

AN ORDINANCE ADOPTING A STORM WATER MANAGEMENT PROGRAM AND AUTHORIZING THE FILING THEREOF WITH THE OHIO ENVIRONMENTAL PROTECTION AGENCY AND DECLARING AN EMERGENCY

WHEREAS, the Federal Water Pollution Control Act provides that, except in compliance with the Clean Water Act, the discharge of any pollutant to water of the United States by any person shall be unlawful; and

WHEREAS, the Clean Water Act amendments of 1987 explicitly required the United States Environmental Protection Agency to adopt regulations to require NPDES Permits of storm water discharges; and

WHEREAS, on December 8, 1999, the U.S. EPA issued its Phase II Storm Water Regulations requiring that operators of small municipal separate storm sewer systems within urbanized areas, such as the Village of Richfield, to apply for NPDES Permit coverage by March 10, 2003; and

WHEREAS, as a delegated NPDES permitting authority, the Ohio Environmental Protection Agency is responsible for implementing the Storm Water Phase II regulations; and

WHEREAS, by submitting a permit application and storm water management plan, the Village will be covered under the Ohio EPA general permit.

NOW, THEREFORE, BE IT ORDAINED by the Council of the Village of Richfield, Summit County, State of Ohio:

SECTION 1. That the Mayor and the Finance Director be, and they hereby are, authorized and directed to submit a Notice of Intent application form, a Storm Water Management Program and a non-refundable application fee of \$200.00 to the Ohio Environmental Protection Agency, a copy of which Notice of Intent and Storm Water Management Program are attached hereto as Exhibits "A" and "B," respectively, and incorporated herein fully as if by reference.

SECTION 2. This Ordinance is hereby declared to be an emergency measure necessary for the immediate preservation of the public health, safety and welfare and for the further reason that it is immediately necessary in order to have the application submitted to the Ohio Environmental Protection Agency by the March 10, 2003 deadline; wherefore, provided this Ordinance receives the affirmative vote of two-thirds of the members of Council elected or appointed, it shall take effect immediately upon its passage

1. 2000-2001

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Resolution No. 14-2003 (Continued)

and execution by the Mayor; otherwise, it shall take effect and be in force from and after the earliest period allowed by law.

PASSED: March 4, 2003

Michael Lyons  
President of Council

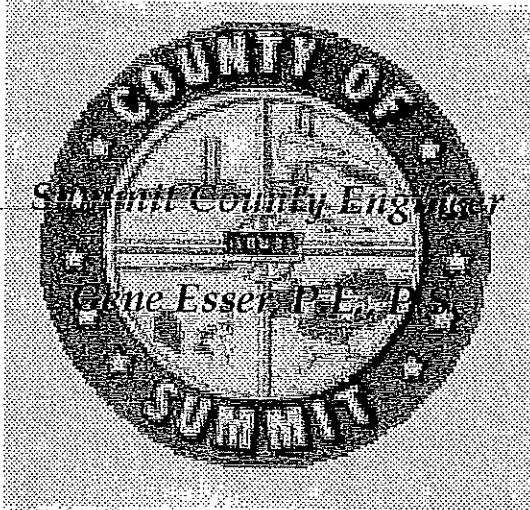
Donald W. Farsen  
Mayor

Dated: 3/5/2003

ATTEST:

Carole Gibson  
Clerk of Council





## Summit County Countywide Storm Water Management Program (SWMP)

**Prepared in fulfillment of the requirements of:**

Ohio EPA NPDES Phase II General Permits  
OHQ000001 and OHQ100000  
Dated 12/27/02

**Prepared on Behalf of:**

Co-Permittees of a Group NPDES Phase II Submittal

**Prepared By:**

Summit County Engineer's Office  
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Akron, OH 44331  
(330) 643-2850

March 10, 2003

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- Appendix B Copies of Agreements, Letters, or Other Documents Related to this SWMP
- Appendix C Existing NPDES Permits Located Within Summit County
- Appendix D Summit County Riparian Ordinance
- Appendix E US EPA Impaired Water Body Data

## Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations."

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Jim McCarthy  
Summit County Executive Officer

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Gene Esser, P.E., P.S.  
Summit County Engineer

## 1.0 Introduction

This Countywide Storm Water Management Program (SWMP) is being submitted in fulfillment of the requirements of two Ohio Environmental Protection Agency (Ohio EPA) National Pollutant Discharge Elimination System (NPDES) Phase II General Permits (Ohio EPA Permits) issued on December 27, 2002 and as listed below:

- Ohio NPDES Permit No.: OHQ000001 for Small Municipal Separate Storm Sewer Systems (all watersheds in this SWMP except the Yellow Creek Watershed);
- And, Ohio NPDES Permit No.: OHQ100000 for Small Municipal Separate Storm Sewer Systems Located Within Rapidly Developing Watersheds (the Yellow Creek Watershed in this SWMP).

Copies of these Ohio EPA Permits are provided in Appendix A.

Under these permits, the Ohio EPA authorizes small (populations of less than 100,000 people) municipal separate storm sewer systems (MS4s) to discharge storm water under from outfalls and into the receiving waters of the state identified herein and in the accompanying Notice of Intent (NOI) submitted for this Group permit application submittal. It is understood that these Ohio EPA Permits will remain in effect until the expiration date of December 26, 2007.

The Ohio EPA Permits define a MS4 as:

“a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) that are: owned or operated by the federal government, state, municipality, township, county, district, or other public body (created by or pursuant to state or federal law) including special districts under state law such as a sewer district, flood control district or drainage districts, or similar entity, or a designated and approved management agency under Section 208 of the act that discharges into surface waters of the state; and designed or used for collecting or conveying solely storm water, which is not a combined sewer, and which is not a part of a publicly owned treatment works.”

All of the townships, villages, and cities within Summit County except the Village of Peninsula are located fully or partially within an urbanized area (UA) as determined by the 2000 Decennial Census by the Bureau of Census (Figure 1). Therefore the Ohio EPA identified these jurisdictions as jurisdictions that must apply for a NPDES Phase II permit. The City of Akron, with a population in excess of 100,000 people, is also not covered in this SWMP since it was required to participate in Phase I permit of the Ohio EPA NPDES program.

This SWMP has been prepared in support of an application of a joint NOI on behalf of multiple Co-Permittees as described in Section 2.3 of the Ohio EPA Permits. Section 2.3 states that a joint NOI may be filed with “one or more MS4s” as long as the SWMP

clearly describes “which permittees are responsible for implementing each of the control measures” (see Appendix A).

The list of jurisdictions and entities that have committed to participate as Co-Permittees in this program are presented in Table 1.0. Summit Metro Parks has been included in the list of Co-Permittees at their request. This SWMP does not include the following jurisdictions that elected to develop separate SWMPs and submit separate permit applications: the City of Barberton, the City of Cuyahoga Falls, the City of Fairlawn, the City of Hudson, and the City of Norton. It is the goal of the County Engineer to continue discussions with the representatives of these jurisdictions to facilitate the possible incorporation of these separate SWMPs in this program at some point in the future. Four meetings were held during the preparation of this document to allow each Co-Permittee to review and comment on the BMPs included in the program and the content of this document.

Table 1.1 presents the population of each Co-Permittee, the total area of each Co-Permittee, and the area and proportion of the UA within the boundaries of each Co-Permittee. Table 1.2 lists each Co-Permittee located within the fifteen major watersheds in Summit County. Figure 2 shows the boundaries of the fifteen watersheds delineated for this program.

This SWMP presents the BMPs proposed for a single “Rapidly Developing Watershed” as defined by the Ohio EPA. The Yellow Creek Watershed BMP table (Table 16.0) provides the accelerated implementation schedule for the Control Measures 4 and 5 BMPs as required by Ohio NPDES Permit No.: OHQ100000.

## **1.1 Purpose**

The storm water management program described in this document has been developed with the intent to reduce the discharge of pollutants from the MS4s of the Co-Permittees to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of Ohio Revised Code 6111 as described in the Ohio EPA Permits.

Implementation of this SWMP and the Phase II Program will be carried out over a five-year period. Once fully implemented, the program will help to minimize the adverse impacts of storm water discharges from small municipalities on the region’s water resources.

This program and associated BMPs will be subject to continuous evaluation throughout the permit period. The group permit approach embraced by the Co-Permittees of this program is intended improve the effectiveness of the program by the implementation of the program on a watershed and multi-community approach. Co-Permittees of this group program will be able to consolidate resources and share successful BMP implementation

methods with other Co-Permittees thereby minimizing the use of inadequate BMP implementation methods.

## **1.2 Legal Authority**

The Co-Permittees listed herein have provided written confirmation of their commitment to satisfy the requirements of the Ohio EPA Permits and the conditions of this SWMP. Each Co-Permittee is also in the process of enacting legislation that states their intent to participate in this SWMP. Copies of these documents are provided in Appendix B.

Township Co-Permittees in this SWMP have authority to comply with only some of the requirements of the Ohio EPA Permits. Township legal authority is described under the Ohio Revised Code (O.R.C.) as the ability to “construct, reconstruct, resurface, or improve any public road or part thereof under its jurisdiction” (O.R.C. 5571.01), and to repair roadways including facilities for the drainage of water from the surface of the roadway and removing obstacles in ditches, drain courses, or water courses (O.R.C. 5571.01, O.R.C. 5571.02, O.R.C. 5571.15, and O.R.C. 5589.06). Townships also have the authority to “regulate land uses in such a manner as to control the drainage of surface water from residential subdivisions, provided such regulation is performed by resolution, in accordance with a comprehensive plan, and for the purpose of promoting public health, safety, and morals”(Opinion of the Attorney General (OAG) 94-098). Townships are not specifically empowered allocate funds to improve the quality of the “waters of the State” through the implementation of BMPs as required by the Ohio EPA Permits.

Therefore, it appears that the Township Co-Permittees lack the legal authority to devote a portion of their budget or resources to implement and enact at least part of the BMPs required for Control Measures 3, 4, 5, and 6. State statutes could be adopted that provide townships with the necessary authority to comply with all of the requirements of the Ohio EPA Permits. A footnote on Tables 2.0 through 16.0 identifies those BMPs that will be implemented once enabling legislation is passed by the State of Ohio.

## **1.3 Reporting Requirements**

The Co-Permittees of this SWMP recognize that the Ohio EPA Permits require the submittal of annual reports starting one year after the OHIO EPA grants General Permit coverage and continuing yearly until for five years. The annual reports will summarize:

- The status of compliance with the conditions of the Ohio EPA Permits
- An assessment of the appropriateness of the selected BMPs
- The progress achieved toward reducing the discharge of pollutants to the MEP
- The measurable goals of each of the minimum control measures
- The results of any information collected and analyzed during the previous year
- An implementation schedule of storm water activities to be undertaken during the next reporting cycle that are not already described in this SWMP

- And any proposed changes to the SWMP, BMPs, or other elements described herein.

## **1.4 Record Keeping**

Copies of all reports required by the Ohio EPA Permits, a copy of the permit issued by the Ohio EPA, and copies of all data used to complete or evaluate the reports submitted under the Countywide Group Permit will be kept for a period of three years from the date of the report or for the life of the permit, whichever is longer. It is understood the Ohio EPA may extend this time period at any time. It is also understood that all records and reports must be kept at a location accessible to the Ohio EPA and also must be made available to the public if requested to do so in writing.

## **1.5 BMP Table Summary**

The following sections of this document and the associated tables describe: the BMPs to be implemented under this program, the measurable goal for each BMP, the Co-Permittee responsible for implementing each BMP in a particular watershed, and the rationale for the selection of the BMPs.

Tables 2.0 through 16.0 each contain six sheets that detail the BMPs proposed per control measure for the fifteen watersheds within Summit County. The BMP tables identify the entity or Co-Permittee that is responsible for implementing a particular BMP within each Co-Permittee area. Notes at the bottom of each control measure table present a legend of the numbers and symbols used in the columns below each the name of each Co-Permittee.

Co-Permittees may be responsible for the implementation of a BMP within their area (an "x" in the Co-Permittee column); or an entity such as the Summit Soil and Water Conservation District (SSWCD) or the Summit County Combined General Health District (SCCGHD) may implement a BMP in a Co-Permittee area with the full cooperation and coordination of the Co-Permittee (an "\*" in the SSCWD or SCCGHD column and a "1" or "2" in the Co-Permittee column). In some instances a BMP may not be applicable to a particular Co-Permittee area so a "NA" appears in the table. For example, a "NA" would be appropriate for a HSTS BMP if a Co-Permittee area was entirely connected to public sewer and there was no future potential for the installation of HSTS's within the permit period.

The person responsible for the implementation or coordination of a particular BMP for an entity or Co-Permittee is listed in Tables 1.0 and 1.3. The Summit County Engineer's Office will provide coordination and oversight to the Co-Permittees of the Countywide SWMP in addition to the implementation of this program within the Summit County MS4 area. The Engineer's Office will also facilitate and coordinate meetings and provide a centralized location for the implementation and evaluation records throughout the permit period.

## **2.0 Description of Co-Permittee MS4 Areas**

**Summit County**

**Bath Township**

**Boston Township**

**Copley Township**

**Coventry Township**

**Franklin Township**

**Northfield Center Township**

**Richfield Township**

**Sagamore Hills Township**

**Springfield Township**

**Twinsburg Township**

**City of Macedonia**

**City of Munroe Falls**

**City of Stow**

**City of Tallmadge**

**City of Twinsburg**

**Village of Boston Heights**

**Village of Clinton**

Village of Lakemore

Village of Mogadore

Village of New Franklin

Village of Northfield

Village of Northfield

Village of Richfield

Village of Silver Lake

## **2.1 *Impaired Water Bodies***

The US EPA 303(d) list of impaired waters lists many of the water bodies in Summit County as having some sort of water quality impairment. Impaired water bodies in the Cuyahoga River State Basin include: Brandywine Creek, the Cuyahoga River (Brandywine Creek to Tinkers Creek, Little Cuyahoga River to Yellow Creek, Yellow Creek to Brandywine Creek); Fish Creek; Mud Brook, Pond Brook, Tinkers Creek headwaters to Pond Brook, and Pond Brook to Cuyahoga River), and Yellow Creek. Impaired water bodies in the Muskingum River State Basin include: Hudson Run, Long Lake Nimisila Creek, Nimisila Reservoir, Summit Lake, Turkeyfoot Lake, and the Tuscarawas River (headwaters to Wolf Creek, and Pigeon Run to Sandy Creek, and Wolf Creek to Chippewa Creek). A copy of the US EPA impairment data for each of these water bodies is included in Appendix E.

### **3.0 Control Measure 1 - Public Education and Public Outreach**

The Countywide SWMP program for Control Measure 1 has been developed through a series of monthly meetings that began in 2002. The Summit Soil and Water Conservation District (SSWCD) organized a Public Involvement and Public Education (PIPE) meetings to assemble local entities and jurisdictions to discuss and create a program of BMPs for Control Measures 1 and 2. The Control Measure 1 BMPs presented in this SWMP were reviewed and revised for inclusion in this program by the attendees of PIPE meetings. The Co-Permittees of this program have evaluated each BMP to ensure that BMP could be successfully implemented throughout their area. The BMPs for Control Measure 1 are presented in Tables 2.0 through 16.0.

The SSWCD will continue to coordinate the PIPE meetings during the permit period and will also implement the BMPs for Control Measure 1 if a Co-Permittee chooses not to implement the BMPs using it's own staff and resources. Co-Permittees that have chosen to utilize the SSWCD to implement the BMPs on their behalf will initiate agreements with the SSWCD. Tables 2.0 through 16.0 identify whether the SSWCD or the individual Co-Permittee will be implementing a particular BMP for Control Measure 1. A copy of a letter from the SSWCD that confirms their commitment to implement the BMPs for Control Measures 1 as shown in Tables 2.0 through 16.0 is included in Appendix B.

The Co-Permittees of this SWMP have chosen a mix of Public Education and Outreach BMPs that are a modification of existing education and outreach programs or are new BMPs created specifically for the Phase II program. The BMPs selected for Control Measure 1 include workshops, brochures, the creation of a Phase II link on the County webpage, articles in local newspapers or newsletters, videos, presentations to the public, and mailings. Each of these BMPs has been developed to focus on a specific target audience or audiences within the County. The target audiences for Control Measure 1 BMPs include: businesses, adult residents, teachers, young adults, students, and home sewage treatment system (HSTS) users. Regular PIPE meetings will be continued throughout the permit period to discuss the implementation of the BMPs, the effectiveness of any BMPs already implemented, and a revision to the BMPs as necessary to increase their effectiveness in contributing to reducing the discharge of pollutants in storm water.

