

## Clermont County Storm Water Management Plan 2007 Annual Report

### CHAPTER 1: PUBLIC EDUCATION AND OUTREACH

#### **Section 103.1 East Fork Watershed Management Program Measurable Goals**

1. *Hold Lower East Fork Watershed Public Meeting:* Completed in 2003 and 2004. See the respective Annual Reports for details.
2. *Complete draft of Lower East Fork Watershed Action Plan/submit to OEPA and ODNR:* Completed in 2003. The Lower East Fork Watershed Action Plan was submitted to and endorsed by both Ohio EPA and the Ohio Department of Natural Resources (ODNR). The plan can be downloaded at [www.oeq.net](http://www.oeq.net) (from main menu, click on Water Quality, then Watershed Action Plans), or hard copies can be requested by contacting the East Fork Watershed Coordinator at (513) 732-7075.
3. *Hold Middle East Fork Public Meeting:* Completed in 2006 - see Annual Reports for details.
4. *Complete draft of Middle East Fork Watershed Action Plan (WAP)/submit to OEPA and ODNR:* The final draft of the WAP for the Middle East Fork watershed was submitted to the Ohio EPA and ODNR for review on December 10, 2007. In a letter dated January 8, 2008, the two agencies gave conditional endorsement to the plan. A copy of the endorsement letter is provided in Appendix 1. The revisions necessary to obtain full endorsement will be completed in 2008.
5. *Complete draft of Stonelick Creek Watershed Action Plan.* In progress. This is the fifth and final Watershed Action Plan to be completed for the East Fork River watershed. A public stakeholders meeting was held on August 8, 2007 (copies of the stakeholder invitation letter, the list of invitees and the presentation are included in Appendix 1). The plan was scheduled to be completed by the end of 2007; however, Ohio EPA recently altered the requirements for an endorsable watershed action plan (specifically requiring more detailed information on pollutant load reductions). As such, the East Fork Watershed Collaborative is working to revise plans that have already received endorsement so they meet the agency's new requirements. At the time of this report, revisions were being made to the Lower East Fork Watershed Action Plan, originally endorsed in 2003. Once this has been completed to the satisfaction of Ohio EPA and Ohio DNR, work will re-commence on the Stonelick Creek Watershed Action Plan.
6. *Post current version of Watershed Action Plans at [www.oeq.net](http://www.oeq.net):* Complete/Ongoing. Final, endorsed Watershed Action Plans for the Lower East Fork, Lake Tributaries, Middle East Fork, and Headwaters watersheds can be downloaded by going to [www.oeq.net/WAPs.aspx](http://www.oeq.net/WAPs.aspx).
7. *Present final Watershed Action Plans to the Clermont County Board of Commissioners, City/Village Councils, and Township Trustees for adoption:* In progress. As currently endorsed Watershed Action Plans are revised to meet new Ohio EPA requirements, and as new plans are developed, these will be presented to the appropriate local governments for adoption.
8. *Provide implementation progress reports to County Commissioners, City/Village Councils and Township Trustees:* Completed. At the conclusion of each calendar year, the East Fork Watershed Collaborative prepares an annual progress report entitled "East Fork News and Notes" and distributes

this to County Commissioners, City and Village Councils, Boards of Township Trustees and other stakeholders. As of December 2007, the report was in development but not yet complete.

### **Section 103.2 Measurable Goals for Storm Water Educational Programs**

1. *Conduct 25 Enviroscape programs for County school children:* Completed. In 2007, the Clermont SWCD Educational Specialist conducted 44 Enviroscape presentations in Clermont County schools, including:
  - 3 presentations to Clermont Northeastern 5<sup>th</sup> grade classes (2/12/07)
  - 4 presentations to Clermont Northeastern 5<sup>th</sup> grade classes (2/14/07)
  - 5 presentations to Pattison Elementary 4<sup>th</sup> grade classes (2/21/07)
  - 4 presentations to Williamsburg 5<sup>th</sup> grade classes (3/5/07)
  - 6 presentations to Clermont Northeastern 3<sup>rd</sup> grade classes (3/9/07)
  - 1 presentation to McCormick Elementary 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> grade classes (3/20/07)
  - 1 presentation to the Teacher Workshop 5<sup>th</sup> grade class (3/28/07)
  - 5 presentations to Clermont Northeastern kindergarten classes (4/6/07)
  - 5 presentations to New Richmond Elementary 1<sup>st</sup> grade classes (7/8/07)
  - 4 presentations to Mulberry Elementary 5<sup>th</sup> grade classes (12/11/07)
  - 6 presentations to Clermont Northeastern 5<sup>th</sup> grade classes (12/19/07)
2. *Conduct three Streamulator public presentations:* Not Completed. In 2007, the Clermont SWCD Educational Specialist was not able to conduct any Streamulator public presentations; however, the number of special storm water education programs conducted by the Education Specialist was well above the number originally planned (see item #3 below).
3. *Conduct 15 additional storm water education programs to schools:* Completed. In addition to the Enviroscape programs, the Clermont SWCD Educational Specialist conducted 135 other storm water programs County schools, including the following presentations: Indoor Stream Monitoring (25), Web of Life/Links in the Chain (8), Sum of the Parts (10), Humpty Dumpty (4), Feed the Fish (9), Soil & Erosion (27), Poison Pump (6), Litter Prevention (33), Stream Table (7), and Watersheds (6).
4. *Conduct three storm water-related presentations to interest groups:* Completed. The East Fork Watershed Coordinator conducted several storm water-related presentations to different interest groups in 2007. These included:
  - Gave a presentation on February 9, 2007 to University of Cincinnati faculty about potential education and research opportunities with the Avey's Run Stream Restoration Project. A copy of the presentation is included in Appendix 1.
  - Gave a presentation entitled "Working Together to Protect Water Resources in the East Fork Watershed" on February 28, 2007 to the Soil & Water Conservation Districts of Ohio all-employees meeting. A copy of the presentation is included in Appendix 1.
  - Hosted a workshop for 40 Cincinnati Nature Center volunteers concerning the freshwater mussels currently being studied (i.e. biology, ecology, threats, restoration of streams, protection) in the East Fork watershed on May 14, 2007. A copy of the presentation is included in Appendix 1.
  - Presented the same freshwater mussel report at the County Soil & Water Conservation District's Summer Supervisor's School in Loveland on July 30, 2007.
  - The Clermont County Soil & Water Conservation District (SWCD) hosted a rain garden workshop for 18 interested homeowners on September 27, 2007. The workshop consisted of

a presentation highlighting the benefits and installation process of rain gardens, and a walk through the demonstration rain garden installed at the Clermont County Fairgrounds by SWCD and Storm Water Department staff in 2007. Copies of the workshop notice, agenda and sign-in sheet are included in Appendix 1.

- Gave a presentation about and a tour of the Avey's Run Stream Restoration Project to the Cincinnati Nature Center Krippendorf Society in Milford, OH on October 4, 2007. The attendance was 80 people. A copy of the presentation is included in Appendix 1.
- Gave a presentation concerning watershed management of East Fork watershed to a group of 75 people at the Ohio River Basin Consortium at Miami University on October 25, 2007. A copy of the presentation is included in Appendix 1.
- Provided a presentation at the Little Miami River Partnership's Water Quality Symposium titled, "\$'s and Sense of TMDLs." A copy of the agenda and presentation is included in Appendix 1.

*Storm Water Utility Presentations:* The Program Manager for the Storm Water Management Department gave four public presentations in 2006 related to the proposed establishment of a storm water utility in Clermont County. Each presentation was tailored to the individual audiences, but were generally similar in the scope of material covered. Presentations typically reviewed the different types of storm water-related problems that are present in the County, the efforts involved in conducting a storm water utility feasibility study, the services a storm water utility would provide, the associated costs and a timeline for implementation. After each presentation, questions were taken from the audience. A copy of a typical presentation can be found in Appendix 1. A summary of the storm water utility presentations given in 2007 is as follows:

- January 9 – Union Township Board of Trustees meeting (see Appendix 1 for agenda)
- January 16 - Miami Township Television interview
- January 19 – Interview for *Clermont Today* cable television show
- February 15- Open Public Meeting, Union Township Civic Center (sign in sheets included in Appendix 1)
- February 22- Open Public Meeting, Miami Township Civic Center (sign in sheets included in Appendix 1)

After consideration of all comments received from the public during the numerous public meetings held from 2006-2007, the Clermont County Board of Commissioners on March 28, 2007 elected not to move forward with the establishment of a regional storm water utility.

*Other Presentations:* A generalized presentation on the programs conducted by the Storm Water Management Department was given by the Program Manager to Batavia High School students on March 21, 2007 (documentation included in Appendix 1).

5. *Submit two storm water-related articles to local newspapers:* Completed/ongoing. In 2007, 22 storm water-related articles ran in local papers, including:

- "To Salt or Not To Salt" (*Clermont Community Press*, January 3, 2007)
- "Salt Alternatives Can Protect Water Supply" (*Clermont Sun*, January 11, 2007)
- "Clermont Storm Water District Proposed" (*Clermont Community Press*, January 20, 2007)
- "Clermont May Assess Storm Water Fee..." (*Cincinnati Enquirer*, January 20, 2007)
- "County May Inaugurate New Storm Water Utility Soon" (*Clermont Sun*, January 21, 2007)
- "Resident Speak Out About Storm Water" (*Clermont Community Press*, February 28, 2007)
- "Help Keep Clermont County 'Clean and Green'" (*Clermont Community Press*)

- “Septic Rehab Program” (*Clermont Sun*, March 21, 2007)
- Clermont’s Clean-up Day to be Held April 21 (*Clermont Sun*, March 29, 2007)
- Applications for Septic Rehabilitation Being Taken (*Clermont Sun*, March 29, 2007)
- “Clean and Green” (*Clermont Community Press*, March 28, 2007)
- “It’s Time Again for Spring Cleaning” (*Clermont Sun*, April 19, 2007)
- “Volunteers Needed to Keep Clermont Clean and Green” (*Cincinnati Enquirer*, April 21)
- “Don’t Dump! What to Do With ...” (*Clermont Community Press*, May 2, 2007)
- “Lots of Litter Picked Up April 21” (*Clermont Community Press*, May 9, 2007)
- “Annual River Sweep a Success” (*Clermont Community Press*, May 9, 2007)
- “Ohio River Sweep June 16” (*Clermont Community Press*, May 16, 2007)
- “Don’t Dump! What to Do...” (*Clermont Community Press*, May 30, 2007)
- “Annual East Fork River Sweep a Success” (*Clermont Community Press*, May 30, 2007)
- “Volunteers Get Ready for Annual Ohio Sweep” (*Cincinnati Enquirer*)
- “Ohio River Sweep Planned for June 16” (*Clermont Community Press*, June 13, 2007)
- “Rain Gardens” (*Clermont Community Press*, October, 24, 2007)

Copies of each article are provided in Appendix 1. These are in addition to the numerous articles that ran for the various municipal/township clean-up days.

