

## Clermont County Stormwater Management Plan 2004 Annual Report

### PUBLIC EDUCATION AND OUTREACH

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

1. *Hold Lower East Fork Watershed Public Meeting:* Completed. In addition to earlier stakeholder meetings, the Clermont Soil and Water Conservation District (SWCD) held a Lower East Fork Watershed public meeting at the Cincinnati Nature Center in Union Township on June 14, 2004 to update people on planning process and implementation projects. Of the Phase II communities in the Lower East Fork, Clermont County, Milford and Batavia Township sent representatives to this meeting.
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 has been 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), or hard copies can be requested by contacting Jay Dorsey, East Fork Watershed Coordinator, by email at [jay-dorsey@oh.nacdnet.org](mailto:jay-dorsey@oh.nacdnet.org), or by calling (513) 732-7075.
3. *Hold Middle East Fork Public Meeting:* This was originally scheduled to take place by September 2004; however, the approach to completing the five subwatershed action plans for the East Fork Little Miami River watershed was revised since the submittal of the Stormwater Management Plan in March 2003. This change came after hiring a new watershed coordinator and revisiting the approach to watershed management. In an effort to increase the involvement of the three counties that comprise the upper portion of the East Fork drainage basin, the decision was made to focus on completing two watershed plans for the East Fork Headwaters and Lake Harsha and its tributaries. In each watershed, the Collaborative held an open public meeting to address water quality issues, organize these issues by topic areas, and create working committees for each topic area. Four committees were established in the Headwaters and three in the Lake Tributaries watershed. The Collaborative then held a series of three meetings for each committee. The purpose of the first meeting was to determine the overall goals to be achieved in each watershed. At the second meeting, the committees developed broad strategies to address each goal. At the third and final committee meeting, the groups prioritized strategies and developed a list of specific tasks to be completed. The goals, objectives and tasks were then compiled and presented again to the larger stakeholders group for endorsement and specific projects were developed for 2005. The recommendations from the various groups will be incorporated into the management plans for these two watersheds. Once these plans have been completed, the East Fork Watershed Collaborative will focus its efforts on developing the watershed management plan for the Middle East Fork watershed (defined as the area draining to the East Fork from a point below Lake Harsha to a point above Stonelick Creek). Public stakeholder meetings will begin in 2005, following the same process outlined above.
4. *Complete draft of Middle East Fork Watershed Action Plan/submit to OEPA and ODNR:* This was originally planned for December 2004, but postponed due to reasons explained in #3 above. The final plan should be completed by early 2006.

5. *Post current version of Watershed Action Plans at [www.oeg.net](http://www.oeg.net)*: Completed in 2004. The final, endorsed Lower East Fork Watershed Action plan can be downloaded at this site.
6. *Present final Watershed Action Plans to the Clermont County Board of Commissioners, City/Village Councils, and Township Trustees for adoption*: In progress. The East Fork Watershed Coordinator presented the Lower East Fork Watershed Action Plan to Milford and Batavia Township. Both agreed to pass a resolution in support of the action plan. Presentations to the Board of County Commissioners and the Union Township Trustees still need to be arranged.
7. *Provide implementation progress reports to County Commissioners, City/Village Councils and Township Trustees*: Completed in 2004/Ongoing task. An implementation progress report for the Lower East Fork watershed was presented to County, municipal and township representatives in attendance at the July 14, 2004 meeting at the Cincinnati Nature Center. Additionally, the East Fork Watershed Coordinator provided progress reports during his presentation of the watershed plan to the Milford City Council and Batavia Township Board of Trustees.