Several of the Control Measure 1 BMPs listed in Table 1 will also be implemented by the Summit County Combined General Health Department (SCCGHD) with the full support and cooperation of each Co-Permittee. The SCCGHD maintains a database of the existing HSTSs throughout the county (Table 1.4) and has existing public education and outreach materials that can be readily applied to the Phase II requirements with very little modification. The SCCGHD will implement the HSTS BMPs for Control Measure 1 on a countywide basis.

## **4.0 Control Measure 2 - Public Participation and Involvement**

The Countywide SWMP program for Control Measure 2 has been developed through a series of monthly PIPE meetings that began in 2002. As stated in the previous section, the SSWCD organized the PIPE meetings to assemble local entities and jurisdictions to discuss and create a program of BMPs for Control Measures 1 and 2. The Control Measure 2 BMPs presented in this SWMP were reviewed and revised for inclusion in this program. The Co-Permittees have evaluated each BMP to ensure that each could be successfully implemented throughout their area. Co-Permittees participating in this SWMP attended these meetings and have contributed to the development of the BMPs for Control Measure 2 as presented in Tables 2.0 through 16.0.

The SSWCD coordinated the meetings and will implement the BMPs for Control Measure 2 if a Co-Permittee chooses not to implement the BMPs using its own staff and resources. As stated in Section 3.0, Co-Permittees that have chosen to utilize the SSWCD to implement BMPs on their behalf will initiate agreements with the SSWCD. Tables 2.0 through 16.0 identify whether the SSWCD or the individual Co-Permittee will be implementing a particular BMP for Control Measure 2.

The Co-Permittees of this SWMP has chosen a mix of Public Participation and Involvement BMPs are a modification of existing programs or new BMPs created specifically for this Phase II program. The BMPs selected for Control Measure 2 include: continued participation by the Co-Permittees in the PIPE meetings throughout the permit period; creating opportunities for young adults to earn storm water related community service hours; the creation of a storm water badge program for boy scouts; the participation of the Co-Permittees and the public in watershed planning groups; and the creation and implementation of volunteer stream monitoring groups. These BMPs have been developed to focus on a specific target audience or audiences within the County. The target audiences include community leaders, adult residents, young adults, and students. The PIPE meetings will be continued on a regular interval throughout the permit period to discuss the implementation of these BMPs, the effectiveness of any BMPs already implemented, and any revisions to the BMPs that are necessary to increase their effectiveness.

## 5.0 Control Measure 3 - Illicit Discharge Detection and Elimination

Co-Permittees are required by the Ohio EPA permits to map the location of their MS4's outfalls and the location of the home sewage treatment systems (HSTS) that discharge to the system. This SWMP includes a program to map the storm sewer system in each MS4 and incorporate the storm sewer system on a layer on the Summit County GIS system.

The Summit County Engineer's Office (SCEO) and the Summit County Combined General Health Department (SCCGHD), in cooperation with each Co-Permittee, will coordinate the accumulation of data on each of the MS4 and the HSTS within each Co-Permittee area. The location and characteristics of each MS4 and each known or identified outfall will be obtained by each Co-Permittee. The consolidation of the data onto the County GIS system will be an effort shared among those Co-Permittees with GIS capabilities and expertise. Another benefit of a group storm water program.

Many of the Co-Permittees participating in this program have partially completed storm sewer system maps of their MS4. If a Co-Permittee does not have an existing storm sewer system map, then that Co-Permittee will begin the creation of a map of their MS4 by reviewing available storm drainage plans (e.g. construction drawings, subdivision plans, etc.) and possibly even the digitization of construction plans. In addition many of the Co-Permittees will complete field surveys of their MS4 to fully characterize the system. Co-Permittee field surveys will include streams, ditches, and other water courses to identify outfalls, pollutant sources, and the location of any illicit connections to the system. Field data sheets will be provided to the Co-Permittees to standardize the accumulation of the field survey data. It is anticipated that hand held GPS units may also be used to complete a portion of the field surveys associated with the creation of at least a portion of the storm sewer system maps.

The County GIS system will be used to generate the storm sewer system map and the HSTS map for the each of the Co-Permittee MS4 areas. The base layer of the maps will consist of digital orthophotography of Summit County flown in April, 2000. It is anticipated that the storm sewer system map and the HSTS map will include the following GIS layers: hydrologic features including the waters of the state; interstate highways, local roads and railroads; political boundaries of the cities, villages and/or townships; watershed boundaries; municipally-owned outfalls and privately-owned storm sewer outfalls (the definition of an "outfall" to be determined by Ohio EPA); HSTS discharge locations; storm drainage facilities (storm sewers, catch basins/inlets; road-side ditches, detention basins and storage facilities); and areas of known illicit discharges. Procedures will be developed to update and maintain the storm sewer system map and the HSTS map as data becomes available from each Co-Permittee throughout the permit period.

Co-Permittees will also develop and implement legislation that will establish a mechanism to control and eliminate illicit connections and discharges. This legislation

will also establish a mechanism to ensure that the future discharges from sanitary and storm facilities for new projects are adequately controlled and monitored. It is anticipated that legislation enacted would also provide each municipal with the authority and right to access property to conduct testing or field surveys as necessary to identify if these facilities have been properly constructed.

The SCCGHD will implement the BMPs that involve HSTSs under Control Measure 3. The SCCGHD has an existing database of known HSTSs located within Summit County. The SCCGHD will update this database utilizing the assistance and cooperation of the Co-Permittees as the BMPs are implemented during the permit period. Many of HSTS related BMPs are revisions to existing programs already in place and implemented by the SCCGHD. It is the goal of this BMP program to have the revised and field verified HSTS database completed by the end of the 5-year permit period. This revised and verified database will be used to generate the HSTS map required by the Ohio EPA permits.

The SCCGHD will coordinate the HSTS BMPs countywide. These BMPs will include activities such as: HSTS installation inspections, the registration of HSTS installers and liquid waste haulers, investigations of failing HSTS's, site evaluations for new HSTS systems, a mandatory pumping program for existing HSTSs, and the inspection of existing HSTSs for residential properties undergoing a deed transfer. All of the Co-Permittees in the program will be participating in the SCCGHD HSTS portion of Control Measure 3 unless a Co-Permittee area is entirely connected to public sewer and there is no future potential for the installation of HSTS's within the permit period (see Tables 2.0 through 16.0).

The SCCGHD will also implement an Operation and Maintenance program BMP on a countywide basis for semi-public onsite wastewater treatment facilities located in the Co-Permittee areas (see Table 1.4). These systems services properties of 4 units and larger and have a treatment capacity of 25,000 gallons per day. The BMP will include annual inspections of the systems, coordination and follow-up with the Ohio EPA on any problems the system might have, and construction inspection procedures for new or replacement systems.

The education of the public regarding illegal discharges and improper waste handling practices is identified under Control Measure 3 of the Ohio EPA Permits. This BMP appears in the tables for Control Measure 3 in this SWMP even though it will be implemented as a public education BMP under Control Measure 1. This BMP will be implemented by the SSWCD and evaluated at the regular PIPE meetings. Brochures will be created to address illegal dumping and waste disposal and stakeholder meetings will be held to educate local businesses about effective pollution prevention through the control of illegal discharges. Citizen participation and reporting will be encouraged to involve the public in the countywide anti-illegal dumping program.

Appendix C includes copies of records on hazardous materials incidents that have occurred in the county since the 1970's, and information on facilities with current

industrial NPDES permits in place within Summit County (obtained from the Ohio EPA and U.S. EPA websites).

## 6.0 Control Measure 4 - Construction Site Runoff Control

Under Control Measure 4, the Co-Permittee is required to develop, implement, and enforce a program to reduce pollutants in any storm water runoff from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of storm water discharges from construction activity disturbing less than one acre must be included in your program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more. It is the intent of Ohio EPA that MS4 operators include the conditions of the soon to be finalized Ohio EPA

“Authorization for Storm Water Discharges Associated with Construction Activity Under the National Pollutant Discharge Elimination System (Ohio EPA Permit No.: OH C000002) in the implementation of Control Measure 4. It is the intent of the Co-Permittees of this SWMP to review and incorporate the requirements of the Ohio EPA Construction Permit once the final permit is made available to the public.

Once the Final Ohio EPA Construction Permit is available the Co-permittees will develop ordinances or other regulatory mechanisms to require compatible erosion and sediment controls, as well as mechanisms or sanctions to ensure compliance with the legislation. The legislation will also include requirements for: construction site operators to implement appropriate erosion and sediment control BMPs; construction site operators to control waste at the construction site; procedures for site plan review; procedures for the receipt and consideration of information submitted by the public, and mechanisms for site inspection and enforcement of the inspections. The group permit approach embraced by this SWMP will allow Co-Permittees to share in the development of new ordinances that address construction site storm water runoff controls under Control Measure 4.

Developer workshops implemented as a BMP for Control Measure 1 will inform and educate developers regarding the new requirements of the Construction Permit once it is finalized. The County Stormwater Manual and Subdivision regulations already in place for Summit County will be reviewed and revised as necessary to be in conformance with the final Construction Permit language.

The SSWCD already provides site plan review services and construction site inspection services for erosion and sediment control measures and storm water pollution prevention plans for many of the Co-Permittees participating in this program. Agreements already in place between the Co-Permittees and the SSWCD have been modified or are in the process of being modified to include construction sites greater than one acre in size of disturbance. The SSWCD will therefore implement the site plan review and inspection procedures BMP on behalf of most of the Co-Permittees in this program (see Tables 2.0 through 16.0). A letter is provided in Appendix B that presents SSWCD commitment and ability to implement these BMPs on behalf of the Co-Permittees in this program.

The Control Measure 4 portion of the table for the Yellow Creek Watershed reflects the accelerated implementation schedule for the watershed as required by Ohio EPA Permit

No.: OHQ100000 for "Rapidly Developing Watersheds." The Yellow Creek Watershed BMPs for Control Measure 4 are to be completed within 3 years instead of 5 years as required by the baseline permit implemented in the other watersheds in Summit County.

## **7.0 Control Measure 5 - Post-Construction Site Runoff Control**

Control Measure 5 of the Ohio EPA permits address permanent post-construction site runoff controls for new development and redevelopment projects that disturb greater than or equal to one acre. Again this includes projects less than one acre in size that are part of a larger common plan of development or sale and that discharges into the MS4. The goal of Control Measure 5 is to prevent or minimize water quality impacts from construction sites through the implementation of a combination of structural and non-structural BMPs.

Structural post-construction controls will be incorporated into Summit County and local regulations and manuals. The Summit County Storm Water Manual and the Summit Subdivision Regulations will be revised to incorporate structural post-construction controls. The regulations and manuals will be revised to include the following potential structural controls: storage practices such as wet ponds and extended-detention outlet structures; filtration practices such as grassed swales, bioretention cells; and infiltration practices such as infiltration basins and infiltration trenches.

This program will establish and implement non-structural BMPs to address post-construction site runoff. Summit County adopted a Riparian Setback Ordinance (No. 2002-154) on May 29, 2002 (a copy of the ordinance is included in Appendix D). This ordinance establishes setbacks from streams and wetland areas depending upon the type and size of the stream or wetlands. Many of the Co-Permittees in addition to Summit County have already adopted this ordinance for their MS4 area while the remaining Co-Permittees will implement a similar ordinance within the permit period.

The Control Measure 5 portion of the table for the Yellow Creek Watershed reflects the accelerated implementation schedule for the watershed as required by Ohio EPA Permit No.: OHQ100000 for "Rapidly Developing Watersheds." The Yellow Creek Watershed BMPs for Control Measure 5 are to be completed within 3 years instead of 5 years as required by the baseline permit implemented in the other watersheds in Summit County.

## 8.0 Control Measure 6 - Pollution Prevention/Good Housekeeping

Control Measure 6 of the Ohio EPA Permits addresses pollution prevention and good housekeeping for municipal operations. Each Co-Permittee will be required to implement a program that includes personnel training and that has the ultimate goal of reducing or preventing the discharge of pollutants in storm water runoff from municipal operations. The BMPs in this section include: employee training to prevent and reduce storm water pollution from municipal operations; revising existing storm water plans or creating new storm water plans for municipal facilities; developing a maintenance program for municipal facilities and operations that describes how the proposed storm water controls will be maintained and inspected; development of waste control and disposal practices for municipal operations and facilities; and the incorporation of water quality controls in the design of flood control management projects.

Table 1.5 presents the municipal facilities located within each of the Co-Permittee area and the types of activities that take place at each facility. These facilities include park and open space maintenance facilities and operations, county and municipal fleet vehicle and equipment maintenance facilities, road department maintenance facilities and operations, salt storage areas, and storm water system maintenance operations.

The main focus of the BMPs for Control Measure 6 will be the preparation of a storm water plan or program for the facilities or specific operations within each Co-Permittee area. Municipal facilities and operations will be inspected or observed so that existing storm water control measures already in place can be observed and documented. Components of other plans already in place at the facilities such as spill response and prevention plans will be incorporated into the storm water plans or expended upon as necessary. This program will combine storm water controls into a single program or plan which can be used by the Co-Permittees to perform regular employee training and to document and record BMPs and control that are implemented at the facilities.

Storm water pollution control programs at vehicle maintenance facilities could include specific BMP as: enhanced fluid spill response and containment procedures; proper disposal of waste materials, alteration of practices involving the cleanup and storage of automotive fluids and cleaning of vehicle parts, and waste reduction and recycling.

Possible specific storm water controls to reduce discharges to storm drains from vehicle washing activities might include: washing vehicles on gravel, grass, or other permeable surfaces; blocking off the storm drain or using an insert to catch wash water; directing wash water from the wash area into a sanitary sewer drain; pumping wash water onto grass or landscaping to provide filtration; and using only biodegradable soaps.

The Co-Permittees need to adhere to the same construction site soil erosion and sediment controls required of private developments. Co-Permittees that are engaged in construction projects should develop soil erosion and sediment controls and assure that they are fully implemented.

Proper application of road salt also reduces storm water pollution. By routinely calibrating spreaders, a program manager can prevent over-application of deicing materials. In addition to reducing the effects of these materials on the aquatic environment, cost savings may be realized due to reductions in the purchase of deicing materials. Training for transportation employees in proper deicer application techniques, the timing of deicer application, and what type of deicer to apply will also determine the impacts on water quality and aquatic habitat.

Hazardous materials management will also be included in the storm water plan. The program will address such specific BMPs as: storing materials away from high-traffic areas; storing containers on pallets or equivalent structures; implementing inspections for leaks; and covering hazardous materials and the materials handling areas.

Material handling procedures and storage requirements will be evaluated to reduce spill potential and impacts on storm water quality. Possible BMPs to implemented at Co-Permittee facilities include: recycling, reclaiming, or reusing materials, installing leak detection devices, overflow controls, and diversion berms; disconnecting any drains that lead to the storm sewer, and performing preventative maintenance on storage tanks, valves, pumps, pipes, and other equipment.

The spill response plan should: identify individuals responsible for implementing the plan; define safety measures to be taken with each kind of waste; specify how to notify appropriate authorities, such as police and fire departments, hospitals, or publicly-owned treatment works for assistance; and describe procedures for containing, diverting, isolating, and cleaning up the spill.

Appendix C includes information on facilities with industrial NPDES permits in place within Summit County. The tables in Appendix C were downloaded from the Ohio EPA and US EPA websites and list the NPDES permits countywide. The location of these permits relative to the boundaries of a particular MS4 will be determined as each storm sewer system is field verified and delineated for the storm sewer system map generated as a BMP under Control Measure 3 of this program.

