

PDES Phase II Annual Report



**Report to Ohio EPA Regarding Status of Chester Township
Storm Water Management Program from March 1, 2005, through
February 28, 2006, (year 3 of 5) in conformance with 3GQ00075*AG**

**Chester Township
Geauga County, Ohio**

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Acronyms Used in this Storm Water Management Program Include

BMP: Best Management Practice

BOT: Township Board of Trustees

CRWP: Chagrin River Watershed Partners,
Inc.

E&SC: Erosion and Sediment Control

GCSWCD: Geauga County Soil
and Water Conservation District

HSTS: Home Sewage Treatment System

MCM: Minimum Control Measure

MOU: Memorandum of Understanding

MS4s: Municipal Separate Storm Sewer
System

NOI: Notice of Intent

NPDES: National Pollutant Discharge
Elimination System

Ohio EPA: Ohio Environmental Protection Agency

SWMC: Storm Water Management
Committee

SWMP: Storm Water Management Program

WMSC: Water Management & Sediment
Control
Gauga County Soil and Water Conservation
District

3GQ00075*AG: Permit Number

Public Education & Involvement Plan MCM #1 and #2

2005/2006 Best Management Practices and Measurable Goals

Schedule	BMP and Measurable Goals
	Best Management Practices
January, 2006	<p>Committee members: Storm Water Committee members have changed slightly. Patricia Mula (former Township Trustee) has been replaced by Ronald Cotman (Newly Elected Township Trustee) and James Montague (former Township Trustee) has been replaced by Judith Caputo (Newly Elected Township Trustee).</p> <p>Responsible Person: Mike Joyce, Chairman of the Chester Township Storm Water Management Committee (CTSWMC).</p>
June 2, 2005	<p>The full Storm Water Management Committee did not meet in Chester in 2005. The full Storm Water Committee will be restructured and will meet in Chester Township at least twice in 2006.</p> <p>Responsible Person: Mike Joyce, Chairman CTSWMC.</p>
Published May 25, 2005.	<p>Survey of storm water understanding: The survey for a baseline assessment has been developed by the Geauga Water and Soil Conservation District, the Chagrin River Watershed Partners, and Ohio State University Extension and is completed. The survey was published in a local newspaper in May, 2005. The response was disappointingly low; however the analysis of the response will be compared with the December, 2007, survey results.</p> <p>Responsible Person: Mike Joyce, Chairman CTSWMC.</p>
Due date not yet reached.	<p>Resurvey by December 31, 2007 to gauge effectiveness of Public Education/Involvement Plan.</p> <p>Responsible Person: Mike Joyce, Chairman CTSWMC.</p>
Ongoing	<p>As of November, 2004, the township's website has been fully functional. The Storm Water Management Plan is an integral part of that website. The website address is WWW.CHESTERTWP.NET.</p> <p>Responsible Person: Patricia Mula, Vice Chairwoman, Chester Township Board of Trustees until January 1, 2006. Responsible Person is now Ronald Cotman, Vice Chairman, Chester Township Board of Trustees.</p>
March, 2005 through February 28, 2006	<p>Newsletter(s): Some 660 Chester Township residents receive "The Geaugrapher" (a newsletter published by Geauga County Soil and Water Conservation District).</p> <p>Responsible Person: Carmella Shale, Director GCSWCD.</p>
March 1, 2005 through January	<p>"Chester Government Update" written by Township Trustee Patricia Mula in the Chesterland News (weekly newspaper) has carried 4 articles related to Storm Water</p>