6. *Local Zoning Commissions will complete “Community Ordinance Worksheet”*: Completed. The Community Ordinance Worksheet, or COW, is a worksheet developed by the Center for Watershed Protection that serves as a tool for local communities to evaluate how friendly their local subdivision and zoning regulations are to low impact development practices. In February 2005, Clermont County contracted with the Center for Watershed Protection to hold a “Better Site Design” workshop and tour. The workshop was organized around the Center’s 22 Better Site Design principles, which are the basis for the COW. On October 11, 2005, the Storm Water Management Department held a meeting of all local zoning officials to review the COW. Zoning officials in turn used the COW to conduct a review of the local zoning regulations. The final three COWs were complete in 2007.

### **Section 103.3 Measurable Goals for Storm Water Educational Materials**

1. *Publish three storm water articles in Clermont Environmental Quarterly*: Completed/ ongoing. A number of articles related to storm water management were published in the County newsletter – the *Clermont Environmental Quarterly*. Copies of each are included in Appendix 1. In Summer 2007, the Office of Environmental Quality switched to an all-electronic newsletter, though hard copies are still sent to those who request them. The newsletter is now emailed to all those who have signed up on OEQ’s web site, and is posted on the web site itself.

Four newsletters were published in 2007. The Spring edition was the last hard-copy version of the newsletter, and included the following storm water-related articles:

- Articles about the annual Clean and Green Neighborhood Clean-up and East Fork River Sweep, held on April 21 and April 28, respectively.
- County Office of Environmental Quality water quality monitoring program for 2007, including information on the illicit discharge sampling program
- Information regarding a restoration project on a tributary to the lower East Fork Little Miami River.

The summer edition of the *Environmental Quarterly* was the first electronic newsletter distributed by OEQ. Storm water-related articles included:

- Tips for mowing lawns in an eco-friendly manner
- Information regarding the Storm Water Department's first storm sewer inventory and condition assessment project.

The fall edition of the newsletter included the following articles:

- Options for properly disposing of leaf litter
- Recycling opportunities for used cooking oil

Finally, the winter edition of the *Clermont Environmental Quarterly* included the following articles:

- A summary of the completed stream restoration project in the Lower East Fork watershed
- An article launching the newly-structured Storm Water Department website
- An article describing the dissolved oxygen study conducted by the Office of Environmental Quality in the East Fork watershed

Copies of the above articles are included in Appendix 1.

2. *Publish two storm water articles in the local SWCD newsletter:* Completed/ongoing. In 2007, 11 storm water related articles were printed in four editions of the Soil and Water Conservation District's newsletter. Copies are included in Appendix 1.

The winter/early spring newsletter (February 2007) included:

- Information on Clermont SWCD's Pond Clinic, held on April 11.
- A notice about the 6<sup>th</sup> Annual Horse & Pasture Management School
- An article encouraging better erosion prevention techniques when timber harvesting
- An announcement about the April 28 East Fork River Sweep

The summer newsletter included three storm water-related articles:

- An article highlighting the benefits of a rain garden as a storm water management tool
- A summary of the successful effort of the East Fork River Sweep in April 2007
- An article about the Little Miami River photo contest sponsored by the Little Miami River Partnership

The autumn newsletter included one storm water-related article announcing the start of construction on the stream restoration project in the Lower East Fork watershed

The winter newsletter included three storm water-related articles:

- An article outlining the District's grant and assistance program for the installation of private rain gardens
- An announcement thanking District cooperators that have installed Best Management Practices in 2007.
- An article summarizing the completion of the Lower East Fork Section 319 Project, which included the restoration of 1,900 feet of stream, and the replacement of 10 failing home sewage treatment systems in the Lower East Fork watershed.

3. *Publish two storm water articles in the SWCD Urban Development newsletter*: Not completed. Due to staff changes and modified program scope, no newsletters were published in 2007; therefore additional efforts were made to include more articles in the SWCD and OEQ newsletters.

Also the East Fork Watershed Coordinator wrote an article about the Avey's Run stream restoration project funded by the 319 grant for the Fall 2007 edition of the *Rivers Quarterly* newsletter published by Rivers Unlimited (see Appendix 1).

4. *Compile storm water fact sheet for homeowners*: Completed. See 2005 Phase II Annual Report. Pollution prevention fact sheets for homeowners can be viewed or printed from the Storm Water Management Department's web site (<http://www.clermontstorm.net/residentialp2.aspx>).
5. *Compile storm water BMP fact sheets*: Completed. Fact sheets for construction and post-construction BMPs have been completed and can be downloaded from the Storm Water Management Department's web site (<http://www.clermontstorm.net/bmp.aspx>). More information is available in the 2005 Annual Report.
6. *Complete "When It Rains, It Drains" brochure/ distribute 1000 copies annually*: In 2007, a total of 700 copies of the brochure were distributed. The number distributed is a little lower than in years past, primarily because after five years of distribution, many groups already have received a copy of this brochure. Additionally, the brochure can be downloaded from the Clermont SWCD web site at <http://www.clermontswcd.org/rains.pdf>, or from the Storm Water Management Department's web site at <http://www.clermontstorm.net/clermontdrains.pdf>. In 2008, only 500 brochures will be distributed.
7. *After the Rain: Urban Runoff video to local cable channels*: Clermont County began airing the "After the Rain: Urban Runoff" video produced by Oregon State University on local access cable TV in 2004 (Clermont County, Stonelick Township and Miami Township broadcasts). While this is a good video, it has a west coast focus. Since this time, Clermont County obtained a copy of the "After the Storm" video produced by U.S. EPA and the Weather Channel, which is more appropriate for communities in the Midwest. In 2007, the Clermont County Office of Public Information ran the "After the Storm" video daily from May 25 through June 7 (see Appendix 1 for detailed programming schedule).

#### **Section 103.4 Storm Drain Labeling Program**

1. *Develop storm drain labels for Little Miami and Ohio River basins*: Completed. Storm drain labels are available for the Little Miami, East Fork Little Miami and Ohio River watersheds.
2. *Information about storm drain labels and spill reporting on web sites*: Completed. Visit [www.clermontswcd.org/stdrain.htm](http://www.clermontswcd.org/stdrain.htm) to view information about the storm drain labeling program.
3. *Issue program press release*: Completed. The press release was issued on December 16, 2003.
4. *Label at least 1250 storm drains*: Completed. As of the end of 2006, 1,220 storm drain labels had been applied, including 496 from 2003-2004, 334 in 2005 and 390 in 2006. In 2007, Batavia Township labeled 325 storm drains in the Sycamore Creek subdivision through a voluntary effort initiated by the Boy Scouts of America. Union Township had 153 labels applied as part of the Eagle Scouts volunteer program bringing the total of overall applied medallions to 1,698.

In addition to the labels that have been placed, the Clermont County Subdivision Regulations now requires catch basins in all new residential developments to have pre-cast stamping with the message

“No Dumping, Drains to Stream” or a similar phrase. These regulations have been in place since October 2005. At this time, the number of storm inlets with the pre-cast message is unknown. The Storm Water Management Department will attempt to get an accurate record of these during its ongoing Storm Sewer Inventory and Condition Assessment Project.

### **Section 103.5 Measurable Goals for Solid/Household Hazardous Waste Education Program**

1. *Print/distribute 2000 copies of Clermont County Recycling & Waste Disposal Guide*: Completed in 2003. Demand for this publication has been great. In 2005, 3,000 more copies were printed and distributed, and in 2006, an additional 1000 copies were printed and distributed. Among other places, the recycling guide is available on-line (see below) and at all Clermont County public libraries. In 2007, multiple copies were distributed during the Clermont County Fair.
2. *Post recycling/waste disposal guide on web sites*: Completed. The Clean and Green Collaborative (a volunteer group dedicated to beautifying Clermont County and keeping it litter free, has also posted the brochure on its web site (<http://www.clermont2020.org/programs/cg/RecyclingBrochure.pdf>). In addition to the recycling guide, the Office of Environmental Quality also has an interactive web site where people can search for recycling locations for a wide variety of materials (see <http://www.oeq.net/recycle.aspx>).
3. *Review and update guide*: Completed. The most recent version is available on OEQ’s web site (see link above).
4. *Monitor Environmental Response Line (513-732-7894)*: Completed/Ongoing. The Clermont County Office of Environmental Quality continues to publicize this number and answer questions on a variety of issues related to storm water management.

### **Additional Activities Not Contained in Storm Water Management Plan**

Clermont County continues to look for new opportunities to raise the public’s awareness about storm water issues that face the county, and to encourage the public to take steps to reduce the problems associated with storm water runoff. Additional public education activities included the following:

1. *Storm Water Web Site*: In August 2007, the Clermont County Storm Water Management Department launched a completely revamped website (see [www.clermontstorm.net](http://www.clermontstorm.net)). A press release announcing the launch of the new website was distributed to local media outlets on August 31, 2007 (see Appendix 1). The new web site includes details about services provided by the Department, fact sheets for erosion control and storm water management strategies, tips on residential and commercial pollution prevention practices, information about who to contact in case of a spill, educational resources for teachers, enjoyable learning activities for kids, and much more. Some of the educational materials highlighted on the web site include:
  - Residential pollution prevention fact sheets and tips related to auto care, home repair and remodeling, household hazardous waste disposal, lawn and garden care, litter prevention, pet waste disposal and septic system care and maintenance.
  - Commercial pollution prevention tips on auto repair and general workplace practices
  - Storm water educational resources for teachers
  - Fun stuff for kids
  - Links to reports and other documents related to County stormwater management activities, including each of the MS4 Annual Reports from 2003-2007.

Additionally, news and notices for upcoming events are routinely posted under the “Hot Topics” section on the front page. Some of the items posted in 2007 are mentioned below. Some printouts from the web site’s front page are included in Appendix 1.