## Tables

**Table 1.0 - Co-Permittee Contact Information**  
Summit County Countywide Storm Water Management Program  
Ohio EPA NPDES Phase II Permits

	Co-Permittee	Contact	Telephone Number	Address	Email Address
1	Summit County	Jay Mosley	330-643-8375	538 E South St Akron, OH 44311	<a href="mailto:jmosley@engineer.co.summit.oh.us">jmosley@engineer.co.summit.oh.us</a>
2	Summit Metro Parks	Paul Wilkerson	330-865-8040 ext 210	975 Treaty Line Road Akron, OH 44313-5898	<a href="mailto:pwilkerson@summitmetroparks.org">pwilkerson@summitmetroparks.org</a>
3	Bath Township	Bill Snow	330-666-4007	3864 W. Bath Road, P.O. Box 1188, Bath, Ohio 44210-1188	<a href="mailto:wsnow@bathtownship.org">wsnow@bathtownship.org</a>
4	Boston Township	Tim Tesmer	330-657-2600	P.O. Box 123 Peninsula, OH 44264-0123	<a href="mailto:twp4721@juno.com">twp4721@juno.com</a>
5	Copley Township	Al James	330-666-1853	1340 S. Cleveland-Massilon Rd Copley, OH 44321-1998	<a href="mailto:ajames@copley.oh.us">ajames@copley.oh.us</a>
6	Coventry Township	Gene Cole	330-644-0785	68 Portage Lakes Drive. Akron, OH 44319	<a href="mailto:highway@coventrytownship.com">highway@coventrytownship.com</a>
7	Franklin Township	Mark Kochheiser	330-882-4611	5611 Manchester Road Akron, OH 44319-4200	<a href="mailto:franklintownship@hotmail.com">franklintownship@hotmail.com</a>
8	Northfield Center Township	Mark Pepera	330-467-7627	9546 Brandywine Road  Northfield Center, OH 44087	<a href="mailto:peperatrustee@worldnet.att.net">peperatrustee@worldnet.att.net</a>
9	Richfield Township	Laurie Pinney	330-659-2605	3905 Broadview Road Richfield, OH 44286	<a href="mailto:rtzoning@alltel.net">rtzoning@alltel.net</a>
10	Sagamore Hills Township	Bill Cuprak	330-467-0900	11551 Valley View Road  Sagamore Hills, OH 44067	
11	Springfield Township	Susan Poda	330-794-0134	2465 Canfield Road,  Akron, OH 44312	<a href="mailto:zoner@neo.rr.com">zoner@neo.rr.com</a>
12	Twinsburg Township	Robert Gaines	216-701-3364	9833 Ravenna Road  Twinsburg, OH 44087	<a href="mailto:rgaines@twinsburgtwp.com">rgaines@twinsburgtwp.com</a>
13	Village of Boston Heights	Steve Schreiber	216-518-5544	45 E. Boston Mills  Boston Heights, OH 44087	<a href="mailto:schreiber@acla.net">schreiber@acla.net</a>
14	Village of Clinton	Tom Mayberry	330-882-4782	2749 North St. Clinton, OH 44216	<a href="mailto:mayberrymayor@aol.com">mayberrymayor@aol.com</a>
15	City of Green	Chrissy Lamb	330-886-6614	5303 Massilon Road P.O. Box 278 Green, OH 44232	<a href="mailto:chrissy@cityofgreen.org">chrissy@cityofgreen.org</a>
16	Village of Lakemore	Bill Bookman	330-733-6125	1400 Main Street Lakemore, OH 44250	<a href="mailto:villageadmin@lakemore.oh.us">villageadmin@lakemore.oh.us</a>
17	City of Macedonia	Fred Tufts	330-468-8367	9691 Valley view Road Macedonia, OH 44056	<a href="mailto:ftufts@macedonia.oh.us">ftufts@macedonia.oh.us</a>

**Table 1.0 - Co-Permittee Contact Information**  
Summit County Countywide Storm Water Management Program  
Ohio EPA NPDES Phase II Permits

	Co-Permittee	Contact	Telephone Number	Address	Email Address
18	Village of Mogadore	Gene Hill	330-628-4896	3601 Glenwood Blvd Mogadore, OH 44260	<a href="mailto:ghill@apdco.com">ghill@apdco.com</a>
19	City of Munroe Falls	Don Booker	330-688-7491	43 Munroe Falls Ave. Munroe Falls, OH 44262	<a href="mailto:zoning@munroefalls.com">zoning@munroefalls.com</a>
20	Village of New Franklin	Mark Kochheiser	330-882-4611	5611 Manchester Road  Akron, OH 44319-4200	<a href="mailto:franklintownship@hotmail.com">franklintownship@hotmail.com</a>
21	Village of Northfield	Rich Wasosky	216-749-1555	10455 Northfield Rd Northfield, OH 44067	<a href="mailto:rswasosky@euthenics-inc.com">rswasosky@euthenics-inc.com</a>
22	Village of Reminderville	Pat McCarthy	330-562-1234	3601 Glenwood Blvd  Reminderville, OH 44202	<a href="mailto:ptmack@yahoo.com">ptmack@yahoo.com</a>
23	Village of Richfield	Roger Swan	330-434-1995	4410 W. Streetsboro Rd Richfield, OH 44286	<a href="mailto:rswan@richfieldvillageohio.org">rswan@richfieldvillageohio.org</a>
24	Village of Silver Lake	Richard Fenwick	330-923-5233	2961 Kent Road  Silver Lake, OH 44224	<a href="mailto:richardfenwick@villageofsilverlake.com">richardfenwick@villageofsilverlake.com</a>
25	City of Stow	Brad Kosco	330-689-2719	3800 Darrow Road Stow, OH 44224	<a href="mailto:bkosco@stow.oh.us">bkosco@stow.oh.us</a>
26	City of Tallmadge	Bob O'Bryan	330-633-0854	46 North Ave Tallmadge, OH 44278	<a href="mailto:robryan@tallmadge-ohio.org">robryan@tallmadge-ohio.org</a>
27	City of Twinsburg	Amy Mohr	330-425-7161	10075 Ravenna Road Twinsburg, OH 44087	<a href="mailto:amohr@twinsburg.oh.us">amohr@twinsburg.oh.us</a>

**Table 1.1 - Co-Permittee Population and Area Summary**  
Summit County Countywide Storm Water Management Plan  
Ohio EPA NPDES Phase II Permits

Co-Permittee	2000 Census Population	Total Area (square miles)	2000 Census Urbanized Area (square miles)	Percent Urbanized
All of Summit County	542,899	419.3	277.9	66%
Metro Parks	NA	42.1	NA	NA
Bath Township	9,635	22.0	11.5	52%
Boston Township	1,664	15.3	0.4	3%
Copley Township	13,641	20.8	16.6	80%
Coventry Township	10,900	8.9	8.9	100%
Franklin Township	14,530	24.3	10.2	42%
Northfield Center Township	4,931	5.3	4.2	79%
Richfield Township	5,424	16.6	0.3	2%
Sagamore Hills Township	9,340	11.3	5.0	44%
Springfield Township	15,168	14.5	14.5	100%
Twinsburg Township	2,153	6.2	0.5	9%
Village of Boston Heights	1,186	7.0	2.0	28%
Village of Clinton	1,337	3.7	0.9	26%
City of Green	22,817	33.5	23.1	69%
Village of Lakemore	2,561	1.7	1.7	100%
City of Macedonia	9,224	9.7	8.2	84%
Village of Mogadore	3,893	1.6	1.6	100%
City of Munroe Falls	5,314	2.8	2.8	97%
Village of New Franklin	2,191	2.3	2.3	100%
Village of Northfield	3,827	1.1	1.1	100%
Village of Reminderville	2,347	2.2	1.3	57%
Village of Richfield	3,286	8.9	1.9	21%
Village of Silver Lake	3,019	1.6	1.6	100%
City of Stow	32,139	17.3	13.2	76%
City of Tallmadge	16,390	13.6	11.5	85%
City of Twinsburg	17,006	13.8	8.2	59%

**Table 1.2 - Co-Permittees Located Within Each Watershed**  
Summit County Countywide Storm Water Management Plan  
Ohio EPA NPDES Phase II Permits

Watershed	Co-Permittees Within Watershed
Cuyahoga River	Summit County Village of Boston Heights Bath Township Boston Township Richfield Township Village of Richfield Northfield Center Township City of Macedonia Village of Northfield Sagamore Hills Township
Brandywine Creek	Summit County Village of Boston Heights Boston Township Northfield Center Township City of Macedonia Village of Northfield Twinsburg Township
Tinkers Creek	Summit County Twinsburg Township Village of Reminderville City of Macedonia City of Twinsburg Village of Northfield
Mud Brook	Summit County Village of Silver Lake City of Stow Village of Boston Heights Boston Township
Fish Creek	Summit County City of Tallmadge Village of Silver Lake City of Munroe Falls City of Stow
Furnace Run	Summit County Bath Township Boston Township Richfield Township Village of Richfield
Yellow Creek	Summit County Copley Township Bath Township Richfield Township Village of Richfield
Schocalog Run	Summit County Copley Township Bath Township
Little Cuyahoga River	Summit County

**Table 1.2 - Co-Permittees Located Within Each Watershed**  
 Summit County Countywide Storm Water Management Plan  
 Ohio EPA NPDES Phase II Permits

Watershed	Co-Permittees Within Watershed
	Springfield Township Village of Lakemore Village of Mogadore City of Tallmadge
Pigeon Creek	Summit County Copley Township
Wolf Creek	Summit County Copley Township
Hudson Run	Summit County Copley Township
Tuscarawas River	Summit County Coventry Township Springfield Township Village of Lakemore Franklin Township City of Green Village of New Franklin Village of Clinton
Nimisila Creek	Summit County City of Green Village of New Franklin Franklin Township Village of Clinton
Rocky River	Summit County Bath Township Richfield Township Village of Richfield

**Table 1.3 - Contact Information for Entities Providing Program Support**  
 Summit County Countywide Storm Water Management Plan  
 Ohio EPA NPDES Phase II Permits

Entity	Contact Name and Title	Telephone Number	Address	Email Address
Summit County Soil and Water Conservation District	Ms. Cindy Fink  ?	330-929-2871	2795 Front St., Suite D  Cuyahoga Falls, OH 44221	<a href="mailto:cfink@summitswcd.org">cfink@summitswcd.org</a>
Summit County Combined General Health District	Mr. Bob Hasenyager  Supervisor, Division of Environmental Health	330-926-5632	1100 Graham Road Circle  Stow, OH 44224-2992	<a href="mailto:bhasenyager@schd.org">bhasenyager@schd.org</a>

**Note:** See Tables 2.0 through 16.0 for BMP implementation responsibility

**Table 1.4 - Estimate of Dwellings Served by HSTs as of March 10, 2003**  
 Summit County Countywide Storm Water Management Plan  
 Ohio EPA NPDES Phase II Permits

Co-Permittee	Watershed(s)	Number of Semi Public Systems	Number of HSTs	Total Number On-Site Systems	Number of No Pump Records	% of No Pump Systems
Bath Township	Cuyahoga River, Furnace Run, Mud Brook, Rocky River, Schocalog Run, Yellow Creek	57	2956	3013	518	17
Boston Township	Brandywine Creek, Cuyahoga River, Furnace Run, Mud Brook	37	425	462	189	41
Copley Township	Hudson Run, Pigeon Creek, Schocalog Run, Wolf Creek, Yellow Creek	81	3453	3534	698	20
Coventry Township	Tuscarawas River	41	2880	2921	617	21
Franklin Township/New Franklin	Nimisila Creek, Tuscarawas River	79	6091	6170	1612	26
Northfield Center Township	Brandywine Creek, Cuyahoga River	1	263	264	84	32
Richfield Township	Cuyahoga River, Furnace Run, Rocky River, Yellow Creek	14	1066	1080	292	27
Sagamore Hills Township	Brandywine Creek, Cuyahoga River	6	1225	1231	167	14
Springfield Township	Little Cuyahoga River, Tuscarawas River	57	3815	3872	1098	28
Twinsburg Township	Brandywine Creek, Tinkers Creek	8	357	365	110	30
Village of Boston Heights	Brandywine Creek, Cuyahoga River, Mud Brook	15	327	342	122	36
Village of Clinton	Nimisila Creek, Tuscarawas River	11	548	559	159	28
City of Hudson	Brandywine Creek, Fish Creek, Mud Brook, Tinkers Creek	15	969	984	283	29
Village of Lakemore	Little Cuyahoga River, Tuscarawas River	1	4	5	1	20
City of Macedonia	Brandywine Creek, Cuyahoga River, Tinkers Creek	6	310	316	149	47
Village of Mogadore	Little Cuyahoga River	1	63	64	15	23
City of Munroe Falls	Fish Creek	1	30	31	6	19
Village of Northfield	Brandywine Creek, Cuyahoga River, Tinkers Creek	2	17	19	7	37
Village of Reminderville	Tinkers Creek	0	11	11	5	45
Village of Richfield	Cuyahoga River, Furnace Run, Rocky River, Yellow Creek	2	909	911	188	21
Village of Silver Lake	Fish Creek, Mud Brook	0	0	0	0	0
City of Stow	Fish Creek, Mud Brook	5	236	241	72	30
City of Tallmadge	Fish Creek, Little Cuyahoga River	0	31	31	7	23
City of Twinsburg	Brandywine Creek, Tinkers Creek	4	197	201	52	26
<b>Totals</b>		<b>563</b>	<b>33896</b>	<b>34459</b>	<b>8555</b>	<b>25</b>

**Note:** The numbers in this table will be verified and the SCCGHD database updated during the implementation of this program.

**Table 1.5 - Description of Municipal Facilities**  
Summit County Countywide Storm Water Management Plan  
Ohio EPA NPDES Phase II Permits

Co-Permittee	Facility Address	Type of Municipal Facility	Type of Activity
Summit County Engineer	601 E. Crosier St. Akron, Ohio 44311-1808	Road maintenance yard	salt storage, vehicle maintenance, vehicle washing, equipment storage and maintenance
Summit County Department of Environmental Services	1035 Sweitzer Ave. Akron, Ohio 44331		
Metro Parks	1828 Smith Road Akron, OH 44313	Park maintenance facility	covered vehicle storage, covered minor equipment maintenance, waste and materials storage, vehicle washing, above ground fuel tanks
	1475 Sand Run Parkway Akron, OH 44313	Park maintenance facility	salt storage, covered vehicle maintenance, oil recycling, covered vehicle storage, covered minor equipment maintenance, waste and materials storage, vehicle washing, above ground fuel tanks
	4570 Johnson Road Norton, OH 44203	Park maintenance facility	covered vehicle storage, covered minor equipment maintenance, waste and materials storage, vehicle washing, above ground fuel tanks
	3489 Brush Road Richfield Village, OH 44286	Park maintenance facility	covered vehicle storage, covered minor equipment maintenance, waste and materials storage, vehicle washing, above ground fuel tanks
	605 South River Road Munroe Falls, OH 44262	Park maintenance facility	covered vehicle storage, covered minor equipment maintenance, waste and materials storage, vehicle washing, above ground fuel tanks
	1070 Cuyahoga Street Akron, OH 44313	Park maintenance facility	covered vehicle storage, covered minor equipment maintenance, waste and materials storage, vehicle washing, above ground fuel tanks
	650 Darrow Road Akron, OH 44305	Park maintenance facility	covered vehicle storage, covered minor equipment maintenance, waste and materials storage, vehicle washing, above ground fuel tanks
364 Swartz Road Akron, OH 44319	Park maintenance facility	covered vehicle storage, covered minor equipment maintenance, waste and materials storage, vehicle washing, above ground fuel tanks	

**Table 1.5 - Description of Municipal Facilities**  
Summit County Countywide Storm Water Management Plan  
Ohio EPA NPDES Phase II Permits

Co-Permittee	Facility Address	Type of Municipal Facility	Type of Activity
Bath Township			
Boston Township			
Copley Township			
Coventry Township			
Franklin Township	6523 Hampsher Road Franklin, OH  5611 Manchester Road Franklin, OH  5605 Manchester Road Franklin, OH  3200 Rhapsody Lane Franklin, OH	Road Department garage  Administrative Offices Police Department  Fire Department  Fire Department	wash equipment, storage of fuel oils, storage of road salt, gravel and asphalt materials  vehicle storage  wash fire and police vehicles  vehicle storage
Northfield Center Township	9546 Brandywine Road Northfield Center Township, OH  8484 Olde Eight Road Northfield Center Township, OH  82 West Aurora Road (SR 82) Northfield Center Township, OH  60 West Aurora Road (SR 82) Northfield Center Township, OH	Town Hall/ Administrative  Road Department Garage and Service Yard  Road Department Garage and Storage Yard  Fire Department/Road Department Garage	vehicle storage, vehicle maintenance and repair, waste recycling,  vehicle storage, vehicle maintenance and repair, waste recycling,  vehicle storage, vehicle maintenance and repair, waste recycling,
Richfield Township	no facilities	NA	NA
Sagamore Hills Township			
Springfield Township	2459 Canfield Road Akron, OH 44312	municipal facility	police, fire, and road vehicle storage
Twinsburg Township			
City of Green	1844 Greensburg Road Green, OH		vehicle storage and equipment storage, vehicle maintenance, light equipment repair

**Table 1.5 - Description of Municipal Facilities**  
Summit County Countywide Storm Water Management Plan  
Ohio EPA NPDES Phase II Permits