### **Section 103.2 Measurable Goals for Stormwater Educational Programs**

1. *Conduct 25 Enviroscape programs for County school children*: Completed/ongoing. In 2004, the Clermont SWCD Educational Specialist conducted 29 Enviroscape presentations in Clermont County schools.
2. *Conduct three Streamulator public presentations*: Completed/ongoing. In 2004, the Clermont SWCD Educational Specialist conducted three Simulator public presentations at UC Clermont College in Batavia.
3. *Conduct 15 additional stormwater education programs to schools*: Completed/ongoing. In addition to the Enviroscape and Streamulator programs, the Clermont SWCD Educational Specialist conducted 27 other stormwater programs County schools, including the following presentations: Indoor Stream Monitoring (11), Web of Life/Links in the Chain (15), and Sum of the Parts (1).
4. *Conduct three stormwater-related presentations to interest groups*: Completed/ongoing. The East Fork Watershed Coordinator conducted three stormwater presentations to different interest groups in 2004, including a presentation to the Clermont 20/20 Senior Leadership class on March 11; a presentation to the Buckeye United Fly Fishers on September 8; and presentations made during the East Fork Water Quality Workshop held on August 17.
5. *Submit two stormwater-related articles to local newspapers*: Completed/ongoing. In 2004, the Clermont SWCD submitted one press release which was published in the *Clermont Community Journal* on August 11. Two additional stormwater articles were written by staff reporters, including one that appeared in the *Clermont Community Journal* on May 19, and one that appeared in the *Clermont Sun* on September 26.
6. *Local Zoning Commissions will complete "Community Ordinance Worksheet"*: 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 2004, Clermont County received an Ohio Environmental Educational Fund grant to contract

with the Center for Watershed Protection to hold a “Better Site Design” workshop and tour in February 2005. Upon receiving this grant, it was decided that the local communities would benefit more by attending this workshop first, and then completing the COW; therefore, it was decided to postpone completing this task until after the workshop. The County and the Phase II townships and municipalities will complete the COWs in 2005.

### **Section 103.3 Measurable Goals for Stormwater Educational Materials**

1. *Publish three stormwater articles in Clermont Environmental Quarterly:* Completed/ongoing. A number of articles related to stormwater management were published in the County newsletter – the *Clermont Environmental Quarterly*. The Spring 2004 issue included articles about the East Fork River Sweep and the Clean and Green Neighborhood Clean-up, as well as a story about village and township spring junk days. Each of these events is listed as a measurable goal under the Public Involvement minimum measure. The summer edition of the newsletter announced the launch of a new County stormwater web site ([www.oeq.net/sw](http://www.oeq.net/sw)), as well as an announcement for the first public stakeholder meeting for the East Fork TMDL project. The fall newsletter included an article about the 319 grant received by the Clermont SWCD. Under the grant, Clermont SWCD and the Clermont Health District will host a series of septic system public workshops, where owners were given information on the proper operation and maintenance of home sewage treatment systems and information on how to apply for low interest loans for system replacement. Additionally, the workshops will be used to let residents know that the Health District can offer up to \$5,000 to help pay the cost for repair or replacement of systems in the lower East Fork watershed. The 319 grant will also enable the restoration of 1500 feet of Hall Run, a tributary to the Lower East Fork Little Miami River. This was one of the goals listed in the Lower East Fork Watershed Action Plan. Copies of each newsletter are included in Appendix 1.
2. *Publish two stormwater articles in the local SWCD newsletter:* Completed/ongoing. In 2004, two stormwater-related articles were published in the Clermont SWCD newsletter, including “Round n Round” and “Keep Sewage in Its Place.” Copies are included in Appendix 1.
3. *Publish two stormwater articles in the SWCD Urban Development newsletter:* Completed/ongoing. Articles about wetlands identification and enforcement, conservation design and smart growth were published in the spring edition of the Clermont SWCD Urban newsletter. A copy is included in Appendix 1.
4. *Compile stormwater fact sheet for homeowners:* Completed. In 2003 and 2004, Clermont County partnered with the Miami University Institute of Environmental Sciences (IES) to develop a stormwater web site for the county. A team of graduate students from the IES program completed a year-long public service project that resulted in the development of the web site and an assessment of County, municipal and township pollution prevention practices (see details under summary for Minimum Measure #6). As part of the web site development project, the student team compiled or developed a variety of residential fact “sheets” that present stormwater management information as it relates to auto care practices, home repair projects, lawn and garden practices, pet care, household hazardous waste disposal, litter prevention and recycling. All these can be viewed by going to the stormwater web site at [www.oeq.net/sw](http://www.oeq.net/sw) and clicking on “Residential” under the main menu. Additionally, there are links to fact sheets produced by other organizations, including U.S. EPA, and sections that have “Fun Stuff for Kids” and “Resources for Teachers.” To view materials for last two items, click on “Educational Materials” under the Stormwater home page’s main menu.

