



NAVFAC

Mason Creek

Flood Gate Protocol

Pre-Storm

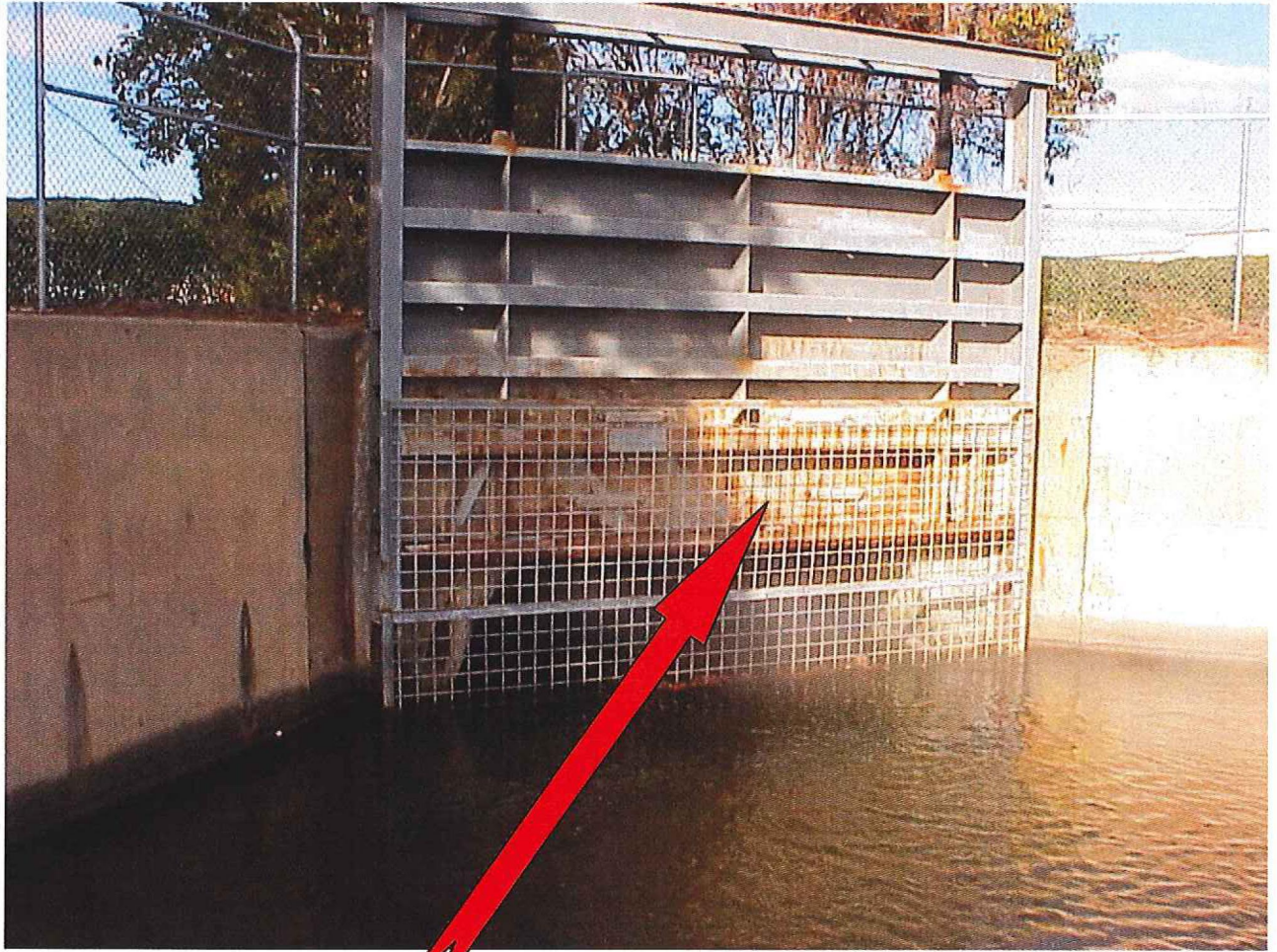
The Flood Gate will remain in the open position until such time as the National Weather Service or the Fleet Meteorological Center forecast calls for a significant weather event (**Northeaster** or **Hurricane**) to impact the Hampton Roads Area, specifically Naval Station Norfolk. The gate shall be closed approximately 24 to 36 hrs. prior to the storm impacting the area if the tidal predictions indicate a tidal surge or high tide more than two (2) feet above Mean High Tide and wind speeds are predicted to be above 25MPH. The closure will generally occur in the low tide cycle the day before the storm impacts the area.

