



Environmental  
Protection Agency

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

July 11, 2011

RE: SUMMIT COUNTY  
CITY OF MACEDONIA  
WESTERN RESERVE  
GRACE BRETHERN CHURCH  
CONSTRUCTION STORM WATER

Mr. Jason Haymaker  
Western Reserve Grace Brethren Church  
1066 E Aurora Road  
Macedonia, OH 44056

Dear Mr. Haymaker:

On June 23, 2011, I, along with Dan Bogoevski of the Ohio EPA, performed an inspection at the above-referenced site to determine compliance with the Ohio EPA General Storm Water National Pollutant Discharge Elimination System (NPDES) Permit for Construction Activities #3GC05012\*AG. Our records indicate that Western Reserve Grace Brethren Church was granted coverage under the NPDES permit on July 16, 2010.

During my inspection, I documented the following deficiencies:

1. The sediment basin/trap that is present on site does not have an appropriate outlet structure (Figures 1 and 2). Although the Storm Water Pollution Prevention Plan (SWP3) calls for a sediment trap, a sediment basin is really necessary to treat the runoff from a site of this size. You should contact the engineer for this project to request the design specifications of a properly designed outlet structure (either a riser pipe or a skimmer device). The design requirements for these structures can be found in the *Rainwater and Land Development Manual* (Ohio Department of Natural Resources, 2006), available on-line at <http://www.dnr.state.oh.us/tabid/9186/default.aspx>.
2. Silt fence is missing or is in need of repair in many locations. Along the back of the property, the silt fence was placed in what appears to be a wetland (Figure 3). Please move the silt fence closer to the disturbed area to prevent sediment-laden water from passing through the wetland before being treated by the silt fence. In addition, silt fence is needed along the border of the neighbor's property on the right side of the site (Figure 4). Finally, please be sure that all of the silt fence is trenched six inches into the ground and is backfilled properly. Please also be sure to twist the ends of neighboring pieces together to prevent breaches in the fence (Figure 5). This will prevent sediment-laden water from flowing off site, as is currently occurring (Figure 6).

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3. Along the right side of the property next to the woods, concentrated flow is directed toward the silt fence (Figure 7). You should consider installing a properly designed sediment trap in this area to treat the concentrated flow of runoff on this portion of the site. Design specifications for a sediment trap can also be found in the *Rainwater and Land Development Manual*.
4. No controls are present along the road at the left edge of the property (Figures 8 and 9), allowing sediment-laden water to leave the site (Figure 10). Please install silt fence around all disturbed areas along this side of the site. If you determine that the amount of runoff is too great for the silt fence to effectively control, you should construct a sediment trap in this area and divert the runoff to this structure.
5. The inlet protection that is present on the storm drain is not an approved control (Figure 11). As a result, sediment has collected in the catch basins (Figure 12). Please remove the sediment from all catch basins and install an appropriate form of inlet protection on all storm drains (Figure 13). You may consult the *Rainwater and Land Development Manual* for an appropriate inlet protection design.
6. A diversion that carries water to the sediment basin is shown in the SWP3, but has not been installed. Instead, the runoff has eroded alternative channels to the basin. Please construct the diversion as shown in the SWP3 to reduce the number of erosion gullies along the banks of the basin.
7. The entire site lacks stabilization (Figure 14). If any areas will not be worked within 21 days, you must temporarily stabilize these locations within seven days of the last earth disturbance. In addition, you should seed and mulch the dirt stockpile in the rear of the property and the banks of the sediment basin. This will prevent additional erosion channels from forming and will reduce the amount of sediment that needs to be removed from the runoff.

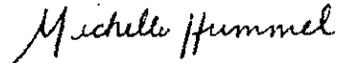
Please provide me with a letter of response indicating the actions you will take to address the deficiencies noted above. Your response, along with any amendments to the SWP3, must be submitted to the Ohio EPA **no later than July 22, 2011**. If corrective actions are not completed by this date, please include a schedule that outlines when action will be taken. It is Ohio EPA's expectation that all of these deficiencies will be addressed within 10 days of receipt of this letter.

Finally, please fax a copy of your most recent storm water inspection report to my attention at (330) 487-0769 or via e-mail at [michelle.hummel@epa.state.oh.us](mailto:michelle.hummel@epa.state.oh.us). The NPDES permit requires you to inspect all storm water best management practices once every 7 days and within 24 hours of a 0.5-inch or greater rainfall. The results of these inspections must be documented as indicated in Part III.G.2.i of the NPDES permit.

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If you have any questions regarding this matter, please contact me at your earliest convenience at (330) 963-1128.