5. *Compile stormwater BMP fact sheets:* Nearing completion. A Stormwater BMP manual is being 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. At this date, a final draft of the manual has been completed. Only minor editing and formatting remains before the manual will be ready for distribution.
6. *Complete "When It Rains, It Drains" brochure/ distribute 1000 copies annually:* Completed (see Appendix 1). The brochure was developed in 2003. In 2004, a total of 7,500 printed copies of "When It Rains, It Drains, Clermont Drains" brochure were distributed to citizens and Phase II Community Partners. The brochure can be downloaded from the Clermont SWCD web site at <http://www.clermontswcd.org/rains.pdf>.
7. *After the Rain: Urban Runoff video to local cable channels:* In 2004, the "After the Rain: Urban Runoff" video produced by Oregon State University was aired at least three times on local access cable TV (Clermont County, Stonelick Township and Miami Township broadcasts). While this is a good video, it has a west coast focus. Later in the year, Clermont County obtained a copy of the new "After the Storm" video produced by U.S. EPA and the Weather Channel, which is more appropriate for communities in the Midwest. A copy of the video was forwarded to access cable providers for broadcast in 2005.

#### **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 <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 (see Appendix 2).
4. *Label at least 1250 storm drains:* In progress. To date, a total of 496 have been applied.
  - a. *Miami Township:* Has purchased 1500 and has applied 543 labels in the following subdivisions: Indian Meadows, Signal Hill, Cross Creek Meadows, Woodbend, Hunter's Valley, Hidden Ridge, Chadwick Farm, Weber's Crossing, Bramblewood, Torrey Pines, Torrey, Place, Belle Meade Farm and Woodcreek.
  - b. *Milford:* The City of Milford received an Ohio Environmental Education Fund mini-grant to purchase storm drain markers. Over the course of the year, volunteers labeled 150 storm drains and distributed 600 door hangers. Storm drain labeling began on May 12, 2004. The City of Milford, Clermont SWCD and 16 Milford Junior High students and two teachers labeled all storm water catch basins in the Tree Ridge subdivision. On May 26, storm drains labels were placed in the Meadows of Milford and Stoneridge subdivisions. On November 5, Milford Junior High students and teachers labeled storm drains in the Clertoma area. Along with the labels, door hangers were distributed to explain the effects of dumping hazardous materials down

storm drains. This project was broadcasted on the November 5, 5:30 p.m. segment of the Channel 5 news.

- c. *Union Township*: Purchased 2000 labels in 2002. As of the end of 2004, 100 had been applied in the Beechwood Farms, Brook Field Trails, Chanticleer Woods and Nature Run subdivisions.
- d. *Village of Batavia*: Has labeled three storm drains on Old Boston Road.

### **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.
2. *Post recycling/waste disposal guide on web sites*: In progress. The Recycling Guide is available at <http://www.oeq.net/upload/RecyclingBrochure.pdf>. The Clean and Green Collaborative, which is a volunteer group dedicated to beautifying Clermont County and keeping it litter free, has also posted the recycling brochure on its web site (<http://www.clermont2020.org/programs/cg/RecyclingBrochure.pdf>). Of the Phase II municipalities with web sites, Milford has posted a link to the brochure on its web site, as well as recycling and litter collection programs specific to the city. Miami Township has also provided links to the County's stormwater page and to Clean and Green. Other communities are still working to get this posted on their web sites.
3. *Review and update guide*: In progress/ongoing effort. A review was initiated in late 2004 and final edits are currently being made to the brochure. A final revised Recycling Guide will be available in April 2005.
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 stormwater management.

## **PUBLIC INVOLVEMENT**

### **Section 205.1 Press Releases**

1. *Issue press releases, in conjunction with local clean-ups:* Completed. Each year, through the County's Office of Public Information, press releases are issued announcing the East Fork River Sweep, the Clean and Green Neighborhood Clean-up and the Ohio River Sweep. In 2004, these press releases resulted in ten separate articles in the *Clermont Community Journal*, the *Clermont Sun*, and the *Cincinnati Enquirer*. Copies of the articles are provided in Appendix 2.
2. *Watershed Action Plan public meetings:* Completed. Press releases were issued for the two public stakeholder meetings that kicked off the watershed planning process in the East Fork Headwaters and the Lake Tributaries watersheds.