Co-Permittee	Facility Address	Type of Municipal Facility	Type of Activity
	5383 Massillon Road Green, OH  4200 Massillon Road Green, OH  393 East Turkeyfoot Road Green, OH	fire station  fire station	
City of Macedonia			
City of Munroe Falls	300 South River Road Munroe Falls, OH 44262	municipal facility	salt storage, vehicle storage, vehicle and equipment maintenance
City of Stow	3880 Darrow Road Stow, OH 44224	municipal facility	salt storage, vehicle storage, vehicle and equipment maintenance
City of Tallmadge			
Village of Boston Heights			
Village of Clinton			
Village of Lakemore			
Village of Mogadore			
Village of New Franklin	see Franklin Township	see Franklin Township	see Franklin Township
Village of Northfield	68 Houghton Road Northfield, OH 44067  255 Chestnut Avenue Northfield, OH 44067	Service Department  Abandoned Wastewater Treatment Plant	equipment storage, salt storage, equipment maintenance, materials storage  vacuum truck and sewer jet for picking up leaves and cleaning sanitary sewers
Village of Reminderville	3601 Glenwood Blvd Reminderville, OH 44202	municipal facility	vehicle maintenance and light repairs, salt storage
Village of Richfield	4450 W. Streetsboro Road Richfield, OH 44286	municipal facility <i>Burke H. Parks, Clerk</i>	vehicle storage, equipment storage, light vehicle maintenance
Village of Silver Lake	2961 Kent Road Silver Lake, OH 44224	municipal facility	vehicle storage, service and maintenance of vehicles, equipment cleaning

**Table 3.0 - Cuyahoga River Watershed - BMPs for Control Measures 1-6**  
 Summit County Countywide Storm Water Management Program  
 Ohio EPA NPDES Phase II Permits

**Control Measure 1 - Public Education and Outreach**

ID	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description and Target Audience	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed												
						County			Townships				Cities and Villages					
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Boston	Northfield Center	Richfield	Sagamore Hills	Boston Heights	Macedonia	Northfield	Richfield
1	Teacher Workshops	3.2.1.2.1 3.2.1.2.5	Conduct workshops for primary and secondary school teachers on storm water issues. Target audience: teachers	One countywide teacher workshop each year	Number of attendees each year	1	*		1	1	1	1	1	1	1	1	1	1
2	Webpage	3.2.1.2.1 3.2.1.2.5	Create a webpage highlighting Summit County and community storm water efforts. Target audience: adult residents and young adults	Update and maintain webpage and links on a monthly basis	Number of webpage hits each year	1	*		N/A	1	1	1	1	1	1	1	1	1
3	Storm Water Brochures	3.2.1.2.1 3.2.1.2.2	Create a series of brochures that correspond with messages of the storm water education campaign. Target audience: adult residents and school-aged children (depending upon the focus of the brochure)	Create at least one brochure per year to be used countywide	Number of brochures distributed each year	1	*		1	1	1	1	1	1	1	1	1	1
4	Storm Water Workshops	3.2.1.2.1 3.2.1.2.5	Hold a series of workshops that correspond with the messages of the educational campaign. Target audiences: adult residents	Hold at least one countywide workshop per year	Number of attendees each year	1	*		1	1	1	1	1	1	1	1	1	1
5	Informal educator presence in schools. -	3.2.1.2.1 3.2.1.2.5	Provide schools with the opportunities to host storm water presentations or provide educational experiences for select groups of students. Distribute literature to schools. Target audience: primary and secondary students.	Literature distributed countywide to schools yearly.	Number of students reached each year	1	*		1	1	1	1	1	1	1	1	1	1
6	Developer Workshop	3.2.1.2.2 3.2.1.2.5 3.2.5.2.3.3	Host a developer and contractor workshop to educate about storm water related issues.	Host one workshop per year	Number of attendees each year	1	*		N/A	1	1	1	1	1	1	1	1	1
7	Display Board	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Create a series of displays that correspond to the messages of the storm water education campaign. Target audience: adult residents and young adults	Present display at least two times each year (one is a public event) in each Co-Permittee area	Where each display was presented and how many people attended each event	1	*		1	1	1	1	1	1	1	1	1	1
8	Newsletter Articles	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Create a series of newsletter articles to be included in local community newsletters. Target audience: adult residents and young adults	Include articles in up to four local newsletter mailings per year	Number of mailings and number of people who receive the article each year	1	*		1	1	1	1	1	1	1	1	1	1
9	Education Library	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Host an environmental education library for use as a primary education source and as a source for environmental educators. Target audience: adult residents and young adults	Advertise library materials yearly and update a link to the Summit County webpage as necessary	Inventory record and number of people visiting the library or checking out materials	1	*		1	1	1	1	1	1	1	1	1	1

**Table 3.0 - Cuyahoga River Watershed - BMPs for Control Measures 1-6**  
**Summit County Countywide Storm Water Management Program**  
**Ohio EPA NPDES Phase II Permits**

**Control Measure 1 - Public Education and Outreach**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description and Target Audience	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed												
						County			Townships				Cities and Villages					
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Boston	Northfield Center	Richfield	Sagamore Hills	Boston Heights	Macedonia	Northfield	Richfield
10	Response Packets of Information	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Create an educational response to specific storm water related scenarios (i.e. - septic system failures, or the failure of developers to provide adequate storm water BMPs). Target audience: adult residents and young adults	One countywide response packet yearly	Number of packets distributed each year	1	*		1	1	1	1	1	1	1	1	1	1
11	Attitude Survey	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Gather data on the change of attitude that occurs throughout the storm water education campaign.	Yearly on a countywide basis before each annual report submittal	Data collected and analyzed	1	*		1	1	1	1	1	1	1	1	1	1
12	Pollution Prevention For Businesses	3.2.1.2.2	Educate local businesses on pollution prevention measures. Distribute brochures, host a pollution prevention stakeholder meeting with a speaker who will inspire businesses to develop storm water plans, and present certificate or other awards for model pollution prevention plans. Target audience: businesses	One countywide stakeholder meeting yearly. One countywide brochure yearly. Present certificates as appropriate.	Number of attendees and brochures distributed each year	1	*		NA	1	1	1	1	1	1	1	1	1
13	Household Sewage Videos	3.2.1.2.1 3.2.1.2.5	Educational literature and videos regarding operation and maintenance of household sewage treatment systems (HSTS) are available to HSTS users.	Available continuously at Summit County Environmental Health Dept.	Number of videos distributed each year	2	*		NA	2	2	2	2	2	2	2	2	2
14	Household Sewage Literature and Videos for new System Installations	3.2.1.2.1 3.2.1.2.5	Literature and a video offer is mailed out to owners following the installation of new and replacement HSTSs	Countywide each year	Number of brochures and videos distributed each year	2	*		NA	2	2	2	2	2	2	2	2	2
15	Mailings for Household Sewage Pumping Program	3.2.1.2.1 3.2.1.2.5	As part of the mandatory septic tank pumping program the Health District mails reminders to system users to have tanks pumped every three years	First year and each year thereafter	Number of mailings each year	2	*		NA	2	2	2	2	2	2	2	2	2
16	Community Group HSTS Presentations	3.2.1.2.2 3.2.1.2.5	Presentations to community groups regarding the care and maintenance of HSTS	First year and each year thereafter	Number of presentations each year	2	*		NA	2	2	2	2	2	2	2	2	2
17	Health District Presentations - HSTS Operation and Maintenance Program	3.2.1.2.2 3.2.1.2.5	Presentations of the Health Districts intent to develop a comprehensive HSTS operation and maintenance program to community officials and citizens, soliciting response.	First year and each year thereafter	Number of presentations each year	2	*		NA	2	2	2	2	2	2	2	2	2

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**Table 3.0 - Cuyahoga River Watershed - BMPs for Control Measures 1-6**  
**Summit County Countywide Storm Water Management Program**  
**Ohio EPA NPDES Phase II Permits**

**Control Measure 2 - Public Involvement & Participation**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description and Target Audience	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed												
						County			Townships				Cities and Villages					
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Boston	Northfield Center	Richfield	Sagamore Hills	Boston Heights	Macedonia	Northfield	Richfield
1	Public Involvement Public Education Committee	3.2.2.2.2	Participate in a committee that will allow Co-Permittees to coordinate efforts to reduce pollution of storm water through public education and involvement. Target audience: community leaders	Monthly committee meetings	Meeting records and attendee lists for each year	1	*		1	1	1	1	1	1	1	1	1	1
2	Community Service Hours	3.2.2.2.2 3.2.2.2.4.4	Host opportunities for young adults to fulfill community service hours through a storm water related activity (stream clean-up, storm drain stenciling, etc). 5 hours minimum per event. Target audience: young adults	Two events per year throughout the county	Number of attendees each year	1	*		1	1	1	1	1	1	1	1	1	1
3	Storm Water Badge	3.2.2.2.2 3.2.2.2.4.3	Create a storm water badge to encourage the exploration of storm water issues by scout troops. Create and publish guidelines for earning the badge. Target audience: young adults	Inform countywide scout leaders each year	Types of projects completed and number of badges awarded each year	1	*		1	1	1	1	1	1	1	1	1	1
4	Watershed Planning Groups	3.2.2.2.4.1 3.2.2.2.4.3	Host or participate in watershed planning groups or committees with other Co-Permittees, stakeholders, and the public to address storm water quality issues.	Participate in on-going watershed planning meetings beginning in the first year and continuing each year thereafter.	Membership or attendance records	X			X	X	X	X	X	X	X	X	X	X
5	Stream Monitoring Group	3.2.2.2.2 3.2.2.2.4.4	Create a group trained in stream monitoring techniques. Meet on a regular basis throughout the year. Hold a stream monitoring workshop. Provide stream monitoring equipment. Collect and process data. Target audience: all residents	One countywide workshop in the first year (and subsequent years based upon public participation & interest). Collect data in each year thereafter.	Number of group participants each year. Summarize monitoring activities and data yearly.	1	*		X	1	1	1	1	1	1	1	1	1
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Table 3.0 - Cuyahoga River Watershed - BMPs for Control Measures 1-6  
Summit County Countywide Storm Water Management Program  
Ohio EPA NPDES Phase II Permits

Control Measure 3 - Illicit Discharge Detection and Elimination

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed															
						County		Townships					Cities and Villages								
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Boston	Northfield Center	Richfield	Sagamore Hills	Boston Heights	Macedonia	Northfield	Richfield			
1	Storm Sewer Map	3.2.3.1.2	Create storm sewer map using the Summit County GIS system, Co-Permittee GIS systems, and Co-permittee data that shows the location of outfalls and the names and locations of receiving surface waters of the state	Create layer first year. Refine map each year thereafter based upon Co-Permittee field screening and other activities	Countywide storm sewer map reflects results of Co-Permittee field assessment activities by the end of the fifth year	X			X	X	X	X	X	X	X	X	X	X	X	X	X
2	Illicit Discharge Control Legislation	3.2.3.1.3 3.2.3.2.4.3	Develop legislation and enforcement mechanisms to control and eliminate illicit discharges. In areas with ordinances in place, the legislation and enforcement mechanisms will continue to be implemented and refined as necessary.	Begin legislation development and implementation during first year	Legislation and enforcement mechanisms in place for each Co-Permittee area by the end of the fifth year	X			X	X	X	X	X	X	X	X	X	X	X	X	X
3	Field Screening to Detect Illicit Discharges	3.2.3.1.4 3.2.3.2.4.2	Implement field screening of non-storm water discharges. Possible methods include: video inspection, visual inspections, smoke testing, dye testing, etc.	Initiate field program during first year and continue program each year thereafter	Results incorporated onto GIS storm sewer layer each year	X			X	X	X	X	X	X	X	X	X	X	X	X	X
4	Update SCCGHD HSTS Database	3.2.3.1.2.1.1	Update SCCGHD database of HSTSs based upon inspections and field screenings.	Initiate program during first year and continue program each year thereafter	Database completed and matches HSTS GIS layer by the end of fifth year	2		*	N	2	2	2	2	2	2	2	2	2	2	2	2
5	HSTS Map	3.2.3.1.2.1.2	Develop and revise a HSTS layer on the Summit County GIS system that shows HSTSs connected to the MS4	Initiate program during first year and continue program each year thereafter	HSTS layer on the HSTS GIS layer complete by the end of the fifth year	X		*	N	2	2	2	2	2	2	2	2	2	2	2	2
6	HSTS Installation Inspections	3.2.3.2.5	Conduct inspections of new HSTS when installed	Initiate program during first year and continue program each year thereafter	All new HSTSs inspected each year	2		*	N	2	2	2	2	2	2	2	2	2	2	2	2
7	HSTS Installer/Hauler Registration Program	3.2.3.1.4	Registration at SCCGHD of sewage system installers and liquid waste haulers	Initiate program during first year and continue program each year thereafter	All sewage systems installers and liquid waste haulers registered each year.	2		*	N	2	2	2	2	2	2	2	2	2	2	2	2
8	Mandatory HSTS Pumping Program	3.2.3.1.4	Mandatory septic tank pumping program includes: reporting by liquid waste haulers and maintenance of these records including pumping dates, volumes pumped, and treatment or land application locations. Records maintained in SCCGHD database.	Initiate program during first year and continue program each year thereafter	Number of septic tanks pumped each year as presented in program.	2		*	N	2	2	2	2	2	2	2	2	2	2	2	2
9	New Lot HSTS Evaluations	3.2.3.1.4	Site evaluations for new lots being developed for the utilization of an HSTS	Initiate program during first year and continue program each year thereafter	Number of new lots inspected each year	2		*	N	2	2	2	2	2	2	2	2	2	2	2	2

**Table 3.0 - Cuyahoga River Watershed - BMPs for Control Measures 1-6**  
 Summit County Countywide Storm Water Management Program  
 Ohio EPA NPDES Phase II Permits

**Control Measure 3 - Illicit Discharge Detection and Elimination**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed															
						County			Townships				Cities and Villages								
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10	Failing HSTS Investigations	3.2.3.2.5 3.2.3.2.4.1	Investigation and follow-up of nuisance complaints regarding possible failing HSTSs	Initiate program during first year and continue program each year thereafter	Number and results of nuisance complaints summarized each year	2	*		NA	2	4	2	4	2	4	2	4	2	2	2	2
11	Deed Transfer HSTS Inspection Service	3.2.3.2.5	Inspection of existing HSTSs for residential properties undergoing deed transfer	Initiate program during first year and continue program each year thereafter	Number of existing HSTSs inspected under the deed transfer process.	2		*	NA	2	4	2	4	2	4	2	4	2	2	2	2
12	Semi-public Onsite Wastewater Treatment Systems Operation and Maintenance (O & M) Program	3.2.3.1.4	O & M program for semi-public onsite ww treatment systems (4 unit and greater properties with generation < 25,000 gpd.) Program includes: annual inspection of systems; once every three year inspections of non-discharging systems; coord. with Ohio EPA on follow up on problem systems; and construction inspection of new or replacement semipublic wastewater treatment systems.	Initiate program during first year and continue program each year thereafter	Results of O&M program summarized and presented each year	2		*	2	2	4	2	4	2	4	2	4	2	2	2	2
13	Educate Businesses on Illegal Discharges and Waste Disposal	3.2.3.1.5	Educate local businesses on the hazards of illegal discharges and improper waste disposal. Distribute brochures, host a pollution prevention stakeholder meetings to develop storm water plans, and present certificate or other awards for model pollution prevention plans. Target audience: businesses	One countywide stakeholder meeting yearly. One countywide brochure yearly. Present certificates as appropriate.	Number of attendees and brochures distributed each year	1	*		NA	1	1	1	1	1	1	1	1	1	1	1	1

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**Table 3.0 - Cuyahoga River Watershed - BMPs for Control Measures 1-6**  
 Summit County Countywide Storm Water Management Program  
 Ohio EPA NPDES Phase II Permits

