



Wastewater and Water System Management Support

The Pinehills Plymouth, Massachusetts

Horsley Witten Group (HW) has been providing the Pinehills with professional engineering services since 1998 to assist in the design, permitting, and construction oversight of the water and wastewater infrastructure for this 3,000-acre planned community. Following the construction and startup of the Pinehills Water Company's pumping station and Pinehills Wastewater Treatment Facility, Horsley Witten Group has been retained to oversee the operation of the drinking water supply and distribution system, as well as the wastewater treatment facility and its collection system. HW recently designed a 150,000 gpd expansion to double the wastewater treatment capacity at the site. Horsley Witten Group's responsibilities include the following:

Pinehills Water Company (Public Drinking Water Supply):

This management contract involves the following:

- Prepare an operational plan, including the operations and maintenance requirements for the water system in accordance with the Department of Environmental Protection's requirements.
- Assist in preparing the scope of services for contract operations, interview potential operators, and recommend an operating company to operate the pumping station and its distribution system.
- Assist in training the operators to operate the pumping station and its distribution system.
- Estimate the capital cost for the entire development.
- Assist in developing the water rate calculation and justification to the Department of Telecommunication and Energy for water rate application.
- Assist in evaluating and selecting the type of water meter and method of reading and billing to be used in the Pinehills community.

www.horsleywitten.com

- Civil & Environmental Engineering
- Wetlands Management
- Coastal Management
- Hydrogeology & Water Supply
- Emergency Response
- Stormwater Management
- Wastewater Management
- Site Assessment & Remediation
- Land Use Planning
- Education & Outreach



Sandwich, MA

90 Route 6A
Sandwich, MA 02563
tel: 508-833-6600

Newburyport, MA

30 Green Street
Newburyport, MA 01950
tel: 978-499-0601

Providence, RI

370 Ives Street
Providence, RI 02906
tel: 401-272-1717



- Prepare the specification governing connections to the water distribution system.
- Assist the Pinehills Water Company in working with the operating company and dealing with operating problems.
- Assist in evaluating and selecting a contractor for emergency watermain repair.
- Advise the Pinehills Water Company on drinking water issues, such as water conservation, drinking water sampling requirements, and withdrawal permit conditions.
- Prepare the Emergency Response Plan for the water company.

Pinehills Private Sewer Treatment Facility (Wastewater Treatment):

- Design ongoing expansions to the sequency batch reactor treatment facility.
- Design a 352,000 gpd effluent disposal facility located below the Rye Field.
- Work with the Massachusetts Department of Environmental Protection to renew the Groundwater Discharge Permit for the facility.
- Assist in developing the sewer rate calculation and justification to the Department of Environmental Protection for approval.
- Prepare the specification governing connections to the collection system.
- Assist the Pinehills PSTF in working with the operating company and dealing with the operating problems.
- Manage groundwater withdrawal to fill the Pinehills Golf Club's irrigation pond in accordance with the groundwater discharge permit.
- Advise the Pinehills Private Sewer Treatment Facility on wastewater issues, such as operating and maintenance program, disposal bed repair, sampling requirements, and withdrawal permit conditions.
- Prepare the Emergency Response Plan for the wastewater treatment plant.

Contact:
Confidential

www.horsleywitten.com

- Civil & Environmental Engineering
- Wetlands Management
- Coastal Management
- Hydrogeology & Water Supply
- Emergency Response
- Stormwater Management
- Wastewater Management
- Site Assessment & Remediation
- Land Use Planning
- Education & Outreach



Sandwich, MA

90 Route 6A
Sandwich, MA 02563
tel: 508-833-6600

•
Newburyport, MA

30 Green Street
Newburyport, MA 01950
tel: 978-499-0601

•
Providence, RI

370 Ives Street
Providence, RI 02906
tel: 401-272-1717