### **Section 205.2 Newsletters**

1. *Publish three stormwater articles in Clermont Environmental Quarterly:* Completed. See Section 103.3 above. Copies are provided in Appendix 1.
2. *Publish two stormwater articles in local of SWCD Newsletter:* Completed. See Section 103.3 above. Copies are provided in Appendix 1.
3. *Publish two stormwater articles in SWCD Urban Development Newsletter:* Completed. See Section 103.3 above. Copies are provided in Appendix 1.
4. *Include stormwater-related information in at least one issue of municipal/ township newsletter:* All communities with newsletters, with one exception, included multiple stories related to stormwater management or pollution prevention. Copies of each are included in Appendix 1.
  - a. *City of Milford:* Included two stormwater-related articles in its spring newsletter, including an article about the City's new stormwater utility and an article about the April Clean and Green Neighborhood clean-up. The City also included two articles in its fall newsletter, including an update about the utility and a notice about its annual fall litter clean-up.
  - b. *Village of Amelia:* Included two articles, including a story about the April Clean and Green Neighborhood clean-up in its first quarterly newsletter, and an article about how residents can take steps to minimize stormwater pollution in its second quarterly newsletter.
  - c. *Village of Batavia:* The "Batavia Bulletin" February newsletter included an article about the County's Phase II stormwater management plan. The May issue included a notice about the Village and Township's "Junk Days." The December newsletter included a story about the storm sewer and road improvement project on West Main Street.
  - d. *Miami Township:* The Township issued a story about new technology being used on its snow removal trucks. The new technology enables the township to automatically manage salt usage, as application rates are set by the driver but controlled by the truck. As the trucks slow, so does the amount of salt applied, thus reducing the amount of salt applied to the township roads.

- e. *Pierce Township*: No stormwater-related articles were included in the township's 2004 newsletters.
  - f. *Union Township*: The Summer "Talk of the Township" newsletter included a story about the storm drain labeling program. The fall edition included a notice about the Township's Junk Days.
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. Copies are included in Appendix 1.

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

1. *East Fork Watershed Collaborative County Team meetings*: The structure of the East Fork Collaborative was changed in 2004. Rather than "County Teams," special topic groups will be established in the five subwatersheds, based on input received at subwatershed wide public meetings. In the East Fork Headwaters, special topic groups were created for agriculture, stormwater/land use, wastewater management, and monitoring and sampling. In the Lake Tributaries subwatershed, special topic groups were formed for land use, stormwater management and wastewater treatment. In total, the Clermont Soil and Water Conservation District (SWCD) and the East Fork Watershed Collaborative held 14 public meeting in the East Fork Headwaters and 11 public meetings in the Lake Tributaries watershed. A watershed wide meeting was also held in the Lower East Fork watershed on June 16.
2. *East Fork Watershed Collaborative Executive Board Meetings*: Completed. The EFWC Executive Committee met on March 29 and September 9.
3. *Stormwater Stakeholder Meeting, with focus on Little Miami / Ohio River basins*: This was not completed in 2004. Multiple stormwater management stakeholder meetings will be held for the entire Phase II area in 2005.
4. *City of Milford Stormwater Advisory Committee meetings / post minutes on web*: The primary purpose of Milford's stormwater advisory committee was to provide input regarding the establishment of the City's stormwater utility, which has since been established. The committee met three times in early 2004. Now that the utility has been created, the advisory committee will meet on an annual basis, or more frequently on an as needed basis.

