



Environmental
Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

Re: Hancock County
VVC, New Facility
Construction
Storm Water

June 22, 2011

Mr. James Vorst
Vorst Custom Cabinets LLC
7141 Old State Route 224
Ottawa, Ohio 45875

Mr. Michael Taylor
TAYLOR BROTHERS
11698 Township Road 124
Rawson, Ohio 45881

Dear Mr. Vorst & Mr. Taylor:

On May 17, 2011, Lynette Hablitzel, Judson Delancey and I inspected VVC, New Facility at 12495 County Road 99, Allen Township. The purpose of my visit was to evaluate compliance of the site with the National Pollutant Discharge Elimination System (NPDES) permit for storm water discharges associated with construction activity, Facility ID No. 2GC02694*AG. The inspection was conducted under the provisions of Ohio's water pollution control statutes, Ohio Revised Code (ORC) Chapter 6111.

As a result of the inspection, we have the following comments:

1. At the time of inspection, construction at the site appeared complete. The building was constructed and occupied. A driveway, parking lot, storm sewers and detention pond had been installed.
2. The Storm Water Pollution Prevention Plan (SWP3) and inspection logs were not reviewed.
3. A large portion of the site's runoff drained to the detention pond on the north side. Without reviewing the SWP3, we cannot verify whether the detention pond is of sufficient depth, volume and configuration to fulfill the requirement of a sediment settling basin.

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Permit Requires: Concentrated runoff and runoff from drainage areas which exceed the design capacity of silt fence or inlet protection shall pass through a sediment settling pond. To qualify as a sediment settling pond, structures must meet the following specifications: a dewatering zone sized at 67 cubic yards per total contributing drainage acre; dewatering depth less than or equal to 5 ft. (optimal depths are between 3 to 5 ft.); for ponds serving 5 acres or more, the dewatering zone shall have a minimum 48 hr. drain time; a sediment storage zone sized at 1000 c.f. per disturbed acre; and the distance between inlets and the outlet at least 2:1 length:width ratio. *Please see Part III.G.2.d.ii. of the permit.*

4. Even though a large portion of the site drained to the pond, sediment controls were not in place to address all runoff from the site. Runoff from bare ground on the north end of the site drained into the ditch along TR 99 and runoff south of the building drained southward. There appeared to be sedimentation in the ditch northeast of the driveway off TR 99. *Permit Requires:* Sheet runoff from denuded areas shall be intercepted by silt fence or diversions to protect adjacent properties and water resources. *This is a violation of Part III.G.2.d. of the permit.* I recommend installing silt fence on the northeast side of the drive until the upslope area has reach a 70% density of vegetative cover.

5. The site appeared to be at final grade. All temporary or permanent stabilization has not been established. Long term erosion was evident by the rills present on the pond's banks and the soil stockpile located on the south side of the site. The presence of rills and the amount of weed growth indicate the timeframe for stabilization may have been exceeded.

Permit Requires: Portions of the construction site which will be inactive for more than 21 days must have temporary stabilization initiated within the first seven. Temporary stabilization is required prior to the onset of winter weather for ground that will be idle over winter. Permanent stabilization is required within 7 days on any portion of the site that has reached final grade or will be idle for longer than 1 year. Soil stabilization practices shall be initiated within two (2) days on inactive, barren areas within 50 feet of a stream. Permanent seeding and mulching is required before construction activity is completed throughout the entire site. If seasonal conditions prohibit the establishment of vegetative cover, other means, such as mulching and matting, must still be used and maintained until more permanent methods can be implemented. *Failure to do so is a violation of Part III.G.2.b.i. of the permit.* All areas not being actively worked must be stabilized as per the requirements of the permit.

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We recommend that all inactive, unstable areas be seeded and mulched (straw at 2 tons/acre). Where portions of the roadside ditch have been disturbed and for the pond banks, erosion control matting may be required in lieu of straw mulch.

6. **Post-Construction Storm Water Management** - It appears that the detention pond may be intended to meet the post-construction storm water management requirements of the permit. Without reviewing the SWP3, this cannot be verified. VVC, New Facility is required to have one or more of the permanent structural post-construction Best Management Practices (BMPs) listed in Table 2 of the permit to treat the water quality volume (WQv) and ensure compliance with Ohio's Water Quality Standards listed in *Ohio Administrative Code 3745-1*. An additional volume equal to 20% of the WQv is to be incorporated into the BMP for sediment storage and/or reduced infiltration capacity. Drain times must meet those in Table 2 of the permit.

Within 10 days of the date on this letter, please submit to this office written notification as to the actions taken or proposed to prevent any future violations. Your response should include the dates, either actual or proposed, for the completion of the actions. Please assess the constructed retention pond and include verification that it currently meets the design requirements of the permit for a sediment settling pond. Please also submit the information in your SWP3 that demonstrates how the post construction storm water management requirement will be met. Your reply should include a statement about the type(s) of BMPs implemented, a site map showing the location of each practice, a delineation of its tributary drainage area and its size, and the basis for its design. For each control include: the calculations of the Water Quality Volume (WQv), a detail drawing of the structure with relevant elevations, stage-storage tables, release rate calculations, and a drawdown volume/time curve or equivalent.

If there are any questions, please contact me at (419) 373-3006.

Sincerely,



Brian McGlown
Division of Surface Water
Storm Water Program

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DSW-NWDO File

Gary Tuttle, Drainage Coordinator, Hancock County SWCD
Steven C. Wilson P.E., P.S., Hancock County Engineer