**Control Measure 4 - Construction Site Storm Water Runoff Control**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed														
						County			Townships				Cities and Villages							
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Boston	Northfield Center	Richfield	Sagamore Hills	Boston Heights	Macedonia	Northfield	Richfield		
1	Erosion and Sediment Control Legislation	3.2.4.1.1 3.2.4.1.2 3.2.4.1.3	Establish or revise erosion and sediment control legislation for sites greater than one acre in size. Incorporate the requirements of the Ohio EPA Construction Permit including erosion and sediment control BMPs and waste materials management.	Review existing legislation in the first year. Implement new and revised programs each year thereafter	Legislation in place in each Co-Permittee area by the end of the fifth year.	X			X	X	X	X	X	X	X	X	X	X	X	X
2	Enforcement Mechanism for the Erosion and Sediment Control Legislation	3.2.4.1.1 3.2.4.1.6	Create an enforcement mechanism for the erosion and sediment control ordinance or other local legislation. Establish site inspection enforcement measures for construction sites greater than 1 acre.	First year and each year thereafter until the fifth year	Enforcement mechanisms in place in each Co-Permittee area by the end of the fifth year	X			X	X	X	X	X	X	X	X	X	X	X	X
3	Site Plan Review Procedures	3.2.4.1.4	Modify County Stormwater Manual, Subdivision Regulations, and local manuals to include erosion and sediment control and water quality control requirements in the site plan review process	Revise existing manuals and programs in the first year. Implement new and revised manuals and programs each year thereafter	Site plan review process in place in each Co-Permittee area by the end of the fifth year	X	*		NA	1	1	1	1	1	X	X	X	X	X	X
4	Receipt and Consideration of Information submitted by the public	3.2.4.1.5	Establish procedures during for public comment on projects and programs within each Co-Permittee area. Forums for public comments will include public hearings, meetings, or council or trustee meetings.	Procedures to receive and responds to public comments will be implemented in the first year and continued in each year thereafter.	Public comment and response program in place by the fifth year	X			X	X	X	X	X	X	X	X	X	X	X	X
4	Site Inspection Measures	3.2.4.1.6	Establish inspection measures for construction sites greater than 1 acre	Review existing programs in the first year. Implement new and revised programs each year thereafter	Inspection program in place in each Co-Permittee area by the end of the fifth year	X	*		X	1	1	1	1	1	X	X	X	X	X	X

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**Summit County Countywide Storm Water Management Program**  
**Ohio EPA NPDES Phase II Permits**

**Control Measure 5 - Post-Construction Storm Water Management in New Development and Redevelopment**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed												
						County				Townships				Cities and Villages				
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Boston	Northfield Center	Richfield	Sagamore Hills	Boston Heights	Macedonia	Northfield	Richfield
1	Structural Post-Construction Storm Water Controls	3.2.5.1.2 3.2.5.1.3 3.2.5.2.3.1 3.2.5.2.4	Revise County Stormwater Manual, County subdivision regulations, and local manuals to incorporate structural post-construction water quality controls. Establish or revise local legislation or programs to include post-construction storm water controls in new development and redevelopment projects. Potential controls include: wet ponds, extended-detention outlet structures, grassed swales, bioretention cells, and infiltration basins.	Revise County Manual and regulations in first year. Local legislation and program revised and implemented in subsequent years.	Programs in place in each Co-Permittee area by the end of the fifth year.	X			X	X <sub>4</sub>	X <sub>4</sub>	X <sub>4</sub>	X <sub>4</sub>	X <sub>4</sub>	X	X	X	X
2	BMP Operation and Maintenance	3.2.5.1.4	Establish countywide and local programs to ensure the operation and maintenance of water quality BMPs installed in new and redevelopment projects	Revise county and local programs and legislation in the first year. Implement programs in successive years.	Programs in place in each Co-Permittee area by the end of the fifth year.	X			X	X <sub>4</sub>	X <sub>4</sub>	X <sub>4</sub>	X <sub>4</sub>	X <sub>4</sub>	X	X	X	X
2	Sensitive Area Protection Legislation	3.2.5.1.3 3.2.5.2.3.1	Establish sensitive area protection legislation to protect sensitive areas such as wetlands and riparian zones and open space. Implement Summit County Riparian Ordinance or create local legislation as necessary.	Revise existing legislation in the first year. Implement new and revised ordinances or programs each year thereafter	County Riparian Ordinance or local legislation in place in each Co-Permittee area by the end of the fifth year.	X			X	X <sub>4</sub>	X <sub>4</sub>	X <sub>4</sub>	X <sub>4</sub>	X <sub>4</sub>	X	X	X	X

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**Summit County Countywide Storm Water Management Program**  
**Ohio EPA NPDES Phase II Permits**

**Control Measure 6 - Pollution Prevention/Good Housekeeping for Municipal Operations**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed														
						County			Townships				Cities and Villages							
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Boston	Northfield Center	Richfield	Sagamore Hills	Boston Heights	Macedonia	Northfield	Richfield		
1	Storm Water Pollution Control Training Program	3.2.6.1.1 3.2.6.1.2	Revise or develop a program that includes training for storm water pollution control for municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing training programs in the first year. Implement new and revised programs each year thereafter	Revised or new training programs in place for municipal operations affecting storm water by the fifth year	X			X	X	X	X	X	X	X	X	X	X	X	X
2	Controls to Reduce or Eliminate Pollutants	3.2.6.2.3.2	Revise existing plans or develop new storm water pollution control programs to reduce or eliminate pollutants from municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing programs in the first year. Implement new and revised programs each year thereafter	Programs in place for municipal operations affecting storm water by the fifth year	X			X	X	X	X	X	X	X	X	X	X	X	X
3	Maintenance Program for Storm Water Controls	3.2.6.2.3.1	Develop a program that describes maintenance activities and schedules; and long-term inspection activities for the storm water controls and program elements for municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing practices and programs in the first year. Implement new and revised programs each year thereafter	Maintenance and inspection programs in place for municipal operations affecting storm water by the fifth year	X			X	X	X	X	X	X	X	X	X	X	X	X
4	Waste Disposal Procedures	3.2.6.2.3.3	Review existing waste disposal practices and develop new programs for proper waste disposal during for municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing practices and programs in the first year. Implement new and revised programs each year thereafter	New or revised waste disposal programs in place for municipal operations affecting storm water by the fifth year	X			X	X	X	X	X	X	X	X	X	X	X	X
5	Water Quality Controls for Flood Management Projects	3.2.6.2.3.4	Develop a program to incorporate water quality controls in new flood management projects. Evaluate feasibility of additional water quality controls on existing flood management projects. Revise County Stormwater manual as appropriate.	Revise existing practices and programs in the first year. Implement new and revised programs each year thereafter	Program in place for municipal operations affecting storm water by the fifth year	X			NA	3	3	3	3	NA	NA	NA	NA	NA	NA	NA

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**Table 5.0 - Furnace Run Watershed - BMPs for Control Measures 1-6**  
**Summit County Countywide Storm Water Management Program**  
**Ohio EPA NPDES Phase II Permits**

**Control Measure 1 - Public Education and Outreach**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description and Target Audience	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed								
						County				Townships				
						SC	SSWGD	SCCGHD	Metro Parks	Bath	Boston	Richfield	Richfield	
1	Teacher Workshops	3.2.1.2.1 3.2.1.2.5	Conduct workshops for primary and secondary school teachers on storm water issues. Target audience: teachers	One countywide teacher workshop each year	Number of attendees each year	1	*		1	1	1	1	1	1
2	Webpage	3.2.1.2.1 3.2.1.2.5	Create a webpage highlighting Summit County and community storm water efforts. Target audience: adult residents and young adults	Update and maintain webpage and links on a monthly basis	Number of webpage hits each year	1	*		N/A	1	1	1	1	1
3	Storm Water Brochures	3.2.1.2.1 3.2.1.2.2	Create a series of brochures that correspond with messages of the storm water education campaign. Target audience: adult residents and school-aged children (depending upon the focus of the brochure)	Create at least one brochure per year to be used countywide	Number of brochures distributed each year	1	*		1	1	1	1	1	1
4	Storm Water Workshops	3.2.1.2.1 3.2.1.2.5	Hold a series of workshops that correspond with the messages of the educational campaign. Target audiences: adult residents	Hold at least one countywide workshop per year	Number of attendees each year	1	*		1	1	1	1	1	1
5	Informal educator presence in schools.	3.2.1.2.1 3.2.1.2.5	Provide schools with the opportunities to host storm water presentations or provide educational experiences for select groups of students. Distribute literature to schools. Target audience: primary and secondary students.	Literature distributed countywide to schools yearly.	Number of students reached each year	1	*		1	1	1	1	1	1
6	Developer Workshop	3.2.1.2.2 3.2.1.2.5 3.2.5.2.3.3	Host a developer and contractor workshop to educate about storm water related issues.	Host one workshop per year	Number of attendees each year	1	*		N/A	1	1	1	1	1
7	Display Board	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Create a series of displays that correspond to the messages of the storm water education campaign. Target audience: adult residents and young adults	Present display at least two times each year (one is a public event) in each Co-Permittee area	Where each display was presented and how many people attended each event	1	*		1	1	1	1	1	1
8	Newsletter Articles	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Create a series of newsletter articles to be included in local community newsletters. Target audience: adult residents and young adults	Include articles in up to four local newsletter mailings per year	Number of mailings and number of people who receive the articles each	1	*		1	1	1	1	1	1
9	Education Library	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Host an environmental education library for use as a primary education source and as a source for environmental educators. Target audience: adult residents and young adults	Advertise library materials yearly and update a link to the Summit County webpage as necessary	Inventory record and number of people visiting the library or checking out materials	1	*		1	1	1	1	1	1
10	Response Packets of Information	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Create an educational response to specific storm water related scenarios (i.e. - septic system failures, or the failure of developers to provide adequate storm water BMPs). Target audience: adult residents and young adults	One countywide response packet yearly	Number of packets distributed each year	1	*		1	1	1	1	1	1
11	Attitude Survey	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Gather data on the change of attitude that occurs throughout the storm water education campaign.	Yearly on a countywide basis before each annual report submittal	Data collected and analyzed	1	*		1	1	1	1	1	1

**Table 5.0 - Furnace Run Watershed - BMPs for Control Measures 1-6**  
 Summit County Countywide Storm Water Management Program  
 Ohio EPA NPDES Phase II Permits

**Control Measure 1 - Public Education and Outreach**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description and Target Audience	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed							
						County				Townships			
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Boston	Richfield	Richfield
12	Pollution Prevention For Businesses	3.2.1.2.2	Educate local businesses on pollution prevention measures. Distribute brochures, host a pollution prevention stakeholder meeting with a speaker who will inspire businesses to develop storm water plans, and present certificate or other awards for model pollution prevention plans. Target audience: businesses	One countywide stakeholder meeting yearly. One countywide brochure yearly. Present certificates as appropriate.	Number of attendees and brochures distributed each year	1	*		NA	1	1	1	1
13	Household Sewage Videos	3.2.1.2.1 3.2.1.2.5	Educational literature and videos regarding operation and maintenance of household sewage treatment systems (HSTS) are available to HSTS users. Target audience: HSTS users.	Available continuously at Summit County Environmental Health Dept.	Number of videos distributed each year	2		*	NA	2	2	2	2
14	Household Sewage Literature and Videos for new System Installations	3.2.1.2.1 3.2.1.2.5	Literature and a video offer is mailed out to owners following the installation of new and replacement HSTSs. Target audience: HSTS users.	Countywide each year	Number of brochures and videos distributed each year	2		*	NA	2	2	2	2
15	Mailings for Household Sewage Pumping Program	3.2.1.2.1 3.2.1.2.5	As part of the mandatory septic tank pumping program the Health District mails reminders to system users to have tanks pumped every three years. Target audience: HSTS users.	First year and each year thereafter	Number of mailings each year	2		*	NA	2	2	2	2
16	Community Group HSTS Presentations	3.2.1.2.2 3.2.1.2.5	Presentations to community groups regarding the care and maintenance of HSTS. Target audience: HSTS users.	First year and each year thereafter	Number of presentations each year	2		*	NA	2	2	2	2
17	Health District Presentations - HSTS Operation and Maintenance Program	3.2.1.2.2 3.2.1.2.5	Presentations of the Health Districts intent to develop a comprehensive HSTS operation and maintenance program to community officials and citizens, soliciting response. Target audience: community officials and citizens	First year and each year thereafter	Number of presentations each year	2		*	NA	2	2	2	2

**Notes:** SC - Summit County Engineer's Office and Executive's Office  
 SSWCD - Summit Soil and Water Conservation District  
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 Metro Parks - Summit County Metro Parks  
 NA - not applicable in this portion of the watershed

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Table 5.0 - Furnace Run Watershed - BMPs for Control Measures 1-6  
Summit County Countywide Storm Water Management Program  
Ohio EPA NPDES Phase II Permits

Control Measure 2 - Public Involvement & Participation														
	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description and Target Audience	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for implementation of the BMP within the Watershed								
						County			Townships					
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Boston	Richfield	Richfield	
1	Public Involvement Public Education Committee	3.2.2.2.2	Participate in a committee that will allow Co-Permittees to coordinate efforts to reduce pollution of storm water through public education and involvement. Target audience: community leaders	Monthly committee meetings	Meeting records and attendee lists for each year	1	*		1	1	1	1	1	1
2	Community Service Hours	3.2.2.2.2 3.2.2.2.4.4	Host opportunities for young adults to fulfill community service hours through a storm water related activity (stream clean-up, storm drain stenciling, etc). 5 hours minimum per event. Target audience: young adults	Two events per year throughout the county	Number of attendees each year	1	*		1	1	1	1	1	1
3	Storm Water Badge	3.2.2.2.2 3.2.2.2.4.3	Create a storm water badge to encourage the exploration of storm water issues by scout troops. Create and publish guidelines for earning the badge. Target audience: young adults	Inform countywide scout leaders each year	Types of projects completed and number of badges awarded each year	1	*		1	1	1	1	1	1
4	Watershed Planning Groups	3.2.2.2.4.1 3.2.2.2.4.3	Host or participate in watershed planning groups or committees with other Co-Permittees, stakeholders, and the public to address storm water quality issues. Target audience: watershed stakeholders	Participate in on-going watershed planning meetings beginning in the first year and continuing each year thereafter.	Membership or attendance records	X		X	X	X	X	X	X	X
5	Stream Monitoring Group	3.2.2.2.2 3.2.2.2.4.4	Create a group trained in stream monitoring techniques. Meet on a regular basis throughout the year. Hold a stream monitoring workshop. Provide stream monitoring equipment. Collect and process data. Target audience: all residents	One countywide workshop in the first year (and subsequent years based upon public participation & interest). Collect data in each year thereafter.	Number of group participants each year. Summarize monitoring activities and data yearly.	1	*	X	1	1	1	1	1	1
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**Table 5.0 - Furnace Run Watershed - BMPs for Control Measures 1-6**  
 Summit County Countywide Storm Water Management Program  
 Ohio EPA NPDES Phase II Permits

**Control Measure 3 - Illicit Discharge Detection and Elimination**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed						
						County			Townships			
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Boston	Richfield
1	Storm Sewer Map	3.2.3.1.2	Create storm sewer map using the Summit County GIS system, Co-Permittee GIS systems, and Co-permittee data that shows the location of outfalls and the names and locations of receiving surface waters of the state	Create layer first year. Refine map each year thereafter based upon Co-Permittee field screening and other activities	Countywide storm sewer map reflects results of Co-Permittee field assessment activities by the end of the fifth year	X		X	X, 4	X, 4	X, 4	X
2	Illicit Discharge Control Legislation	3.2.3.1.3 3.2.3.2.4.3	Develop legislation and enforcement mechanisms to control and eliminate illicit discharges. In areas with ordinances in place, the legislation and enforcement mechanisms will continue to be implemented and refined as necessary.	Begin legislation development and implementation during first year	Legislation and enforcement mechanisms in place for each Co-Permittee area by the end of the fifth year	X		X	X, 4	X, 4	X, 4	X
3	Field Screening to Detect Illicit Discharges	3.2.3.1.4 3.2.3.2.4.2	Implement field screening of non-storm water discharges. Possible methods include: video inspection, visual inspections, smoke testing, dye testing, etc.	Initiate field program during first year and continue program each year thereafter	Results incorporated onto GIS storm sewer layer each year	X		X	X, 4	X, 4	X, 4	X
4	Update SCCGHD HSTS Database	3.2.3.1.2.1.1	Update SCCGHD database of HSTSs based upon inspections and field screenings.	Initiate program during first year and continue program each year thereafter	Database completed and matches HSTS GIS layer by the end of fifth year	2	*	N A	2, 4	2, 4	2, 4	2
5	HSTS Map	3.2.3.1.2.1.2	Develop and revise a HSTS layer on the Summit County GIS system that shows HSTSs connected to the MS4	Initiate program during first year and continue program each year thereafter	HSTS layer on the HSTS GIS layer complete by the end of the fifth year	X	*	N A	2, 4	2, 4	2, 4	2
6	HSTS Installation Inspections	3.2.3.2.5	Conduct inspections of new HSTS when installed	Initiate program during first year and continue program each year thereafter	All new HSTSs inspected each year	2	*	N A	2, 4	2, 4	2, 4	2
7	HSTS Installer/Hauler Registration Program	3.2.3.1.4	Registration at SCCGHD of sewage system installers and liquid waste haulers	Initiate program during first year and continue program each year thereafter	All sewage systems installers and liquid waste haulers registered each year.	2	*	N A	2, 4	2, 4	2, 4	2
8	Mandatory HSTS Pumping Program	3.2.3.1.4	Mandatory septic tank pumping program includes: reporting by liquid waste haulers and maintenance of these records including pumping dates, volumes pumped, and treatment or land application locations. Records maintained in SCCGHD database.	Initiate program during first year and continue program each year thereafter	Number of septic tanks pumped each year as presented in program.	2	*	N A	2, 4	2, 4	2, 4	2
9	New Lot HSTS Evaluations	3.2.3.1.4	Site evaluations for new lots being developed for the utilization of an HSTS	Initiate program during first year and continue program each year thereafter	Number of new lots inspected each year	2	*	N A	2, 4	2, 4	2, 4	2