Public Education & Involvement Plan MCM #1 and #2	
1, 2006	control. Responsible Person: Patricia Mula, Vice Chairwoman, Chester Township Board of Trustees. Note: After January 1, 2006, responsibility to author the Newsletter will rotate among the three (3) Township Trustees.
March 1, 2005 to February 28, 2006	Community Presentations: Both CRWP and GCSWCD presentations are made available to community groups on subjects such as: "Overview of the Chagrin River watershed", "Nonpoint source pollution", "Steps residences can take to minimize impacts on environment", etc. Responsible Person: Mike Joyce, Chairman CTSWMC.
July, 2005	Both a VHS and DVD format of the Educational Documentary "Tempest in a Channel: Stormwater Runoff's Impact on Urban Streams" produced by the Ohio EPA are available at the Town Hall for viewing by the public.
Project behind schedule, no date given for completion.	Workshops for homeowners on Home Sewage Treatment System: An extensive workshop presentation is currently being developed by the Geauga County Health Department. Project is behind schedule and may be further impacted by State mandated changes in the HSTS regulations. Responsible Person: Bob Weisdack, County Health Commissioner.
April 5, 2005	Community Activities: A three (3) hour interactive class was held on April 5, 2005 at the Chester Town Hall as part of the on going public education project. The topic was "When it Rains I have a River in my Front Yard, and other drainage problems." See Addendum. Responsible Person: Mike Joyce, Chairman CTSWMC.
June 8, 2005	A three (3) hour interactive class was held on June 8, 2005 at the Chester Town Hall as part of the on going public education project. The topic was "Better Stormwater Management through Landscaping." See Addendum. Responsible Person: Mike Joyce, Chairman CTSWMC.
August 10, 2005	A three (3) hour interactive class was held on August 10, 2005 at the Chester Town Hall as part of the on going public education project. The topic was "When it Rains It Drains." See Addendum. Responsible Person: Mike Joyce, Chairman CTSWMC.
October 12, 2005	A three (3) hour interactive class was held on October 12, 2005 at the Chester Town Hall as part of the on going public education project. The topic was "Better Stormwater Management through Landscaping." See Addendum. Program repeated by request. Responsible Person: Mike Joyce, Chairman CTSWMC.
May 25, 2005	Chester Township Clean-Up Day. Township placed dumpsters and personnel

Public Education & Involvement Plan MCM #1 and #2	
	<p>to receive (and properly dispose) sundry items from township residents, at no charge to the residents.</p> <p>Responsible Person: Chuck Mascella, Road Superintendent.</p>
April 18 thru April 21, 2005	<p>Chester Township Senior Citizen Clean-Up Project. Township Road department went to the homes of senior citizens who met criteria to pick-up and properly dispose of sundry items at no charge to residents.</p> <p>Responsible Person: Chuck Mascella, Road Superintendent.</p>
March 8, 2005, April 5, 2005, August 25, 2005, and September 22, 2005.	<p>Chester Township residents were informed of, and participated in, four (4) District Environmental Collection Events sponsored by Geauga-Trumbull Solid Waste Management District. See Addendum</p> <p>Responsible Person: Geauga-Trumbull Solid Waste Management District.</p>
March 19, 2005, April 23, 2005, September 10, 2005, and October 1, 2005	<p>Chester Township residents were informed of, and participated in, four (4) Environmental Collection Events in Geauga County sponsored by Geauga-Trumbull Solid Waste Management District. See Addendum</p> <p>Responsible Person: Geauga-Trumbull Solid Waste Management District</p>
Established in 2004 and designed as an on-going project	<p>School Activities: GCSWCD has established an on going stream health watch station at West Wood Elementary School (part of the West Geauga School district). Some of Chester Township's students attend this school.</p> <p>Responsible Person: Annie Rzepka, GCSWCD.</p>
Established in 2004 and maintained as an ongoing project.	<p>Print Media: Four (4) pamphlet distribution centers are maintained for public education and information. The four (4) locations are as followed: Fire Station # 1, (Fire Station # 2 was closed), the Police Station, the Town Hall (a small distribution unit in the front vestibule of the Town Hall and a larger distribution center was mounted in the hall outside of the Zoning Office (distribution center outside of zoning office was expanded in 2005), and the Township's Road Department. See Addendum for samples.</p> <p>Responsible Person: Mike Joyce, Chairman CTSWMC.</p>
October 5, 2005	<p>Workshops: Chuck Mascella attended a workshop hosted by the Cuyahoga County Soil and Conservation District.</p> <p>Responsible Person: Mike Joyce, Chairman CTSWMC.</p>
June 2, 2005	<p>Chuck Mascella (Chester Township Road Superintendent), Carmella Shale (Director of the Geauga County Soil and Water Conservation District), Kyle-</p>

Public Education & Involvement Plan MCM #1 and #2

Dreyfuss (Director of the Chagrin River Watershed Partners, Inc.) and Mike Joyce (Chester Township Zoning Inspector, Chairman of the Chester Township Storm Water Management Committee) all attended the county wide Phase II meeting hosted by Bob Phillips of the Geauga County Engineers Office. (All mentioned above except Bob Phillips are members of the Chester Township Storm Water Management Committee.)

Responsible Person: Bob Phillips, Geauga County Engineer.

Compliance Status, Goals or Activities in 2005

Most 2005 goals were met in the areas of Public Education & Involvement Plan MCM #1 and #2.

The township website was established in November, 2004.

Chester was able to re-establish the annual Clean Up / Collection Days (normally held in the spring of each year) in 2005. In addition, Chester established a senior pick-up day where the Road Department went to the homes of senior citizens of Chester Township that met the criteria to collect sundry items to be properly disposed. This is a very positive sign for Chester and win/win situation for the township and the environment.