- Notices for Cincinnati Rain Garden Alliance meetings, and the May 9-10 Rain garden Workshop hosted by the Alliance (see Chapter 5 for more details)
  - Splash Connections Teacher Workshops held by the Greenacres Foundation
  - Proposed Storm Water District public meetings
  - Storm Water Site Design Workshop held in Englewood, OH
  - Conservation Development Seminar and Dinner hosted by Pierce Township (see Chapter 5 for more details)
  - Information on the East Fork and Ohio River Sweeps
  - Information on the County’s revised Water Management and Sediment Control regulations
  - Information on the County’s new illicit discharge regulations
  - The Clean Water Partnership Summit held in Cincinnati on Sept 5-6
  - Environmentally friendly yard care tips
2. *Rain Garden Demonstration Project:* In the summer of 2007, the Clermont Soil & Water Conservation District completed construction on a demonstration rain garden at the Clermont County Fairgrounds in Owensville, just prior to the opening of the Clermont County Fair. During the Fair, SWCD staff offered public tours of the rain garden. A sign-up sheet was made available for any visitors who wanted to acquire more information about rain gardens. Those who expressed interest received a copy of the tri-fold brochure provided by the Greater Cincinnati Rain Garden Alliance and a copy of the “How to” guide published by the Mill Creek Watershed Council for the Greater Cincinnati Rain Garden Alliance. Those on the list were also invited to a September 27 workshop where SWCD staff presented information on how to build your own rain garden.
3. *Project SIGNS:* Clermont SWCD has partnered with other community agencies, watershed groups and environmental organizations to conduct an on-going public education campaign known as Project SIGNS (Signage Inspires Great Neighborhood Streams). As part of this program, signs are installed at stream crossings that identify the stream and the watershed in which it is located, along with a “Keep It Clean” message. The stream crossing signs will help people identify with the streams in their neighborhood and hopefully encourage them to take steps as individuals to protect these important resources. In 2005, the Clermont SWCD partnered with the County Engineer’s Office and the Phase II communities to print and install these signs at 39 stream crossings in the urbanized areas, including:
- Five stream crossings in Batavia Township
  - One stream crossing in the Village of Batavia
  - Six stream crossings in Goshen Township
  - Six stream crossings in Miami Township
  - Five stream crossings in the City of Milford
  - Five stream crossings in Stonelick Township
  - Eight stream crossings in Union Township
  - One stream crossing at the Miami/Union Township border (East Fork at Roundbottom Road)
  - Two stream crossings in the Village of Williamsburg

Signs installed in 2005 were maintained by local townships, municipalities and the Clermont SWCD in 2006 and 2007.

4. *Clermont County Today* cable television program. The Clermont County Office of Public Information and Storm Water Management Department staff taped a segment on environmentally friendly ways to maintain lawns for the *Clermont County Today* cable television program. The program aired twice daily from June 15 through June 21, 2007 (see Appendix 1 for detailed programming schedule.)
5. *Clermont County "On the Move" Citizen Newsletter*: Several storm water-related articles were submitted for publication in the County's citizen newsletter entitled *On the Move*. Articles include:
  - A notice of public meetings about the proposed formation of a regional storm water utility (February 2007).
  - An article written by County Storm Water Management staff describing the danger of dumping hazardous household waste down a storm drain and how to properly dispose of such waste (May 2007).
  - An article about a Conservation Development dinner hosted by Pierce Township, including a presentation by noted landscape planner and author Randall Arendt (May 2007).
  - An article summarizing the successful efforts of the April 22 Clean & Green litter pick up (June 2007).
  - An article about the upcoming Ohio River Sweep (June 2007).
  - An article about environmentally friendly lawn care practices (June 2007)
  - An article written by SWCD staff announced the installation of the rain garden at District offices (August 2007).
  - A notice about the County's new illicit discharge regulations (August 2007).
  - An article reminding citizens of the drop off service provided by the Fleet Maintenance garage for used oil and automotive fluids (September 2007).
  - Information on leaf litter disposal practices (October 2007)
  - An article that encouraged residents to bring their used cooking oil to Fleet Maintenance Services. The oil will be used as a fuel source for the oil-burning furnaces installed in the work bays (November 2007).

Copies of the above articles are provided in Appendix 1.

6. *"Use the Bin" Recycling Brochure*: Clermont County Storm Water Management staff worked with the Adams/Clermont Solid Waste District to create a recycling brochure for the general public to encourage the use of the recycling bins, define what can be recycled and what cannot, and to provide the link to a source of information on the Office of Environmental Quality website. A total of 1,000 copies were printed. A copy is included in Appendix 1.
7. *City of Milford Welcome Packet*: New residents to the City of Milford receive a Welcome packet of information that includes information on the City's storm water utility, a copy of the "When It Rains, Clermont Drains" brochure, a copy of the City's most recent newsletter, and information on the City's solid waste and recycling program, among other items.
8. *Promotion of Greenacres Splash Connections Workshops*: The Clermont Storm Water Management Department helped promote the Greenacres Foundation 2007 Splash Connection Workshops through its web site and by providing information to the Clermont County Educational Service Center to distribute to county science teachers.

## CHAPTER 2: PUBLIC INVOLVEMENT

### Section 205.1 Press Releases

1. *Issue press releases, in conjunction with local clean-ups:* Completed. Each year, press releases are issued announcing the East Fork River Sweep, the Clean and Green Neighborhood Clean-up and the Ohio River Sweep, as well as Milford's litter pick-up day in the fall ("Make a Difference Day").
2. *Watershed Action Plan public meetings:* Completed. A public stakeholders meeting to discuss the development of the fifth and final Watershed Action Plan for Stonelick Creek was held on August 8, 2007. Direct invitations were extended to 60 community leaders and other stakeholders. Copies of the invitation letter and list of people invited are provided in Appendix 1. Notices were also posted on the OEQ and Soil and Water Conservation District web sites.

### Section 205.2 Newsletters

1. *Publish three storm water articles in Clermont Environmental Quarterly:* Completed. See Section 103.3 above. Copies are provided in Appendix 1.
2. *Publish two storm water articles in local SWCD Newsletter:* Completed. See Section 103.3 above. Copies are provided in Appendix 1.
3. *Publish two storm water articles in SWCD Urban Development Newsletter:* See Section 103.3 above.
4. *Include storm water-related information in at least one issue of municipal/ township newsletter:* Completed. All communities with newsletters included at least one articles related to activities contained in the Storm Water Management Plan. These articles are listed below. Copies of each are included in Appendix 2.

- a. *Village of Amelia:* The summer edition of the Village newsletter included a notice about the Village "junk days" on June 8, 9, and 10; a short article about the curbside yard waste service offered to all residents. Also published was an article written by Storm Water Management staff focusing on how to properly dispose of hazardous household waste without dumping it down any drain;

The fall issue contained a brief posting of the successful efforts of Village "Junk Days", and a separate article discussing the maintenance of the storm water retention pond serving the Sedona Ridge subdivision.

The winter edition contained an article written by Storm Water Management staff identifying Clermont County Fleet Maintenance Services as a drop-off point for used oil and other automotive fluids.

- b. *Village of Batavia:* The April 2007 edition of the "Batavia Bulletin" newsletter included an announcement about Batavia Township's "Clean Up Days" in which the Village participates. There was also an article outlining the Village's brush collection program, urging residents to take advantage of the service.
- c. *Miami Township:* The spring edition included an article promoting the annual Clean and Green volunteer clean-up and the township's "Spring Trash Clean-up". This edition also included an article that summarized responsibilities for maintaining storm sewers and ditches.

The fall edition contained a notice about the upcoming trash days (held Sept 22-23). The winter edition of the newsletter included information on the township's snow removal program, including information about the ground sensing equipment installed on each truck that helps to monitor the amount of salt applied and to regulate application amounts as the trucks speed up and slow down, and some alternative de-icing agents to rock salt.

- d. *City of Milford*: The spring edition of the City newsletter included:
- A quick update on the East Milford Stormwater Improvement Project, which is still in the design phase.
  - An article written by County Storm Water Management staff explaining the benefits of using salt alternatives when salting driveways and sidewalks and how to avoid the damage of rock salt to paved surfaces and vegetation
  - An article about the importance of picking up after your pet as it applies to storm water runoff and water quality (“Stoop and Scoop for Clean Stormwater”).
  - Notices about the April 21 Clean and Green clean-up and the April 28 East Fork River Sweep.

The summer edition contained:

- An announcement about the “Pooper-Scooper” ordinance put in place to alleviate pollution due to pet waste
- A notice about the City's new Vac-All multi-purpose vacuum sweeper.

The fall edition contained:

- An announcement about the City's leaf and brush pick-up services, including information on what homeowners can do to improve the collection efforts (such as raking yard waste away from storm drains)
- Information about the Fall Junk Days on October 19-20.
- Notice about Milford's annual Fall litter collection day on October 27
- A notice about the Adams-Clermont Solid Waste District's free household hazardous waste disposal program.
- An update on the project to eliminate the 54-inch combined sewer overflow (CSO) located at Riverside II Park. The City plans to eliminate all CSOs by December 1, 2009.

- e. *Monroe Township*: The Spring 2007 newsletter included:
- Information about the annual clean-up days scheduled for three days in June where residents can bring various materials, including refrigerators, freezers, air conditioners, batteries, tires and other materials.
  - Information about the Township's Land use Plan, which was approved by the Township Trustees in April 2007 after a two-year public stakeholder involvement process.
  - An article written by County Storm Water Management staff describing the danger of dumping hazardous household waste down a storm drain and how to properly dispose of it.
- f. *Ohio Township*: The summer edition of “Your Community Newsletter” included an article regarding proper disposal of hazardous household waste, and a separate article about recycling opportunities.

- g. *Pierce Township*: The spring edition of the Township “News Line” included three storm-water related articles. The first was an article written by County Storm Water Management staff describing the danger of dumping hazardous household waste down a storm drain and how to properly dispose of it.

This newsletter also included an article about the upcoming conservation development seminar hosted by the Township, in cooperation with the County’s Planning Department. The featured speaker for this seminar was Randall Arendt, a noted expert on sustainable development.

A companion article to the one on the conservation development seminar discussed to formation of a new Township Greenspace Committee. This committee will develop a program that enables residents to donate land or conservation easements for the purpose of preserving undeveloped natural spaces. The first meeting to discuss the program and consider appointments was held on May 16.