Post Storm

Once the storm passes the gate is returned to the open position after the tide levels fall below the level inside of Mason Creek. The determination to open is based on the weather forecast and direct observation of the conditions at the Flood Gate of tidal flow through a built in relief damper in the gate. Once the water is lower on the outfall side of the gate the relief damper swings open and allows the water to start receding, at this time the gate can be reopened.



Mason Creek Flood Gate Fully Open



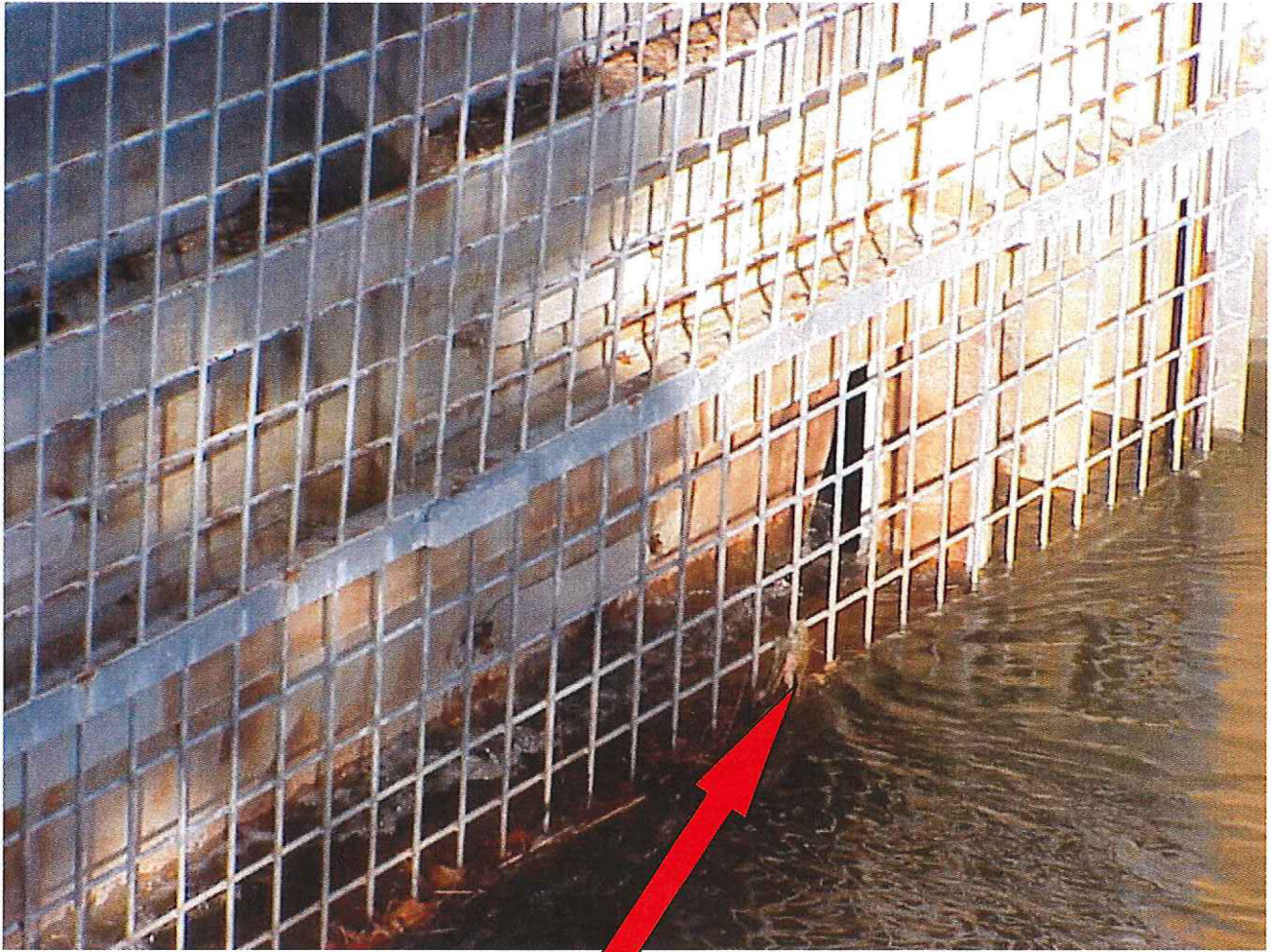
Baffle Plate

Note:

The following pictures were taken at the crest of high tide.