Illicit Discharge Detection and Elimination MCM #3

2005 Best Management Practices and Measurable Goals.

By December 31, 2007	Chester Township map storm water sewer system with:
Established in March, 2004 and to be completed by December 31, 2007.	<p>Location of outfalls: Map committee has been formed at the county level. Both the Geauga County Soil and Water Conservation District and the Geauga County Auditors Office are working to establish the mapping as developed by GCSWCD. The mapping was completed in late 2005 and the Road Department has received the information and will begin site inspections in the spring of 2006. (See below)</p> <p>Responsible Person: Carmella Shale, GCSWCD.</p>
March, 2004 program initiated with completion scheduled by December 31, 2007.	<p>Implement visual monitoring of the outfall locations by Road Department. Visual inspection program has been established in 2005. A minimum of 50% of outfalls to be inspected by the end of 2006.</p> <p>Responsible Person: Chuck Mascella, Chester Township Road Superintendent.</p>
To be completed by December 31, 2007.	<p>Names and location of surface waters to which outfalls discharge: 280 outfall locations were identified and mapped. Data to be added to the County Auditor's GIS system. The names of streams into which the outfalls discharge are still being determined.</p> <p>Responsible Person: Carmella Shale, GCSWCD.</p>
2005 Goal not met.	<p>Location List (address) of HSTS: Gauga County Health Department is creating a database of HSTS locations from their records. They plan to go into the field to complete the database of HSTS, once the county records have been exhausted. There were 695 HSTSs entered into the database by February 28, 2006.</p> <p>Responsible Persons: Bob Weisdack GCHD for database and Carmella Shale GCSWCD for GIS.</p>
March 1, 2005 to February 28, 2006.	<p>Develop program to detect and eliminate illicit discharges: Program developed late in 2005. Due to the weather conditions and the lateness into the year only a small test sample of dry weather outflows were inspected in 2005. The test sample verified the feasibility of the program. Once identified, outfalls with potentially illicit discharges will be turned over to the proper county offices for the appropriate response.</p> <p>Responsible Person: Bob Weisdack GCHD.</p>

Illicit Discharge Detection and Elimination MCM #3

Compliance Status of 2005 Activities:

The mapping of septic systems (both on lot and off lot) will be completed by 2007. The Geauga County Health Department now has a dedicated part-time employee working on this project. The Geauga County Health Department and the Geauga County Auditor's Office are working to include the mapping information as an overlay on the county wide GIS system for both stand alone computer systems and the Geauga County Auditors website.

The water outfalls were defined and located, and mapping was completed in 2005. The Geauga County Soil and Water Conservation District and the Geauga County Auditor's Office are working to include this information as an overlay on the county wide GIS system for both stand alone computer systems and the Geauga County Auditor's website.

Effectiveness of 2005 Activities:

Much of the ancillary work needed to support MCM #3 activities was completed in 2005. A new approach was provided to the townships by the county agencies in the areas of illicit discharge detection, the mapping of HSTS, and water outfalls. The additional person power allocated to the project, and the use of the more central GIS system should return the township to the projected time table in 2006. The final product should both exceed original expectations and be accomplished ahead of the five (5) year schedule.

Information Collected During the 2005 Reporting Period:

A sample trial of data was collected during the period of March 1, 2005 and February 28, 2006.

Proposed Changes to Illicit Discharge Detection and Elimination Plan:

See Effectiveness of 2005 Activities above.

