

**GREENS AT HALF HOLLOW, HUNTINGTON  
SEWAGE TREATMENT PLANT  
SUFFOLK COUNTY DEPARTMENT OF PUBLIC WORKS**

**ENGINEERING  
SURVEYING  
PLANNING  
ENVIRONMENTAL**

**FEASIBILITY & DUE  
DILIGENCE ASSISTANCE  
LAND & SITE PLANNING  
SURVEYING & MAPPING  
CIVIL ENGINEERING  
TRAFFIC & HIGHWAY  
ENGINEERING  
SANITARY ENGINEERING  
RECREATIONAL FACILITY  
PLANNING & DESIGN  
MARINE & WATERFRONT  
ENGINEERING  
STRUCTURAL DESIGN &  
ENGINEERING  
STORMWATER  
MANAGEMENT PLANNING  
PERMITTING & PROCESSING  
ENVIRONMENTAL  
CONSULTING  
SERVICES DURING  
CONSTRUCTION**

**MEETING THE NEEDS OF OUR  
CLIENTS SINCE 1954**

**NELSON & POPE**

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Melville, New York  
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PROJECT TYPE: ADVANCED WASTE SANITARY TREATMENT PLANT  
PROJECT SCOPE: 330,000 GALLONS PER DAY DESIGN FLOW  
CONSTRUCTION COST: \$8.8M

DESIGN TEAM:  
**NELSON & POPE**

RELEVANT COMPONENTS:

- TOPOGRAPHIC & EXISTING CONDITION SURVEY
- DESIGN REPORT
- DETAILED PROCESS PLANS
- SPECIFICATIONS
- PERMITTING & PROCESSING AT COUNTY & STATE
- COORDINATION OF BIDDING
- COORDINATION OF PRE-CONSTRUCTION MEETING
- SHOP DRAWING REVIEW
- RESIDENT CONSTRUCTION OBSERVATION
- CONSTRUCTION SURVEYING
- CERTIFICATION OF COMPLETED FACILITIES
- COORDINATE PROCESS START-UP
- PREPARATION OF AS-CONSTRUCTED PLANS
- OPERATION & MAINTENANCE MANUAL PREPARATION
- REPRESENTATION BEFORE COUNTY DEPARTMENTS



THE GREENS AT HALF HOLLOW SEWAGE TREATMENT PLANT WAS AN EXISTING SEWAGE TREATMENT PLANT WITH A RATED CAPACITY OF 330,000 GALLONS PER DAY. BASED ON AN ANALYSIS OF THE EXISTING FACILITY, IT WAS DETERMINED THAT THE PLANT HAD REACHED THE END OF ITS USEFUL LIFE AND A NEW FACILITY WAS TO BE CONSTRUCTED. THE PLANT WAS DESIGNED USING SEQUENCING BATCH REACTOR TECHNOLOGY WITH TERTIARY FILTRATION TO PROTECT THE FINAL WASTEWATER DISPOSAL FACILITIES.

THE NEW DESIGN INTEGRATED NEW LEACHING FACILITIES TO ACCOMMODATE THE SUFFOLK COUNTY DEPARTMENT OF PUBLIC WORKS (SCDPW) DESIGN REQUIREMENTS. ADDITIONALLY, A FULLY INTEGRATED CONTROL SYSTEM WAS DESIGNED TO AUTOMATE THE PLANT OPERATION AND PROVIDE ADDITIONAL OPERATIONAL FLEXIBILITY.

