Type:
Stream and Wetland
Mitigation

Major Project Elements:
Phase I Environmental Site
Assessment
Stream and Wetland
Delineations
Indiana bat habitat
assessments
Threatened and
Endangered species
surveys

Lower Howards Creek Sewer Project



The primary purpose for this project is to address sanitary sewer overflows occurring in the Lower Howards Creek Watershed to insure compliance with the terms of a Consent Decree from the Environmental Protection Agency as well as with Section 106 requirements.

The project includes 5 miles of gravity sanitary sewer line (sizes ranging from 12-in to 42-in diameter), 3.4 miles of

sanitary sewer force main (24-in diameter), one sanitary sewer pump station (10 MGD peak design), one Waste Water Treatment Plant (2 MGD average flow / 10 MGD peak flow), and two flood studies (watershed size of approximately 5 square miles each).

Jackson Group and Palmer Engineering Team members performed the environmental work on the project site. The work included a Phase I Environmental Site Assessment, stream and wetland delineations, Indiana bat habitat assessments, and threatened and endangered species surveys. A preliminary jurisdictional determination with a request for a U.S. Army Corps of Engineers 404 permit was submitted. A Kentucky Division of Water Floodplain Permit along with a 401 Water Quality Permit was submitted.

This area contained some of the best examples of historic rock turnpike walls in Central Kentucky. Cultural-historic project staff identified and evaluated historic properties, prepared the Cultural Historic Resources Survey, and assisted in redesigning of the project to avoid adverse impacts to historic rock walls, features of a Cultural Historic Landscape.



Jackson Group and Palmer Engineering Team members worked together during the site selection process for the waste water treatment plant to determine the most environmentally appropriate site. The two firms also worked together to determine gravity and force main sewer corridors with minimal impacts to avoid the need for individual 404.