### **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 (see Appendix 2).
4. *Label at least 1250 storm drains*: In progress. To date, a total of 496 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. 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 2004, 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 24. A total of 592 people gathered at 11 different locations throughout Clermont County to help clean litter from county roads and parks. Volunteers were able to gather 1,037 bags of litter (an estimated 20,620 lbs. of trash). Miscellaneous items included 25 tires, various unidentified metal objects, broken furniture and a car windshield.
2. *East Fork River Sweep:* Completed. The 12<sup>th</sup> Annual East Fork River Sweep was held in conjunction with the Clean and Green clean-up on April 24. Approximately 145 volunteers walked the banks and canoed about seven miles of the East Fork and Stonelick Creek, picking up litter and garbage along the way. Volunteers recovered 214 30-gallon bags of trash, 59 tires, three refrigerators, one stove, two propane tanks, four 55-gallon plastic drums, one engine block and five to six cubic yards of other large miscellaneous garbage.
3. *Ohio River Sweep:* Completed. The annual Ohio River Sweep was held on Saturday, June 19. Even with the Ohio River being slightly up, 338 volunteers helped clean approximately 850 bags of trash plus numerous tires and other large items from portions of the river in New Richmond, Moscow, Neville and Chilo.
4. *City of Milford Litter Clean-Up:* Completed. The City of Milford conducted their annual fall clean-up on October 9. A total of 95 volunteers helped to make this event successful, including students and teachers from Milford Junior High and Milford High Schools. Three truckloads of trash and junk were collected, including pipes, a grocery cart, a garbage can and a riding lawn mower.
5. *Promote Adopt-a-Waterway program:* Unfortunately, the State of Ohio eliminated the funding for the popular Adopt-a-Waterway program administered by the ODNR Division of Watercraft. However, the Clermont SWCD is working to continue this program locally. Two groups have adopted stretches of the East Fork Little Miami River, including the lower four miles by Tetra Tech EMI's Cincinnati office, and a stretch of the East Fork downstream of Lake Harsha to Sycamore Park in Batavia by the Park District, OEQ and SWCD. Two clean-ups were held in 2004. The program has also been promoted to other groups, including the Buckeye United Fly Fishers and the Batavia Rotary Club.
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. Reports were submitted to the Ohio Department of Natural Resources/Division of Recycling and Litter Prevention and ORSANCO. 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. The motor oil is used to fuel an oil burning furnace that heats the garage. In 2004, 50 residents dropped off approximately 150 gallons of oil, while another 15 people brought in an estimated 55 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 2004, 617 appliances (total 77,125 lbs) were collected by the county.
3. *Free HHW Drop-off Program with Environmental Enterprises, Inc.:* The free household hazardous waste drop-off program has been very successful and cost-effective, and the Adams-Clermont Solid Waste District has made this an on-going program. 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, 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 2004, the Solid Waste District issued a total of 36 vouchers, of which 24 were claimed.
4. *Partner with Hamilton and Brown County to hold two HHW collection days:* The Adams-Clermont Solid Waste District partners with the Hamilton and Brown County Solid Waste Districts whenever they hold household hazardous waste (HHW) collection days. In 2004, there were no HHW collection days in Hamilton or Brown Counties; however, Hamilton County hosted two electronics recycling events in April and August. Both were open to Clermont residents. In total, 25.5 tons of electronics (primarily computers) were collected from Clermont County businesses and residents during the two events.
5. *Review/revise and distribute Clermont County Recycling/Waste Disposal Guide:* In progress. A review was initiated in late 2004 and final edits are currently being made to the brochure. A final revised Recycling Guide will be available in April 2005.
6. *Hold Township/Village Junk Collection days:*
  - a. *Batavia Village and Township:* Joint village/township “Junk Days” were held from May 6-8 and from October 7-9. During the May event, ten 30-cubic yard dumpsters were filled, and eight were filled in October. A total of 106 tires were collected in May and 84 tires in October. Also, 64 appliances were collected in May and 53 in October.
  - b. *Miami Township:* Miami Township held its semi-annual Junk days on April 30 and May 1, and on September 24-25. Residents brought in waste that filled over 20 30-cubic yard roll-off dumpsters, plus appliances that filled three dumpsters.
  - c. *Union Township:* Union Township’s Junk Days were held on April 19-24, and on October 14-16. A total of 800 cubic yards of waste was collected during the spring Junk Days, and 400 cubic yards of waste during the fall collection. Over the two events, over 100 appliances were collected. Tires were not accepted.

