

Activity: Outlet Protection

- Maintenance**
- Permanent outlet protection should be inspected monthly through the first year after construction and annually thereafter.
 - Permanent outlet protection should be inspected after any storm events equal to or larger than a 10-year storm event.
 - Inspect apron for displacement of the rip-rap and/or damage to the underlying fabric. Repair fabric and replace rip-rap which has washed away.
 - Inspect for scour beneath the rip-rap and around the outlet. Repair damage to slopes or underlying filter fabric immediately.
- Inspection Checklist**
- Large storms can wash away the rock outlet protection and leave the area susceptible to erosion.
 - Sediment captured by the rock outlet protection may be difficult to remove without removing the rock.
 - While reducing flow velocities, outlet protection may negatively impact the channel habit.
 - Grouted rip-rap may break up in areas of freeze and thaw.
 - Grouted rip-rap may break up from hydrostatic pressure without adequate drainage.