



## **RockHardscP Precast Project Profile Wet Well Structure**

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 RockHardscP® 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.

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

The RockHardscP® wetwells were completed in 10 working days and shipped to Mount Vernon, VA.



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In addition to the flat-lid, the RockHardscP® 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 RockHardscP® 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 RockHardscP® wetwells and manholes for projects in Virginia, West Virginia and Maryland. Both organizations agree that RockHardscP® is their choice for sanitary sewer structures because RockHardscP® 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.



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