- d. *City of Milford*: The City of Milford Junk Days event was held on October 15 and 16. During Junk Days, waste filling 16 dumpsters and three garbage trucks were collected.
- e. *Village of Amelia*: Amelia held its annual Junk Day on June 19. A total of 44.15 tons of waste was collected. Tires and appliances were not accepted.
- f. *Goshen Township*: The annual Goshen Junk Days were held in May 2005. The total amount of waste collected was not available.
- g. *Stonelick Twp/Village of Owensville*: The township and village held their annual collection from April 30 to May 1. A total of 470 cubic yards of waste was collected, 120 tons of which was recycled. Also, 27 refrigerators, 14 stoves and seven air conditioners were collected, along with a large number of tires.

## **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:* In progress. An initial map of all HSTSs in Clermont County has been produced, based on the assumption that parcels not served by public sewer have on-site wastewater treatment systems. Using GIS, all parcels that are not connected to the sanitary sewer system were added to the existing layer of recorded HSTSs to produce this map. These are to be verified by Health District personnel as they conduct on-site inspections.
2. *Add at least 200 HSTSs to the GIS inventory annually, until inventory is completed:* Completed/Ongoing. There were 246 new systems added to the BSA program during 2004.

### **Section 306.2 Storm Sewer System Map**

1. *Complete map of all public ally-owned stormwater outfalls in Phase II areas:* In progress. This effort is scheduled to be completed by December 2007. The responsibility of completing this task has been transferred from the County Engineer's Office to the newly created Clermont County Stormwater Management Department. The Stormwater Department is currently focusing its efforts on the Salt Run and Wolfpen Run watersheds.

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

1. *Develop regulations prohibiting illicit discharges to the MS4; incorporate into the County's existing WMSC regulations:* In progress. The County is currently in the process of revising its Water Management and Sediment Control regulations, in which illicit discharge regulations will be incorporated.
2. *Develop regulations prohibiting illicit discharges to the MS4; incorporate into the City's ordinances (Milford):* Not yet completed. The City of Milford currently plans to adopt the illicit discharge resolution to be passed by the County; however, Milford will be responsible for enforcing the regulations within the city limits.

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

1. *Host meeting of County Scientific Advisory Committee (SAC) to develop stream monitoring and sampling program:* Completed, March 2004.
2. *Conduct stream monitoring and sampling program:* Completed. The 2004 chemistry and biological monitoring reports are included in Appendix 3. The chemistry sampling program showed high concentrations of nutrients and bacteria during dry weather in the Miamiville area and in Wolfpen Run, possibly indicating failing home sewage treatment systems or other illicit discharges. Follow-up monitoring will be conducted in 2005 to identify sources.
3. *Develop illicit discharge detection training form:* In progress. This task has been taken over by the Clermont County Stormwater Department, and will be completed in 2005.

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

1. *Compile and distribute fact sheet for home-owners on hazards associated with illicit discharges:* Not yet completed. The Stormwater Department, created in August 2004, will assume responsibility for completing this task. This will be done in conjunction with the development of illicit discharge regulations.

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

1. *Conduct HSTS installer training sessions:* Completed. The Health District conducted two installer training sessions on February 19 and February 24.
2. *Inspect at least 3500 HSTSs annually:* Completed. In 2004, the Health District completed 4,037 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.

## **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:* In progress. Several sets of comments have been received as the result of the public notification process. The Building Inspection Department has addressed these and has completed a draft revision of the regulations. The Building Inspection Department and the Stormwater Department are currently reviewing the regulations to ensure that adequately address all Phase II stormwater regulations. Additionally, the regulations are also being compared to those in place for neighboring Hamilton and Warren Counties, who are also in the process of revising their regulations.
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 407.2 Inspection/Enforcement of WMSC Regulations**

1. *Contracts between County and municipalities for County enforcement of WMSC regulations:* In progress. The County is currently working to finalize contracts with the Villages of Amelia, Batavia and Owensville that provide for County enforcement of the WMSC regulations. The City of Milford conducts its own enforcement activities.
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. Complain forms can be obtained by calling the Building Inspection Department or downloading them from the department's web page at <http://www.co.clermont.oh.us/building/upload/complaintform.pdf>. Most complaints are able to be addressed within 48 hours. During 2004, the Building Inspection Department received 124 valid complaints related to the WMSC regulations. Of these, 117, or 94 percent, have been resolved.

4. *Track the number of stop work orders and conditional occupancy certificates as indicator of program success:* Completed. In 2004, the Building Inspection Department issued 165 stop workers and 82 conditional occupancy certificates for WMSC violations.