- g. *Stonelick Township*: The April edition of “Inside Stonelick” contained an announcement about the upcoming clean up days on May 4-5. This newsletter also contained a short article about Planned Unit Developments, or PUD. This type overlay over existing zoning allows creativity with design elements that can help save natural features in open space and protect riparian zones and water quality. The July/August newsletter had a wrap-up article on the Township Junk Days.

- h. *Union Township*: The Spring edition of the “Talk of the Township” newsletter promoted the Spring Junk Days clean-up held from April 23-28 and also included an article entitled “What is stormwater and why does it matter?” This article discussed the importance of properly disposing of waste and not dumping materials into storm drains to protect our rivers and streams.

The summer edition of the newsletter had an early reminder about the Fall Junk Days, held on October 18 – 20. The fall edition included more detailed information about the Junk Days, as well as an article written by Storm Water Management Department staff about the oil and automotive fluid recycling services offered by the County’s Fleet Management Department

- 5. *Publish quarterly waste disposal and recycling brochure (Milford)*: Completed. Milford published four waste disposal and recycling brochures that were distributed quarterly with pay-as-you-throw garbage stickers. The most recent brochure is also posted on Milford’s web site at [http://www.milfordohio.org/pdf/waste/Recycle\\_Flyer.pdf](http://www.milfordohio.org/pdf/waste/Recycle_Flyer.pdf).

### **Section 205.3 Public Work Groups / Committees.**

1. *East Fork Watershed Collaborative County Team meetings*: As reported in previous annual reports, the structure of the East Fork Collaborative was changed in 2004. Rather than forming “County Teams,” special topic groups were established that focus on specific watershed management issues. No special topic groups met in 2007.
2. *East Fork Watershed Collaborative Executive Board Meetings*: Completed. A meeting of the East Fork Watershed Collaborative’s Executive Board, now known as the Steering Committee, met on March 5, 2007. The Steering Committee is made up of one representative for each of the four Boards of County Commissioners in the watershed, as well as each of the four county Soil & Water Conservation Districts, along with representatives from each of the five major sub-watersheds

(Headwaters, Lake Tributaries, Middle East Fork, Stonelick Creek and Lower East Fork), the Clermont County Office of Environmental Quality and the Clermont Park District. The March 5 meetings included discussions on the status of the watershed action plans, existing and potential Section 319 grant projects, Ohio EPA's WRRSP program, the 15<sup>th</sup> annual East Fork River Sweep and more. A copy of the agenda is included in Appendix 2.

3. *Storm Water Stakeholder Meeting, with focus on Little Miami / Ohio River basins:* In 2007, the Clermont County Storm Water Department completed the proposed storm water utility stakeholder meetings with two open public meetings. and the services it would provide with each of the Boards of Township and Village Councils within the Ohio and Little Miami River basins. More information on these is included in Section 103.2, Item #4.
4. *City of Milford Storm Water Advisory Committee meeting:* Completed. The City of Milford held its annual meeting of the Stormwater/Hazardous Mitigation and Wellhead Commission on October 27, 2007. A copy of the Public Notice along with the agenda for the meeting is included in Appendix 2.
5. *Stonelick Creek watershed issue framing meeting:* On August 8, 2007, the East Fork Watershed Coordinator held a meeting with stakeholders, public officials, County staff and department heads to discuss the water quality issues that exist in the Stonelick Creek watershed and potential action items to be included in the Watershed Action Plan. See Appendix 1 for the letter of invitation.

#### **Section 205.4 Storm Drain Labeling**

1. *Develop storm drain labels for Little Miami and Ohio River basins:* Completed. See Section 103.4.
2. *Information about storm drain labels and spill reporting on web sites:* Completed. Visit <http://www.clermontswcd.org/stdrain.htm> to view information about the storm drain labeling program.
3. *Issue program press release:* Completed in 2003.
4. *Label at least 1250 storm drains:* Completed. To date, a total of 1,698 have been applied. In an effort to increase public involvement and awareness, volunteers have been recruited and used to label the storm drains and place door hangers in numerous instances. See Section 103.4 for details.

#### **Section 205.5 Volunteer Monitoring**

1. *Provide assistance to local schools conducting volunteer monitoring programs:* This task is done on an as-needed basis. In 2007, no schools requested assistance with volunteer monitoring programs.

#### **Section 205.6 Volunteer Clean-Ups**

1. *Clean and Green Neighborhood Clean-up:* Completed. The annual Clean and Green Neighborhood Clean-up was held on Saturday, April 21. A total of 617 volunteers donated their time and energy to collect over 985 bags of litter and 61 bags of recyclable material from several sites throughout Clermont County. At one site, Clean & Green also hosted a Computer Reuse/Recycling event in partnership with the Cincinnati Computer Cooperative. Almost 800 pieces of computer equipment and components were collected, helping to keep such toxins as mercury and lead out of the environment. Copies of the promotional flyer and the press release summarizing the success of the event are included in Appendix 2.

2. *East Fork River Sweep*: Completed. The 15<sup>th</sup> Annual East Fork River Sweep was held on Saturday, April 28, 2007. The “East Fork Stream team” of 250 volunteers walked the banks and canoed about ten miles of the East Fork and Stonelick Creek, picking up litter and garbage along the way. Volunteers recovered over 240 30-gallon bags of trash, 193 tires, 2 mattresses, a child’s rocking horse, three metal drums, and even a kitchen sink, among other items. A copy of the wrap-up report that was posted on the Clermont SWCD web site and issued as a press release is included in Appendix 2.
3. *Ohio River Sweep*: Completed. The annual Ohio River Sweep was held on Saturday, June 16. A total of 395 volunteers gathered approximately 1,176 bags of trash, 98 tires, nine full-size refrigerators, three gas grills, four stoves and several pieces of exercise equipment from portions of the river in New Richmond, Moscow, Neville and Chilo. Copies of the promotional poster and the press release summarizing the results of the Ohio River Sweep are included in Appendix 2.
4. *City of Milford Litter Clean-Up*: Completed. The City of Milford conducted their annual fall clean-up on October 27, 2007. A total of 91 volunteers collected 83 bags of trash and 62 bags of recyclable material from East Milford, Riverside I and II Parks, Carriage Way Park and River’s Edge. The volunteers pulled four tires from the riverbank along with an enormous amount of garbage including parts of a refrigerator.
5. *Promote Adopt-a-Waterway program*: Although funding for the popular Adopt-a-Waterway program administered by the ODNR Division of Watercraft has been eliminated, two groups in Clermont County remain committed to keeping parts of the East Fork Little Miami River free from trash. On April 29, volunteers from the Batavia Rotary and the Valley View Foundation cleaned their adopted stretches of the East Fork in conjunction with the annual East Fork River Sweep.
6. *Complete reports summarizing the success of the above programs, including number of participants, miles of stream cleaned, and the estimated amount of trash collected*: Completed. This information is also included in the event descriptions above.

### **Section 205.7 Waste Collection Events**

1. *Continue antifreeze/motor oil recycling program/track amount collected*: Completed. All residents are able to bring used antifreeze, motor oil or other automotive fluids to the County fleet maintenance garage at no cost. The antifreeze is recycled and used in County vehicles. While the motor oil is used to fuel an oil burning furnace that heats the garage. In 2007, residents dropped off approximately 739.5 gallons of oil, hydraulic and transmission fluids and 61.75 gallons of antifreeze.
2. *Continue appliance recycling program*: Completed. County residents can bring appliances to the fleet maintenance garage for a \$20 fee. The appliances are then transported to Adams-Brown Recycling in Georgetown, OH where the refrigerant is removed and the appliances recycled. In 2007, 465 appliances were collected by the county (this number includes appliances collected by the townships and municipalities and brought to the County for transfer to Adams-Brown recycling).
3. *Free HHW Drop-off Program with Environmental Enterprises, Inc.*: Since its initiation in 2003, the free household hazardous waste drop-off program has been successful and cost-effective replacement for the HHW collection days with which Clermont County used to partner with Brown and Hamilton Counties. Under this program, homeowners who wish to dispose of HHW materials first call the District and provide a description of what they have, including type and amount of material. If at all possible, the Adams-Clermont Solid Waste District (ACSWMD) will first refer the caller to a local disposal or recycling center. If the material in question cannot be recycled or properly disposed of

locally, the District issues that resident a disposal voucher. The resident is then responsible for bringing the hazardous material to Environmental Enterprises, who then bills ACSWMD for the cost of disposal. In 2007, the Solid Waste District issued a total of 49 HHW vouchers, of which 20 were claimed (41 percent).

4. *Partner with Hamilton and Brown County to hold two HHW collection days:* This program has been dropped, as Hamilton County has discontinued its HHW collection days, switching to a voucher program similar to the one operated by the Adams-Clermont Solid Waste District. The Adams-Clermont Solid Waste District still partners with the Brown County Solid Waste District whenever they hold household hazardous waste (HHW) collection days. In 2007, Brown County did not host a HHW collection day.
5. *Review/revise and distribute Clermont County Recycling/Waste Disposal Guide:* Completed. The Recycling Guide was last revised and reprinted in 2006, with a sufficient number of copies to last through 2007. Instead of another printing of the Recycling Guide, the Solid Waste District designed and printed 2000 copies of a 5½" x 8½" full-color four page brochure titled "Use the Bin!" This brochure included the Recycling Hot Line phone number, a list of what can and cannot be recycled at Clermont County drop-off locations, information about the District's interactive web site that can be used to find recycling locations for a variety of materials, and information on the economic benefits of recycling in Ohio. A copy of the brochure is included in Appendix 2.
6. *Hold Township/Village Junk Collection days:*
  - a. *Village of Amelia:* Amelia held its annual Junk Day on June 16, 2007. A total of 49.5 tons of waste was collected.
  - b. *Batavia Village and Township:* In 2007, joint village/township "Junk Days" were held from May 3-5 and from October 4-6. During the May event, two 30-cubic yard dumpsters and two rear-load garbage trucks were filled, and 126 tires and 20 Freon units were collected. Three 30-cubic yard dumpsters were filled in October, along with three rear-load garbage trucks. Also, 78 tires and 30 Freon units were collected in October.
  - c. *Goshen Township:* The annual Goshen Junk Day was held on May 5, 2007. Approximately 35 tons of waste was collected, plus an additional 90 cubic yards of waste. Also, 150 gallons of used oil was collected for use in the Township's oil burning furnace.
  - d. *Miami Township:* Miami Township held its semi-annual Junk days on May 5-6, and on September 22-23. During the May event, 12 rear loader trucks were filled with 39.75 tons of material, plus 19 30-cubic yard dumpsters were filled. In September, 12 rear loader trucks were filled with 88.4 tons of material, plus 18 30-cubic yard dumpsters were filled. Six appliances containing refrigerant were collected during both events and sent to Adams Brown Recycling for proper disposal.
  - e. *City of Milford:* The City of Milford Junk Days event was held on October 19 and 20. During Junk Days, Milford collected waste filling eight 30-cubic yard dumpsters and three packer trucks (one on October 19 and two on October 20).
  - f. *Monroe Township:* Monroe Township held its annual collection event over three days, from June 7-9. The Township collected 65 refrigerators, and 1,759 used tires. Three 50-cubic yard garbage trucks were filled along with eight 30-cubic yard dumpsters, and two 56-cubic yard dumpsters were filled with steel and iron to be recycled.
  - g. *Stonelick Twp/Village of Owensville:* The township and village held their annual collection on May 5-6. A total of 550 residents participated in the event. Approximately 1,000 cubic yards of trash were collected, along with two semi-trailer loads of tires, 140 batteries, seven freezers, 52 refrigerators, 25 air conditioners, 5 refrigeration units, 400 gallons of used motor oil, and four semi-trailers of steel..

