

STORM WATER POLLUTION PREVENTION PLAN

PROJECT NAME AND LOCATION

THE QUARRY AT IRISH HILL - Located in Sections 11 and 12, T15N, R7W, Town of Shelby, LaCrosse County, Wisconsin.

PROJECT DESCRIPTION AND CONSTRUCTION ACTIVITY

The project consists of construction of approximately 0.8 miles of town road, including storm water drainage facilities and erosion control.

Soil disturbing activities will include: clearing and grubbing; installing perimeter and other erosion and sediment controls; excavation and grading for road and drainage facilities, construction and final site stabilization.

Detailed construction plans, grading plans, and project specifications are incorporated herein by reference.

Disturbances to the site will consist of approximately 7 acres, including grading of the road and drainage facilities.

The Drainage Plan, delineates the project boundary, on-site and off-site tributary drainage areas, direction of flow for all pre-construction and post-construction storm water run-off drainage areas, impervious areas, and lot lines. Existing and final grades are detailed on the site grading plans for construction. The location and type of Best Management Practices (BMP) are also indicated on the construction plans.

POTENTIAL FOR DISCHARGE OF SEDIMENT AND/OR OTHER POLLUTANTS

Materials and substances listed below may be present on-site during construction and have the potential to be present in storm water run-off:

| | | |
|-------------------|----------------------|-------------|
| Concrete | Hydraulic Oil/Fluids | |
| Asphalt | Gasoline | Diesel Fuel |
| Pesticides | Kerosene | |
| Cleaning Solvents | Antifreeze/Coolant | |
| Fertilizers | Erosion | |

STORM WATER POLLUTION PREVENTION PLAN – COORDINATOR AND DUTIES

The construction site Storm Water Pollution Prevention Plan (SWPPP) coordinator is the owner/developer or his designated representative.

The plan coordinators duties include the following:

- Implement the SWPPP.
- Oversee maintenance practices identified as BMP in the SWPPP.
- Implement and oversee training.
- Conduct or provide for inspection and monitoring activities.
- Identify other potential pollutant sources and make sure they are added to the plan by amendment.
- Identify any deficiencies in the SWPPP and make sure they are corrected.
- Ensure that any changes in the construction plans are addressed in the SWPPP.

The contractor and project engineer will aid in implementation of the SWPPP.

They will ensure that all housekeeping and monitoring procedures are implemented and that the integrity of the structural BMP is maintained.

The Town of Shelby will be responsible for the long-term operation and maintenance of the road and storm water facilities upon completion, stabilization and acceptance.

BEST MANAGEMENT PRACTICES INSTALLATION SEQUENCE AND TIMING

Structural BMP will be coordinated with construction activities so the BMP is in place before construction begins. The general order of activities will be as follows:

1. Install temporary perimeter controls if needed (silt fence) prior to any clearing and grading.
2. Construct stabilized vehicle exit.
3. Install temporary controls if needed (silt fence) to delineate other areas not to be disturbed prior to beginning clearing and grading.
4. Clear and grub areas to be disturbed as necessary.
5. Stockpile topsoil and provide downslope temporary protection.
6. Grade road and adjoining storm water drainage facilities.

7. Stabilize disturbed areas and stockpiles with temporary erosion protection or permanent cover for exposed soil areas year-round per following table (maximum time an area can remain open when area is not being actively worked):

| <u>Exposed Area</u> | <u>Time</u> |
|---------------------------|-------------|
| Stockpile | 7 days |
| All other disturbed areas | 14 days |

8. Prepare and final grade road subgrade, apply aggregate base, install temporary erosion control protection where needed.
9. Complete grading and drainage swales. Install erosion control and permanent cover.
10. Complete road paving.
11. At completion of all construction activity and when site is stabilized, remove temporary perimeter controls. Reseed disturbed areas due to removal.

CONTROLS

EROSION PREVENTION AND SEDIMENT CONTROL BMP

Location and type of temporary and permanent erosion prevention and sediment control BMP's are included on the final plans and in the specifications, and include standard details or reference thereto.

Temporary Stabilization:

Topsoil stockpiles and disturbed portions of the project site, where construction activity temporarily ceases, shall be stabilized per Table in Item 7 under BMP Installation Sequence and Timing above. Temporary seed shall be rye (grain) applied at the rate of 200 pounds per acre. Prior to seeding, if the area is compacted or hardened, it must be loosened by disking, harrowing, or other means. After seeding, each area shall be mulched with 4,000 pounds per acre of straw mulch. Areas of the site that are to be paved will be temporarily stabilized by applying rock sub-base until bituminous pavement can be applied.

Permanent Stabilization:

Disturbed portions of the site, where construction activity permanently ceases, shall be stabilized with permanent seed as specified no later than the above referenced time table after the last construction activity. Prior to seeding, the area is to be fertilized as specified. After seeding, the area is to be mulched as specified and disk anchored if required.

STORM WATER MANAGEMENT

Storm water drainage will be conveyed by sheet flow and drainage swales. Disturbed areas not to be paved are to be permanently seeded.

