

Watershed Approach to Stream Health (WASH) Project

A partnership of communities in the Boulder and St. Vrain watersheds -
working together to protect our water quality



2005 Annual Report

Boulder County • City of Boulder • City of Longmont • City of Louisville • Town of Erie • Town of Superior



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WASH ANNUAL REPORT for 2005

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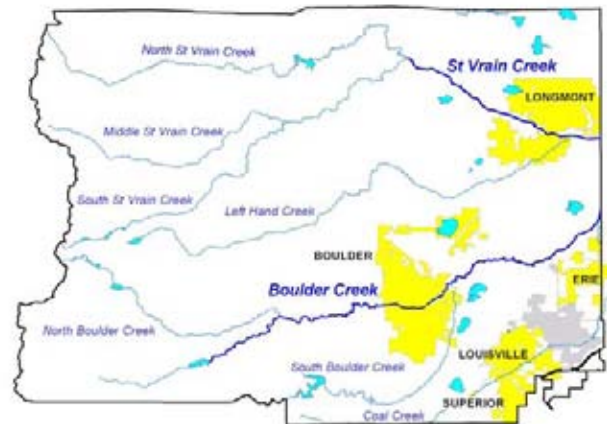
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Executive Summary for WASH Project 2005 Annual Report

The Watershed Approach to Stream Health (WASH) Project is a regional stormwater quality management program serving the communities of Boulder, Longmont, Louisville, Erie, Superior, and Boulder County. This innovative, award-winning program is leading Colorado in addressing water quality issues through watershed management. The WASH Project participants (Partners) developed the WASH



Plan in 2002, which outlines the goals and programs to address water quality protection in the Boulder and St. Vrain watersheds.



The primary objective of the WASH Plan is compliance with federal Phase II stormwater regulations. These regulations require communities with urbanized areas or designated by the state to obtain a discharge permit for their storm sewer systems. The Colorado Department of Public Health and Environment (CDPHE) administers the Phase II regulations.

WASH Program Goal:
To use a collaborative approach in creating cost-effective solutions to implement a regional stormwater management program, not only to comply with Phase II regulations, but also to address broader water quality and watershed issues.

Leveraged Resources and Cost Savings

The WASH Plan emphasizes cost-effectiveness by sharing programs, using common strategies, and existing programs. One example includes expanding the Partners for a Clean Environment (PACE) Program to include stormwater pollution prevention strategies in its certification criteria for municipal operations. Another example is contracting the City of Boulder to implement its existing Water Quality Education Program throughout the WASH program area. The combination of shared programs and use of existing programs has provided WASH Partners with a comprehensive stormwater management program at a cost 30-50% less than implementing an individual community program.

In 2005, the WASH budget was \$358,588 of which \$63,595 (18%) was proportionately reimbursed to each of the Partners. The reimbursement represents unspent contingency funds, interest, revenue and a 6% cost savings in program areas.

The WASH Project has continued to effectively leverage resources through grant funding and staff expertise. Since its inception in 2001, the WASH Project has received approximately \$165,000 in grant funds. In 2005, \$25,000 in grant funds were received and used to develop the 'Keep it Clean' Neighborhood Water Stewardship Program, and \$3,450 was used to produce a video featuring the WASH mascot, H₂O Jo, exploring a local storm drainage system.



In addition, WASH Partners benefit from the combined expertise of WASH workgroup members. These workgroups consist of staff from Partner communities and are responsible for developing and implementing the WASH Plan. Workgroup members include experts in the fields of drainage and environmental engineering, education and outreach, chemistry, geology, biology, and planning. This expertise would be difficult for any individual community to assemble.

Performance

A summary of major WASH Plan tasks completed in 2005 include the following:

Permit Compliance and Program Evaluation

- ◆ Full regulatory compliance was achieved for each Partner's Phase II municipal stormwater discharge permit.
- ◆ Released a Request for Proposal (RFP) for the evaluation of WASH programs to be completed in 2006 in preparation for permit renewal in 2008.
- ◆ Initiated a program to track existing water quality data in the region to evaluate its use in measuring program effectiveness.

Community Outreach and School Education Programs



- ◆ **85,929** brochures and inserts were distributed.
- ◆ **17,617** take-home materials for the *Get to Know Your H₂O* program were handed out.
- ◆ **4,707** students participated in stormwater education programs and **135** classroom programs were conducted.
- ◆ **815** storm drains were labeled with the message, "Dispose no Waste, Drains to Creek".
- ◆ **2,189** residents visited the stormwater booths at 6 community events.
- ◆ **40,000** visits to the redesigned WASH website BASIN.org/WASH.
- ◆ Initiated Neighborhood Stewardship Program.
- ◆ **78%** or \$8,200 funding for a six-minute video, was received from Non-Point Source Mini Grant and **18** other Colorado communities.
- ◆ **757** of the newly released *Adventures of H₂O Jo* comic books were distributed.
- ◆ **318,000** cars travel past the 'Keep it Clean' tributary signs each day.
- ◆ **\$25,000** in grant funds was received from Colorado Non-point Source Program to pilot a Neighborhood Stewardship Program.

Stormwater Pollution Prevention Programs for Private and Public Sectors

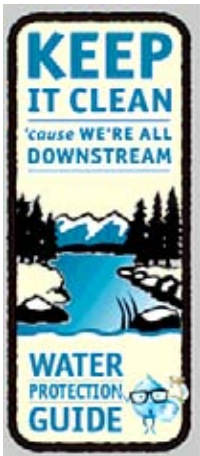
- ◆ **199** restaurants' and **128** vehicle service facilities' stormwater pollution prevention evaluations were completed.
- ◆ **64** municipal employees received training in stormwater pollution prevention.
- ◆ **170** municipal operations were reached through meetings with managers, site visits and/or certification plan reviews.



- ◆ **48** municipal stormwater pollution prevention videos were distributed.
- ◆ Distributed outreach materials for pressure washers, rental stores, golf courses, and do-it-yourself automobile maintenance.
- ◆ **300** commercial facility managers were provided with stormwater outreach materials.

Erosion Control, Permanent Water Quality Structures, and Illicit Discharge Prevention

- ◆ **103** participants took construction erosion control training.
- ◆ **115** municipal employees were trained in illicit discharge identification.
- ◆ Developed model contract language for government construction projects.
- ◆ Entered data into a shared database for illicit discharge tracking.
- ◆ Developed and distributed outreach materials.
 - Erosion control field guide that shows appropriate techniques through pictures.
 - Brochures for under an acre and over an acre construction sites.
 - Residential illicit discharge door hangers.



Excellence and Innovation

This year the WASH Project received a \$3,450 grant from the Colorado 319 Non-Point Source grant funds to produce a video depicting H₂O Jo flowing through a storm drain. The video cost will be shared with 18 other Colorado communities.

The WASH Project, in partnership with the City of Boulder, also received a \$25,000 grant to pilot The 'Keep it Clean' Neighborhood Water Stewardship Program.

The Future

The WASH Plan outlines tasks required to fulfill WASH Partners' regulatory compliance in 2006 with each Partners' stormwater discharge permit and to meet community water quality objectives. The WASH Project will continue to implement the shared and common programs for the benefit of all of the communities. In addition, the WASH Plan and implemented programs will be evaluated in 2006. This evaluation will be used to prepare for the next five-year stormwater permit application due in 2008.

In addition to WASH cooperative programs, each individual community will be responsible for completing of the following tasks in 2006:

- ◆ Implementing the individual ordinances adopted in 2004 and related procedures developed in 2005, such as:
 - Reviewing erosion control plans and proposed permanent water quality structures
 - Conducting and tracking construction and post-construction site inspections
 - Responding, enforcing, and tracking for all illicit discharges.
- ◆ Maintaining storm drainage outfall maps.
- ◆ Ensuring targeted municipal operations meet the PACE stormwater pollution prevention certification criteria.
- ◆ Reacting to the evaluation of the WASH and individual programs.

Background and Project Overview

The Watershed Approach to Stream Health (WASH) Project grew out of regional stormwater round-table discussion and a watershed management focus group conducted in 1999. Water quality and stormwater professionals representing various communities in the Boulder Creek and St. Vrain watersheds participated in those meetings to help develop the goals, objectives, and project focus that are now incorporated into the WASH Plan.