**Table 5.0 - Furnace Run Watershed - BMPs for Control Measures 1-6**  
 Summit County Countywide Storm Water Management Program  
 Ohio EPA NPDES Phase II Permits

**Control Measure 3 - Illicit Discharge Detection and Elimination**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed						
						County			Townships			
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Boston	Richfield
10	Failing HSTS Investigations	3.2.3.2.5 3.2.3.2.4.1	Investigation and follow-up of nuisance complaints regarding possible failing HSTSs	Initiate program during first year and continue program each year thereafter	Number and results of nuisance complaints summarized each year	2	*	NA	2, 4	2, 4	2, 4	2
11	Deed Transfer HSTS Inspection Service	3.2.3.2.5	Inspection of existing HSTSs for residential properties undergoing deed transfer	Initiate program during first year and continue program each year thereafter	Number of existing HSTSs inspected under the deed transfer process.	2	*	NA	2, 4	2, 4	2, 4	2
12	Semi-public Onsite Wastewater Treatment Systems Operation and Maintenance (O & M) Program	3.2.3.1.4	O & M program for semi-public onsite ww treatment systems (4 unit and greater properties with generation < 25,000 gpd.) Program includes: annual inspection of systems; once every three year inspections of non-discharging systems; coord. with Ohio EPA on follow up on problem systems; and construction inspection of new or replacement semipublic wastewater treatment systems.	Initiate program during first year and continue program each year thereafter	Results of O&M program summarized and presented each year	2	*	2	2, 4	2, 4	2, 4	2
13	Educate Businesses on Illegal Discharges and Waste Disposal	3.2.3.1.5	Educate local businesses on the hazards of illegal discharges and improper waste disposal. Distribute brochures, host a pollution prevention stakeholder meetings to develop storm water plans, and present certificate or other awards for model pollution prevention plans. Target audience: businesses	One countywide stakeholder meeting yearly. One countywide brochure yearly. Present certificates as appropriate.	Number of attendees and brochures distributed each year	1	*	NA	1	1	1	1
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**Table 5.0 - Furnace Run Watershed - BMPs for Control Measures 1-6**  
**Summit County Countywide Storm Water Management Program**  
**Ohio EPA NPDES Phase II Permits**

**Control Measure 4 - Construction Site Storm Water Runoff Control**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed							
						County				Townships			
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Boston	Richfield	Richfield
1	Erosion and Sediment Control Legislation	3.2.4.1.1 3.2.4.1.2 3.2.4.1.3	Establish or revise erosion and sediment control legislation for sites greater than one acre in size. Incorporate the requirements of the Ohio EPA Construction Permit including erosion and sediment control BMPs and waste materials management.	Review existing legislation in the first year. Implement new and revised programs each year thereafter	Legislation in place in each Co-Permittee area by the end of the fifth year.	X			X	X, 4	X, 4	X, 4	X
2	Enforcement Mechanism for the Erosion and Sediment Control Legislation	3.2.4.1.1 3.2.4.1.6	Create an enforcement mechanism for the erosion and sediment control ordinance or other local legislation. Establish site inspection enforcement measures for construction sites greater than 1 acre.	First year and each year thereafter until the fifth year	Enforcement mechanisms in place in each Co-Permittee area by the end of the fifth year	X			X	X, 4	X, 4	X, 4	X
3	Site Plan Review Procedures	3.2.4.1.4	Modify County Stormwater Manual, Subdivision Regulations, and local manuals to include erosion and sediment control and water quality control requirements in the site plan review process	Revise existing manuals and programs in the first year. Implement new and revised manuals and programs each year thereafter	Site plan review process in place in each Co-Permittee area by the end of the fifth year	X	*		NA	1	1	1	X
4	Receipt and Consideration of Information submitted by the public	3.2.4.1.5	Establish procedures during for public comment on projects and programs within each Co-Permittee area. Forums for public comments will include public hearings, meetings, or council or trustee meetings.	Procedures to receive and responds to public comments will be implemented in the first year and continued in each year thereafter.	Public comment and response program in place by the fifth year	X			X	X	X	X	X
4	Site Inspection Measures	3.2.4.1.6	Establish inspection measures for construction sites greater than 1 acre	Review existing programs in the first year. Implement new and revised programs each year thereafter	Inspection program in place in each Co-Permittee area by the end of the fifth year	X	*		X	1	1	1	X
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**Summit County Countywide Storm Water Management Program**  
**Ohio EPA NPDES Phase II Permits**

**Control Measure 5 - Post-Construction Storm Water Management In New Development and Redevelopment**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed							
						County				Townships			
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Boston	Richfield	Richfield
1	Structural Post-Construction Storm Water Controls	3.2.5.1.2 3.2.5.1.3 3.2.5.2.3.1 3.2.5.2.4	Revise County Stormwater Manual, County subdivision regulations, and local manuals to incorporate structural post-construction water quality controls. Establish or revise local legislation or programs to include post-construction storm water controls in new development and redevelopment projects. Potential controls include: wet ponds, extended-detention outlet structures, grassed swales, bioretention cells, and infiltration basins.	Revise County Manual and regulations in first year. Local legislation and program revised and implemented in subsequent years.	Programs in place in each Co-Permittee area by the end of the fifth year.	X		X	X, 4	X, 4	X, 4	X	
2	BMP Operation and Maintenance	3.2.5.1.4	Establish countywide and local programs to ensure the operation and maintenance of water quality BMPs installed in new and redevelopment projects	Revise county and local programs and legislation in the first year. Implement programs in successive years.	Programs in place in each Co-Permittee area by the end of the fifth year.	X		X	X, 4	X, 4	X, 4	X	
2	Sensitive Area Protection Legislation	3.2.5.1.3 3.2.5.2.3.1	Establish sensitive area protection legislation to protect sensitive areas such as wetlands and riparian zones and open space. Implement Summit County Riparian Ordinance or create local legislation as necessary.	Revise existing legislation in the first year. Implement new and revised ordinances or programs each year thereafter	County Riparian Ordinance or local legislation in place in each Co-Permittee area by the end of the fifth year.	X		X	X, 4	X, 4	X, 4	X	

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Table 5.0 - Furnace Run Watershed - BMPs for Control Measures 1-6  
Summit County Countywide Storm Water Management Program  
Ohio EPA NPDES Phase II Permits

Control Measure 6 - Pollution Prevention/Good Housekeeping for Municipal Operations

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed							
						County			Townships				
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Boston	Richfield	Richfield
1	Storm Water Pollution Control Training Program	3.2.6.1.1 3.2.6.1.2	Revise or develop a program that includes training for storm water pollution control for municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing training programs in the first year. Implement new and revised programs each year thereafter	Revised or new training programs in place for municipal operations affecting storm water by the fifth year	X			X	X	X	X	X
2	Controls to Reduce or Eliminate Pollutants	3.2.6.2.3.2	Revise existing plans or develop new storm water pollution control programs to reduce or eliminate pollutants from municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing programs in the first year. Implement new and revised programs each year thereafter	Programs in place for municipal operations affecting storm water by the fifth year	X			X	X	X	X	X
3	Maintenance Program for Storm Water Controls	3.2.6.2.3.1	Develop a program that describes maintenance activities and schedules; and long-term inspection activities for the storm water controls and program elements for municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing practices and programs in the first year. Implement new and revised programs each year thereafter	Maintenance and inspection programs in place for municipal operations affecting storm water by the fifth year	X			X	X	X	X	X
4	Waste Disposal Procedures	3.2.6.2.3.3	Review existing waste disposal practices and develop new programs for proper waste disposal during for municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing practices and programs in the first year. Implement new and revised programs each year thereafter	New or revised waste disposal programs in place for municipal operations affecting storm water by the fifth year	X			X	X	X	X	X
5	Water Quality Controls for Flood Management Projects	3.2.6.2.3.4	Develop a program to incorporate water quality controls in new flood management projects. Evaluate feasibility of additional water quality controls on existing flood management projects. Revise County Stormwater manual as appropriate.	Revise existing practices and programs in the first year. Implement new and revised programs each year thereafter	Program in place for municipal operations affecting storm water by the fifth year	X			NA	3	3	3	NA

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Summit County Countywide Storm Water Management Program  
Ohio EPA NPDES Phase II Permits

Control Measure 1 - Public Education and Outreach

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description and Target Audience	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed						
						County						
						SC	SSWCD	SCCGHD	Metro Parks	Bath Twp	Richfield Twp	Richfield
1	Teacher Workshops	3.2.1.2.1 3.2.1.2.5	Conduct workshops for primary and secondary school teachers on storm water issues. Target audience: teachers	One countywide teacher workshop each year	Number of attendees each year	1	*		1	1	1	1
2	Webpage	3.2.1.2.1 3.2.1.2.5	Create a webpage highlighting Summit County and community storm water efforts. Target audience: adult residents and young adults	Update and maintain webpage and links on a monthly basis	Number of webpage hits each year	1	*		N A	1	1	1
3	Storm Water Brochures	3.2.1.2.1 3.2.1.2.2	Create a series of brochures that correspond with messages of the storm water education campaign. Target audience: adult residents and school-aged children (depending upon the focus of the brochure)	Create at least one brochure per year to be used countywide	Number of brochures distributed each year	1	*		1	1	1	1
4	Storm Water Workshops	3.2.1.2.1 3.2.1.2.5	Hold a series of workshops that correspond with the messages of the educational campaign. Target audiences: adult residents	Hold at least one countywide workshop per year	Number of attendees each year	1	*		1	1	1	1
5	Informal educator presence in schools.	3.2.1.2.1 3.2.1.2.5	Provide schools with the opportunities to host storm water presentations or provide educational experiences for select groups of students. Distribute literature to schools. Target audience: primary and secondary students.	Literature distributed countywide to schools yearly.	Number of students reached each year	1	*		1	1	1	1
6	Developer Workshop	3.2.1.2.2 3.2.1.2.5 3.2.5.2.3.3	Host a developer and contractor workshop to educate about storm water related issues.	Host one workshop per year	Number of attendees each year	1	*		N A	1	1	1
7	Display Board	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Create a series of displays that correspond to the messages of the storm water education campaign. Target audience: adult residents and young adults	Present display at least two times each year (one is a public event) in each Co-Permittee area	Where each display was presented and how many people attended each event	1	*		1	1	1	1
8	Newsletter Articles	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Create a series of newsletter articles to be included in local community newsletters. Target audience: adult residents and young adults	Include articles in up to four local newsletter mailings per year	Number of mailings and number of people who receive the articles each	1	*		1	1	1	1
9	Education Library	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Host an environmental education library for use as a primary education source and as a source for environmental educators. Target audience: adult residents and young adults	Advertise library materials yearly and update a link to the Summit County webpage as necessary	Inventory record and number of people visiting the library or checking out materials	1	*		1	1	1	1
10	Response Packets of Information	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Create an educational response to specific storm water related scenarios (i.e. - septic system failures, or the failure of developers to provide adequate storm-water BMPs). Target audience: adult residents and young adults	One countywide response packet yearly	Number of packets distributed each year	1	*		1	1	1	1

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**Control Measure 1 - Public Education and Outreach**

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11	Attitude Survey	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Gather data on the change of attitude that occurs throughout the storm water education campaign.	Yearly on a countywide basis before each annual report submittal	Data collected and analyzed	1	*		1	1	1	1
12	Pollution Prevention For Businesses	3.2.1.2.2	Educate local businesses on pollution prevention measures. Distribute brochures, host a pollution prevention stakeholder meeting with a speaker who will inspire businesses to develop storm water plans, and present certificate or other awards for model pollution prevention plans. Target audience: businesses	One countywide stakeholder meeting yearly. One countywide brochure yearly. Present certificates as appropriate.	Number of attendees and brochures distributed each year	1	*		N A	1	1	1
13	Household Sewage Videos	3.2.1.2.1 3.2.1.2.5	Educational literature and videos regarding operation and maintenance of household sewage treatment systems (HSTS) are available to HSTS users. Target audience: HSTS users.	Available continuously at Summit County Environmental Health Dept.	Number of videos distributed each year	2		*	N A	2	2	2
14	Household Sewage Literature and Videos for new System Installations	3.2.1.2.1 3.2.1.2.5	Literature and a video offer is mailed out to owners following the installation of new and replacement HSTSs. Target audience: HSTS users.	Countywide each year	Number of brochures and videos distributed each year	2		*	N A	2	2	2
15	Mailings for Household Sewage Pumping Program	3.2.1.2.1 3.2.1.2.5	As part of the mandatory septic tank pumping program the Health District mails reminders to system users to have tanks pumped every three years. Target audience: HSTS users.	First year and each year thereafter	Number of mailings each year	2		*	N A	2	2	2
16	Community Group HSTS Presentations	3.2.1.2.2 3.2.1.2.5	Presentations to community groups regarding the care and maintenance of HSTS. Target audience: HSTS users.	First year and each year thereafter	Number of presentations each year	2		*	N A	2	2	2
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 Ohio EPA NPDES Phase II Permits

**Control Measure 2 - Public Involvement & Participation**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description and Target Audience	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed						
						County						
						SC	SSWCD	SCCGHD	Metro Parks	Bath Twp	Richfield Twp	Richfield
1	Public Involvement Public Education Committee	3.2.2.2.2	Participate in a committee that will allow Co-Permittees to coordinate efforts to reduce pollution of storm water through public education and involvement. Target audience: community leaders	Monthly committee meetings	Meeting records and attendee lists for each year	1	*		1	1	1	1
2	Community Service Hours	3.2.2.2.2 3.2.2.2.4.4	Host opportunities for young adults to fulfill community service hours through a storm water related activity (stream clean-up, storm drain stenciling, etc). 5 hours minimum per event. Target audience: young adults	Two events per year throughout the county	Number of attendees each year	1	*		1	1	1	1
3	Storm Water Badge	3.2.2.2.2 3.2.2.2.4.3	Create a storm water badge to encourage the exploration of storm water issues by scout troops. Create and publish guidelines for earning the badge. Target audience: young adults	Inform countywide scout leaders each year	Types of projects completed and number of badges awarded each year	1	*		1	1	1	1
4	Watershed Planning Groups	3.2.2.2.4.1 3.2.2.2.4.3	Host or participate in watershed planning groups or committees with other Co-Permittees, stakeholders, and the public to address storm water quality issues. Target audience: watershed stakeholders	Participate in on-going watershed planning meetings beginning in the first year and continuing each year thereafter.	Membership or attendance records	X		X	X	X	X	X
5	Stream Monitoring Group	3.2.2.2.2 3.2.2.2.4.4	Create a group trained in stream monitoring techniques. Meet on a regular basis throughout the year. Hold a stream monitoring workshop. Provide stream monitoring equipment. Collect and process data. Target audience: all residents	One countywide workshop in the first year (and subsequent years based upon public participation & interest). Collect data in each year thereafter.	Number of group participants each year. Summarize monitoring activities and data yearly.	1	*	X		1	1	1
<b>Notes:</b> SC - Summit County Engineer's Office and Executive's Office SSWCD - Summit Soil and Water Conservation District SCCGHD - Summit County Combined General Health District Metro Parks - Summit County Metro Parks NA - not applicable in this portion of the watershed						* - Entity responsible to implement BMP X - Co-Permittee responsible to implement BMP 1 - BMP to be implemented for the Co-Permittee area by the SSWCD 2 - BMP to be implemented for the Co-Permittee area by the SCCGHD 3 - BMP to be implemented for the Co-Permittee area by SC						

