

PROJECT HIGHLIGHT

LONG-TERM INFRASTRUCTURE PROJECTS IN DENSE URBAN AREAS REQUIRE COMMITMENT & INGENUITY

Infrastructure projects carry inherent challenges, but when a project is spread across three boroughs in tight workspaces over three years, you need a committed and creative drilling partner to meet project goals on time.

CLIENT: New York City's Green Initiative Program

LOCATION: New York City, NY

TECHNOLOGY: Drive and wash rotary

SERVICE: Drilling, SPT

PROJECT OVERVIEW

New York City's Green Infrastructure (GI) Plan calls for the construction of thousands of bioswales in right-of-way locations to manage urban stormwater runoff. Bioswales are natural landscaping features designed to capture, absorb and filter storm water runoff to reduce stress on stormwater systems.

Aquifer Drilling & Testing, Inc. (ADT), a Cascade Environmental subsidiary, was contracted to drill a minimum of one soil boring and administer at least two percolation tests for each potential bioswale location. The data obtained would be used in determining whether each site was suitable for bioswale installation.

This project presented several challenges. First, the extent of scope the project timeline required a long-term commitment of equipment and personnel—8-14 crews for a minimum of three years. Second, the urban setting of small work sites, parked vehicles, trees and narrow sidewalks made every drilling location difficult in a unique way.

RESULTS

To ensure full staffing and sufficient equipment, ADT purchased four direct push rigs specifically for the project and dedicated 14 field crews to the project. Additional personnel and rigs from ADT and parent company Cascade provided further support during peak seasons. Crews and equipment were scheduled up to three months in advance to meet the project demands.

To conquer the restricted access issues, ADT modified Geoprobe® 6620DT and 7822DT units with auto hammers and mud swivels, making it easier for crews to drill and test on each site regardless of obstructions. This innovation made it possible to efficiently drill where requested and keep the project on schedule.

ADT successfully completed work on more than 4,000 bioswale investigation locations.



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