



Ben Sawyer Intracoastal Waterway (ICW) Water Main Connection Project

Why is this project necessary?

As the population of Mount Pleasant grows so does the demand for a reliable, sustainable, and redundant water supply.

With the S.C. Department of Health & Environmental Control's decision to reduce the amount of groundwater MPW can pull from the Charleston Aquifer for use in its Reverse Osmosis plants, an alternate source is necessary. The Ben Sawyer ICW Water Main Connection project provides this alternate source by allowing MPW to purchase water from Charleston Water System (CWS) following connection.

What is the benefit of this project?

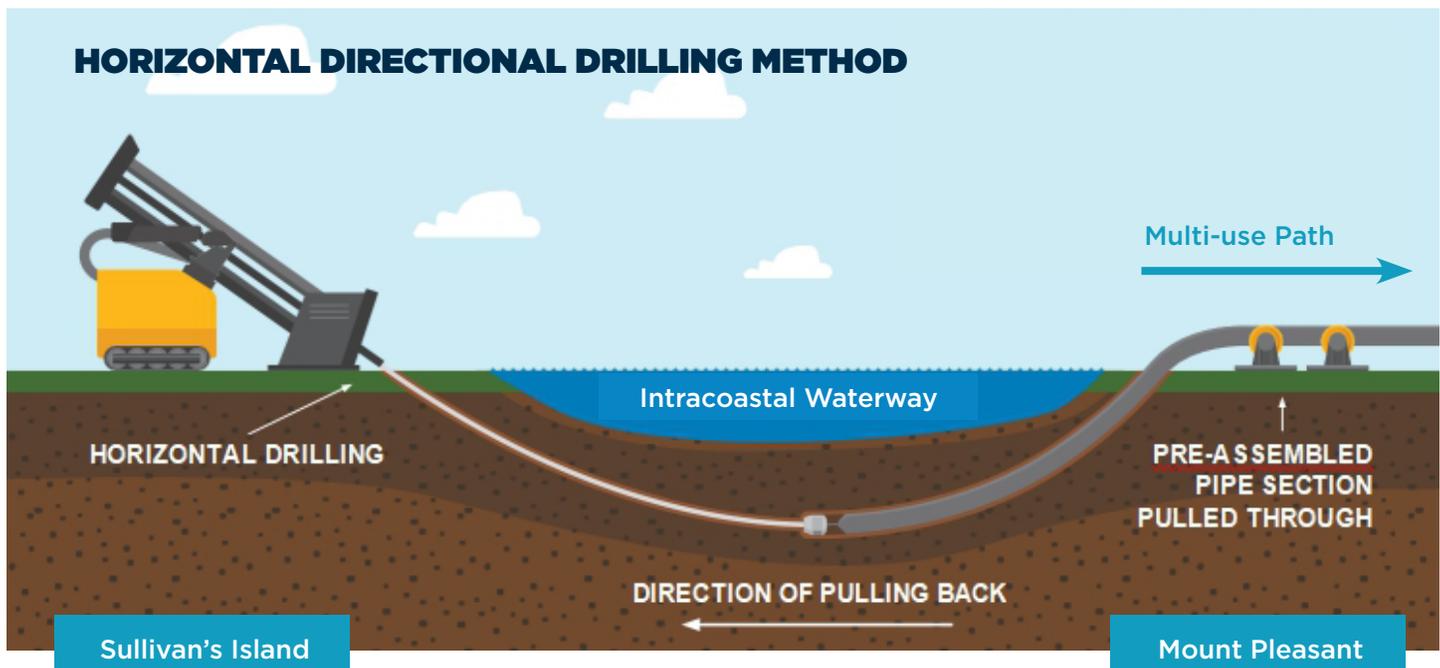
Both MPW and CWS customers benefit from this project by way of access to an additional water supply, ensuring water demand needs are met. Once completed, water can flow from CWS to MPW or vice versa, depending on the need.

Why is the multi-use bike and pedestrian path closing for a portion of this project?

- The approx. 1-mile segment of the multi-use path that runs parallel to the **Ben Sawyer Boulevard (BSB) Causeway** will serve as the staging area for the 5,000-linear foot steel pipe that will connect a Charleston Water System owned water main located on Sullivan's Island to the Mount Pleasant Waterworks owned water main located in front of Toler's Cove in Mt. Pleasant.

Why not stage the 5,000-linear foot steel pipe in a different location?

- The construction process used to connect the two water mains requires Horizontal Directional Drilling (HDD) that will allow for the pull-through and installation of the 5,000-linear foot pipe 90-feet below the Intracoastal Waterway.
- The staging area for the pipe is dictated, in part, by the location of the existing water mains identified for connection.
- The existing water mains in this project are located on the western side of the BSB Causeway





Were any other alternative designs considered for the Pipeline Staging area?

A total of three Pipeline Staging design alternatives were identified to minimize impacts to the users of the path during construction, along with the following findings:

Alternative 1: Marsh Staging

- Wooden mats constructed in the marsh on the western side of the existing BSB Causeway multi-use path
- Required 5-acres of marsh impacts and subsequent replenishment
- Environmental concerns identified: proximity to Swinton Creek shellfish harvesting beds and construction activity scheduled during harvesting season (permit challenges)
- Did not significantly improve impacts to the multi-use path

Alternative 2: 6-foot Paved Shoulder on Eastern Side of BSB Causeway

- The pipe would have been staged on the eastern side of the BSB Causeway path and bi-directional car lanes to the east as well.
- Significant site restoration following completion
- Multi-use path would not remain open due to its proximity to the heavy machinery and construction work in the staging area
- Non-compliant with SCDHEC-OCRM permitting due to runoff identified into Swinton Creek shellfish harvesting bed.

Alternative 3: Pipeline Staging along Path

- Allowed for the most confined work area, improving worker safety
- Least impact to the environmentally sensitive areas adjacent to the BSB Causeway
- Multi-use path closed, but schedule improved due to a decrease in demobilization and site restoration work

ALTERNATIVE 3 SELECTED



Environmental
Impacts reduced



Construction
Schedule shortened



More questions?

We are committed to our goal of being an excellent service provider. One way we do that is by helping to explain to the community what they can expect from us when we perform work on existing or new infrastructure. We will continue to answer your questions throughout the project. Please allow for a minimum of three (3) working days to receive a response.

Project Contact

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