



Maryland Department of the Environment  
Antidegradation Review Checklist  
**pH Management Form**



**Nontidal Wetlands and Waterways Tracking # : 20186 \_ \_ \_ \_**

**Applicant Signature:** \_\_\_\_\_

**Date Complete:** \_\_\_\_\_

It is the applicant's responsibility to ensure that discharges originating from the in-stream work sites associated with the application designated at the top of this form, remain within State water quality standards. Contact between in-stream water and uncured grout material could lead to extreme fluctuations in pH which may have an immediate adverse effect on aquatic organisms. The current State water quality standard (WQS) criterion for pH for all waters is 6.5-8.5.

To assist with pH management protocol development, MDE has provided a link to the State Highway Administration Research Report, *Identification of Techniques to Meet pH Standard During In-Stream Construction*. To save time, applicants can first review the executive summary on page 1, recommendations based on the research on page 68, a decision tree for mitigation action on page 69, and an on-site decision support and risk management framework on page 70. After completing the overview, applicants should refer to the best management practice design specifications when implementing the pH management plan suitable for the application listed at the top of this document.

Additionally, MDE is also providing a link to the *Final Report Minimizing the Impact on Water Quality of Placing Grout Underwater to Repair Bridge Scour Damage* created for use by the Virginia Department of Transportation. This report may contain additional practices for consideration.

Links to the State Highway Administration Research Report, *Identification of Techniques to Meet pH Standard During In-Stream Construction*:

[http://www.roads.maryland.gov/opr\\_research/md-14-sp109b4d\\_ph-standard\\_report.pdf](http://www.roads.maryland.gov/opr_research/md-14-sp109b4d_ph-standard_report.pdf)

Link to the *Final Report Minimizing the Impact on Water Quality of Placing Grout Underwater to Repair Bridge Scour Damage*:

[http://www.virginiadot.org/vtrc/main/online\\_reports/pdf/03-r16.pdf](http://www.virginiadot.org/vtrc/main/online_reports/pdf/03-r16.pdf)

Direct any questions regarding this form to Angel Valdez at [angel.valdez@maryland.gov](mailto:angel.valdez@maryland.gov), or by phone at 410-537-3606.