Construction Site Storm Water Runoff Control MCM #4

2005 Best Management Practices and Measurable Goals:

Schedule	BMP and Measurable Goals
March 1, 2005 to February 28, 2006.	<p>Erosion and sediment control resolution: No changes are needed to the Chester Township Zoning Resolution at this time. The Zoning Resolution meets or exceeds Phase II Erosion and Sediment Control Regulation. Section 5.00.06 is in place at this time. (See Addendum)</p> <p>Responsible Person: Township Trustees through the Zoning Resolution.</p>
March 1, 2005 to February 28, 2006.	<p>Define the amount of lot coverage permitted in each of the zoning districts in Chester Township. Sections 5.01.15, 5.02.15, 5.03.16, and 5.04.16 of the Chester Township Zoning Resolution are in place at this time. (See Addendum)</p> <p>Responsible Person: Township Trustees through the Zoning Resolution.</p>
March 1, 2005 to February 28, 2006.	<p>GCSWCD Erosion and Control Regulation # 98 is in place at this time.</p> <p>Responsible Person: GCSWCD.</p>
March 1, 2005 to February 28, 2006.	<p>Enter into Memorandum of Understanding (MOU) with GCSWCD: MOU and fee schedule are in place at this time. (See Addendum)</p> <p>Responsible Person: Township Board of Trustees.</p>
March 1, 2005 to February 28, 2006.	<p>Attend GCSWCD trainings: Zoning Inspector attended all training sessions and refresher courses offered by GCSWCD.</p> <p>Responsible Person: Mike Joyce, Chairman CTSWMC.</p>
March 1, 2005 to February 28, 2006.	<p>Chester Township Zoning Inspector and Field Technicians from GCSWCD and/or CRWP met at several field locations to discuss and correct site situations. These discussions always result in “on-the-job” training for all personnel involved as each site is different to some degree from all other sites.</p> <p>Responsible Person: Mike Joyce, Chairman CTSWMC, Zoning Inspector.</p>
March 1, 2005 to February 28, 2006.	<p>Review site plans: All site plans for construction that will disturb more then 300 square feet on lots less then 5 acres in area are reviewed by Chester Township Zoning Inspector. All site plans for construction that will disturb more then 300 square feet on lots of 5 acres or more are reviewed by GCSWCD. (See Addendum)</p> <p>Responsible Person: Mike Joyce, Chairman CTSWMC, Zoning Inspector.</p>
March 1, 2005 to February 28, 2006.	<p>Planning Commission and Health District Approval of New Lots: Continuing existing practice of Geauga County Planning Commission and Geauga County Health District.</p> <p>Responsible Person: Geauga County Planning Commission and Geauga County</p>

Construction Site Storm Water Runoff Control MCM #4	
	Health Department.
March 1, 2005 to February 28, 2006.	<p>Setbacks: Continuing existing practice as defined in Sections 5.01.15, 5.02.15, 5.03.16, and 5.04.16 of the Chester Township Zoning Resolution. (See Addendum)</p> <p>Responsible Person: Mike Joyce, Chairman CTSWMC, Zoning Inspector.</p>
March 1, 2005 to February 28, 2006.	<p>Water Quality Ponds: No review of BMP's on water quality ponds were made in this time period.</p> <p>Responsible Person: Chester Township Zoning Commission.</p>
March 1, 2005 to February 28, 2006.	<p>Low Impact Developments: No presentation on Low Impact Developments was made in this time period to the Chester Township Zoning Commission.</p> <p>Responsible Person: GCWSCD and CRWP.</p>
March 1, 2005 to February 29, 2006.	<p>2005 of storm water basins: Information was gathered through the Public Access System (PAS), field visits, and old records to develop a map of existing water basins. The storm water basin map was developed using Arc View GIS and is a living document as new information is added as it becomes available.</p> <p>Responsible Person: Carmella Shale, GCWSCD.</p>
<p>Compliance Status of 2005 Activities:</p> <p>The current controls that are in place will be maintained as they meet or exceed the minimum requirements of MCM #4. However, Chester will be intensifying public education for both homeowners and contractors on the subject of proper way(s) to better maintain their erosion / sediment control methods. We will be working to instill a sense of urgency on the part of the homeowner and contractors to maintain the temporary systems.</p>	

Construction Site Storm Water Runoff Control MCM #4

Effectiveness of 2005 Activities:

Between March 1, 2005 and February 28, 2006, there have been 12 new homes, 27 home additions, 36 residential accessory building, and 1 commercial addition built (or are under construction) in Chester Township that required sediment control measures. Most of the projects require multiple site inspections for sediment/erosion control. The actual number of inspections varied due to length of time it takes to complete the project and to stabilize the soil. Some sites are still under construction at this time. The number of sites that were required to repair soil and sediment control measures increased due mainly to an increased number of on site inspections by the Zoning Inspector and Geauga County Soil and Water Conservation District. Due to the passage of House Bill 278, a new (and widely uncontrolled) challenge in the field of sediment and erosion control has arisen due to the increased exploration of gas and oil wells in northern Ohio. The Geauga County Soil and Water Conservation District is studying this problem at this time. Chester will be working to better educate our citizens on their need, and right, to control this situation through better and more detailed contracts with the oil exploration companies. We expect very positive results through our efforts.