The WASH Project uses a unique, collaborative approach to involve various levels of government in creating cost-effective solutions to stormwater problems. The WASH Project embodies the spirit of the watershed approach envisioned in the federal Clean Water Act and adopted in the Boulder Valley Comprehensive Plan.

The primary goal of the WASH Project is to implement a regional stormwater management program, not only to comply with federal Phase II stormwater regulations, but also to address broader water quality issues.

WASH Partners include Boulder County; the cities of Boulder, Longmont, and Louisville; and the towns of Superior and Erie. In 2001, WASH Partners entered into a Memorandum of Understanding (MOU), which outlined the desire to address stormwater quality issues on a regional basis.

The WASH Plan

In 2002, the WASH Partners began developing the five-year WASH Plan, which outlines the WASH programs and budget. Emphasis was placed on developing programs that meet Phase II stormwater regulations; use existing, successful programs; addressing community water quality goals; and allowing for flexibility within jurisdictional oversight.

Implementation of the WASH Plan is governed by the five-year intergovernmental agreement (IGA) and supporting bylaws, which were executed in January 2003. The IGA identifies the Steering Committee as the managing entity; it is made up of one voting representative from each Partner community. The Steering Committee directs the WASH Project Coordinator, who provides administrative and management services to implement the WASH Plan and budget. The IGA identifies Boulder County Public Health (BCPH) as the contracting/fiscal agent. BCPH is also the employer of the WASH Project Coordinator. The WASH Partners participate in workgroups, which direct implementation of the WASH Plan.

The WASH Plan is divided into two main categories. Priority One activities are those required to comply with Phase II stormwater regulations. Priority Two activities are those that address broader stormwater and water quality issues. The Priority One activities were submitted in each Partner's application for a Phase II municipal stormwater permit with the Colorado Department of Public Health and Environment (CDPHE) in March 2003; permits were issued in April 2003.

The Phase II regulations call for the implementation of six minimum control measures (MCMs) to address the impact of stormwater runoff on water quality and stream health. These programs are described in detail in the WASH Plan.

Implementation of the WASH Plan

Implementation of each of the programs outlined in the WASH Plan uses a variety of approaches, including the following:

- **Common Elements:** Program elements that have common themes and common implementation procedures. An example is the development of common ordinance language.

- **Individual Programs:** Program elements that are exclusively the responsibility of individual Partners to implement. An example is the local adoption and enforcement of an erosion control ordinance.
- **Shared Programs:** Program elements that are shared by all Partners. The following two contracts are examples:
 - ◆ The City of Boulder Water Education Program provides community outreach materials and school programs in each of the Partner jurisdictions.
 - ◆ Boulder County's Partners for a Clean Environment (PACE) Program provides outreach materials and conducts site visits for WASH Partners, addressing commercial and municipal operations.

The six minimum control measures required in the Municipal Stormwater Discharge Permit are outlined below and are included in the WASH Plan:

- 1) **MCM 1 - Public Education and Outreach**
 - School-Based Education Program (water quality curriculum and classroom programs)
 - Business Education Program (see MCM 3).
- 2) **MCM 2 - Public Participation and Involvement**
 - Storm Drain Stenciling Program
 - Illicit Discharge Hotline (see MCM 3)
 - Annual Public Meetings to Solicit Input on WASH Programs
- 3) **MCM 3 - Illicit Discharge Detection and Elimination**
 - Legal Prohibition of Illicit Discharges (ordinances and other code development)
 - Illicit Discharge Enforcement (hotline, spill response plan, inspections, enforcement, and data tracking)
 - Community-Based Education Program (brochures, fact sheets, and other materials)
 - Business Education
 - Storm Sewer System Mapping
- 4) **MCM 4 - Construction Site Stormwater Runoff Control**
 - Training and Education for Construction Site Operators and Inspectors
 - Erosion Control Ordinance (required erosion control for construction sites)
 - Erosion Control Standard Operating Procedures (SOP) (outlines application and approval procedures for construction site stormwater management plan submittals)
 - Erosion Control Inspection and Enforcement (implementation of erosion control ordinance)
 - Public Input
- 5) **MCM 5 - Post-Construction Stormwater Management**
 - Post-Construction Ordinance (required treatment of stormwater runoff)
 - Design Criteria and Standards (outlines type of stormwater treatment or best management practice [BMP] required)
 - Development Review (ensures appropriate design of BMPs)
 - BMP Operation and Maintenance (requires long-term maintenance of BMPs)
- 6) **MCM 6 - Pollution Prevention and Good Housekeeping for Municipal Operations**
 - Training and Certification for Municipal Employees (site-specific water pollution prevention activities)

The Partner communities fund the common and shared program costs. Cost allocation is based on each Partner's urbanized population, as outlined in the WASH IGA. Costs to implement the individual community programs are the responsibility of each individual community. The total annual average cost to implement the shared and common elements of the WASH Plan is approximately \$380,000. This includes 3.25 full-time employees (FTEs) at a cost of \$220,000. The staff currently includes 1.50 FTE education positions, 0.75 FTE WASH coordinator position, and 1.00 FTE to support the PACE Program.

2005 Highlights

Through the implementation of WASH Plan elements, all WASH Partners achieved compliance with their stormwater discharge permits. A summary of major tasks completed in 2005 follows:

Community Outreach and School Education Programs

WASH Partners contract with the City of Boulder's Education Program to implement the community outreach and school education programs, the follow are highlights:

- ◆ Distributed 85,929 brochures and inserts.
- ◆ Distribute campaign materials as take-home components to the *Get to Know Your H₂O* School and Community Education programs; 962 sticky note pads; 3,775 magnets; 5,390 tattoos; and 7,490 stickers.
- ◆ Conducted 135 stormwater education programs reaching a total of 4,707 Boulder Valley School District (BVSD) and St. Vrain Valley School District (SVVSD) students.
- ◆ Marked 815 storm drains with the message, "Dispose no Waste, Drains to Creek".
- ◆ Attended 6 special events and reached 2,189 citizens.
- ◆ Revamped WASH website: www.BASIN.org/WASH.
- ◆ Began the neighborhood program.
- ◆ Produced a six-minute video of H₂O Jo falling from the sky and encountering urban pollution sources during his journey down a street to the storm drain. The total required funding was \$10,500, of which the WASH Project received \$3,450 in NPS Outreach Mini Grant and 18 Colorado communities contributed \$4,750.
- ◆ Developed *Adventures of H₂O Jo* comic book; distributed 757 copies.

Stormwater Pollution Prevention Programs for Private and Public Sectors

WASH contracted with Boulder County Public Health's Partners for a Clean Environment (PACE) Program to implement the following work items:

- ◆ Conducted sites visits to 199 restaurants and 128 commercial vehicle service facilities.
- ◆ Provided stormwater pollution prevention training to 64 municipal employees.
- ◆ Reviewed 42 Tier 1 municipal operations certification plans.
- ◆ Met with 16 facility managers that oversee 92 Tier 2 municipal operations.
- ◆ Met with the 3 municipal airport managers.
- ◆ Met with 26 fire chiefs.
- ◆ Distributed 48 municipal stormwater pollution prevention videos.
- ◆ Distributed outreach materials for pressure washers, rental stores, golf courses, and do-it-yourself automobile maintenance.
- ◆ Provided outreach materials to 300 commercial facility managers and presented information to 30 commercial facility managers.

Erosion Control, Permanent Water Quality Structures and Illicit Discharge Prevention

WASH Partners spent a significant amount of time working within their individual communities to begin implementation of the regulatory mechanisms needed to manage illicit discharges, and construction and post-construction stormwater runoff, and included the following tasks:

- ◆ Developed and distributed outreach materials. These included: erosion control field guide and brochure, municipal outreach materials, residential illicit discharge door hangers, and other commercial and residential outreach materials.
- ◆ Certified over 103 participants in construction erosion control training.
- ◆ Trained 115 municipal employees in illicit discharge response.
- ◆ Developed model contract language for government construction projects.
- ◆ Entered data into a shared database for illicit discharge tracking.