STORM WATER POLLUTION PREVENTION PLAN AMENDMENTS

Permittee(s) must amend this SWPPP as necessary to include additional requirements whenever:

- A change in design, construction, operation, maintenance, and weather or seasonal conditions has a significant effect on pollutant discharge to surface or underground waters.
- Inspections or investigations by contractor or agency officials indicate the SWPPP is not effective in eliminating or significantly minimizing pollutant discharge to surface waters or underground waters.
- SWPPP is not achieving objectives of controlling pollutant discharges, or is not consistent with this permit's terms and conditions.
- DNR, LaCrosse County or Town of Shelby notification of non-compliance with above required control.

RECORD DETENTION

This SWPPP, all changes to it, and inspection and maintenance records must be kept at the site during construction by the contractor.

Owners must keep the SWPPP and the following additional records on file for three years after submittal of the Notification of Termination (NOT) at project completion:

- Any other permits required for the project.
- Records of all inspection and maintenance conducted during construction.
- All permanent operation and maintenance agreements that have been implemented, including right-of-way, contracts, covenants, and other binding requirements regarding perpetual maintenance.
- All required calculations for design of temporary and permanent Storm Water Management Systems.

WETLANDS

Wetlands are not present on the site.

CONSTRUCTION ACTIVITY REQUIREMENTS

The contractor must implement the requirements of this SWPPP, the General Permit and requirements stipulated by the Town of Shelby and LaCrosse County, including the following requirements.

EROSION PREVENTION PRACTICES

- Plan and implement phasing and practices that minimize erosion. Appropriately delineate areas not to be disturbed before work begins.
- Provide temporary erosion protection or permanent cover within the allowable time frame.
- Wetted perimeter of drainage swales to be stabilized within 24 hours of connection to surface water.

SEDIMENT CONTROL PRACTICES

- Minimize sediment from entering surface waters.
- Establish control measures on down gradient perimeters before any upgradient activities begin.
- Sediment control practice may be adjusted to accommodate short-term activity, but must be installed immediately thereafter and prior to next precipitation event.
- Temporary soil stockpiles must have silt fence or other effective sediment controls.
- Minimize vehicle tracking from site. Sweep street if BMP not adequate.

INSPECTIONS AND MAINTENANCE

- Contractor must inspect the site once every seven days during active construction, and within 24 hours after a rainfall event greater than 0.5 inches in 24 hours.
- All inspections and maintenance must be recorded in writing and records retained to include:
 - Day and time of inspection.
 - Name of person(s) conducting inspection.
 - Findings, including corrective action recommendations.
 - Corrective actions taken (dates, times, party completing activities).
 - Date and amount of rainfall events greater than 0.5 inch in 24 hours.
 - Documentation of changes to SWPPP

- Inspection of parts of the site that have had final stabilization may be reduced to once a month.
- All erosion prevention and sediment control BMP must be inspected for integrity and effectiveness. Non-functional BMP must be repaired, replaced, or supplemented with functional BMP's.
- Contractor must comply with the following:
 - a. All silt fences must be repaired, replaced, or supplemented when non-functional or sediment reaches 1/3 the height of the fence within 24 hours of discovery, or as soon as conditions permit.
 - b. Surface waters, including ditches and conveyance systems, must be inspected for sediment deposition. Removal within 7 days is required, unless prohibited.
 - c. Stabilized vehicle exit to be inspected for off-site tracking. Sediment to be removed from off-site pavement within 24 hours of discover, or sooner.
 - d. Contractor is responsible for controls until another assumes control, or the site is final stabilized and a NOT submitted to DNR.
 - e. All off-site accumulations of sediment must be removed in a manner and at frequency to minimize off-site impacts.

POLLUTION PREVENTION MANAGEMENT MEASURES

The contractor shall implement the following measures on-site:

Solid Waste:

Collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris, and other wastes must be disposed of properly and must comply with DNR disposal requirements.

Hazardous Materials:

Oil, gasoline, paint, and any hazardous substances must be properly stored, including secondary containment to prevent spills, leaks, or other discharge. Restricted access to storage areas must be provided to prevent vandalism. Storage and disposal of hazardous waste must be in compliance with DNR regulations.

Equipment Washing Waste:

External washing of trucks and other construction vehicles must be limited to a defined area of the site. Run-off must be contained and waste properly disposed of. No engine degreasing is allowed on-site.

FINAL STABILIZATION

Contractor must ensure final stabilization of site. Permittee(s) must submit NOT within 30 days after final stabilization is completed, or another owner/contractor has assumed control over areas that have not undergone final stabilization.

Final stabilization can be achieved as follows:

- Soil disturbing activities have been completed and all soils stabilized by uniform perennial vegetative cover with seventy percent (70%) density over entire pervious area, or other equivalent means to prevent soil erosion, and
 - a. drainage ditches are complete and stabilized.
 - b. all temporary BMP have been removed as part of final stabilization