

Storm Water Pollution Prevention Plan
For
Timothy Beecham
02-03-2017

3.5333Description:

This plan is for 1.5 acres of a 3.10 acre site for the evacuation of one pit 105 feet by 205 feet for the construction of one 2480 head hog barn and the surrounding area to store removed soil. The drainage will flow .25 miles through woods before entering an Spring Creek. After excavation one 100 ft by 200 ft hog barn will be built. When the barns are finished the area will be graded to no more than 2% and sown in grasses. The soil is expected to be silt loam, which presents dissolved solid problems in the runoff. Fabric fencing and the groundcover will provide control of this problem.

First all silt fencing will be put into place, once control measures are in place the pit will be excavated and the concrete will be poured.

After the concrete is finished dirt will be moved back around the walls for final grading before being stabilized and sown in grass.

The SWPPP and NOC will be located at the entrance to the worksite.

There are no other industrial discharges on site.

No chemicals or other waste materials will be stored on site.

There will be no onsite waste disposal or septic system

There is no off site material storage

All areas will be stabilized after dirt work has stopped temporarily or permanently for more than 14 days

Preexisting vegetative ground cover will not be disturbed more than 14 days prior to earth disturbance.

Endangered species should not be affected due to the fact that there will be no work close to a stream and no runoff should reach a stream

Runoff Problems:

Fabric fencing will be placed within 50 feet of the work area before the evacuation work begins. This fencing will be placed along the South, west, and east slopes of the work site. An on demand inventory system will be used and will prevent the development of an onsite runoff problem from storage areas. An existing road from Radford lake Rd. to the work area exists. The road is graveled and a gravel parking area is already on site. Construction equipment will be on site until work is completed then moved to other work sites which will limit off site tracking of soils, all other traffic will be personal cars of workers and expected to park on graveled areas.

The area will be sloped 1% to provide drainage and eliminate the need to dewater. Drainage from the work area will become sheet runoff and follow the path of site runoff through the fabric fence and groundcover.

Water accumulated in excavated pits will be removed through field tile to be released inside the site's sediment control structures.

All liter debris and chemicals will be removed and placed in secure locations before any anticipated storm event.

Sediments that have migrated off site will be removed to minimize impact to surface waters.

Structures:

Fabric fencing will be placed in a 4 inch trench 6 inches wide, 3 inches of the fabric will be placed on the trench floor and the trench backfilled and tamped to insure stability, post will then be placed at 6 foot intervals and the fabric attached. Existing groundcover below the fabric fence will be left in place.

All accumulated sediments will be removed by hand if and when they reach 50% capacity of the silt fencing before the next rainfall event and before no longer than 7 days.

All repairs to sediment control structures will be carried out before the next rainfall event and before no longer than 7 days.

Permittee is responsible for implementation and upkeep of control measures

Any fill dirt used in the project will be coming from on site

Post Construction Storm Water Control:

When completed there will be one 100 feet by 200 feet hog barn. After final grading all remaining disturbed areas adjacent to the barns will be sown in grasses and the drip line of the building will be rocked with 1.5 inch or larger stone to control erosion. All areas within the site where soil is taken from to build up the pad will be sown in grasses when the work is finished. There should be no net change in the quality of runoff from the site.

Using the Rational Method the Runoff Coefficient after construction is completed is:

$$Q=Cia$$

$$C: 0.28$$

$$i: 0.156 \text{ inch/hour}$$

$$a: 3.5$$

$$Q = 0.15288 \text{ ft}^3/\text{s (cfs)}$$

Soil removed during construction that was stockpiled on site will be redistributed around the barns

Inspections:

Inspections will be conducted twice weekly by Danny Ham on Mondays and Thursdays then after any rainfall that produces runoff. Onsite workers will be instructed by the owner-developer to remove any accumulated soils whenever they present a danger of collapsing the fence and make repairs if there is any damage.

Revisions:

Any revisions to this plan will be incorporated as needed. If material changes are made to structures or barn design copies will be forwarded to the Jackson FO of the TN DWPC.

“I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities onsite are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing Violations, and for failure to comply with these permit requirements.”

Tom Beechan

Sign

3.13.17

Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Tim Beecham

Sign

3-13-17

Date