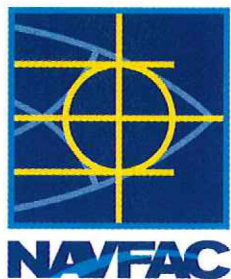


Mason Creek Flood Gate Partial Closure

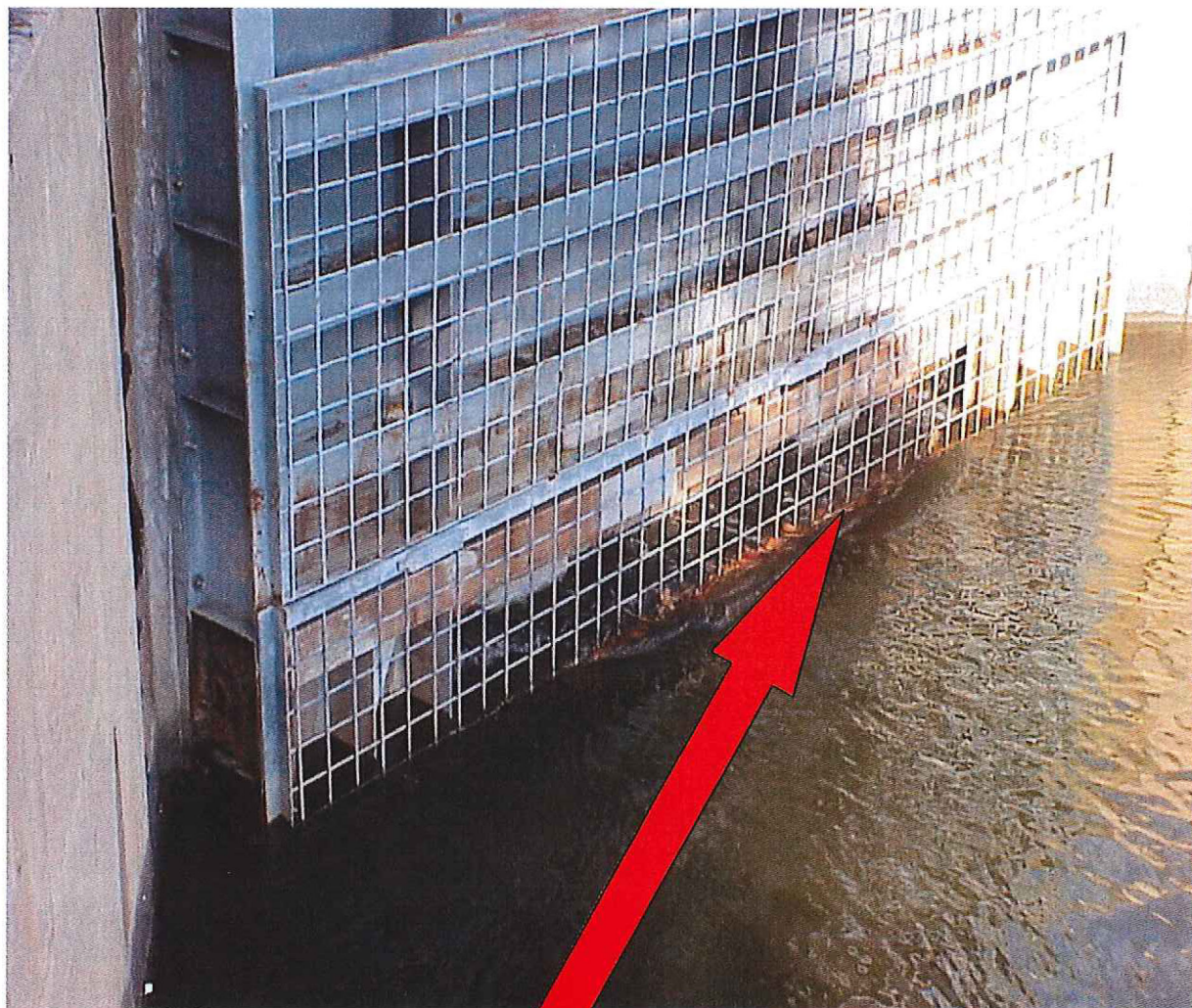


Note:

The baffle is open and allowing an outward flow.