**Table 11.0 - Rocky River Watershed - BMPs for Control Measures 1-6**  
Summit County Countywide Storm Water Management Program  
Ohio EPA NPDES Phase II Permits

**Control Measure 3 - Illicit Discharge Detection and Elimination**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed						
						County						
						SC	SSWCD	SCCGHD	Metro Parks	Bath Twp	Richfield Twp	Richfield
1	Storm Sewer Map	3.2.3.1.2	Create storm sewer map using the Summit County GIS system, Co-Permittee GIS systems, and Co-permittee data that shows the location of outfalls and the names and locations of receiving surface waters of the state	Create layer first year. Refine map each year thereafter based upon Co-Permittee field screening and other activities	Countywide storm sewer map reflects results of Co-Permittee field assessment activities by the end of the fifth year	X		X	X, 4	X, 4	X	
2	Illicit Discharge Control Legislation	3.2.3.1.3 3.2.3.2.4.3	Develop legislation and enforcement mechanisms to control and eliminate illicit discharges. In areas with ordinances in place, the legislation and enforcement mechanisms will continue to be implemented and refined as necessary.	Begin legislation development and implementation during first year	Legislation and enforcement mechanisms in place for each Co-Permittee area by the end of the fifth year	X		X	X, 4	X, 4	X	
3	Field Screening to Detect Illicit Discharges	3.2.3.1.4 3.2.3.2.4.2	Implement field screening of non-storm water discharges. Possible methods include: video inspection, visual inspections, smoke testing, dye testing, etc.	Initiate field program during first year and continue program each year thereafter	Results incorporated onto GIS storm sewer layer each year	X		X	X, 4	X, 4	X	
4	Update SCCGHD HSTS Database	3.2.3.1.2.1.1	Update SCCGHD database of HSTSs based upon inspections and field screenings.	Initiate program during first year and continue program each year thereafter	Database completed and matches HSTS GIS layer by the end of fifth year	2	*	N A	2, 4	2, 4	2	
5	HSTS Map	3.2.3.1.2.1.2	Develop and revise a HSTS layer on the Summit County GIS system that shows HSTSs connected to the MS4	Initiate program during first year and continue program each year thereafter	HSTS layer on the HSTS GIS layer complete by the end of the fifth year	X	*	N A	2, 4	2, 4	2	
6	HSTS Installation Inspections	3.2.3.2.5	Conduct inspections of new HSTS when installed	Initiate program during first year and continue program each year thereafter	All new HSTSs inspected each year	2	*	N A	2, 4	2, 4	2	
7	HSTS Installer/Hauler Registration Program	3.2.3.1.4	Registration at SCCGHD of sewage system installers and liquid waste haulers	Initiate program during first year and continue program each year thereafter	All sewage systems installers and liquid waste haulers registered each year.	2	*	N A	2, 4	2, 4	2	
8	Mandatory HSTS Pumping Program	3.2.3.1.4	Mandatory septic tank pumping program includes: reporting by liquid waste haulers and maintenance of these records including pumping dates, volumes pumped, and treatment or land application locations. Records maintained in SCCGHD database.	Initiate program during first year and continue program each year thereafter	Number of septic tanks pumped each year as presented in program.	2	*	N A	2, 4	2, 4	2	
9	New Lot HSTS Evaluations	3.2.3.1.4	Site evaluations for new lots being developed for the utilization of an HSTS	Initiate program during first year and continue program each year thereafter	Number of new lots inspected each year	2	*	N A	2, 4	2, 4	2	

Table 11.0 - Rocky River Watershed - BMPs for Control Measures 1-6  
Summit County Countywide Storm Water Management Program  
Ohio EPA NPDES Phase II Permits

Control Measure 3 - Illicit Discharge Detection and Elimination

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed						
						County						
						SC	SSWCD	SCCGHD	Metro Parks	Bath Twp	Richfield Twp	Richfield
10	Failing HSTS Investigations	3.2.3.2.5 3.2.3.2.4.1	Investigation and follow-up of nuisance complaints regarding possible failing HSTSs	Initiate program during first year and continue program each year thereafter	Number and results of nuisance complaints summarized each year	2	*	N	A	2, 4	2, 4	2
11	Deed Transfer HSTS Inspection Service	3.2.3.2.5	Inspection of existing HSTSs for residential properties undergoing deed transfer	Initiate program during first year and continue program each year thereafter	Number of existing HSTSs inspected under the deed transfer process.	2	*	N	A	2, 4	2, 4	2
12	Semi-public Onsite Wastewater Treatment Systems Operation and Maintenance (O & M) Program	3.2.3.1.4	O & M program for semi-public onsite ww treatment systems (4 unit and greater properties with generation < 25,000 gpd.) Program includes: annual inspection of systems; once every three year inspections of non-discharging systems; coord. with Ohio EPA on follow up on problem systems; and construction inspection of new or replacement semipublic wastewater treatment systems.	Initiate program during first year and continue program each year thereafter	Results of O&M program summarized and presented each year	2	*	2		2, 4	2, 4	2
13	Educate Businesses on Illegal Discharges and Waste Disposal	3.2.3.1.5	Educate local businesses on the hazards of illegal discharges and improper waste disposal. Distribute brochures, host a pollution prevention stakeholder meetings to develop storm water plans, and present certificate or other awards for model pollution prevention plans. Target audience: businesses	One countywide stakeholder meeting yearly. One countywide brochure yearly. Present certificates as appropriate.	Number of attendees and brochures distributed each year	1	*	N	A	1	1	1
Notes: SC - Summit County Engineer's Office and Executive's Office SSWCD - Summit Soil and Water Conservation District SCCGHD - Summit County Combined General Health District Metro Parks - Summit County Metro Parks NA - not applicable in this portion of the watershed						* - Entity responsible to implement BMP X - Co-Permittee responsible to implement BMP 1 - BMP to be implemented for the Co-Permittee area by the SSWCD 2 - BMP to be implemented for the Co-Permittee area by the SCCGHD 3 - BMP to be implemented for the Co-Permittee area by SC 4 - State legislation allowing township allocation of funds required to implement BMP						

**Table 11.0 - Rocky River Watershed - BMPs for Control Measures 1-6**  
 Summit County Countywide Storm Water Management Program  
 Ohio EPA NPDES Phase II Permits

**Control Measure 4 - Construction Site Storm Water Runoff Control**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed						
						County						
						SC	SSWCD	SCCGHD	Metro Parks	Bath Twp	Richfield Twp	Richfield
1	Erosion and Sediment Control Legislation	3.2.4.1.1 3.2.4.1.2 3.2.4.1.3	Establish or revise erosion and sediment control legislation for sites greater than one acre in size. Incorporate the requirements of the Ohio EPA Construction Permit including erosion and sediment control BMPs and waste materials management.	Review existing legislation in the first year. Implement new and revised programs each year thereafter	Legislation in place in each Co-Permittee area by the end of the fifth year.	X		X		X, 4	X, 4	X
2	Enforcement Mechanism for the Erosion and Sediment Control Legislation	3.2.4.1.1 3.2.4.1.6	Create an enforcement mechanism for the erosion and sediment control ordinance or other local legislation. Establish site inspection enforcement measures for construction sites greater than 1 acre.	First year and each year thereafter until the fifth year	Enforcement mechanisms in place in each Co-Permittee area by the end of the fifth year	X		X		X, 4	X, 4	X
3	Site Plan Review Procedures	3.2.4.1.4	Modify County Stormwater Manual, Subdivision Regulations, and local manuals to include erosion and sediment control and water quality control requirements in the site plan review process	Revise existing manuals and programs in the first year. Implement new and revised manuals and programs each year thereafter	Site plan review process in place in each Co-Permittee area by the end of the fifth year	X	*	NA		1	1	X
4	Receipt and Consideration of Information submitted by the public	3.2.4.1.5	Establish procedures during for public comment on projects and programs within each Co-Permittee area. Forums for public comments will include public hearings, meetings, or council or trustee meetings.	Procedures to receive and responds to public comments will be implemented in the first year and continued in each year thereafter.	Public comment and response program in place by the fifth year	X		X		X	X	X
4	Site Inspection Measures	3.2.4.1.6	Establish inspection measures for construction sites greater than 1 acre	Review existing programs in the first year. Implement new and revised programs each year thereafter	Inspection program in place in each Co-Permittee area by the end of the fifth year	X	*	X		1	1	X

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 SCCGHD - Summit County Combined General Health District  
 Metro Parks - Summit County Metro Parks  
 NA - not applicable in this portion of the watershed

\* - Entity responsible to implement BMP  
 X - Co-Permittee responsible to implement BMP  
 1 - BMP to be implemented for the Co-Permittee area by the SSWCD  
 2 - BMP to be implemented for the Co-Permittee area by the SCCGHD  
 3 - BMP to be implemented for the Co-Permittee area by SC  
 4 - State legislation allowing township allocation of funds required to implement BMP

**Table 11.0 - Rocky River Watershed - BMPs for Control Measures 1-6**  
**Summit County Countywide Storm Water Management Program**  
**Ohio EPA NPDES Phase II Permits**

**Control Measure 6 - Pollution Prevention/Good Housekeeping for Municipal Operations**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed							
						County							
						SC	SSWCD	SCCGHD	Metro Parks	Bath Twp	Richfield Twp	Richfield	
1	Storm Water Pollution Control Training Program	3.2.6.1.1 3.2.6.1.2	Revise or develop a program that includes training for storm water pollution control for municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing training programs in the first year. Implement new and revised programs each year thereafter	Revised or new training programs in place for municipal operations affecting storm water by the fifth year	X		X		X	X	X	
2	Controls to Reduce or Eliminate Pollutants	3.2.6.2.3.2	Revise existing plans or develop new storm water pollution control programs to reduce or eliminate pollutants from municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing programs in the first year. Implement new and revised programs each year thereafter	Programs in place for municipal operations affecting storm water by the fifth year	X		X		X	X	X	
3	Maintenance Program for Storm Water Controls	3.2.6.2.3.1	Develop a program that describes maintenance activities and schedules; and long-term inspection activities for the storm water controls and program elements for municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing practices and programs in the first year. Implement new and revised programs each year thereafter	Maintenance and inspection programs in place for municipal operations affecting storm water by the fifth year	X		X		X	X	X	
4	Waste Disposal Procedures	3.2.6.2.3.3	Review existing waste disposal practices and develop new programs for proper waste disposal during for municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing practices and programs in the first year. Implement new and revised programs each year thereafter	New or revised waste disposal programs in place for municipal operations affecting storm water by the fifth year	X		X		X	X	X	
5	Water Quality Controls for Flood Management Projects	3.2.6.2.3.4	Develop a program to incorporate water quality controls in new flood management projects. Evaluate feasibility of additional water quality controls on existing flood management projects. Revise County Stormwater manual as appropriate.	Revise existing practices and programs in the first year. Implement new and revised programs each year thereafter	Program in place for municipal operations affecting storm water by the fifth year	X		NA		3	3	NA	
<b>Notes:</b> SC - Summit County Engineer's Office and Executive's Office SSWCD - Summit Soil and Water Conservation District SCCGHD - Summit County Combined General Health District Metro Parks - Summit County Metro Parks NA - not applicable in this portion of the watershed						* - Entity responsible to implement BMP X - Co-Permittee responsible to implement BMP 1 - BMP to be implemented for the Co-Permittee area by the SSWCD 2 - BMP to be implemented for the Co-Permittee area by the SCCGHD 3 - BMP to be implemented for the Co-Permittee area by SC 4 - State legislation allowing township allocation of funds required to implement BMP							

**Table 16.0 - Yellow Creek Watershed - BMPs for Control Measures 1-6**  
 Summit County Countywide Storm Water Management Program  
 Ohio EPA NPDES Phase II Permits

"Rapidly Developing Watershed"

**Control Measure 1 - Public Education and Outreach**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description and Target Audience	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed								
						County			Townships					
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Copley	Richfield	Richfield	
1	Teacher Workshops	3.2.1.2.1 3.2.1.2.5	Conduct workshops for primary and secondary school teachers on storm water issues. Target audience: teachers	One countywide teacher workshop each year	Number of attendees each year	1	*		1	1	1	1	1	1
2	Webpage	3.2.1.2.1 3.2.1.2.5	Create a webpage highlighting Summit County and community storm water efforts. Target audience: adult residents and young adults	Update and maintain webpage and links on a monthly basis	Number of webpage hits each year	1	*		N	1	1	1	1	1
3	Storm Water Brochures	3.2.1.2.1 3.2.1.2.2	Create a series of brochures that correspond with messages of the storm water education campaign. Target audience: adult residents and school-aged children (depending upon the focus of the brochure)	Create at least one brochure per year to be used countywide	Number of brochures distributed each year	1	*		1	1	1	1	1	1
4	Storm Water Workshops	3.2.1.2.1 3.2.1.2.5	Hold a series of workshops that correspond with the messages of the educational campaign. Target audiences: adult residents	Hold at least one countywide workshop per year	Number of attendees each year	1	*		1	1	1	1	1	1
5	Informal educator presence in schools.	3.2.1.2.1 3.2.1.2.5	Provide schools with the opportunities to host storm water presentations or provide educational experiences for select groups of students. Distribute literature to schools. Target audience: primary and secondary students.	Literature distributed countywide to schools yearly.	Number of students reached each year	1	*		1	1	1	1	1	1
6	Developer Workshop	3.2.1.2.2 3.2.1.2.5 3.2.5.2.3.3	Host a developer and contractor workshop to educate about storm water related issues.	Host one workshop per year	Number of attendees each year	1	*		N	1	1	1	1	1
7	Display Board	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Create a series of displays that correspond to the messages of the storm water education campaign. Target audience: adult residents and young adults	Present display at least two times each year (one is a public event) in each Co-Permittee area	Where each display was presented and how many people attended each event	1	*		1	1	1	1	1	1
8	Newsletter Articles	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Create a series of newsletter articles to be included in local community newsletters. Target audience: adult residents and young adults	Include articles in up to four local newsletter mailings per year	Number of mailings and number of people who receive the articles each year	1	*		1	1	1	1	1	1
9	Education Library.	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Host an environmental education library for use as a primary education source and as a source for environmental educators. Target audience: adult residents and young adults	Advertise library materials yearly and update a link to the Summit County webpage as necessary	Inventory record and number of people visiting the library or checking out materials	1	*		1	1	1	1	1	1
10	Response Packets of Information	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Create an educational response to specific storm water related scenarios (i.e. - septic system failures, or the failure of developers to provide adequate storm water BMPs). Target audience: adult residents and young adults	One countywide response packet yearly	Number of packets distributed each year	1	*		1	1	1	1	1	1

**Table 16.0 - Yellow Creek Watershed - BMPs for Control Measures 1-6**  
 Summit County Countywide Storm Water Management Program  
 Ohio EPA NPDES Phase II Permits

"Rapidly Developing Watershed"

**Control Measure 1 - Public Education and Outreach**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description and Target Audience	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed							
						County				Townships			
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11	Attitude Survey	3.2.1.2.1 3.2.1.2.2 3.2.1.2.5	Gather data on the change of attitude that occurs throughout the storm water education campaign.	Yearly on a countywide basis before each annual report submittal	Data collected and analyzed	1	*		1	1	1	1	1
12	Pollution Prevention For Businesses	3.2.1.2.2	Educate local businesses on pollution prevention measures. Distribute brochures, host a pollution prevention stakeholder meeting with a speaker who will inspire businesses to develop storm water plans, and present certificate or other awards for model pollution prevention plans. Target audience: businesses	One countywide stakeholder meeting yearly. One countywide brochure yearly. Present certificates as appropriate.	Number of attendees and brochures distributed each year	1	*		NA	1	1	1	1
13	Household Sewage Videos	3.2.1.2.1 3.2.1.2.5	Educational literature and videos regarding operation and maintenance of household sewage treatment systems (HSTS) are available to HSTS users. Target audience: HSTS users.	Available continuously at Summit County Environmental Health Dept.	Number of videos distributed each year	2	*		NA	2	2	2	2
14	Household Sewage Literature and Videos for new System Installations	3.2.1.2.1 3.2.1.2.5	Literature and a video offer is mailed out to owners following the installation of new and replacement HSTSs. Target audience: HSTS users.	Countywide each year	Number of brochures and videos distributed each year	2	*		NA	2	2	2	2
15	Mailings for Household Sewage Pumping Program	3.2.1.2.1 3.2.1.2.5	As part of the mandatory septic tank pumping program the Health District mails reminders to system users to have tanks pumped every three years. Target audience: HSTS users.	First year and each year thereafter	Number of mailings each year	2	*		NA	2	2	2	2
16	Community Group HSTS Presentations	3.2.1.2.2 3.2.1.2.5	Presentations to community groups regarding the care and maintenance of HSTS. Target audience: HSTS users.	First year and each year thereafter	Number of presentations each year	2	*		NA	2	2	2	2
17	Health District Presentations - HSTS Operation and Maintenance Program	3.2.1.2.2 3.2.1.2.5	Presentations of the Health Districts intent to develop a comprehensive HSTS operation and maintenance program to community officials and citizens, soliciting response. Target audience: community officials and citizens	First year and each year thereafter	Number of presentations each year	2	*		NA	2	2	2	2

