



Deerfield Regional Storm Water District

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Annual Report – Third Permit Year Deerfield Township Storm Water Management Program

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In our third permit year, the District has been able to start meeting many of the goals laid out in our storm water management plan. Those we could not meet will be addressed with a timeline for completion.

In 2005 the District created a Storm Water Advisory Committee who worked with our engineering firm, CDM, to develop programming and fee recommendations. The District Board has accepted their recommendations and will be holding several public meetings in the spring of 2006 to present these findings to the community. The Board hopes to have a storm water fee in place in early summer of 2006 at which time we'll be able to address the goals of our storm water management plan more aggressively.

Public Education and Outreach

1. **BMP:** Storm water information distribution to the general public.
Deerfield Township's web site contains storm water information provided by the District. The District again participated in Deerfield Township's annual festival with a booth, brochures, and demonstrations of how storm drains operate. The District also developed and handed out activity sheets including a watershed word search, a storm water crossword puzzle, a coloring sheet, and a maze. Warren County Soil and Water Conservation District also distributed brochures at the same festival. Samples of the brochure and activity sheets are included.
2. **BMP:** Develop alternative information sources such as websites, billboards, and refrigerator magnets.
Currently the Township's website is used for storm water issues. This year, the District has had more input into what is posted on the web site. Currently, all the minutes from our public meetings are available along with copies of presentations prepared for our Storm Water Advisory Committee. The Storm Water District is discussing an expanded web site for storm water issues.
3. **BMP:** Conduct storm drain stenciling, tagging project with accompanying door hangers for residents.
The storm water district has contracted with the Warren County Soil and Water Conservation District for this service. This year maintenance work needed to be done on existing storm drain tags because the adhesive was not holding. The WCSWCD had instituted a program with the area schools for fourth graders to do the tagging as a field trip. However, due to curricular issues in the schools, this program was cut. Third graders from one area elementary school will be helping this spring. Currently, WCSWCD is developing contacts with volunteer groups such as girl scouts and boy scouts, and the District is looking into whether any of the area schools would like to use this program for their students to earn community service hours towards graduation.

4. BMP: Storm water education program for school children.
The storm water district has contracted with the Warren County Soil and Water Conservation District for this service. WCSWCD worked with about 972 area students between 1st and 5th grade in 2005. Deerfield Township is served by three school districts which also serve other jurisdictions. None of the schools have demographics showing how many students fall in the Township. Therefore, it is difficult to know what percentage of students reached by WCSWCD actually fall within DRSWD. In 2006, WCSWCD will continue to present programs in the schools, and the District is discussing the possibility of distributing printed information through the schools to all their students.
5. BMP: Organize school/community sponsored action projects such as stream cleanup, riparian tree planting, stream bank stabilization.
The Landen Farms Community Services Association of Deerfield Township cleans up the area around Landen Lake annually, with a week-long community cleanup conducted in the summer of 2005. They also sponsored a “clean-up Landen” project in 2004 and 2005 in cooperation with Deerfield Township to clean up leaves and yard waste. Additional watershed, lake, and stream cleanups are planned for the future in conjunction with the Warren County Soil and Water Conservation District, Deerfield Township, and the Landen Farms Community Services Association.
6. BMP: Create a storm water hotline.
The Township fields storm water questions through its Public Works Department. Warren County Soil and Water Conservation District also fields phone calls for the District.
7. BMP: Develop watershed/tributary signage to identify streams.
The District, in partnership with Deerfield Township Public Works, installed tributary signs at 19 streambed crossings in 2005. Warren County installed signs at four crossings in Deerfield Township in 2005.

Public Participation/Involvement

1. BMP: Conduct public meetings to obtain community input.
The Board of Trustees for the Deerfield Regional Storm Water District has public meetings monthly which are broadcast on local cable. According to the cable company, they have about 60% saturation in Deerfield Township meaning that between 5,000 and 6,000 households can access the broadcast of the District meetings. The District’s Storm Water Advisory Committee, which was composed of residents, business owners, and religious representatives from across the Township, met four times with our engineering firm to learn about storm water issues with a fifth meeting with the District Board to make recommendations for programming and fees. The Board plans two public open houses in March 2006 to present the storm water plan with smaller meetings planned with area business groups such as the Chamber of Commerce.
2. BMP: Creation of “adopt a storm drain program”, and “adopt a stream” within the Township.
Because funding will be available for the regular inspection, maintenance, and clean-up of storm drains by Township crews, the District will be concentrating on involving the public in stream clean-up programs. At the public meetings scheduled for March, the District will be asking people to sign up to participate in these programs.

