

Section 2602. Water Pollution Control (Soil Erosion)

2602.01 DESCRIPTION.

- A. Temporary control measures for projects to control water pollution caused by soil erosion. Additional measures are described in [Section 2601](#).
- B. Projects that are regulated by the requirements of Iowa DNR National Pollutant Discharge Elimination System (NPDES), General Permit No. 2, for Storm Water Discharge Associated with Industrial Activity for Construction Activities, will be identified in the contract documents. The Prime Contractor for these projects will be required to complete, sign, and return, along with the signed contract, a certification statement for storm water discharge associated with industrial activity for construction activities. Affected Subcontractors for the project will be required to sign and return an affidavit identifying them as co-permittees with the Contracting Authority prior to starting work.
- C. Coordinate temporary water pollution control work with permanent erosion control work to ensure economical, effective, and continuous erosion control throughout the construction and post construction period.

2602.02 MATERIALS.

Use materials complying with [Division 41](#).

2602.03 CONSTRUCTION.

- A. At the preconstruction conference or prior to the start of construction, submit for acceptance the work plans and schedules for accomplishment of temporary and permanent erosion control. In addition, submit for acceptance the proposed method of erosion control on haul roads and borrow pits as well as the plan for the removal of excess materials from the project.
- B. Obtain the Engineer's approval for erosion control schedules and methods before commencing work. Schedule and perform all operations so erosion control features are placed according to the approved work plan.
- C. Provide immediate, permanent or temporary, water pollution control measures to prevent contamination of adjacent watercourses and property. This work may involve:
 - Constructing or installing silt fence, silt fence for ditch checks, silt ditches, silt dikes, silt basins, and slope drains, and
 - Using temporary mulches, mats, seeding, or other control devices or methods, as necessary to control erosion and sediment pollution.
- D. Unless otherwise specified, use compost as a filter medium in filter socks, filter berms, or filter blankets for sediment control.
- E. Stabilize disturbed areas, in which construction activity will not occur for a period of 21 calendar days, no later than the 14th calendar day after no construction activity has occurred. Stabilization measures include temporary seeding, permanent seeding, mulching, sod, or other methods the Engineer approves.
- F. Incorporate all erosion control features into the project at the earliest practical time, as outlined in the accepted schedule. Construct water pollution control measures:
 - At locations shown in the contract documents and as determined by the Contractor,
 - At locations where conditions develop during construction that were unforeseen during design, or
 - Where needed to control water pollution that develops during normal construction practices.
- G. Maintain water pollution control features in appropriate functional condition from initial construction through completion of the project. Restore siltation control features to their original condition where siltation has reduced their capacity by 50% or more.
- H. Clean-out of Silt Fence and Clean-out of Silt Fence for Ditch Check includes excavation and disposal of silt material trapped by the silt fence or silt fence for ditch checks. Shaping of the ditch

bottom to the original ditch template is incidental to this item. Dispose of the silt material off the project unless Engineer approves a suitable site within the project limits.

- I. Limit clearing and grubbing, excavation, borrow, and embankment operations in progress to an area commensurate with their capability. Progress in keeping the finish grading, mulching, seeding, and other pollution control measures current according to the accepted work schedule. The Engineer may suspend operations if the Contractor fails to provide adequate erosion control measures in a timely manner.
- J. In the event of conflict between these requirements and water pollution control laws, rules, or regulations of other Federal, State, or local agencies, the more restrictive laws, rules, or regulations will apply.
- K. The Contractor is responsible for water pollution control for work outside the right-of-way or easement obtained by the Contracting Authority.

2602.04 METHOD OF MEASUREMENT.

Measurement for water pollution control items will be as follows:

- A. **Silt Ditches.**
Linear feet (meters) to the nearest 0.1 foot (0.1 m).
- B. **Silt Fence.**
Linear feet (meters) to the nearest 0.1 foot (0.1 m).
- C. **Silt Fence for Ditch Checks.**
Linear feet (meters) to the nearest 0.1 foot (0.1 m).
- D. **Silt Dikes.**
Linear feet (meters) to the nearest 0.1 foot (0.1 m).
- E. **Silt Basins.**
By count for each silt basin.
- F. **Removal of Silt Fence.**
Linear feet (meters) to the nearest foot (0.1 m).
- G. **Removal of Silt Fence for Ditch Checks.**
Linear feet (meters) to the nearest foot (0.1 m).
- H. **Removal of Silt Basins.**
Cubic yards (cubic meters) as Class 10 Excavation according to [Article 2102.04](#) for material used to fill silt basins.
- I. **Clean-out of Silt Fence.**
Linear feet (meters) to the nearest foot (meter).
- J. **Clean-out of Silt Fence for Ditch Check.**
Linear feet (meters) to the nearest foot (meter).
- K. **Removal and Reinstallation of Silt Fence.**
Linear feet (meters) to the nearest foot (meter).

2602.05 BASIS OF PAYMENT.

- A. Payment for water pollution control items will be the contract unit price as described below. Payment for construction of water pollution control items is full compensation for labor, equipment and materials necessary to construct the items according to the contract documents.
 - 1. **Silt Ditches.**
Per linear foot (meter) for the length of silt ditches properly constructed.

- 2. Silt Fence.**
Per linear foot (meter) for the length of silt fence properly installed.
 - 3. Silt Fence for Ditch Checks.**
Per linear foot (meter) for the length of silt fence for ditch checks properly installed.
 - 4. Silt Dikes.**
Per linear foot (meter) for the length of silt dikes properly constructed.
 - 5. Silt Basins.**
Each for properly constructed silt basins.
 - 6. Removal of Silt Fence.**
Per linear foot (meter) for the length of silt fence properly removed.
 - 7. Removal of Silt Fence for Ditch Checks.**
Per linear foot (meter) for the length of silt fence for ditch checks properly removed.
 - 8. Removal of Silt Basins.**
Per cubic yard (cubic meter) for Class 10 Excavation, according to [Article 2102.05](#), for each silt basin properly filled.
 - 9. Clean-out of silt Fence.**
Per linear foot (meter) for silt fence properly cleaned out.
 - 10. Clean-out of Silt Fence for Ditch Check.**
Linear foot (meter) of silt fence for ditch check properly cleaned out.
 - 11. Removal and Reinstallation of Silt Fence.**
Two times the contract unit price for the type of silt fence properly repaired for silt fence that must be replaced by removal and reinstallation, through no fault of the Contractor.
- B.** When it is necessary for the Contractor to clean out, repair, or reconstruct a silt ditch, dike, or basin, the additional payment will be 100% of the contract unit price for construction of that item. When applicable bid items are not in the contract documents, payment for clean out, repair, or reconstruction will be according to [Article 1109.03, B](#).
- C.** If water control measures are required due to the Contractor's negligence, carelessness, or failure to install the controls as a part of the work as scheduled, and are ordered by the Engineer, perform this work at no additional cost to the Contracting Authority.
- D.** All water pollution control features are to be in functional condition before final acceptance of the contract.