## **POST-CONSTRUCTION STORMWATER MANAGEMENT**

### **Section 505.1 WMSC Regulations**

1. *Complete revision of Clermont County Water Management and Sediment Control (WMSC) regulations:* The County WMSC regulations include post-construction as well as construction regulations for stormwater controls. This task is in progress. 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 Stormwater BMP Manual**

1. *Complete BMP Manual:* Nearing completion. A Stormwater BMP manual is being 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. At this date, a final draft of the manual has been completed. Only minor editing and formatting needs to be done before the manual will be ready for distribution.

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

1. *Complete revisions to "Guidance and Options for Open Space Preservation" document:* In progress. The Planning Department and the Open Space Committee has assembled a draft document, now titled "Tools for Open Space Protection: Guidance and Options for Local Governments." At this time, a final review still needs to be conducted by the Committee. After this, a final draft will be presented to the Clermont County Planning Commission for their review, after which it will be presented to the Board of County Commissioners for adoption. This is expected to be completed in 2005.
2. *Hold regular meetings of Clermont Open Space Committee:* Monthly meetings of the Open Space Committee were held during the first six months of the year, and on August 31. The Committee has not met since this time, but will again start meeting on a regular basis during the second quarter of 2005.

### **Section 505.4 Subdivision Regulations**

1. *Complete report and recommendations for changes to Clermont Subdivision Regulations / present to Planning Commission:* Clermont County conducted a review of its subdivision regulations in 2004. Currently, a revised draft has been completed and public hearings are being scheduled. Formal changes to the regulations will be adopted during 2005. A summary of changes as they relate to stormwater management will be provided in the 2005 Phase II annual report.
2. *Review and, if necessary, revise City/village subdivision regulations:* To date, none of the Phase II municipalities have completed a review of their existing subdivision regulations. This task is not scheduled to be completed until December 2007.

## **Section 505.5 Low Impact Development**

1. *Host Low Impact Development Workshop:* In progress, as of December 2004. In 2004, the Clermont County Office of Environmental Quality (OEQ) received an Ohio Environmental Education Fund grant from Ohio EPA to host a low impact development workshop and tour. Grant funds were used to contract with the Center for Watershed Protection to host the workshop, which was scheduled for February 16, 2005. As of the end of 2004, a committee consisting of County staff and local members of the planning and development community met to determine the agenda for the workshop and subsequent tour, and a brochure and registration form had been developed. Details of the workshop and tour will be provided in the 2005 Phase II Annual report.
2. *Develop Low Impact Development educational materials:* In progress, as of December 2004. Under the Ohio Environmental Education Fund grant, Clermont County and the Center of Watershed Protection were working to compile a binder full of materials related to “better site design” and low impact development. The binders will be distributed to all those in attendance at the February 16 Better Site Design workshop. The materials will also be distributed electronically on a workshop CD that will be included with the binder.

## **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 team's assessment and their recommendations are included in their final report, provided in Appendix 4.
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 the Phase II communities (Appendix 4).
3. *Develop pollution prevention/good housekeeping training programs for employees:* Completed. The Clermont County Stormwater Department worked with Excal Visual, Inc. to review a draft municipal pollution prevention training video and employee quiz. The training video has been completed and Excal Visual provided a copy of the video and training kit to the County. In 2005, the Stormwater Department will begin to loan the training materials to the other Clermont Phase II communities upon their request.
4. *Identify commercial/industrial target areas; provide training and education materials:* Nearly completed. As of the end of 2004, an industrial pollution prevention brochure had been drafted and a list had been compiled of the top 100 non-residential properties with the greatest amount of impervious area. The brochure will be printed and distributed in early 2005.
5. *Institute record-keeping for road salt/sand application:* Nearly completed.
  - a. *Clermont County:* Completed.
  - b. *City of Milford:* Completed.
  - c. *Village of Amelia:* Record keeping not yet in place.
  - d. *Village of Batavia:* Completed.
  - e. *Village of Owensville:* Owensville contracts with Stonelick Township for roadway deicing.
  - f. *Batavia Township:* Completed.
  - g. *Goshen Township:* Completed.
  - h. *Miami Township:* Completed.
  - i. *Monroe Township:* Completed.
  - j. *Ohio Township:* In progress. Numbers currently estimated as closely as possible.
  - k. *Pierce Township:* Completed.
  - l. *Stonelick Township:* Completed.
  - m. *Union Township:* Completed.
6. *Compile baseline information on amount of salt applied:* Nearly completed.
  - a. *Clermont County:* The Engineer's Office has monitored the amount of salt used each year for some time. Records since the 1999-2000 snow season are provided below:

Snow Season	Total Tons of salt used	Salt used per mile (tons)	No. of snow events
1999 - 00	2106.3	5.4	14
2000 - 01	3227.5	8.3	15
2001 - 02	1244.3	3.2	9
2002 - 03	6961.8	17.9	27
2003 - 04	5530.5	14.2	16

- b. *Village of Amelia*: Record keeping not yet in place.
- c. *Village of Batavia*: In 2004, there were nine application events in which 120 tons of salt were applied to 538 total lane miles.
- d. *Village of Owensville*: Owensville contracts with Stonelick Township for roadway deicing.
- e. *Batavia Township*: In 2004, there were 19 application events in which 715 tons of salt were applied to 58.29 lane miles (1107.5 miles total).
- f. *Goshen Township*: In 2004, there were five application events in which 129.07 tons of salt were applied to 39.36 miles (196.8 miles total).
- g. *Miami Township*: In 2004, there were 12 application events in which 2,585 tons of salt were applied to 135.12 miles (1621.4 miles total).
- h. *Monroe Township*: In 2004, there were 10 application events in which 225 tons of salt were applied to 26 miles (260 miles total).
- i. *Ohio Township*: In 2004, there were eight application events in which an estimated 120 tons of salt were applied. During each application, Ohio Township treats seven miles of roadways.
- j. *Pierce Township*: During the 2003-04 snow season, the township used 894 tons of road salt during 16 application events. Over the course of the 2004-05 snow season, there were 20 application events in which 700 tons of salt were applied. During each application, Pierce Township treats 50 miles of roadways.
- k. *Stonelick Township*: In 2004, there were eight application events in which 150 tons of salt were applied to 26.75 miles in Owensville and Stonelick Township (214 miles total).
- l. *Union Township*: In 2004, there were 13 application events in which an estimated 1,600 tons of salt were applied to 118 miles (1,534 miles total).

7. *Salt reduction program - complete evaluation of existing programs, recommend improvements*: In progress.

- a. *Clermont County*: A review of the road salt application program has not yet been completed.
- b. *City of Milford*: A review of the road salt application program has not yet been completed.
- c. *Village of Amelia*: Record keeping not yet in place
- d. *Village of Batavia*: All Village salt trucks have been computerized and programmed to dispense the minimum amount of salt necessary for the existing conditions.
- e. *Village of Owensville*: Owensville contracts with Stonelick Township for roadway deicing.

- f. *Batavia Township*: In progress. Currently, the township is evaluating computerized systems to regulate the amount of salt being applied from the trucks.
- g. *Goshen Township*. A review of the road salt application program has not yet been completed.
- h. *Miami Township*: Miami Township employs state-of-the-art technology on its snow removal trucks to automatically manage salt usage. Application rates are set by the driver but controlled by the truck. As the trucks slow, so does the amount of salt applied, thus reducing the amount of salt applied to the township roads. The trucks, the amount of salt applied, the route taken and the exact location of road salt application are monitored in real time by Township staff. Residents can also view the progress of the trucks via the Internet. For more information, visit the township's snow removal web site at [http://miamitownshipoh.gov/service/road\\_maintenance/snow/snow\\_control.htm](http://miamitownshipoh.gov/service/road_maintenance/snow/snow_control.htm)
- i. *Monroe Township*: A review of the road salt application program has not yet been completed.
- j. *Ohio Township*: A review of the road salt application program has not yet been completed.
- k. *Pierce Township*: An evaluation of the existing program was completed. During 2004-05, the township began mixing sand with the road salt. As a result, less tons of salt were applied during the 2004-05 than in the 2003-04 season, even though there were more application events.
- l. *Stonelick Township*: A review of the road salt application program has not yet been completed.
- m. *Union Township*: A review of the road salt application program has not yet been completed.