Illicit Discharge Detection and Elimination

1. BMP: Create a map of the home sewage treatment systems.
The District has obtained a list from the Warren County Health Department of all home sewage systems installed since 1983. As funding becomes available, the Deerfield Regional Storm Water District will work on expanding this list to include those systems installed prior to 1983 and on mapping all existing systems.
2. BMP: Identify illicit connections through dry weather screening and targeted video inspection.

In the fall and spring, Deerfield Township road crews monitor major discharge pipes. The Storm Water District plans to formalize this monitoring and create official surveys.

3. BMP: Develop a storm drain system map.

The Warren County Engineer's Office has mapped 25-35% of the Township not including detention basins. The District will continue this mapping throughout the rest of the permit period.

4. BMP: Illicit discharge/illegal dumping hotline.

The Township fields storm water issues through its Public Works Department which works with the Warren County Health Department and Warren County HazMat on illegal discharge and dumping issues.

Construction Site Runoff Control

1. BMP: The WCSWCD currently administers construction site runoff control within Deerfield Township for projects involving areas of disturbances of five (5) acres or greater in size. After the storm sewer district is formed, that district will adopt similar regulations for all projects disturbing one (1) acre or more within the Township.

Warren County currently has development related regulations that require a permit and construction site runoff controls in projects over five (5) acres. While the regulations do not require permitting for construction sites less than five (5) acres, they do require the same level of storm water runoff control. Deerfield Township falls under these regulations. The County has drafted revised regulations to require permitting for sites one (1) acre or larger to be consistent with the Phase II NPDES requirements. These revised regulations are presently in draft form and are under review by the Warren County Prosecutor's office.

2. BMP: Develop a certification program for contractors.

Warren County Soil and Water Conservation District, along with other organizations, hosts the Annual Southwest Ohio Erosion and Sediment Control Field Day every year. At the Township's request, WCSWCD has developed this into a certification program.

Post Construction Runoff Control

1. BMP: Continue to administer, in cooperation with the Warren County Engineer's Office, the "post development runoff management" program through the existing "Warren County, Ohio Rules and Regulations for the design of sewer and storm water management systems."

Such Rules and Regulations are currently in place in the Township. The Storm Water District's engineering firm recently communicated with the Warren County Engineer's Office and determined that modifications to these rules are under development to meet the Phase II NPDES requirements for water quality management.

2. BMP: Develop master plans, comprehensive plans, and integrated zoning ordinances to promote and improve water quality by guiding the growth of the community away from sensitive areas and restricting certain types of growth to areas that can support it without compromising water quality.

Deerfield Township is currently revising their zoning code. The current version has language in place addressing sensitive areas. However, the Township plans to revise its Comprehensive Plan and does not plan to adopt the new zoning code until that revision is complete.

Pollution Prevention/Good Housekeeping

1. BMP: Training for public employees of the Township.

Deerfield Township sent six employees for training and certification in pesticide application in 2005.

2. BMP: Develop a pollution prevention plan within the first year of the permit term.

The District, with Township input, developed a pollution and spill prevention plan pursuant to SWMP requirements. A copy is attached.

3. BMP: Develop spill prevention and control plans for Township facilities.

The spill prevention plan is included as part of the pollution prevention plan. See attached copy.

- 4: BMP: Incorporate the use of road salt storage control and implement road salt alternatives for roadway de-icing.

The Township is planning to build a new salt storage building in the near future.

Bi-annually, the Township road department cleans catch basins throughout the Township. They also sweep various streets to remove leaves, sand, and other debris. Twice a year, the road department has a Township-wide brush and leaf collection program. In the spring, there is a Township clean-up weekend when residents can dispose of non-hazardous materials.

During the fourth permit year, the Deerfield Regional Storm Water District plans to continue working on the uncompleted goals of the previous three years. In addition the District will continue to develop alternative information sources including radio advertisements in collaboration with other area storm water districts. The District will also promote another stream or lake clean-up, continue to have public meetings monthly, and work to identify illicit connections, along with beginning to map storm sewers and home sewage treatment systems. The District will contract with the Warren County Water and Soil Conservation District to perform many of the public education, outreach, and participation tasks. The District also plans to begin drafting its Illicit Discharge Detection/Elimination Plan.