- h. *Union Township*: Union Township's held two Junk Days in 2007 in the spring and fall. Combined, the two junk days resulted in the collection of 49 30-cubic yard dumpsters being filled.

### **Additional Activities Not Contained in Storm Water Management Plan**

Each year, Clermont County looks for new opportunities to involve the public in the implementation of the storm water management program. Additional public participation activities included the following:

1. *Revision of Water Management and Sediment Control (WMSC) Review Committee and Public Hearings*: In 2007, Clermont County completed a revision of its WMSC regulations, which contain rules and requirements for sediment and erosion control practices on construction sites, for post-construction best management practices, and rules and regulations pertaining to illicit discharges. To assist with the revisions, the Clermont County Building Department assembled a review committee that met twice in 2007 (February 1 and March 15) to discuss and provide feedback on proposed changes to the WMSC regulations. Copies of the sign-in sheets for both meetings are provided in Appendix 2. In addition, the County held two public hearings prior to adoption of the revised regulations (June 20 and June 27). Copies of the public hearing sign-in sheets are also included in Appendix 2.
2. *Mercury Collection Program*: Since 2005, the Adams-Clermont Solid Waste District has partnered with the Clermont County Health District to offer a mercury collection program. Under this program, Clermont County residents can drop off any items containing mercury (e.g. thermometers, thermostats, etc.) at either OEQ or Health District offices. Personnel from Ohio EPA collect the mercury from the County for proper disposal. In 2007, an estimated 48 pounds of mercury was collected and provided to Ohio EPA.
3. The Clermont County General Health District also participated in a mercury thermometer exchange program from May 21 to June 21. Residents were encouraged to bring mercury thermometers to the Bauer Road campus to be exchanged with free digital thermometers. A copy of the public flyer advertising the collection program is included in Appendix 2.

## CHAPTER 3: ILLICIT DISCHARGE DETECTION and ELIMINATION

### Section 306.1 Inventory of Home Sewage Treatment Systems.

1. *Create a map of home sewage treatment systems using existing information collected under the Basic System Assessment program, and information on parcels not served by a central sewer system:* Completed. The Clermont County Health District tracks both discharging and non-discharging septic systems through its Basic System Assessment (BSA) database. Approximately 96 percent of the discharging systems have been identified. Maps showing locations of both discharging and non-discharging systems have been developed for the various watersheds within the Phase II urbanized area. These maps were provided in Appendix 3 of the 2005 Annual Report. The maps are updated as new home sewage treatment systems (HSTSs) are identified.
2. *Add at least 200 HSTSs to the GIS inventory annually, until inventory is completed:* Completed/Ongoing. The Health District conducts onsite HSTS investigations throughout the year. As new HSTSs (both discharging and non-discharging) are identified, they are added to the GIS database. There were 1,475 new systems added to the BSA program during 2007 bringing the total of BSAs conducted to 19,889.

### Section 306.2 Storm Sewer System Map

1. *Complete map of all publicly-owned storm water outfalls in Phase II areas:* Completed. To date, the Storm Water Management Department has completed mapping both public and private storm water outfalls in all watersheds that serve the Phase II area, as listed below. All watersheds were mapped in 2005 unless otherwise specified. Copies of the outfall maps for each watershed are included in Appendix 3 of the annual report for the year in which they were mapped.

#### *East Fork Little Miami River Watershed*

- Backbone Creek
- Back Run
- Batavia Area Tributaries (2006)
- Dry Run/Sugarcamp Run
- Four Mile Run
- Hall Run
- Happy Hollow
- Lick Fork
- Lower East Fork tributaries
- Lucy Run
- O'Bannon Creek (2006)
- Owensville area tributaries
- Salt Run
- Shayler Run
- Sugarcamp Run
- Ulrey Run
- Wolfpen Run

#### *Little Miami River Tributaries*

- Horner Run
- Unnamed Tributaries (2006)

#### *Ohio River Tributaries*

- Nine Mile Creek
- Ten Mile Creek (2006)
- Twelve Mile Creek

A GIS geodatabase containing information about the outfall locations, diameter, material and condition is maintained by the County Storm Water Management Department. As new outfalls are constructed along with new development, these are added to the database.

### **Section 306.3 Illicit Discharge Ordinance**

1. *Develop regulations prohibiting illicit discharges to the MS4; incorporate into the County's existing WMSC regulations:* Completed. The illicit discharge regulations are included as Chapter 8 of the County's Water Management and Sediment Control Regulations, which were revised and adopted by the Clermont County Board of Commissioners on June 27, 2007. A copy of the regulations is provided in Appendix 3.
2. *Develop regulations prohibiting illicit discharges to the MS4; incorporate into the City's ordinances (Milford, Amelia, Batavia):* Completed. All Phase II municipalities that participate in the County's joint storm water management program have adopted the County's recently revised WMSC regulations, which contain the illicit discharge regulations. The City of Milford and Village of Amelia will assume the responsibility for enforcing these regulations within the municipal limits, while the Villages of Batavia and Owensville will contract with the County to provide enforcement. Copies of the municipal ordinances adopting these regulations are provided in Appendix 3.

### **Section 306.4 Illicit Discharge Detection**

1. *Host meeting of County Scientific Advisory Committee (SAC) to develop stream monitoring and sampling program:* Completed. The annual meeting of the Scientific Advisory Committee was held on February 14, 2007. The purpose of the meeting was to plan the 2007 monitoring and sampling program, which included dry weather surveys to detect illicit discharges in two separate watersheds. Additionally, the Office of Environmental Quality and the Stormwater Department met with Health District staff on March 21, 2007 to discuss a sampling program for selected subdivisions with high concentrations of home sewage treatment systems.
2. *Conduct stream monitoring and sampling program:* Completed. Part of the 2007 monitoring program included dry weather sampling above and below potential illicit discharge locations in the community of Newtonsville and the Horner Run watershed in Miami Township. The dry weather surveys were designed to screen for potential illicit discharges through the direct measurement of instream pollutant concentrations during periods free from the influence of storm water runoff. The nonpoint sources of concern are primarily underperforming home sewage treatment systems (HSTSs) in both watersheds.

The high nutrient and fecal contaminant concentrations observed in many of the samples collected within the Village of Newtonsville supported earlier speculation that on-site HSTSs are not providing adequate treatment and are allowing partially treated sewage to enter the Newtonsville Creek watershed. The County is currently investigating options that would minimize or eliminate this risk. Options being considered include connection of the village to centralized sewers serviced by an existing wastewater treatment plant, or construction of a package treatment plant near the village. Input from the village and its residents will be an integral part of the decision-making process as the county moves forward in these efforts.

In Horner Run, sampling results showed that nutrient concentrations do not appear to be a systemic problem, and there does not appear to be significant loading of bacteria into the

stream, either from the un-sewered homes in the area around Wood Ridge Drive or from the Cook Road lift station. The two elevated *E. coli* values observed in the southern branch of the unknown tributary near Wood Ridge Drive may warrant further investigation.

More direct monitoring of potential illicit discharges was conducted in the East Fork Little Miami River watershed. Seven semi-public waste water treatment plants (or “package plants”) were sampled periodically throughout the summer. All but one of the package plants sampled in this survey had extremely high nutrient values. Suspended solids concentrations were similar to those seen in ambient stream samples. Unlike the nutrient and suspended solids data, the *E. coli* values showed a high degree of variability between the sites. Three of the seven sites had geometric mean values greater than the OEPA criteria value of 126 c.f.u./100 mL. Each of these treatment plants operates under an NPDES discharge permit issued by Ohio EPA, and enforcement of the permit limits is this agency’s responsibility.

A report summarizing the findings of the 2007 chemistry sampling program, including results from the dry weather surveys and the package plant effluent sampling, is provided in Appendix 3. Also, the report may be downloaded at [www.oeq.net/2007\\_WQ\\_Report.pdf](http://www.oeq.net/2007_WQ_Report.pdf).

3. *Develop illicit discharge detection training form:* Completed. See 2005 Annual Phase II Report.

### **Section 306.5 Illicit Discharge Fact Sheet**

1. *Compile and distribute fact sheet for home-owners on hazards associated with illicit discharges:* Completed. The fact sheet developed by the Storm Water Management Department is included in Appendix 3 and is also available on the Department’s web site at <http://www.clermontstorm.net/idhouseholdguide.pdf>.

### **Section 306.6 HSTS Operation and Maintenance**

1. *Conduct HSTS installer training sessions:* Completed. The Health District conducted one installer training session on February 21, 2007. A total of 41 people attended the workshop. The workshops included discussions on the installer requirements, Sewage Nuisance and Abatement Remediation Plan issues, private designer issues, site and soil evaluations, as-built plan requirements, design-build ability and more. A copy of the workshop agenda is provided in Appendix 3.
2. *Inspect at least 3500 HSTSs annually:* Completed. In 2006, the Health District completed 6,895 Basic System Assessments.
3. *Mail HSTS care and maintenance fliers to homeowners after HSTS inspections:* Completed. After conducting HSTS inspections, the Health District mails “Care and Maintenance” fliers with each initial assessment report. Copies of these fliers are provided in Appendix 3 of the 2006 Annual Phase II Report.