Post Construction Storm Water Management MCM #5

2005 Best Management Practices and Measurable Goals

Schedule	BMP and Measurable Goals
March 1, 2005 to February 28, 2006.	<p>Measures for reducing impervious cover: Have maintained existing practices as defined in the Storm Water Management Plan and the Chester Township Zoning Resolution.</p> <p>Responsible Person: Mike Joyce, Zoning Inspector</p>
March 1, 2005 to February 28, 2006.	<p>Approval of new lots and subdivisions: Have continued existing practices. Geauga County Planning Commission reviews and approved plans. Approval based upon approval of Geauga County Health Department, application of existing regulations, no wet lands impact, and compliance to local Zoning Resolution. Initial and final plans are reviewed by Zoning Inspector for input to the County Planning Commission.</p> <p>Responsible Person: Geauga County Planning Commission</p>
March 1, 2005 to February 28, 2006.	<p>Riparian/wetlands setbacks: County “model zoning” suggests BMPs to be incorporated into local Zoning Resolutions by the local Township Zoning Commissions. Chester’s Zoning Commission is reviewing the proposal.</p> <p>Responsible Person: Margaret Mueling, Chairperson, Chester Zoning Commission</p>
March 1, 2005 to February 28, 2006.	<p>Water quality ponds: Update Chapter 927 to include provisions for preference of dry or wet ponds instead of underground pipes or culverts for storm water storage.</p> <p>Responsible Person: Geauga County Engineering Department.</p>
March 1, 2005 to February 28, 2006.	<p>Document the reduction of impervious surfaces associated with new and redevelopment projects. Evaluation of the effectiveness of the dry/wet pond.</p> <p>Responsible Person: Geauga County Engineering Department.</p>
March 1, 2005 to February 28, 2006.	<p>Low impact development: The County Planning Commission is examining this issue.</p> <p>Responsible Person: GCSWCD and CRWP</p>
March 1, 2005 to February 28, 2006.	<p>2005 of storm water basins: GCSWCD still converting existing inventory of information, and information collected. Information then disseminated to township level.</p> <p>Responsible Person: GCSWCD</p>

Post Construction Storm Water Management MCM #5

Compliance Status of 2005 Activities:

Present post construction policies are being maintained. Policy includes follow up inspections by Zoning Inspector and GCSWCD to assure the necessary silt and erosion controls are kept in place until the soil is stabilized.

Effectiveness of 2005 Activities:

GCSWCD has an excellent record of responding to calls from Zoning Inspector, but the number of inspections needed has increased dramatically with the implementation of the Storm Water Management Plan. All sites are inspected, but not all sites are inspected as often as desired. We are exploring ways to increase the effectiveness of our site evaluations and inspections.

Proposed Changes in Post-Construction Storm Water Control Plan:

The Storm Water Management Committee will discuss this topic. Ideas will also be discussed with the Zoning Commission to study the feasibility of implementing changes into the Zoning Resolution.

Good Housekeeping and Pollution Prevention MCM #6

2005 Best Management Practices and Measurable Goals:

Schedule	BMP and Measurable Goals
March 1, 2005 through February 28, 2006	<p>Fleet maintenance: Continuing existing fleet maintenance practices as outlined in OSHA guidelines.</p> <p>Responsible Person: Chuck Mascella, Road Superintendent</p>
March 1, 2005 through February 28, 2006	<p>Salt storage and applications: Continuing current storage and application practices as defined in Storm Water Management Plan.</p> <p>Responsible Person: Chuck Mascella, Road Superintendent</p>
April 2005	<p>Street sweeping: All improved township roads were swept once during the month of April to remove winter debris.</p> <p>Responsible Person: Chuck, Mascella, Road Superintendent</p>
March 1, 2005 through February 28, 2006	<p>All public roads located near construction access driveways are cleaned by the construction crews working on the different projects. Contractors are required to remove all mud and/or debris that the construction driveway fails to remove from truck / vehicle tires at the end of each work day.</p> <p>Responsible Person: Joe Orosz, Chief, Chester Police Department</p>
March 1, 2005 through February 28, 2005	<p>Storm water system maintenance: Continuing current roadside ditch cleaning practices as defined in Storm Water Management Plan. Road Department has implemented the plan to seed the disturbed areas due to ditch maintenance.</p> <p>Responsible Person: Chuck Mascella, Road Superintendent</p>
March 1, 2005 through February 28, 2006	<p>Disposal of waste collected through community operations: Disposal program was reviewed and it was determined that the current practices would be continued.</p> <p>Responsible Person: Chuck Mascella, Road Superintendent</p>
November 20, 2005	<p>Completed training program for the Township Road Department employees using information from the workshop hosted by the Cuyahoga County Board of Health regarding prevention or reduction of pollutant runoff from community operations such as fleet and building maintenance and storm water system maintenance. (See Addendum)</p> <p>Responsible Person: Chuck Mascella, Road Superintendent</p>