Presentations

WASH Partners made presentations throughout the state in 2005, including:

- ◆ “Boulder County’s Watershed Approach to Stream Health (WASH) Project” given to Colorado Counties, Inc. (CCI) and Colorado Association of Road Supervisors and Engineers (CARSE) Winter Conference (Technical Workshop with approximately 80 in attendance) on November 29, 2005.

Grants

The WASH Project used the strength of previous successes and its unique watershed approach to secure outside grant funding. In 2005, the WASH Project secured two grants totaling \$28,450. These included a \$3,450 state non-point source mini grant for the development of a H₂O Jo video and \$25,000 grant to pilot The ‘Keep it Clean’ Neighborhood Water Stewardship Program.

Budget

In 2005, the WASH budget was \$358,588 of which \$63,595 (18%) was proportionately reimbursed to each of the Partners. The reimbursement represents unspent contingency funds (10% percent of annual program budget is required to be in contingency by the WASH IGA), interest, and revenue totaling approximately \$40,000 and a 6% savings or \$23, 503.72 in actual program costs.

Future

In 2006, the WASH Plan programs will continued to be implemented to fulfill regulatory compliance with each Partners’ stormwater discharge permit for 2006 and to meet community water quality goals. The WASH Plan calls for the evaluation of all programs. WASH will be contracting for the evaluation of the WASH Plan’s implementation in 2006 and 2007. This evaluation will help WASH Partners prepare for the next five-year permit application due in 2008.

In 2006, each Partner will be responsible for:

- ◆ Implementing the individual ordinances adopted in 2004 and related procedures developed in 2005, such as:
 - Reviewing erosion control plans and proposed permanent water quality structures
 - Conducting and tracking construction and post-construction site inspections
 - Responding, enforcing, and tracking for all illicit discharges
- ◆ Maintaining storm drainage outfall maps
- ◆ Ensuring all municipal operations meet the PACE stormwater pollution prevention certification criteria
- ◆ Interpreting and reacting to the evaluation results of the WASH and individual programs

2005 Activities

MINIMUM CONTROL MEASURES

The following is a comprehensive summary
of
Priority One and Priority Two activities
implemented under the WASH Plan for each of the
Six Minimum Control Measures

MCM 1 - Public Education and Outreach

Regulatory Requirement

To satisfy the regulatory requirements for this minimum control measure (MCM), the following is required: (A) *Public education and outreach on stormwater impacts. The permittee must implement a public education program to include the following:*

- (I) *Distribute educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff; and*
- (II) *Inform businesses and the general public of impacts associated with illegal discharges and improper disposal of waste.*

Program Objective

Getting the Word Out - Public Education - Individuals play a key role in reducing stormwater impacts in their day-to-day activities. To successfully achieve water quality goals, a public education program must first educate the public on the extent and nature of the problems associated with urban runoff. Next, the public must be instructed on what they can do to help solve the problem, and finally, a successful program must provide opportunities for hands-on activities.

The WASH Education Program uses a variety of methods to “get the word out.” The program is an expansion of the City of Boulder’s award-winning stormwater public outreach program.

Program Implementation

The WASH Partners contracted with the City of Boulder to provide the WASH Education Programs, which includes activities required under MCM 1 and MCM 2 for all WASH Partner communities. The WASH education staff, with direction from the WASH education workgroup and input from PACE staff, implemented programs outlined in the WASH Plan. Individual Partners were responsible for certain program elements, including the continued distribution of brochures and directing their citizens to the WASH website. The entire City of Boulder’s Stormwater Education Program’s annual report is available at www.BASIN.org/WASH. The following is a summary of that report.

2005 Accomplishments

PRIORITY ONE ACTIVITIES

Brochures or Fact Sheets

2005 Measurable Goal outlined in the WASH PLAN states - Brochures and fact sheets will be developed for targeted activities as necessary. The remaining 20% of brochures equivalent to the number of households in each Partner’s permitted area will be produced. Each WASH Partner is responsible for distributing the materials.

The WASH *After the Storm* brochure was created in 2003 and included information on the impacts of illicit discharges and other water quality issues. In 2004, the brochure was translated into Spanish, and over 10,000 of these brochures were distributed in WASH community schools and through other WASH community and business outreach programs.

In 2005, the brochure was revised to include ‘Keep it Clean’ campaign images and the amount of text was reduced. Distribution of the *After the Storm* brochure in Spanish continued in 2005. A total of 41,691 Spanish and English language brochures were distributed in 2005 throughout WASH communities at school, community, business outreach and residential direct mail programs. In addition, WASH participated in a partnership project with Boulder County Ecocycle. Through this

partnership, WASH distributed 41,500 ‘Keep it Clean’ newsletter inserts to Boulder County residents. The City of Boulder and Boulder County also continued to distribute the “H2ooh!” brochure created in 2004. A total of 2,648 of these brochures were distributed to WASH community residents in 2005. In total, WASH distributed 85,929 brochures and inserts in 2005. The ‘Keep it Clean’ brochure will be translated into Spanish and printed for Spanish speaking audiences in 2006.

The permit requires that each WASH Partner is responsible for distributing brochures equal to approximately the number of households in their community over the five-year permit term. A summary of distribution methods follows:

Partner	Distribution means	Number of households	Number distributed by Partners in 2003	Number distributed by Partners in 2004	Number distributed by Partners in 2005	% of total households
Boulder County	Community and school events, and Ecocycle insert	8,900	0	7,700	38,906	524
Boulder	Utility bill insert, community and school events	39,596	37,000	27,833	31,513*	243
Longmont	Independent mailings, Ecocycle Insert, community and school events	26,667	21,500	850	8,162	114
Louisville	Utility bill insert, community and school events	7,216	8,100	14	916	125
Superior	Newsletter insert, community and school events	4,500	4,800	0	532	118
Erie	Utility bill insert, community and school events	3,750	3,750	250	5,900	264
TOTAL		90,629	75,150	36,647	85,929	218

* The City of Boulder produced the ‘H2ooh!’ stormwater brochure as part of the continued “Keep it clean, ‘cause we’re all downstream!” campaign in 2004. This brochure was distributed again in 2005 along with the new ‘Keep it Clean’ brochure, which was used in the city’s 2005 utility bill insert.

In addition to brochures, stormwater and water protection information is distributed using email list servers. For example, stormwater and water pollution prevention information was distributed through a ‘Keep it Clean’ pollution prevention tip to all Boulder County and City of Boulder employees in September 2005.

Water Quality Curriculum

2005 Measurable Goal outlined in the WASH PLAN states – Water Quality Curriculum will continue to distribute curriculum to Boulder Valley School District and St. Vrain Valley School District.

In 2005, the Watershed Resource Guide was updated to include the most current and useful information for both the Boulder Creek and St. Vrain Creek Watersheds. This guide is used as the basis for the Watershed curriculum, which teachers implement in their classrooms. The curriculum

was distributed through the annual Watershed teacher training sessions. All Boulder Valley School District (BVSD) and St. Vrain Valley School District (SVVSD) 4th-5th grade teachers and 6th-12th grade science teachers were invited to attend a free two-day training. In August, 13 teachers, 1 naturalist, and 1 environmental educator attended the training.

It is estimated that the educators that attended the 2005 training will reach over 1,140 students in the 2005-2006 school year.

Other WASH education and outreach activities included:

- ◆ Conducted 135 stormwater education programs, reaching a total of 4,707 students.
- ◆ 14 teachers checked out equipment to conduct classroom programs, reaching 611 students
- ◆ Partnered with the *Daily Camera* newspaper for the second time to create the “Get to Know Your H₂O” educational insert. The 16-page insert featured H₂O Jo and Flo and a series of water protection and conservation activities. Approximately 2,000 papers were requested by teachers for distribution in 66 schools in the 2 school districts, and the remaining 1,000 papers have been and continue to be distributed to groups through the WASH Education Program.
- ◆ H₂O Jo mascot appeared at 17 community events in the WASH area and an additional 10 events throughout the state of Colorado.
- ◆ Take-home materials for the Get to Know Your H₂O School and Community Education programs were distributed, including: 962 sticky note pads, 3,775 magnets, 5,390 tattoos, and 7,490 stickers. Distribution of these materials, in addition to the new *Adventures of H₂O Jo and Flo* activity book (see Alt Info Sources below), and brochure distribution help get the campaign message into WASH community homes and businesses.