### **Additional Activities Not Contained in Storm Water Management Plan**

1. *Storm Water Outfall Screening:* In 2005, Storm Water Management Department staff started screening outfalls for potential signs of illicit discharges as they were mapping outfall locations. If anything suspicious was noted, an Illicit Discharge Detection Form was completed, and follow-up work was conducted to determine if an illicit discharge had

occurred, and if so, where it originated. A copy of each illicit discharge detection form filled out in 2007 is included in Appendix 3. A summary of each is provided below:

*March 7, 2007* – Due to a complaint by a neighbor, a residence was found to have been intentionally dumping diesel fuel from disabled vehicles onto the open ground. Staff from both the County Storm Water Management Department and SWCD investigated the dumping site and spoke with the neighbor issuing the complaint. The responsible resident was sent a letter informing him of the severity of his actions and that his practices were punishable by law. A re-visit to the property at 6658 Shiloh Road showed that the resident had indeed become aware of his mistakes and had been taking advantage of local fluid recycling programs described to him by County staff.

*May 3, 2007* - Clermont County Storm Water Management staff received a phone complaint about a local automotive repair shop illegally discharging automotive fluids into the storm sewer system. Upon investigation, County staff found no indications of oil or other automotive fluids in the stream, or any other indication of an illicit discharge or illegal connection.

*October 31, 2007* – During the storm sewer inventory of Hall Run watershed, a septic discharge and odor was found to be emanating from a storm outfall on the southwest side of SR 32. The discharge from the pipe was clearly laden with untreated septic and bacterial staining could be seen as far back into the pipe as crews could see. Samples were taken from the discharge point, from the manhole where the automotive service HSTS discharged, and from the incoming flow to the manhole from upstream. The samples were analyzed at the Clermont County Lab and results showed an E coli count of > 8,000 cfu/100 mL at the site below the discharge point. The property was contacted by County General Health District officials to abate the problem by a certain deadline. As of the end of 2007, the Health District was still working with the property owner to correct the problems with the HSTS. The location has been placed on the Storm Water Department's illicit discharge "hot list" for further monitoring even after the problem is addressed.

*November 9, 2007* – During the storm system inventory of the Hall Run watershed, County staff discovered a red ink or dye was found to be discoloring several hundred feet of stream in Union Township. The source was traced back to a detention basin at a business complex on Omni Drive. Evidence of the substance was found in a detention basin but not in any upstream structures of conveyance. The Storm Water Department investigated several businesses that contributed flow to the detention basin, but there was no indication that any of these had any part to play with the illicit discharge. The Ohio EPA was called to assist County staff in the matter and still no source was discovered. The basin was placed on the County's "hot list" for future monitoring and the discharge was deemed to be non-threatening and allowed to be flushed from the system naturally (Ohio EPA incident report is included in Appendix 3).

*December 7, 2007* - During the storm system inventory of the Hall Run watershed, Storm Water Department staff discovered a septic discharge and odor emanating from a stream. The Water and Sewer District was immediately contacted and upon investigation, found that there were some problems with the sanitary sewer which were corrected within the week. However, most of the problem was related to a cross connection that was created between the clay sanitary lateral from the house and two 24-inch storm drains. Maintenance of the lateral and the storm drains on private property is the property owner's responsibility. As such, the Water & Sewer District sent the property owner a notice stating the problems must be

corrected within a specific timeframe that extended into 2008. This item will be followed up on in the 2008 Annual Report.

2. *Illicit Discharge Monitoring Hot List*: After completing the storm water outfall inventory, the Storm Water Department developed a GIS layer containing a “hot list” of potential illicit discharges in the County. Locations were placed on the hot list based on the following criteria:
  - History of past illicit discharges
  - Presence of a Discharging HSTS within 200 yards of a storm water outfall
  - Subdivisions constructed before 1990 (when Clermont County’s WMSC Regulations first went into effect).

It is the hope of the Storm Water Department that each of the locations on the hot list can be screened at least once each calendar year.

3. *Storm Sewer System Inventory*: In September, 2006 the Storm Water Management Department began the *Shayler Run Storm System Inventory and Condition Assessment* pilot project after contracting with the consulting team of Burgess & Niple and Strand Associates. The project goal was to inventory and perform condition assessments of all storm system structures, including outfalls, catch basins, manholes pipes and other structures. Attribute data including location, size, diameter, material and condition was collected. The project was completed in Fall 2007 with the development of a fully connected GIS geodatabase of the system serving the Shayler Run watershed. Information regarding any problems noted within the system was sent to the public entity responsible for maintaining that part of the system (i.e., Batavia Township, Pierce Township, Union Township, the County Engineer’s Office, or the Ohio Department of Transportation).

Because the Shayler inventory project was so successful, the County entered into a second contract with Burgess & Niple to perform an inventory of the storm water conveyance system serving the Hall Run watershed. As of the end of 2007, this project was approximately 95 percent complete, and is expected to be completed in February 2008.

Color copies of 11x17 maps illustrating the storm sewer geodatabases for both the Hall Run and Shayler Run watersheds are provided in Appendix 3.

4. *Illicit Discharge Screening*: As part of the Shayler storm sewer inventory project, 377 outfalls were screened for illicit discharges. Another 266 outfalls were screened in the Hall Run Watershed Storm System Inventory project. Illicit discharges that were noted are discussed in Item #1 above.

Additionally, the Storm Water Department screened all storm water outfalls in the immediate vicinity of 60 different automotive repair shops in Clermont County. A list of the locations where screening took place is included in Appendix 3. There were no indications of any illicit discharges at any of the locations.

5. *Host illicit discharge training*: On December 4, 2007 the Clermont County Storm Water Management Department hosted an illicit discharge detection training session for representatives from the City of Loveland, which is partially located in Clermont County. The purpose of the training session was to help Loveland build its own illicit discharge detection and elimination program. A copy of the sign in sheet is included in Appendix 3.

6. *Chemical Spill/HazMat Response:* Throughout the year, there are invariably a number of spills to which local emergency units respond. A summary of these incidents, including the response taken, is provided in Appendix 3.
7. The Clermont County Storm Water Management Department posted several notices related to its illicit discharge program on its web site. These include:
  - A public announcement about and a link to the new County Illicit Discharge Regulations
  - A notification of the revised WMSC Regulations
  - Information about different aspects of the County's Illicit Discharge program, including the storm sewer mapping effort, the illicit discharge regulations, illicit discharge screening and sampling, home sewage treatment systems, education programs and information on how County residents can help identify illicit discharges (see [www.clermontstorm.net/illicit.aspx](http://www.clermontstorm.net/illicit.aspx)).

## **CHAPTER 4: CONSTRUCTION SITE RUNOFF CONTROL**

### **Section 407.1 Revision/Adoption of WMSC Regulations.**

1. *Complete revision of Clermont County Water Management and Sediment Control (WMSC) regulations:* Completed. The revised WMSC regulations were adopted by the Clermont County Board of Commissioners following an extended review process that included to Public Review Meetings in February and March 2007 (see Chapter 2 for more information), and two public hearings on June 20 and June 27. The Board of Commissioners adopted the revised WMSC regulations following the June 27 public hearing, at which no suggestions for revisions were received. The regulations became effective 31 days from the date of adoption. Copies of the sign in sheets for both the review committee meetings and the public hearings are included in Appendix 2. The complete WMSC regulations can be downloaded at <http://building.clermontcountyohio.gov/WMSCRegulations.aspx>.
2. *Municipal adoption of Clermont County WMSC regulations:* Completed. All Phase II municipalities, including the City of Milford and the Villages of Amelia, Batavia and Owensville have adopted the County's WMSC regulations (See Appendix 4 for copies of the signed ordinances).

### **Section 407.2 Inspection/Enforcement of WMSC Regulations**

1. *Contracts between County and municipalities for County enforcement of WMSC regulations:* Nearly Completed. At the end of 2007, the City of Milford and Village of Amelia had adopted the County's WMSC Regulations, as revised in June 2007, but had elected to enforce these themselves. The County was working to finalize agreements with the Villages of Batavia and Owensville to provide enforcement of the regulations. These agreements are expected to be in place by early 2008. In the meantime, the villages are providing their own enforcement.
2. *Inspect 100 percent of construction sites for compliance with WMSC regulations:* Completed. Inspections of active construction sites are conducted by the County Building Inspection Department in conjunction with other inspection activities.
3. *Assign customer complaints to Building Dept. inspector; monitor and track complaint resolution; achieve 50 percent resolution of valid complaints:* Completed. Anyone can submit a written complaint about sediment runoff or erosion problems at active construction sites to the Building Inspection Department. Complaint forms can be obtained by calling the Building Inspection Department or downloading them from the department's web page at <http://building.clermontcountyohio.gov/complaintform.pdf>. The Department is able to address most complaints within 48 hours. During 2007, the Building Inspection Department addressed 89 complaints and resolved 74 of the valid complaints (84 percent).
4. *Track the number of stop work orders and conditional occupancy certificates as indicator of program success:* Completed. In 2007, the Building Inspection Department issued two stop workers and 540 conditional occupancy certificates for WMSC violations.

### **Additional Activities Not Contained in Storm Water Management Plan**

1. Southwest Ohio Erosion and Sediment Control Field Day – Several Clermont County staff attended the Southwest Ohio Sediment and Erosion Control Field Day sponsored by the Warren Soil and Water

Conservation District. The agenda was packed with several rotating BMP training sessions and an outdoor product demonstration. In attendance from Clermont County was:

Building Inspection Department

Craig Gilkinson  
Wes Fritts  
Heath Wilson

Water & Sewer Department

Tim Cherry  
Jeff Goetz  
Jason Simpson

Soil & Water Conservation District

Josh Will

In addition, the Storm Water Department's Program Manager has joined the planning committee for the 2008 Erosion and Sediment Control Field Day. He attended two committee meetings in 2007.