Sincerely,



Michelle Hummel  
Assistant to the District Engineer  
Division of Surface Water

MH/mt

cc: Nick Fini, Engineer, City of Macedonia  
Don Kuchta, Mayor, City of Macedonia  
Cindy Fink, Summit SWCD

ec: Phil Rhodes, Ohio EPA, NEDO, DSW

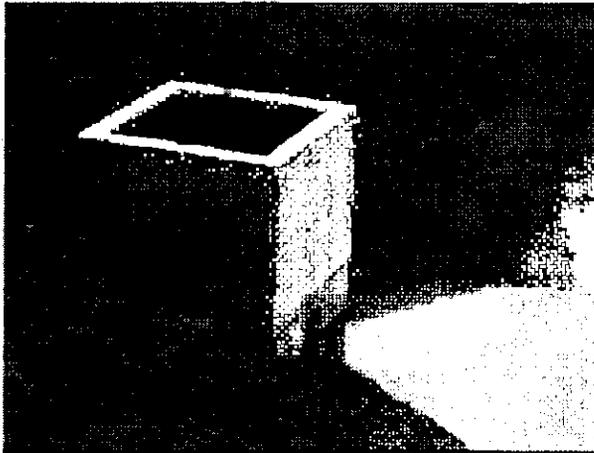


Figure 1 – The current outlet structure is not appropriate for treating sediment-laden water.



Figure 2 – A riser pipe or skimmer device is needed on the sediment basin.



Figure 3 – The silt fence along the back of the property should be moved closer to the disturbed area.



Figure 4 – Silt fence should be installed along the neighbor's property to prevent sediment from leaving the site.

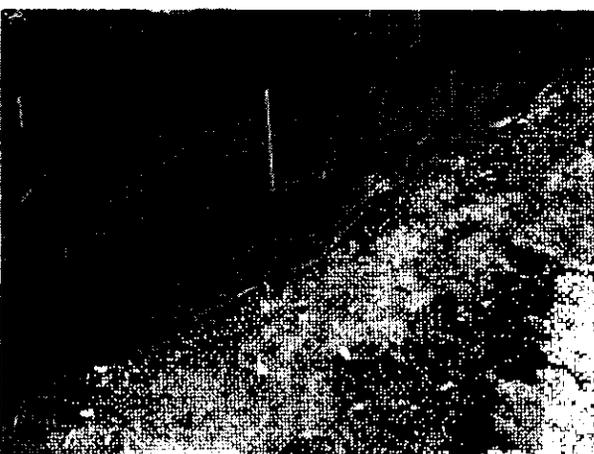


Figure 5 – The silt fence along the left side of the property needs maintenance.

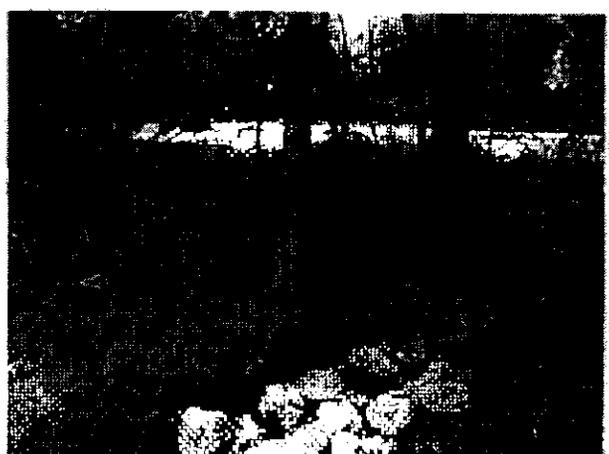


Figure 6 – Sediment-laden water is flowing into the neighboring woods.



Figure 7 – Concentrated flow is occurring on the right side of the property.



Figure 8 – No controls are present along the road on the left side of the property.



Figure 9 – No controls are present on the left side of the property.



Figure 10 – Sediment-laden water is flowing off the property.



Figure 11 – The current form of inlet protection is not an appropriate sediment control.



Figure 12 – Sediment has collected in the catch basins.

Western Reserve Grace Brethren Church  
City of Macedonia Summit County

Photos Taken: June 23, 2011  
By: Michelle Hummel, DSW, NEDO

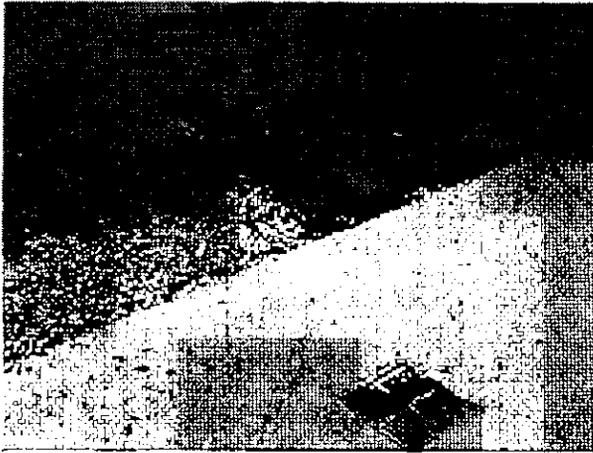


Figure 13 – Inlet protection is missing.



Figure 14 – The site lacks stabilization.