Website

2005 Measurable Goal outlined in the WASH PLAN states –Stormwater materials will continue to be developed for the website.

In 2005, the WASH website, hosted by Boulder Area Sustainability Information Network (BASIN) (www.BASIN.org/WASH) was updated to include ‘Keep it Clean’ campaign graphics and general information on the WASH Project. This website is updated frequently to include the most current WASH Project information. The WASH website visits increased 47% in 2005 (see table below).

Year	Average Monthly Requests	Average Monthly Distinct Hosts Served
2004	1,587	703
2005	3,363	859

All WASH Partners list the BASIN/WASH website on their own communities’ websites and include:

- ◆ **Boulder County:** website is <http://www.bouldercountywater.org/>
- ◆ **Boulder:** website is www.boulderutilities.net
- ◆ **Longmont:** website is <http://www.ci.longmont.co.us>
- ◆ **Louisville:** website is <http://www.ci.louisville.co.us>
- ◆ **Superior:** website is www.townofsuperior.com
- ◆ **Erie:** website is <http://www.ci.erie.co.us/>

PRIORITY TWO ACTIVITIES

Children's Water Festival

2005 Measurable Goal outlined in the WASH PLAN states – continue hosting Children's Water Festival for Boulder Valley School District (BVSD) students. Extend participation of Children's Water Festival for St. Vrain Valley School District (SVVSD) students.

Approximately 964 BVSD 5th grade students and their teachers from 38 classrooms in 17 BVSD schools attended the 13th annual Children's Water Festival held at the University of Colorado (CU) campus on May 9, 2005. Sponsors included the Northern Colorado Conservancy District, CU's Office of Community Relations, the U.S. Bureau of Reclamation, and Wild Oats Markets. Press coverage included a front-page photo and short write-up appeared in the *Daily Camera* on May 10, 2005.

Approximately 1,000 SVVSD 5th grade students and their teachers from 39 classrooms in 11 SVVSD schools attended Longmont's Children's Water Festival held at the Raintree Center in Longmont on May 23, 2005.

Over 74% of BVSD classes and 100% of SVVSD classes attending the Children's Water Festival participated in the Water Ambassador Program, which provided students and teachers with six weeks of pre-festival educational activities and a take-home component.

Tributary Signage

2005 Measurable Goal outlined in the WASH PLAN states – Tributary signage will be designed, produced, and installed along major intersections in the county and in municipalities marking significant waterways.

The tributary signs are intended to increase public awareness of local water resources. The sign caption reads: "Keep it clean, 'cause we're all downstream!" and includes the local creek name. The tributary signs were designed in 2003. In 2004, 60 tributary signs were produced and installed along major intersections in Boulder County and in WASH communities marking significant waterways. In total, over 318,000 cars travel past these signs each day.

Activity	Boulder	Boulder County	Erie	Louisville	Longmont	Superior
Number of daily vehicles traveled (DVT) for streets where tributary signs are installed	134,959	34,750	4,700	13,750	94,600	35,400

Alternative Information

2005 Measurable Goal outlined in the WASH PLAN states – Specific campaigns to target various pollutant sources will be developed.

WASH worked with Environmental Communications Associates (ECA) to develop *The Adventures of H2O Jo* activity book. The book serves as a take-home component for K-3 grade students attending the WASH Creek Critters Puppet Show. The activity book features the story of H2O Jo and Flo including their mission, why clean water is important to them, and tips on activities people can participate in to help keep water clean. The activity book is distributed to very young students who take it home to have parents read it with them. For this reason, the activity book is an excellent tool to bring the water quality message home to families. Teachers, parents, and students alike have reported their appreciation of this fun educational resource. WASH staff distributed 757 activity books in 2005.

Program Element Changes

None

Budget

Proposed: \$113,104

Actual: \$98,788.55

Unexpended funds: \$14,315.45

Savings are due primarily to unexpended labor.

Members of Workgroup

Wendi Palmer, Town of Erie

Denise Grimm, Boulder County

Donna Scott, City of Boulder

MCM 2 - Public Involvement and Participation

Regulatory Requirement

To satisfy the regulatory requirements for this minimum control measure, the following is required:

(B) Public involvement/participation. The permittee, must at a minimum, comply with State and local public notice requirements when implementing the stormwater management programs required under this permit. Notice of all public hearings should be published in a community publication or newspaper of general circulation, to provide opportunities for public involvement that reach a majority of citizens through the notification process.

Program Objective

Promoting Public Participation - To ensure buy-in and support from the public, participation is critical. This includes providing information and seeking public input on stormwater management issues.

The WASH programs include participatory programs, such as neighborhood storm drain stenciling, illicit discharge reporting, and annual public meetings.

2005 Accomplishments

WASH Education Program

The WASH Project contracted with the City of Boulder to develop programs for MCM 2, which included the annual public meeting presentation and the storm drain stenciling program.

Individual WASH Partners are responsible for scheduling and hosting an annual public meeting in each of their communities. In 2005, the annual meetings took place during special events in each of the Partner communities. The City of Boulder supplied an event booth and staff for each event. In addition, staff from each of the WASH Partners attended to answer questions and hand out materials.

Each year, WASH Partners are responsible to ensure that a minimum of 5% of the storm drains are stenciled or marked in their communities. The City of Boulder supplies the materials for this activity.

PRIORITY ONE ACTIVITIES

Annual Public Meetings

2005 Measurable Goal outlined in the WASH PLAN states – Annual public meetings will continue.

In 2003, each WASH Partner hosted a public meeting to solicit input on WASH programs. Only a handful of citizens attended these meetings. To increase participation, WASH Partners requested and received approval to change this measurable goal to include an alternative annual meeting that included participation at a local community festival or special event for each WASH Partner.

Utilizing graphics and messages created for the 'Keep it Clean' water quality campaign, a special events outreach booth was developed. The booth includes hands-on, portable, engaging activities that serve as tools for community members to learn about non-point source pollution and recognize how their behaviors can affect water quality. The booth was used at one large-scale community event in each WASH community (see table below) and at one City of Boulder Public Works office and Water Board meeting in 2005. A total of 2,189 people visited the booth in 2005.

The WASH communities' festivals or special events included the following:

Partner	Date of Event	Event	Number of Visitors
Boulder County	July 30, 2005 & August 3, 2005	Boulder County Fair	150
Boulder	August 10, 2005	Boulder Farmer's Market	500
	August 12, 2005	CU RA Resource Fair	165
	September 5, 2005	Boulder Race Series	100
	September 25, 2005	Fall Festival	127
	November 28, 2005	City Water Board	50
	December 3, 2005	Lights of December Parade	2,000
Longmont	July 9, 2005	Rhythm on the River	444
Louisville	June 11, 2005	Taste of Louisville	560
Superior	September 10, 2005	Chili Cook-off	158
Erie	May 21, 2005	Erie Town Fair	700

Storm Drain Stenciling Program

2005 Measurable Goal outlined in the WASH PLAN states – Storm drain stenciling program will continue to be initiated. A minimum of 5% of the storm drains will be stenciled per year.

WASH education staff provided stormwater education programs and facilitated storm drain stenciling activities to over 347 youth and citizens in WASH communities. In 2005, WASH education staff continued to use curb markers and spray-painted stencils marking 815 storm drains. The Storm Drain Marking Program volunteers distributed 2,174 fish door hangers as part of the marking program in neighborhoods in 2005. The brightly colored, fish-shaped door hangers, available in both English and Spanish, were distributed to property owners in the same block the storm drains were marked. The door hangers included information about the storm drain marking program and provide tips on ways to protect and conserve local waters. The door hanger also lists the BASIN.org/WASH website and the WASH spill hotline (303-441-4444).