2. Construction BMP Manual and Fact Sheets: In 2006, the Storm Water Management Department, with assistance from the Miami University Institute of Environmental Sciences, completed a Construction BMP Manual, which includes fact sheets for numerous BMPs, each with information regarding usage, benefits, limitations, installation tips, maintenance requirements, estimated costs, alternatives and vendors. In 2007, the manual and the individual BMP fact sheets were posted on the Storm Water Management Department's web site. To view these, go to <http://www.clermontstorm.net/escbmps.aspx>.

## **CHAPTER 5: POST-CONSTRUCTION STORM WATER MANAGEMENT**

### **Section 505.1 WMSC Regulations**

1. *Complete revision of Clermont County Water Management and Sediment Control (WMSC) regulations:* Completed. The County WMSC regulations include post-construction as well as construction regulations for storm water controls. The WMSC Regulations were adopted by the Clermont County Board of Commissioners on June 27, 2007. See Section 407.1 for details.
2. *Municipal adoption of Clermont County WMSC regulations:* Completed. All Phase II municipalities, including the City of Milford and the Villages of Amelia, Batavia and Owensville have adopted the County's WMSC regulations.

### **Section 505.2 Storm Water Post-Construction BMP Manual**

1. *Complete BMP Manual:* Completed in 2005. A post-construction BMP manual was developed as a joint project between Sanitation District No. 1 of Northern Kentucky and Clermont County. The manual focuses on post-construction BMPs, including wet ponds, dry ponds, grass swales, infiltration ditches, rain gardens and others. Within the manual there is a fact sheet for each BMP that summarizes its effectiveness in removing different pollutants, construction and maintenance requirements, estimated range of costs to implement, and links to additional information. These are meant to provide general information about each BMP and to encourage developers and builders to consider some alternative storm water management practices in new developments or sites that are re-developed. Those interested in more detailed engineering drawings and specifications for different BMPs will be referred to ODNR's Rainwater and Land Development Manual. Copies of the fact sheets were included in Appendix 5 of the 2005 Annual Phase II Report, and are also available on the Storm Water Department's web site at <http://www.clermontstorm.net/postconstructbmp.aspx>.

### **Section 505.3 Guidance and Options for Open Space Preservation**

1. *Complete revisions to "Guidance and Options for Open Space Preservation" document:* Completed. The Planning Department and the Open Space Committee completed this document in June 2005. The final report is titled "Tools for Open Space Protection: Guidance and Options for Local Governments." The cover page and table of contents is included in Appendix 5. The entire 84-page document can be downloaded by visiting the Clermont Planning Department's web site (<http://www.clermontcountyohio.gov/planning/>).
2. *Hold regular meetings of Clermont Open Space Committee:* Although there was no meeting held in 2007, several people involved in this committee as well as a number of others (150 registrants in total) attended a Conservation Development Seminar on May 10 at the Holiday Inn in Eastgate. The seminar featured Randall Arendt as a key note speaker. Mr. Arendt is a nationally recognized land use planner and advocate of conservation planning as a keynote speaker. Copies of the brochure and agenda, a newspaper article about the seminar and a list of registrants are included in Appendix 5.

### **Section 505.4 Subdivision Regulations**

1. *Complete report and recommendations for changes to Clermont Subdivision Regulations / present to Planning Commission:* Completed. Formal changes to the regulations were

adopted by the Board of County Commissioners in October 2005. See the 2005 Annual report for details.

The Clermont County Subdivision regulations can be downloaded in their entirety from the Clermont County Planning Department's web site (<http://planning.clermontcountyohio.gov>), and clicking on "Subdivision Review" under the Navigation menu.

2. *Review and, if necessary, revise City/village subdivision regulations:* The Village of Amelia is in the process of reviewing and revising its subdivision regulations. One planned change is to restrict the amount of runoff from new development that is piped into the existing curb and gutter system (to encourage overland flow of runoff and promote infiltration).

### **Section 505.5 Low Impact Development**

1. *Host Low Impact Development Workshop:* Completed. See the 2005 Annual Report for more details.
2. *Develop Low Impact Development educational materials:* Completed. See the 2005 Annual report for more details.

### **Additional Activities Not Contained in Storm Water Management Plan**

1. *Pierce Township Green Space Committee:* At their March 13, 2007 meeting, the Pierce Township Trustees created a Green Space Committee and program. The goal of the new green space committee is to develop the program and help bring in voluntary donations of green space from residents. The committee now meets on the first Wednesday of each month. In line with this effort, the Pierce Township Board of Trustees hosted a Conservation Development seminar on May 10 with nationally-recognized Randall Arendt as the key speaker. A total of 150 people registered for this event. Newspaper articles regarding the green space program and the conservation development seminar are included in Appendix 5.
2. *Milford Storm Water Utility Credits for BMPs:* Currently, 24 non-residential properties hold credits for various storm water best management practices. Details on each are maintained by the City of Milford. Annual reports are required each year. On June 13, 2007 the City sent annual maintenance agreements to each of the 24 non-residential customers. These were reviewed and approved on November 11.
3. *Milford Critchell Park Erosion Control Project:* The Critchell Park Erosion Stabilization Project will stabilize 650 of stream bank using bioengineering techniques and eliminate both the source of in stream sediment from the eroding banks at a rate of 1,500 to 2,000 cubic yards per year. Once the project is completed, a 120-foot permanent buffer will be dedicated to the City of Milford. This permanent buffer area would then become part of the City's park/greenspace and connect to the upstream Riverside Park area where a similar project was completed in 2003.
4. *Demonstration Rain Garden:* In 2007, just prior to the County Fair, the Clermont Soil & Water Conservation District (SWCD) constructed a demonstration rain garden in the fairgrounds near its offices. Signage and a place for informational brochures were also put in place. SWCD staff gave tours during the County Fair in July and had a sign-up for people interested in learning how to construct their own garden. These people were invited to a "How to Construct a Rain Garden workshop held by SWCD and the Storm Water

Management Department on September 27, 2007, as discussed in Chapter 1, Section 103.2. Copies of the workshop notice, agenda and sign-in sheet are included in Appendix 1. Shortly after this workshop, the SWCD Board of Directors authorized the District to offer \$100 mini-grants each year to residents interested in building their own rain garden. The first grants will be given in 2008.

5. *Greater Cincinnati Rain Garden Alliance:* In 2007, the Clermont Storm Water Management Department became an active participant in the Greater Cincinnati Rain Garden Alliance, serving on this group's technical committee. During 2007, the Alliance developed and printed an informational tri-fold brochure and an 11-page full color How-To Guide to rain Gardens. Copies of both are included in Appendix 5.
6. *Training:* Several County employees from various departments attended a rain garden workshop sponsored by the Greater Cincinnati Rain Garden Alliance on May 9 & 10, 2007. The workshop consisted of an intensive two day technical training with presentations by David Dodds and Rusty Schmidt, both of URS Corporation. The attendance list from this workshop is included in Appendix 5.

Storm Water Management staff also attended an intensive two day "Train-the-Trainer" rain garden workshop on October 22-23 where participants were trained on how to install a rain garden on the first day, and then asked to aid homeowners and other individuals on how to install their own rain garden. The second day consisted of a full technical installation of four rain gardens at the Green Acres Arts Center in Cincinnati. The agenda for this workshop and a Certificate of Completion for the staff person attending are included in Appendix 5.

Clermont County Storm Water Department staff also attended participated in a two day Wet Weather Workshop by the US EPA, ORSANCO and others in Florence, KY on September 20-21. The session included presentations by key speakers of LimnoTech and offered green infrastructure, low impact development, and collection systems operation and maintenance training opportunities. The agenda and Certificate of Completion is included in Appendix 5.

From September 19-21, the Director of the Clermont County Planning Department attended a three-day conference titled "Innovations in Planning" in Columbus, OH. The conference included sessions on hydrological design, Ohio EPA's Nonpoint Source Management Plan, innovative citizen participation techniques, landscape ordinances, reinventing parks in built-out communities and more. A copy of the agenda is included in Appendix 5.

7. *Additional Open Space Conservation Efforts; EQUIP program:* Under the Environmental Quality Incentive Program (EQUIP), four conservation efforts were implemented by homeowner cooperators in the Phase II area. The cooperators and practices were:
  - Roger Benter, Stonelick Township – habitat restoration and management
  - Andrew Foppe, Stonelick Township – installation of watering livestock facility to lessen livestock access to nearby streams
  - Pamela Hess, Batavia Township – numerous conservation efforts, including brush management; fence, pasture & hay planting, roof runoff management, nutrient management, livestock watering facility and a heavy use pad to lessen erosion.
  - Greg Holman, Monroe Township – spring development
  - Elaine Miller, Batavia Township – installation of livestock fencing to prohibit entry and erosion damage along stream bank, roadway, and forests.

- Herb Sebastian, Stonelick Township – construction of two grassed waterways.
- Vincent Urbanek – two habitat restoration and management projects
- Greg Wahl, Ohio Township – construction of two livestock exclusion fences, installation of geotextile/gravel access road into heavily-trodden fields to lessen erosion at roadside intersection and to provide safe access for farming machinery and implements, and installation of two heavy use pads.

More information can be found about these EQUIP efforts, as well a program outline at the SWCD website: [www.clermontswcd.org](http://www.clermontswcd.org). An article can also be found in the December 2007 winter edition of the SWCD newsletter (Appendix 1).

