



SolidCast Polymer (SCP) Project Profile George Washington's Mount Vernon Wetwell

Project: 6 ½' ID x 20' Deep Diameter SolidCast Polymer Wetwell
Owner: George Washington's Mount Vernon Estate
Engineering Consultant: Waste Water Management, Inc.
Contractor: Patterson Construction, Inc.
Date of Installation: July 2004



David Rigby, President of Waste Water Management, was contacted in April of 2004 to discuss options for two corrosion resistant wetwells being designed to install at George Washington's Estates at Mount Vernon, Virginia. The addition of two wetwells was part of a 5-year capital improvement project that included many new buildings, a museum and gift shop.

As part of Waste Water Management's due-diligence, David Rigby flew to Houston, Texas to observe the SolidCast Polymer manufacturing process and verify product efficacy. Satisfied with his assessment of the product and manufacturing process, David Rigby gave a verbal order to expedite the shop drawings of the Mount Vernon, Virginia wetwells.



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The following week a formal order was received from Patterson Construction, Inc. to produce two 6 ½' ID wetwells.

The Solid Cast Polymer wetwells were completed in 10 working days and shipped to Mount Vernon, VA.

In addition to the flat-lid, the SolidCast Polymer wetwells were installed in three sections using a two-component epoxy mortar. The construction of the first wetwell was completed by lunchtime. Patterson Construction also cored a hole into the upper section of the wetwell to accommodate an 8" diameter PVC pipe drain.

The installation of the two SolidCast Polymer wetwells was completed in two days.

Since the initial installation of the Mount Vernon wetwells, both Waste Water Management and Patterson Construction have issued orders for both additional SolidCast Polymer wetwells and manholes for projects in Virginia, West Virginia and Maryland. Both organizations agree that SolidCast Polymer is their choice for sanitary sewer structures because SolidCast Polymer products:

- are completely corrosion resistant and not a thin-film coating or liner that can be easily breached.
- are lighter than concrete and cost less to install (lifting equipment).
- are reinforced and therefore stronger and safer to install.
- are impermeable and unlike Portland cement concrete, water will not permeate through the walls of the wetwell or manhole.
- have incorporated new, innovative design changes into the wetwell and manhole designs to accommodate conventional ancillary components such as manhole steps, rubber boot connectors and lifting devices.