



LAKE BRADFORD/CHUBB LAKE DRAINAGE STUDY

LAKE PLEASURE HOUSE OUTFALL

November 2021 | CIP 7-053.002/100229



THE PROJECT

CHUBB
LAKE

LAKE
BRADFORD

JOINT EXPEDITIONARY BASE
LITTLE CREEK - FORT STORY

PLEASURE HOUSE RD

SHORE DR

HAMPTON BLVD

CHURCH POINT PL

THOROUGHGOOD DR

CONTACT INFORMATION

Matthew Richardson, PE
Project Manager
City of Virginia Beach
Department of Public Works
Stormwater Engineering Center
LakeBradford@vbgov.com
(757) 385-4131



Please complete the online survey available on the project website by scanning the QR code or visiting the following web address:
www.vbgov.com/LakeBradford

PROJECT BACKGROUND

The Lake Pleasure House Outfall project includes the installation of storm drain pipes from the lake to the existing stormwater pump station to allow the water levels within the lake to be better maintained. This project is bounded on the north by Lauderdale Avenue, east by Fentress Avenue, south by Lookout Road, and west by Beaufort Avenue.

CHALLENGES & ISSUES

- Lake Pleasure House does not have an outfall.
- During major storm events, Lake Pleasure House fills with stormwater runoff, exceeds its banks, and floods Lookout Road and Beaufort Avenue impacting access to the neighborhoods, before discharging to Lake Bradford.
- Temporary pumps are currently used to lower the lake level ahead of major storm events.



SOLUTIONS

- Install a storm drain pipe from Lake Pleasure House to the current pump station.
- Update the electrical and control system of the current pump station.
- Continue to operate pump station as designed.
- Coordinate all pumping operations with the water level management of Chubb Lake and Lake Bradford.
- Maintain a constant water surface elevation in the lake.
- Manage rainfall events by lowering the lake levels ahead of major storm events to create storage capacity without temporary pumps.
- Chesapeake Beach Park will be temporarily closed during construction.
- This project will not increase flow to Chubb Lake or Lake Bradford.