The 5% minimum requirement for stenciling storm drains was met by all of the Partners in 2005. The following table summarizes this activity:

Partner	Total Number of Storm Drains	Stenciled in 2003	Stenciled in 2004	Stenciled in 2005	Percent of Total Stenciled in 2005	Percent of Total Storm Drains Stenciled
Boulder County	225	82	40	31	13.8 %	68 %
Boulder	4,180	209	439	402	9.6 %	21 %
Longmont	1,820	99	95	115	6.3 %	17 %
Louisville	600	43	137	31	5.2 %	35 %
Superior	300	22	20	74	24.7 %	39 %
Erie	320	62	17	162	51 %	75 %
Total	7,445	517	748	815	11 %	28 %

PRIORITY TWO ACTIVITIES

Speakers Program

2005 Measurable Goal outlined in the WASH PLAN states – Speakers Program will be continued.

The Speakers Program includes a list of speakers available to present water quality information at local events. A program overview, the three presentation options, and list of speakers is available at www.BASIN.org/WASH. In 2005, WASH staff provided 8 presentations and reached 208 people:

Date	Group	Number of Participants	Location	Program Topic
2/1/05	Mock Realty- staff meeting	30	Boulder	Get to Know your H ₂ O (virtual tour)
2/2/05	CU Natural History Museum- brown bag lunch	25	Boulder	Get to Know your H ₂ O (virtual tour)
2/16/05	Earth Education CU E Center	11	Boulder	Get to Know your H ₂ O (virtual tour)
4/14/05	Colorado School of Mines Environmental Seminar Class	30	Golden	Watershed Education/Outreach - Benefits and Challenges
4/21/05	Boulder Energy Conservation Center - Master Composter Program	32	Boulder	Get to Know your H ₂ O (virtual tour)
6/1/05	NIST and NOAA	10	Boulder	Get to Know your H ₂ O (virtual tour)
10/12/05	Boulder Optimists Club	30	Boulder	Get to Know your H ₂ O (virtual tour)
9/19/05	CU Williams Village Leadership Group	40	Boulder	Water Conservation/Protection

In addition to the Speaker's Program, WASH staff made presentations at four Colorado and two national conferences, reaching nearly 600 people:

Date	Event	Number of Participants	Program Title
2/5/06	Booth at Big Thompson Watershed Forum Annual Meeting	150	WASH Education/Outreach Booth featuring 'Keep it Clean' campaign
3/29/05	Water Educator's Conference	50	WASH Education/Outreach Booth featuring 'Keep it Clean' campaign materials
4/30/05	CAEE Teaching Outside the Box	20	Water Quality Testing
5/21/05	National River Rally	30	Best of the Best in Water Education activities
9/8/05	NPS Forum and CWA Conference	150	WASH Education/Outreach Booth featuring 'Keep it Clean' campaign
10/19/05	National NPS and Stormwater Information and Education Conference	150	WASH Education Program Evaluation (co-present with Tetra Tech) and H ₂ O Jo at reception

Stream Team

2005 Measurable Goal outlined in the WASH PLAN states – Stream Team materials will be developed and program initiated.

WASH staff put together resources for the StreamTeam Program and promoted the program to teachers at the August teacher workshop. In addition to teacher and classroom participation, community groups were contacted about the program.

StreamTeam Program participants have the following equipment available for loan through the WASH Education Program.

- ◆ Water Quality Testing Equipment (LaMotte and Chemetrics)
- ◆ Creek Cleanup Kits
- ◆ Storm Drain Marking and Stenciling Kits

A number of community volunteers (including school groups) participated in the StreamTeam Program in 2005, including the Boulder Chapter of Trout Unlimited monitoring a section of Boulder Creek for a period of four months.

Historically, volunteer participation is limited to short-term participation. Therefore, in 2005, WASH education staff evaluated the StreamTeam Program structure and participation requirements and identified a need to develop more comprehensive plans to ensure StreamTeam success. In November and December of 2005, WASH education staff met with other departments in the City of Boulder, the Boulder Creek Watershed Initiative, and U.S. Geological Survey staff to develop recommended changes to the StreamTeam Program with plans to begin implementation in 2006.

GRANTS

WASH Education Program received two grants from the State of Colorado (CDPHE) nonpoint source program.

‘Keep It Clean’ Neighborhood Watershed Stewardship Program

The WASH Project in partnership with the City of Boulder, received a \$25,000 grant to pilot The ‘Keep it Clean’ Neighborhood Water Stewardship Program (NWSP), which is a neighborhood-based NPS behavior change and outreach program. The project goal is to engage WASH community residents in water protection activities that help them take the necessary actions to reduce NPS pollution in their community. To accomplish this goal, the ‘Keep it Clean’ NWSP includes three main components:

- ◆ **Implement the Empowerment Institute Livable Neighborhood Water Stewardship Program to encourage residential behavior changes:** WASH and City of Boulder education staff will be trained to implement this pilot program in at least 1 neighborhood in each WASH community. Neighborhood teams of 6-8 households learn about NPS issues and complete at least 5 water protection actions.
- ◆ **Measurable Results:** Program water quality action logs and surveys will be used to gain quantifiable feedback on the behaviors taken and the environmental impacts.
- ◆ **Statewide Transferability:** In an effort to encourage statewide program implementation, WASH will develop and deliver a project summary presentation for Colorado communities.

WASH staff participated in the Empowerment Institute Training in October 2005. The program will be implemented in WASH communities in the spring, summer, and fall of 2006.

A Ride Through the Storm Drain: The Adventures of H₂O Jo

The WASH Project received \$3,450 in NPS Outreach Mini Grant funding to produce a six-minute video of H₂O Jo falling from the sky and encountering urban pollution sources during his journey down a street to the storm drain and ultimately to a creek. The script was based on an existing video from Salt Lake City, Utah. The total required funding was \$10,500, of which the WASH Project and 18 Colorado communities contributed the reminder.

Program Element Changes

None

Budget

Proposed: \$18,729

Actual: \$15,957.06

Unexpended funds: \$2,771.94

Savings are due primarily to unexpended labor.

Members of Workgroup

Wendi Palmer, Town of Erie

Denise Grimm, Boulder County

Donna Scott, City of Boulder

MCM 3 - Illicit Discharge Detection and Elimination

Regulatory Requirement

To satisfy the regulatory requirements for this minimum control measure, the following is required:

- (C) *The permittee must develop, implement and enforce a program to detect and eliminate illicit discharges (as defined at 61.2) into the permittee’s MS4. The permittee must:*
- (a) *Develop, if not already completed, a storm sewer system map, showing the location of all municipal storm sewer outfalls and the names and location of all state waters that receive discharges from those outfalls;*
 - (b) *To the extent allowable under State or local law, effectively prohibit, through ordinance or other regulatory mechanism, non-stormwater discharges into the storm sewer system, and implement appropriate enforcement procedures and actions; and*
 - (c) *Develop and implement a plan to detect and address non-stormwater discharges, including illicit discharges and illegal dumping, to the system. The plan must include the following three components: procedures for locating priority areas likely to have illicit discharges; procedures for tracing the source of an illicit discharge; and procedures for removing the source of the discharge.*

Program Objective

Detecting and Eliminating Improper or Illegal Connections and Discharges - A cost-effective way to reduce some of the worst stormwater pollutants is to identify and eliminate illicit connections and discharges.

The WASH Plan includes public and municipal employee education training, spill response, and regulatory language to control illegal discharges. In addition, public information material will discuss the impacts of spills on water quality and a hotline for reporting illicit discharges will be advertised.

2005 Accomplishments

PRIORITY ONE ACTIVITIES

All WASH Partners have illicit discharge ordinances and enforcement response plans in place. The following table includes web links to the Partners’ ordinances.

Partner	Ordinance Adopted	Web link
Boulder County	September 13, 2005	http://www.co.boulder.co.us/bocc/Ordinances/illicit%20stormwater%20discharge.htm
Boulder	December 6, 2004	http://www.ci.boulder.co.us/cao/brc/11-5.html
Longmont	January 12, 2005	http://bpc.iserver.net/codes/longmont/index.htm Chapter 14.26 Stormwater Illicit Discharges and Permit Requirements
Louisville	December 21, 2004	http://www.ci.louisville.co.us/cityclerk/municode.htm Title 13, water/sewer, chapter 13.36
Superior	December 13, 2004	http://www.colocode.com/superior.html Chapter11, Article IV
Erie	November 9, 2004	http://66.113.195/CO/Erie/index.htm

Municipal Separate Storm Sewer System (MS4) Mapping

2005 Measurable Goal outlined in the WASH PLAN states - MS4 system mapping completed and updated.

Each WASH Partner community, as required, has completed a storm sewer map. The maps show the locations of municipal storm sewer outfalls and the names and locations of state waters that receive discharges from these outfalls.