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**Table 16.0 - Yellow Creek Watershed - BMPs for Control Measures 1-6**  
 Summit County Countywide Storm Water Management Program  
 Ohio EPA NPDES Phase II Permits

**"Rapidly Developing Watershed"**

**Control Measure 2 - Public Involvement & Participation**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description and Target Audience	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed							
						County				Townships			
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Copley	Richfield	Richfield
1	Public Involvement Public Education Committee	3.2.2.2.2	Participate in a committee that will allow Co-Permittees to coordinate efforts to reduce pollution of storm water through public education and involvement. Target audience: community leaders	Monthly committee meetings	Meeting records and attendee lists for each year	1	*		1	1	1	1	1
2	Community Service Hours	3.2.2.2.2 3.2.2.2.4.4	Host opportunities for young adults to fulfill community service hours through a storm water related activity (stream clean-up, storm drain stenciling, etc). 5 hours minimum per event. Target audience: young adults	Two events per year throughout the county	Number of attendees each year	1	*		1	1	1	1	1
3	Storm Water Badge	3.2.2.2.2 3.2.2.2.4.3	Create a storm water badge to encourage the exploration of storm water issues by scout troops. Create and publish guidelines for earning the badge. Target audience: young adults	Inform countywide scout leaders each year	Types of projects completed and number of badges awarded each year	1	*		1	1	1	1	1
4	Watershed Planning Groups	3.2.2.2.4.1 3.2.2.2.4.3	Host or participate in watershed planning groups or committees with other Co-Permittees, stakeholders, and the public to address storm water quality issues. Target audience: watershed stakeholders	Participate in on-going watershed planning meetings beginning in the first year and continuing each year thereafter.	Membership or attendance records	X			X	X	X	X	X
5	Stream Monitoring Group	3.2.2.2.2 3.2.2.2.4.4	Create a group trained in stream monitoring techniques. Meet on a regular basis throughout the year. Hold a stream monitoring workshop. Provide stream monitoring equipment. Collect and process data. Target audience: all residents	One countywide workshop in the first year (and subsequent years based upon public participation & interest). Collect data in each year thereafter.	Number of group participants each year. Summarize monitoring activities and data yearly.	1	*		X	1	1	1	1

**Notes:** SC - Summit County Engineer's Office and Executive's Office  
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Table 16.0 - Yellow Creek Watershed - BMPs for Control Measures 1-6  
Summit County Countywide Storm Water Management Program  
Ohio EPA NPDES Phase II Permits

"Rapidly Developing Watershed"

Control Measure 3 - Illicit Discharge Detection and Elimination

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed							
						County				Townships			
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Copley	Richfield	Richfield
1	Storm Sewer Map	3.2.3.1.2	Create storm sewer map using the Summit County GIS system, Co-Permittee GIS systems, and Co-permittee data that shows the location of outfalls and the names and locations of receiving surface waters of the state	Create layer first year. Refine map each year thereafter based upon Co-Permittee field screening and other activities	Countywide storm sewer map reflects results of Co-Permittee field assessment activities by the end of the fifth year	X		X	X, 4	X, 4	X, 4	X	
2	Illicit Discharge Control Legislation	3.2.3.1.3 3.2.3.2.4.3	Develop legislation and enforcement mechanisms to control and eliminate illicit discharges. In areas with ordinances in place, the legislation and enforcement mechanisms will continue to be implemented and refined as necessary.	Begin legislation development and implementation during first year	Legislation and enforcement mechanisms in place for each Co-Permittee area by the end of the fifth year	X		X	X, 4	X, 4	X, 4	X	
3	Field Screening to Detect Illicit Discharges	3.2.3.1.4 3.2.3.2.4.2	Implement field screening of non-storm water discharges. Possible methods include: video inspection, visual inspections, smoke testing, dye testing, etc.	Initiate field program during first year and continue program each year thereafter	Results incorporated onto GIS storm sewer layer each year	X		X	X, 4	X, 4	X, 4	X	
4	Update SCCGHD HSTS Database	3.2.3.1.2.1.1	Update SCCGHD database of HSTSs based upon inspections and field screenings.	Initiate program during first year and continue program each year thereafter	Database completed and matches HSTS GIS layer by the end of fifth year	2	*	N A	2, 4	2, 4	2, 4	2	
5	HSTS Map	3.2.3.1.2.1.2	Develop and revise a HSTS layer on the Summit County GIS system that shows HSTSs connected to the MS4	Initiate program during first year and continue program each year thereafter	HSTS layer on the HSTS GIS layer complete by the end of the fifth year	X	*	N A	2, 4	2, 4	2, 4	2	
6	HSTS Installation Inspections	3.2.3.2.5	Conduct inspections of new HSTS when installed	Initiate program during first year and continue program each year thereafter	All new HSTSs inspected each year	2	*	N A	2, 4	2, 4	2, 4	2	
7	HSTS Installer/Hauler Registration Program	3.2.3.1.4	Registration at SCCGHD of sewage system installers and liquid waste haulers	Initiate program during first year and continue program each year thereafter	All sewage systems installers and liquid waste haulers registered each year.	2	*	N A	2, 4	2, 4	2, 4	2	
8	Mandatory HSTS Pumping Program	3.2.3.1.4	Mandatory septic tank pumping program includes: reporting by liquid waste haulers and maintenance of these records including pumping dates, volumes pumped, and treatment or land application locations. Records maintained in SCCGHD database.	Initiate program during first year and continue program each year thereafter	Number of septic tanks pumped each year as presented in program.	2	*	N A	2, 4	2, 4	2, 4	2	

Table 16.0 - Yellow Creek Watershed - BMPs for Control Measures 1-6  
Summit County Countywide Storm Water Management Program  
Ohio EPA NPDES Phase II Permits

"Rapidly Developing Watershed"

Control Measure 3 - Illicit Discharge Detection and Elimination

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed							
						County				Townships			
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Copley	Richfield	Richfield
9	New Lot HSTS Evaluations	3.2.3.1.4	Site evaluations for new lots being developed for the utilization of an HSTS	Initiate program during first year and continue program each year thereafter	Number of new lots inspected each year	2	*		NA	2, 4	2, 4	2, 4	2
10	Failing HSTS Investigations	3.2.3.2.5 3.2.3.2.4.1	Investigation and follow-up of nuisance complaints regarding possible failing HSTSs	Initiate program during first year and continue program each year thereafter	Number and results of nuisance complaints summarized each year	2	*		NA	2, 4	2, 4	2, 4	2
11	Deed Transfer HSTS Inspection Service	3.2.3.2.5	Inspection of existing HSTSs for residential properties undergoing deed transfer	Initiate program during first year and continue program each year thereafter	Number of existing HSTSs inspected under the deed transfer process.	2	*		NA	2, 4	2, 4	2, 4	2
12	Semi-public Onsite Wastewater Treatment Systems Operation and Maintenance (O & M) Program	3.2.3.1.4	O & M program for semi-public onsite ww treatment systems (4 unit and greater properties with generation < 25,000 gpd.) Program includes: annual inspection of systems; once every three year inspections of non-discharging systems; coord. with Ohio EPA on follow-up on problem systems; and construction inspection of new or replacement semipublic wastewater treatment systems.	Initiate program during first year and continue program each year thereafter	Results of O&M program summarized and presented each year	2	*	2		2, 4	2, 4	2, 4	2
13	Educate Businesses on Illegal Discharges and Waste Disposal	3.2.3.1.5	Educate local businesses on the hazards of illegal discharges and improper waste disposal. Distribute brochures, host a pollution prevention stakeholder meetings to develop storm water plans, and present certificate or other awards for model pollution prevention plans. Target audience: businesses	One countywide stakeholder meeting yearly. One countywide brochure yearly. Present certificates as appropriate.	Number of attendees and brochures distributed each year	1	*		NA	1	1	1	1

Notes: SC - Summit County Engineer's Office and Executive's Office  
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Metro Parks - Summit County Metro Parks  
NA - not applicable in this portion of the watershed

\* - Entity responsible to implement BMP  
X - Co-Permittee responsible to implement BMP  
1 - BMP to be implemented for the Co-Permittee area by the SSWCD  
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3 - BMP to be implemented for the Co-Permittee area by SC  
4 - State legislation allowing township allocation of funds required to implement BMP

Table 16.0 - Yellow Creek Watershed - BMPs for Control Measures 1-6  
Summit County Countywide Storm Water Management Program  
Ohio EPA NPDES Phase II Permits

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**Control Measure 4 - Construction Site Storm Water Runoff Control**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed							
						County				Townships			
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Copley	Richfield	Richfield
1	Erosion and Sediment Control Legislation	3.2.4.1.1 3.2.4.1.2 3.2.4.1.3	Establish or revise erosion and sediment control legislation for sites greater than one acre in size. Incorporate the requirements of the Ohio EPA Construction Permit including erosion and sediment control BMPs and waste materials management.	Review existing legislation in the first year. Implement new and revised programs each year thereafter	Legislation in place in each Co-Permittee area by the end of the third year.	X			X	X, 4	X, 4	X, 4	X
2	Enforcement Mechanism for the Erosion and Sediment Control Legislation	3.2.4.1.1 3.2.4.1.6	Create an enforcement mechanism for the erosion and sediment control ordinance or other local legislation. Establish site inspection enforcement measures for construction sites greater than 1 acre.	First year and each year thereafter until the fifth year	Enforcement mechanisms in place in each Co-Permittee area by the end of the third year	X		X	X, 4	X, 4	X, 4	X, 4	X
3	Site Plan Review Procedures	3.2.4.1.4	Modify County Stormwater Manual, Subdivision Regulations, and local manuals to include erosion and sediment control and water quality control requirements in the site plan review process	Revise existing manuals and programs in the first year. Implement new and revised manuals and programs each year thereafter	Site plan review process in place in each Co-Permittee area by the end of the third year	X	*	NA	1	1	1	1	X
4	Receipt and Consideration of Information submitted by the public	3.2.4.1.5	Establish procedures during for public comment on projects and programs within each Co-Permittee area. Forums for public comments will include public hearings, meetings, or council or trustee meetings.	Procedures to receive and responds to public comments will be implemented in the first year and continued in each year thereafter.	Public comment and response program in place by the third year	X		X	X	X	X	X	X
4	Site Inspection Measures	3.2.4.1.6	Establish inspection measures for construction sites greater than 1 acre	Review existing programs in the first year. Implement new and revised programs each year thereafter	Inspection program in place in each Co-Permittee area by the end of the third year	X	*	X	1	1	1	1	X

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4 - State legislation allowing township allocation of funds required to

**Table 16.0 - Yellow Creek Watershed - BMPs for Control Measures 1-6**  
 Summit County Countywide Storm Water Management Program  
 Ohio EPA NPDES Phase II Permits

"Rapidly Developing Watershed"

**Control Measure 5 - Post-Construction Storm Water Management In New Development and Redevelopment**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed							
						County				Townships			
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Copley	Richfield	Richfield
1	Structural Post-Construction Storm Water Controls	3.2.5.1.2 3.2.5.1.3 3.2.5.2.3.1 3.2.5.2.4	Revise County Stormwater Manual, County subdivision regulations, and local manuals to incorporate structural post-construction water quality controls. Establish or revise local legislation or programs to include post-construction storm water controls in new development and redevelopment projects. Potential controls include: wet ponds, extended-detention outlet structures, grassed swales, bioretention cells, and infiltration basins.	Revise County Manual and regulations in first year. Local legislation and program revised and implemented in subsequent years.	Programs in place in each Co-Permittee area by the end of the third year.	X		X	X, 4	X, 4	X, 4	X	
2	BMP Operation and Maintenance	3.2.5.1.4	Establish countywide and local programs to ensure the operation and maintenance of water quality BMPs installed in new and redevelopment projects	Revise county and local programs and legislation in the first year. Implement programs in successive years.	Programs in place in each Co-Permittee area by the end of the third year.	X		X	X,4	X,4	X,4	X	
2	Sensitive Area Protection Legislation	3.2.5.1.3 3.2.5.2.3.1	Establish sensitive area protection legislation to protect sensitive areas such as wetlands and riparian zones and open space. Implement Summit County Riparian Ordinance or create local legislation as necessary.	Revise existing legislation in the first year. Implement new and revised ordinances or programs each year thereafter	County Riparian Ordinance or local legislation in place in each Co-Permittee area by the end of the third year.	X		X	X, 4	X, 4	X, 4	X	

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**Table 16.0 - Yellow Creek Watershed - BMPs for Control Measures 1-6**  
**Summit County Countywide Storm Water Management Program**  
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"Rapidly Developing Watershed"

**Control Measure 6 - Pollution Prevention/Good Housekeeping for Municipal Operations**

	Best Management Practice (BMP)	Ohio EPA Permit Section Number	BMP Description	BMP Implementation Time Frame	BMP Measurable Goal	Entity or Co-Permittee Responsible for Implementation of the BMP within the Watershed								
						County			Townships					
						SC	SSWCD	SCCGHD	Metro Parks	Bath	Copley	Richfield	Richfield	
1	Storm Water Pollution Control Training Program	3.2.6.1.1 3.2.6.1.2	Revise or develop a program that includes training for storm water pollution control for municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing training programs in the first year. Implement new and revised programs each year thereafter	Revised or new training programs in place for municipal operations affecting storm water by the fifth year	X			X	X	X	X	X	
2	Controls to Reduce or Eliminate Pollutants	3.2.6.2.3.2	Revise existing plans or develop new storm water pollution control programs to reduce or eliminate pollutants from municipal operations. Operations include: parks; road maintenance; ditching, fleet maintenance; new construction; and storm water system maintenance.	Revise existing programs in the first year. Implement new and revised programs each year thereafter	Programs in place for municipal operations affecting storm water by the fifth year	X			X	X	X	X	X	X
3	Maintenance Program for Storm Water Controls	3.2.6.2.3.1	Develop a program that describes maintenance activities and schedules; and long-term inspection activities for the storm water controls and program elements for municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing practices and programs in the first year. Implement new and revised programs each year thereafter	Maintenance and inspection programs in place for municipal operations affecting storm water by the fifth year	X			X	X	X	X	X	X
4	Waste Disposal Procedures	3.2.6.2.3.3	Review existing waste disposal practices and develop new programs for proper waste disposal during for municipal operations. Operations include: parks; road maintenance; ditching; fleet maintenance; new construction; and storm water system maintenance.	Revise existing practices and programs in the first year. Implement new and revised programs each year thereafter	New or revised waste disposal programs in place for municipal operations affecting storm water by the fifth year	X			X	X	X	X	X	X
5	Water Quality Controls for Flood Management Projects	3.2.6.2.3.4	Develop a program to incorporate water quality controls in new flood management projects. Evaluate feasibility of additional water quality controls on existing flood management projects. Revise County Stormwater manual as appropriate.	Revise existing practices and programs in the first year. Implement new and revised programs each year thereafter	Program in place for municipal operations affecting storm water by the fifth year	X			NA	3	3	3	NA	
<b>Notes:</b> SC - Summit County Engineer's Office and Executive's Office SSWCD - Summit Soil and Water Conservation District SCCGHD - Summit County Combined General Health District Metro Parks - Summit County Metro Parks NA - not applicable in this portion of the watershed						* - Entity responsible to implement BMP X - Co-Permittee responsible to implement BMP 1 - BMP to be implemented for the Co-Permittee area by the SSWCD 2 - BMP to be implemented for the Co-Permittee area by the SCCGHD 3 - BMP to be implemented for the Co-Permittee area by SC 4 - State legislation allowing township allocation of funds required to								

## Figures

## **Appendix A**

Copies of Ohio EPA Permits No.: OHQ100000 and OHQ000001

## **Appendix B**

Copies of Agreements, Letters, or Other Documents Related to this SWMP

## **Appendix C**

Existing NPDES Permits Located Within Summit County

**Appendix D**

Summit County Riparian Setback Ordinance

## **Appendix E**

US EPA Impaired Water Body Data