## CHAPTER 6: POLLUTION PREVENTION /GOOD HOUSEKEEPING

### Section 604 Measurable Goals

1. *Evaluate existing pollution prevention programs/provide detailed summary:* Completed. In 2003-04, a public service project team from Miami University's Institute of Environmental Sciences (IES) graduate program completed an evaluation of the pollution prevention programs in place at each of the Phase II townships and municipalities. The final report, which included the team's assessment and recommendations for each Phase II partner, was provided with the 2004 Annual Report.
2. *Develop recommendations for pollution prevention program improvements with time line for implementation:* Completed. The IES public service project team developed overall and individual recommendations for each of the Phase II communities (see above).
3. *Develop pollution prevention/good housekeeping training programs for employees:* Completed. The Clermont County Storm Water Management Department worked with Excal Visual, Inc. to review a draft municipal pollution prevention training video and employee quiz. Excal Visual provided a free copy of the final video and training kit to the County in late 2004. In 2005, the Storm Water Department worked with the Phase II partners to develop a schedule where the video and training materials would be loaned to each partner. All Phase II municipal operations employees have viewed the video as of December 2007. Training records are not included with this report, but are maintained at the Clermont County Storm Water Management Department.
4. *Host pollution prevention workshop:* Completed. See the 2006 Annual report for details on the Pollution Prevention Workshop hosted by the Clermont County Storm Water Management Department.
5. *Identify commercial/industrial target areas; provide training and education materials:* Completed in 2005. The Storm Water Management Department developed an industrial pollution prevention brochure and directly mailed a small supply of the brochures to all industrial businesses in the Phase II urbanized area. A copy of the brochure and the cover letter that accompanied it is included in Appendix 6 of the 2005 Annual Report. The brochure can also be downloaded at [www.clermontstorm.net/industrialp2brochure.pdf](http://www.clermontstorm.net/industrialp2brochure.pdf).
6. *Institute record-keeping for road salt/sand application:* Completed for all Phase II co-permittees (note that the Village of Owensville contracts with Stonelick Township for roadway deicing).
7. *Compile baseline information on amount of salt applied:* Completed. The following summarizes the amount of salt applied during the 2007-2008 winter season. For data from past years, see previous annual reports.
  - a. *Clermont County Engineer's Office:* The Engineer's Office is responsible for snow and ice removal from 398 miles of county roads. For the 2007-08 winter season, 7,889 tons of salt were applied during 17 major events, plus spot treatment for isolated areas at other times.
  - b. *Village of Amelia:* The Village has 14 miles of road to treat during each snow/ice storm. During the 2007-08 season, there were 26 application events in which 250 tons of salt were applied (average of 9.6 tons/event).

- c. *Village of Batavia*: During the 2007-08 season, the Village applied 125.15 tons of salt that covered a total distance of 1422.02 miles, for an average of 176.0 lbs. of salt per lane mile.
  - d. *Batavia Township*: The Township has 58.29 lane miles to treat during each snow/ice storm. During the 2007-08 season, there were 25 application events in which 883.5 tons of salt were applied (average of 35.3 tons/event).
  - e. *Goshen Township*: During 2007-2008 season, there were 13 application events in which 563 tons of salt were applied to the township's 39.4 miles of roads (average of 43.3 tons/event).
  - f. *Miami Township*: Miami Township is responsible for treating 147.58 miles of roads each winter season. During the 2007-08 season, there were 20 application events in which the Township applied 4,648.5 tons of road salt and 17,415 gallons of brine.
  - g. *City of Milford*: During 2007-08 season, the City applied a total of 2,075 tons of salt during 17 application events (average of 122 tons per event) to 32 miles of road.
  - h. *Monroe Township*: During the 2007-08 season, the township applied a total of 307 tons of salt to its 26.1 miles of roads. There were 12 application events, resulting in an average of 25.6 tons applied per event.
  - i. *Ohio Township*: Ohio Township is responsible for snow and ice removal from 7.5 miles of township roads. During the 2007-08 winter season, there were 22 application events in which an estimated 160 tons of salt were applied (average 7.3). Because the Township has less than eight miles to treat and only one person responsible for snow and ice removal, that person is able to visit each road more frequently, and therefore use less salt during the initial treatment and only spot treat where needed during subsequent visits. This strategy helps to minimize the amount of salt used during winter storms.
  - j. *Village of Owensville*: Owensville contracts with Stonelick Township for roadway deicing (see below).
  - k. *Pierce Township*: The Township has 56 miles of road (112 lane miles) to treat during each snow/ice storm. During the 2007-08, the Township used 897 tons of road salt during 22 application events (average 40.7 tons/event).
  - l. *Stonelick Township*: During each storm, the Township treats 26.75 miles in Owensville and Stonelick Township. During the 2007-08 season, the Township applied 318 tons of salt during 21 events (average 15.1 tons/event).
  - m. *Union Township*: Union Township is responsible for snow and ice removal from 123.45 miles of township roads. During the 2007-08 season, the Township applied 1,938 tons of salt during 20 events (average 96.9 tons/event).
8. *Salt reduction program - complete evaluation of existing programs, recommend improvements*: Continual reviews are conducted by each entity. The highlight of 2007 was the construction of a 200-ton indoor salt facility in the Village of Amelia,

#### **Other Pollution Prevention / Good Housekeeping Activities**

- 1. *Development of Storm Water Pollution Prevention Plans (SWP3s)*: In 2007, the Clermont Storm Water Management Department began helping each of its co-permittees develop Storm Water Pollution Prevention Plans for their respective activities. This process involved Storm Water Department staff conducting site visits with each of the co-permittees and recording and documenting their existing programs. Based on these site visits, the Storm Water Department, with additional input from each of its partners, created draft SWP3s for each

entity. These are included in Appendix 6. It is important to note that the reports in the appendix are *draft versions only*. These will be revised based on the requirements contained in the 2008 MS4 permit renewal.

## 2. *Miscellaneous Pollution Prevention Activities:*

- In 2007, the Village of Amelia hired its first full-time maintenance supervisor. Among other duties, this person will be responsible for inspection and maintenance of Amelia's separate storm sewer system. The supervisor has begun an inventory of the Village's catch basins and developing a schedule for inspections and cleaning. The supervisor also runs the street sweeping program, in which village streets are cleaned four times a year. The Village of Amelia cleaned catch basins on Lori Lane, Chapel Road and Church Street. Street sweeping was conducted by the Village on June 21 and July 25, with about 1,000 lbs. of waste collected each time.
- Batavia Village conducted street sweeping on 13 different days throughout the year, including daily sweeping during the annual Taste of Clermont Festival from September 5-9. A total of 35.5 road miles were covered. The Village also cleaned 14 separate catch basins during 2007.
- Batavia Township eliminated a 250-gallon outside oil storage container and replaced it with a 55-gallon self containment storage container inside the maintenance facility. To help with spill prevention/response, the Service Department purchased a Drum Bogie and Drum Funnel in July.
- Goshen Township reported 150 gallons of motor oil collected and recycled from township vehicles and the general public.
- The City of Milford purchased a new VacAll truck to increase the efficiency and frequency of street sweeping program. Street sweeping was conducted City-wide (56.4 lane miles) six times during 2007, plus an additional 20 miles before/after special events during the year. Each city-wide street sweeping effort collects enough material to fill about 25% of a 10 cubic yard VacAll truck. Additionally, the city cleaned 509 catch basins and 80 drywells throughout 2007.
- Miami Township accepts used motor oil from township residents throughout the year. It is estimated that the Township collected 24 gallons from residents in 2007. Also, the township cleaned 52 catch basins and 32 culverts in 2007.
- Ohio Township stores oil and transmission fluid from township vehicles on site and contracts with Grubb Oil Co for hauling and disposal. Motor oil is salvaged once a year and transmission fluid about once every two years. In 2006, Grubb Oil took about 31 gallons of motor oil and 10 gallons of antifreeze from the township.
- The Clermont Storm Water Management Department finalized its "Household Guide to Illegal Discharges and Storm Water Pollution Prevention" and posted it on its web site in 2007 (see <http://www.clermontstorm.net/idhouseholdguide.pdf>).

## CHAPTER 7: GENERAL TASKS RELATED TO STORM WATER PROGRAM

1. *Ohio EPA Audit of Clermont County's Phase Storm Water Program:* On March 5, 2007, Chris Cotton of Ohio EPA's Southwest District Office conducted an audit of Clermont County's Phase II storm water program. The results of the audit were included in a letter dated July 6, 2007, a copy of which is included in Appendix 7. Responses to recommendations or requests for additional information raised in this letter are provided below.
  - *Consider surveys in the future to see if outreach efforts are producing better informed residents:* Clermont County will consider this carefully as it conducts a review of Storm Water Management Plan activities in 2008
  - *Continue tracking and mapping HSTs in appropriate areas:* Clermont County is committed to this through the General Health District's Basic System Assessment program.
  - *Include a copy of the final illicit discharge ordinance in the Annual Report:* Completed – the illicit discharge regulations are included in Appendix 3.
  - *Recommendation to inventory all storm sewer inlets that need to be labeled with "Don't Dump, Drains to Stream" decals.* As part of its comprehensive storm sewer inventory and condition assessment program, the County will inventory which inlets have been labeled and which have not. This will take place over the course of the next permit cycle. The County and its partners will continue to promote the storm drain labeling program; however, since the number of inlets in the County likely number in the high thousands, there are no plans to label every single inlet. This has been considered, but was determined not to be the best use of the storm water program's limited resources.
  - *Complete revisions of WMSC regulations/include copies of agreements between Clermont County and Phase II municipalities.* Completed. The revised WMSC regulations were adopted by the Board of County Commissioners on June 27, 2007. Because of the size of the document, the regulations are not included with this Annual Report; however, they can be viewed or downloaded at <http://building.clermontcountyohio.gov/WMSCRegulations.aspx>. Copies of the municipal ordinances adopting the regulations are included in Appendix 3.
  - *Include information on salt storage practices for each MS4 in Annual Report:* Completed. This information is included in the draft pollution prevention plans for each MS4 in Appendix 6.
  - *Future annual reports should summarize the extent to which each MS4 community has pursued waste reduction/pollution prevention options:* Completed. As with the salt storage information, this is included in the draft pollution prevention plans for each MS4 in Appendix 6.
2. *Phase II Committee meeting:* The Clermont County Phase II Committee met once as a group on June 28, 2007. Individual one-on-one discussions between various Phase II partners took place continuously throughout the year. Items discussed during the June meeting included

revisions to the County's WMSC regulations, the decision by the County Commissioners not to move forward with the proposed storm water utility, potential funding sources for the Phase II program, the Ohio EPA audit, the MS\$ permit re-issuance, pollution prevention visits and reporting. A copy of the meeting notes is included in Appendix 7.

3. *Ohio DNR MS4 Permit Meeting:* Staff from the County Storm Water Department and Soil & Water Conservation District attended a meeting sponsored and hosted by the ODNR to assess the first Phase II permit program regulations and to gain feedback from the assembled storm water and erosion control professionals. The meeting was conducted by Jay Dorsey and John Matthews, both of ODNR. A copy of the meeting sign-in sheet is included in Appendix 7.
4. *Ohio EPA QHEI and Biocriteria Training:* The Clermont County Storm Water Department Program Manager attended the Ohio EPA Biocriteria & QHEI training session on October 16-17, 2006, with the intention of becoming a Level 3 Habitat Qualified Data Collector (planned for 2008). A copy of the workshop agenda is included in Appendix 7.