Illicit Discharge Hotline

2005 Measurable Goal outlined in the WASH PLAN states - Illicit Discharge hotline and tracking system defined.

In 2003, Boulder County's Emergency Communications Division agreed to the use and publication of a "Spill Hotline" (303-441-4444) to be shared by all WASH Partners. Calls to the Spill Hotline are received by the Boulder County Communications Center and are dispatched to the appropriate response agency and/or jurisdiction.

In addition to the Spill Hotline, the WASH Partners share an illicit discharge incident database, hosted on the BASIN website. The Boulder County Environmental Emergency Response Team (EERT), which responds to hazardous material and other spills, posts its data on the BASIN database as well.

WASH Partner	Number of Responses	Enforcement Actions
Boulder County	0*	0
Boulder	27 + 106	5 verbal, 3 NOV
Longmont	11	3 NOV
Louisville	7 + 12	4 verbal, 2-NOV
Erie	2	0
Superior	1 + 3	3 verbal

* Though Boulder County participated in several responses the incidents were in other jurisdictions.

Business Education Program

2005 Measurable Goal outlined in the WASH PLAN states - Business Education Program component development completed and implementation continued.

The WASH Partners contracted with the Boulder County Partners for a Clean Environment (PACE) Program to provide stormwater pollution prevention education and materials to businesses operating in WASH communities. Major work elements performed by PACE in 2005 for WASH are outlined below. For more details, the complete PACE Annual Report is available online at www.pacepartners.com.

About PACE

PACE has been operating in a number of Boulder County communities for several years and is funded by Boulder County and participating communities. PACE offers a pollution prevention certification program to various business sectors. PACE services are free-of-charge to interested businesses. For WASH, PACE used a two-pronged approach to provide additional services to WASH Partners. For Program A, PACE targets business sectors already included in the PACE certification program. For these businesses, PACE expanded its existing certification program to include stormwater pollution prevention information. PACE's Program B provides outreach materials to those targeted businesses not already included in the PACE certification program.

Program A: PACE Certification

PACE expanded its existing program to include commercial sectors identified as potentially significant contributors of pollutants to the storm drain system. Program A sectors include vehicle repair, auto body, restaurant, and retail businesses.

In 2005, PACE completed the following activities for PACE Program A businesses:

- ◆ Conducted site visits, which provided one-on-one technical assistance to educate businesses, identify stormwater impacts, and identify low-cost solutions.
- ◆ Reviewed stormwater criteria for business sectors included in PACE Program A.
- ◆ Required those businesses contacted or re-certified in 2004 to adopt the best management practices (BMPs).
- ◆ Certified 12 new and re-certified 100 Program A businesses using the new stormwater criteria.
- ◆ Provided compliance assistance to approximately 43% of all the businesses included in Program A sectors.
- ◆ “No Dumping” door stickers were distributed by PACE and Boulder County Food Safety staff during site visits to restaurants.
- ◆ Distributed WASH educational materials to over 200 PACE-certified businesses, including Program A businesses as part of the 2005 Pollution Prevention Week.
- ◆ Requested businesses to label nearest storm drain with “Dump No Waste” message.
- ◆ Contacted 27 fast-food restaurant corporate headquarters with pressure washing information.

The following table summarizes PACE activities in each of the WASH Partner communities.

Jurisdiction	Vehicle Repair and Auto Body		Restaurants	
	Total Businesses ¹	WASH Site Visits or Contacts	Total Businesses ¹	WASH Site Visits or Contacts
Boulder County (Gunbarrel, Hygiene, Niwot)	2	1	18	16
Boulder	131	65 ²	268	86 ²
Longmont	91	21 ²	188	95 ²
Louisville	7	6	67	8
Erie	4	2	10	3
Superior	1	1	13	8
Total WASH Area	236	96	564	216

¹Not all of the businesses in Boulder County unincorporated, urbanized areas have been identified yet.

²The cities of Boulder and Longmont contract separately with PACE for pollution prevention business outreach, as part of larger environmental programs. As a result, a greater number of businesses in these municipalities received WASH information.

Program B: PACE Business Outreach

PACE developed Program B to provide stormwater outreach to businesses that are not currently included in PACE’s existing certification program. These business sectors included commercial

building maintenance, facility managers, pressure washers, private golf courses, do-it-yourself auto parts stores, and equipment rental stores.

Outreach to these Program B businesses sectors in 2005 included:

- ◆ Developed pollution prevention methods and training materials for power washing activities. These materials were distributed to power washers and facility managers and other businesses contracting these services. In addition, PACE purchased a portable dam and wet/dry vacuum to demonstrate proper power washing and wastewater collection techniques.
- ◆ Conducted site visits and distributed outreach materials to all private golf courses in the WASH area.
- ◆ Developed pollution prevention methods and conducted a training session for commercial facility managers using information developed for municipal operations in 2004. Approximately 300 facility managers received resource sheets and a training session invitation. The training was attended by 31 (3 power washers, 3 real estate, 5 institutions, 5 trash haulers, 5 auto repair, 3 hotel, 1 supermarket, 6 miscellaneous) facility managers.
- ◆ Distributed outreach materials to 7 power washers, 8 do-it-yourself automobile maintenance shops, 6 rental shops, and 5 private golf courses.
- ◆ Worked with National Automotive Parts Association (NAPA) and Automotive Service Excellence (ASE) to craft a letter to their member auto repair facilities encouraging participation in the PACE Program.
- ◆ Performed site inspections and gave classroom presentations at Boulder Technical Education Center (TEC) and Arapahoe Ridge high school.
- ◆ Coordinated with the City of Boulder enforcement staff to target those businesses where the PACE message alone was not adequate to ensure compliance with stormwater regulations.
- ◆ Updated PACE website to include the rental, do-it-yourself, and golf course brochures.

In addition to Program A and Program B activities, PACE staff updated the database in 2005 to better facilitate querying and adding new sectors and their associated criteria.

2006 PACE Goals

In 2006, PACE plans to continue site visits to provide *Program A: PACE Business Certification* to vehicle repair, auto body, restaurant, and retail businesses in the WASH Project area. The objective is to identify and conduct two site visits by the end of the permit term in 2007. In addition, PACE plans to develop a new pollution prevention poster for restaurants.

For *Program B: PACE Business Outreach*, the following activities are planned for 2006:

- ◆ Conduct three (3) facility maintenance pollution prevention-training workshops.
- ◆ Develop outreach materials for a new light industrial sector, grocery stores, and gas stations.
- ◆ Develop a web-based training program for mobile cleaners (e.g. carpet and blinds cleaners).
- ◆ Encourage do-it-yourself and rental stores to stock pollution prevention materials and equipment for their customers.
- ◆ Develop in-depth guidance document and make available to businesses in need of specific stormwater compliance assistance.

Illicit Discharge Detection Plan

2005 Measurable Goal outlined in the WASH PLAN states – Illicit Discharge Detection Plan implementation will be initiated.

All Partners have completed and are implementing the Illicit Discharge Detection and Elimination (IDDE) Plans.

IDDE Training

Specific IDDE training was given to each Partner’s staff throughout 2005.

Date	Partner	Number of Attendees
4/7&5/10/05	Boulder County	16
4/21/05	City of Boulder	5
12/8/05	City of Longmont	35
2/29/05	City of Louisville	25
5/24/05	Town of Erie	24
5/25/05	Town of Superior	10

In addition, WASH developed door hangers and spill fact sheets. The fact sheets are for city/county employees to be kept in fleet vehicles. These “car cards” act as a ready reference and include a summary of prohibited discharges and spill response agency information. Approximately 50 cards were distributed to each of the WASH Partners.

The door hanger was developed to notify potential illicit discharge violators. The door hanger outlined the possible violations and solutions and serves as a warning of potential fines. The WASH Partners received 100 door hangers (300 for Boulder and Longmont) in early 2005 to use in enforcing illicit discharge regulations.