Mason Creek Flood Gate Partial Closure

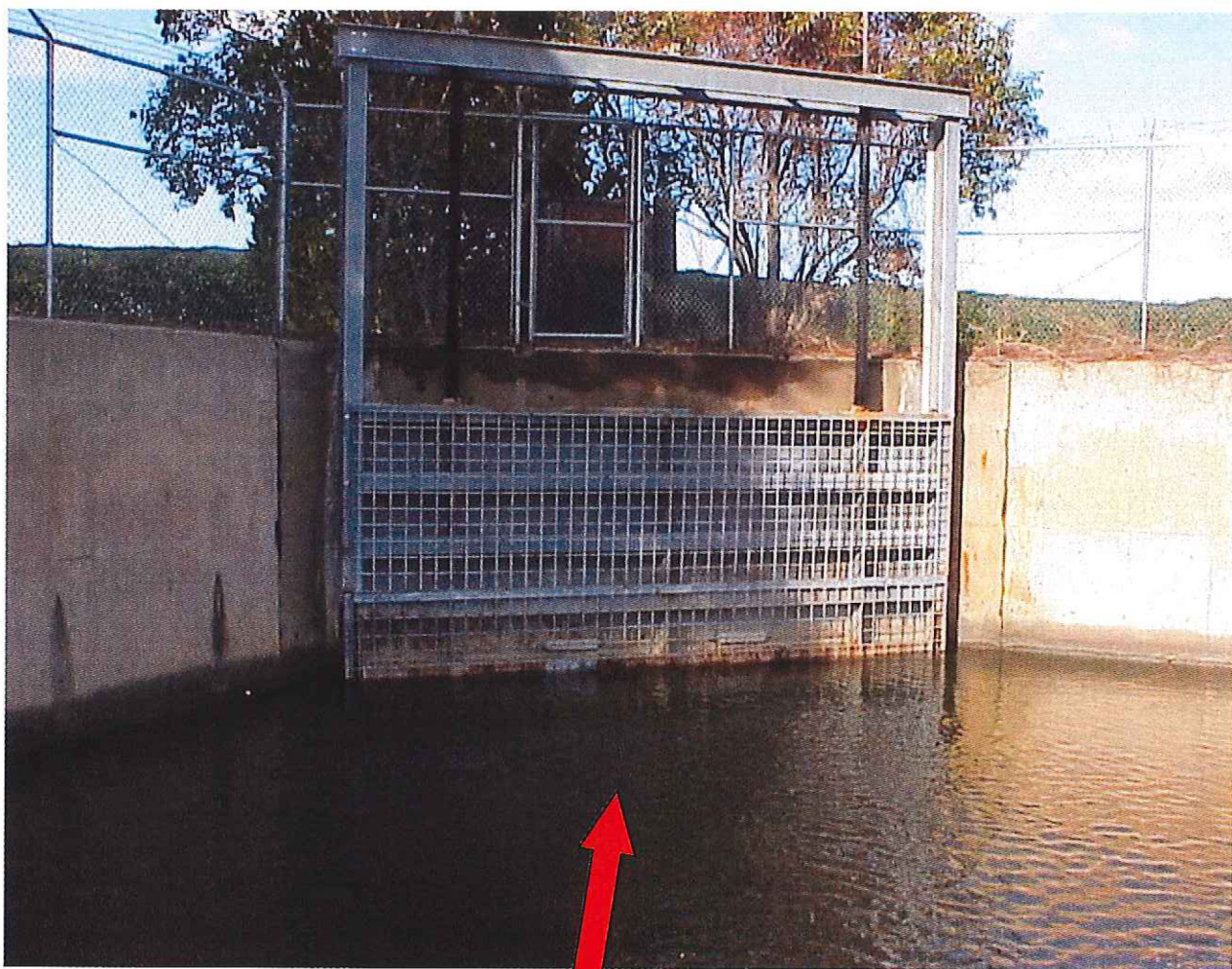


Note:

The baffle is open and allowing an outward flow



Mason Creek Flood Gate Fully Closed



Baffle Plate is submerged