PRIORITY TWO ACTIVITIES

Household Hazardous Waste (HHW) Disposal Program

2005 Measurable Goal outlined in the WASH PLAN states – Support of countywide HHW Disposal Program will continue.

All WASH Partners signed a five-year intergovernmental agreement to participate in the County-wide Household Hazardous Waste Program.

Program Element Changes

None

Budget

Proposed: \$50,383

Actual: \$45,545.15

Unexpended funds: \$4,837.85

Savings are due to not expending all funds allocated for illicit discharge incident tracking and business outreach.

Members of Workgroup

Ken Mason, City of Louisville

David Hollingsworth, City of Longmont

Donna Scott, City of Boulder

MCM 4 - Construction Site Stormwater Runoff Control

Regulatory Requirement

To satisfy the regulatory requirements for this minimum control measure, the following is required:

(D) *Construction site stormwater runoff control.*

- (I) *The permittee must develop, implement, and enforce a program to reduce pollutants in any stormwater runoff to the MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of pollutants in stormwater discharges from construction activity disturbing less than one acre must be included in the program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more. If the Division waives requirements for stormwater discharges associated with a small construction activity in accordance with 61.3(2)(f)(ii)(B), the permittee is not required to develop, implement, and/or enforce its program to reduce pollutant discharges from such a site.*
- (II) *The program must be developed and implemented to assure adequate design, implementation, and maintenance of BMPs at construction sites within the MS4 to reduce pollutant discharges and protect water quality. The program must include the development and implementation of, at a minimum:*
 - (a) *An ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under State or local law;*
 - (b) *Requirements for construction site operators to implement appropriate erosion and sediment control BMPs;*
 - (c) *Requirements for construction site operators to control waste, such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste, at the construction site that may cause adverse impacts to water quality;*
 - (d) *Procedures for site plan review which incorporate consideration of potential water quality impacts;*
 - (e) *Procedures for receipt and consideration of information submitted by the public, and*
 - (f) *Procedures for site inspection and enforcement of control measures.*

Program Objective

Controlling Construction Site Runoff - Effective construction site pollution prevention can dramatically reduce sediment loading to stream ecosystems. An effective erosion control program must include adequate ordinance language, effective inspection and enforcement, and appropriate development and construction standards.

The WASH Plan includes all of these components. In addition, the WASH Plan includes contractor training and a certification program. These program elements will ensure consistent countywide education and minimum standards.

2005 Accomplishments

PRIORITY ONE ACTIVITIES

The following table includes web links to the Partners' ordinances.

Partner	Ordinance Adopted	Web link
Boulder County	August 11, 2005	http://www.co.boulder.co.us/lu/lucode/amendments/DC0504final.pdf
Boulder	December 6, 2004	http://www.ci.boulder.co.us/cao/brc/11-5.html
Longmont	January 12, 2005	http://bpc.iserver.net/codes/longmont/index.htm Chapter 14.26 Stormwater Illicit Discharges and Permit Requirements
Louisville	December 21, 2004	http://www.ci.louisville.co.us/cityclerk/municode.htm Title 13, water/sewer, chapter 13.36
Superior	December 13, 2004	http://www.colocode.com/superior.html Chapter 11, Article IV
Erie	November 9, 2004	http://66.113.195/CO/Erie/index.htm

Erosion Control Standard Operating Procedures

2005 Measurable Goal outlined in the WASH PLAN states - Individual communities will implement erosion control standard operating procedure, including plan review and approval, and inspection procedures.

The WASH Partners have begun to implement plan review and approval and inspection procedures.

Training and Education for Construction Site Operators and Inspectors

2005 Measurable Goal - Identify WASH training program options.

The WASH Project has been implementing a training program for construction site operators and inspectors since 2003. Most of the WASH Partners require, by ordinance, that the individuals inspecting erosion control and sediment removal practices be certified by an acceptable program.

In 2005, 103 individuals from the private and public construction sector participated in the WASH Erosion Control Training Program.

In addition, a number of supplemental trainings and site visits were conducted for WASH municipal employees. The following table summarizes these trainings.

Date	Location	Trainer	Number of Attendees
5/11/05	Classroom	Matt Czahor	18
6/15/05	29 th Street Mall, Boulder	Matt Czahor	18
10/20/05	Wonderland Overpass, Boulder	Scott Olson	4
12/1/05	Valmont and 63 rd , Boulder County	Scott Olson	15
12/1/05	Vista Ridge, Erie	Scott Olson	8
12/2/05	Walmart, Longmont	Scott Olson	22

Brochures were developed to provide information on stormwater pollution prevention practices for construction sites under an acre. WASH Partners received 200 brochures (500 each for Boulder and Longmont).

Public Input

2005 Measurable Goal outlined in the WASH PLAN states - Individual communities will develop public concerns tracking system.

The WASH Partners have developed tracking systems for public concerns.

Program Element Changes

None

Budget

Proposed: \$20,000

Actual: \$18,514.79

Unexpended funds: \$1,485.21

Savings are due to not expending all monies allocated for outreach materials.

Members of Workgroup

Betty Solek, City of Boulder
Jim Stout, City of Boulder
Scott Kuhna, City of Boulder
Tomasita Damian, City of Longmont
Gary Bolken, City of Longmont
Dennis Crock, Town of Erie

MCM 5 - Post-Construction Stormwater Management

Regulatory Requirement

To satisfy the regulatory requirements for this minimum control measure, the following is required:

(E) Post-construction stormwater management in new development and redevelopment.

(I) The permittee must develop, implement, and enforce a program to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the small MS4. The program must ensure that controls are in place that would prevent or minimize water quality impacts.

(II) The permittee must:

- (a) Develop and implement strategies which include a combination of structural and/or non-structural BMPs appropriate for the community;*
- (b) Use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under State or local law; and*
- (c) Ensure adequate long-term operation and maintenance of BMPs.*

Program Objective

Addressing Stormwater in New Development and Redevelopment. It is estimated that when a tributary drainage basin reaches 10–20 percent impervious, there are significant ecological stresses on the aquatic ecosystem. Therefore, the most important strategy for addressing stormwater is to focus on land use and development. One of the best strategies is to address the aggregate amount of new impervious surfaces and disconnecting impervious areas. Other strategies include implementing effective best management practices (BMPs) for the control and treatment of site runoff, such as stormwater detention or grass swales.

The WASH Plan for post-construction includes the development of programs and ordinances that address runoff from new development and redevelopment. WASH will use a successful, existing program by adopting Urban Drainage and Flood Control District’s Best Management Practices Manual.

2005 Accomplishments

PRIORITY ONE ACTIVITIES

The following table includes web links to the Partners’ ordinances.

Partner	Ordinance Adopted	Web link
Boulder County	August 11, 2005	http://www.co.boulder.co.us/lu/lucode/amendments/DC0504final.pdf
Boulder	December 6, 2004	http://www.ci.boulder.co.us/cao/brc/11-5.html
Longmont	January 12, 2005	http://bpc.iserver.net/codes/longmont/index.htm Chapter 14.26 Stormwater Illicit Discharges and Permit Requirements
Louisville	December 21, 2004	http://www.ci.louisville.co.us/cityclerk/municode.htm Title 13, water/sewer, chapter 13.36
Superior	December 13, 2004	http://www.colocode.com/superior.html Chapter 11, Article IV
Erie	November 9, 2004	http://66.113.195/CO/Erie/index.htm

Design Criteria and Standards

2005 Measurable Goal outlined in the WASH PLAN states - Post-Construction ordinance will include reference to Urban Drainage and Flood Control District (UDFCD) Manual, Vol. 3. Individual communities will approve BMP selection guidance appropriate for each community.

All Partner ordinances have been adopted and include reference to UDFCD Manual Volume 3.

Development Review

2005 Measurable Goal outlined in the WASH PLAN states - Individual communities approve standard operating procedures (SOP)s for site plan review and inspection.

All Partners have approved SOPs for site plan review and inspection with the exception of Boulder County, which has been given an extension by the State Water Quality Control Division until June of 2006.

Program Element Changes

None

Budget

Proposed: \$3,000

Actual: \$2,879.10

Unexpended Funds: \$120.90

Savings are due to not expending all monies allocated for the Project Coordinator's labor.

Members of Workgroup

Betty Solek, City of Boulder

Jim Stout, City of Boulder

Scott Kuhna, City of Boulder

Tomasita Damian, City of Longmont

Gary Bolken, City of Longmont

Dennis Crock, Town of Erie

MCM 6 - Pollution Prevention and Good Housekeeping for Municipal Operations

Regulatory Requirement

To satisfy the regulatory requirements for this minimum control measure, the following is required:

(F) Pollution prevention/good housekeeping for municipal operations.

- (1) The permittee must develop and implement an operation and maintenance program that includes an employee training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. The program must also inform public employees of impacts associated with illegal discharges and improper disposal of waste from municipal operations. The program must prevent and/or reduce stormwater pollution from facilities such as streets, roads, highways, municipal parking lots, maintenance and storage yards, fleet or maintenance shops with outdoor storage areas, salt/sand storage locations and snow disposal areas operated by the permittee, and waste transfer stations, and from activities such as park and open space maintenance, fleet and building maintenance, street maintenance, new construction of municipal facilities, and stormwater system maintenance, as applicable.*

Program Objective

Implementing Pollution Prevention for Municipal Operations. A surprising number of municipal operations can affect water quality and quantity. These activities range from the storage and handling of harmful chemicals to the maintenance of municipal properties, vehicles, roads, and storm sewer systems. Activities such as integrated pest management, water conservation, recycling, and education programs can prove to be very effective in addressing these pollutant sources.

The WASH Program provides an education and certification program through the Boulder County Partners for a Clean Environment (PACE) Program for municipal operations.

2005 Accomplishments

PRIORITY ONE ACTIVITIES

Partners for a Clean Environment (PACE) Municipal Program

2005 Measurable Goal outlined in the WASH PLAN states – Municipal operations good housekeeping and pollution prevention program will continue annual inspection program for 2/3 of municipal operations. Training to continue.

The WASH Partners contracted with the Partners for a Clean Environment (PACE) Program to develop a certification program for municipal operations. The following outlines a summary of activities completed in 2005. The complete PACE Annual Report is available online at www.pacepartners.com.

PACE: Tier 1 Municipal Facility Certification

Tier 1 facilities are those facilities identified by PACE to have the highest impact on stormwater including: **fleet, street, and storm drainage maintenance, and parks/golf courses**. In 2003 and 2004, PACE visited all Tier 1 facilities in each of the WASH Partner communities. These site visits provided one-on-one assistance to identify appropriate pollution prevention practices and identify areas for improvement. A “certification” program was developed to recognize the operations implementing pollution prevention or stormwater BMPs.

In 2005, the Tier 1 Facility Certification Program continued, conducting over 20 site visits. Facilities that had not yet fully implemented pollution prevention measures were asked to submit a

certification plan. PACE reviewed 42 certification plans, and of those, 23 facilities became certified in 2005.

The remaining facilities lacked funding or other resources to implement their certification plan in 2005. Full implementation is expected in 2006 or by the end of 2007. The following table outlines the status of certified Tier 1 Facilities in each of the WASH communities.

PACE Certification: Tier 1 Municipal Facilities

WASH Partner	Percent of Tier 1 Facilities Certified
Boulder County	85%
Boulder	50%
Longmont	0%
Louisville	33%
Superior	100%
Erie	100%

PACE: Tier 2 Municipal Operation Outreach

Tier 2 sources were identified by PACE as the operations with the next highest potential to pollute stormwater that were not designated as Tier 1 operations. These facilities include, **fire departments, building and facilities maintenance, recreation centers, swimming pools, and solid waste transfer/recycling centers.**

In 2005, PACE developed stormwater pollution prevention practices for these operations. These practices were developed using information from over 60 employees and managers in six focus group meetings.

Municipal operations included in PACE’s Tier 2 approach often include a large number of buildings and facilities – making it impractical to conduct individual site visits. In addition, one manager generally oversees numerous Tier 2 operations. Therefore, PACE determined that the most effective and efficient approach for the Tier 2 operation would be to provide pollution prevention training to the managers. Rather than a PACE “certification program” for Tier 2 operations, managers will be asked to meet industry specific criteria for the operations which they manage.

The table below summarizes the Tier 2 operation training and outreach efforts for each of the WASH communities.

**PACE: Tier 2 Municipal Operations Outreach
Summary of 2005 Activities**

WASH Partner	Facilities Maint. Managers and Number of Facilities Managed		Rec. Centers and Pools Visited	Fire Stations Visited	Transfer Centers Visited
Boulder County	4	19	0	0 ¹	3
Boulder	4	43+	1	3	0
Longmont	4	16	1	2	1
Louisville	3	5	1	2	1
Superior	4	5	1	1 ²	1
Erie	2	4	1	1 ³	1

NOTE: ¹ BCPOS completed in 2004, ² Cherryvale FPD; ³ Mountain View FPD

PACE: Other Activities

In addition to Tier 1 certification and Tier 2 outreach activities, PACE provided the following services in 2005.

- ◆ Conducted five study sessions
- ◆ Industry Stormwater Management for Golf Courses (GCSSA) Web cast Training
- ◆ Provided Municipal Separate Storm Sewer System (MS4) Web cast Training
- ◆ Conducted three site visits to airport managers
- ◆ Distributed an electronic “Stormwater Newsletter” which included pressure washing information for facility maintenance departments

2006 Goals

Tier 1 Facilities

- ◆ Continue to provide technical assistance to municipalities in meeting certification criteria.
- ◆ Conduct training sessions for new employees and refresher training for previously trained employees. Create a self-inspection checklist/database for Tier-1 managers and post on PACE website.
- ◆ Conduct workshop(s) for Tier 1 managers on compliance documentation and progress tracking.
- ◆ Continue data management efforts and enhancement.

Tier 2 Operations

- ◆ Conduct 8 to 10 stormwater training sessions for management and other “second level” staff.
- ◆ Distribute quarterly newsletter highlighting innovations and accomplishments.
- ◆ Solicit feedback on what additional resources are needed.
- ◆ Conduct outreach to emergency response personnel.

Other

- ◆ Conduct training on post-construction BMPs (for all WASH municipalities).
- ◆ Evaluate overlap of stormwater with other water quality regulations (e.g. Minimal Industrial Discharge [MINDI] Permit).

Program Element Changes

None

Budget

Proposed: \$79,067

Actual: \$72,854.68

Unexpended Funds: \$6,212.32

Savings are due to not expending all funds allocated for municipal outreach.

Members of Workgroup

Ken Mason, City of Louisville

David Hollingsworth, City of Longmont

Donna Scott, City of Boulder

2005

**Municipal Stormwater Discharge Permit
Annual Report Table**

The following are the 2005 permit activities
for the Six Minimum Control Measures
submitted
to the State Water Quality Control Division

MCM 1. Public Education and Outreach

GENERAL SUMMARY: The WASH Project contracts with the City of Boulder to provide programs required for MCM 1 and MCM 2, which included producing brochures, the water quality education program, and the WASH website.

Individual Partners were responsible for distributing brochures and directing their citizens to the WASH website.

1. IMPLEMENTATION STATUS OF PROGRAMS: The following table outlines the status of the measurable goals for this MCM.

2005 MCM 1 MEASURABLE GOALS	2005 STATUS <i>Completion Date: December 31, 2005</i>	Changes Proposed?
<p>Brochures or fact sheets - will be developed for targeted activities as necessary. The remaining 20% of brochures equivalent to the number of households in each Partner's permitted area will be produced. Each WASH Partner is responsible for distributing the materials by 12/31/05.</p>	<p><u>WASH ACTIVITIES</u></p> <p>The WASH <i>After the Storm</i> brochure was created in 2003 for general public audiences and includes information on the impacts of illicit discharges and other water quality issues.</p> <p>In 2005, the <i>After the Storm</i> brochure was revised to include 'Keep it Clean' campaign images and the amount of text was reduced.</p> <p>Distribution of the <i>After the Storm</i> brochure in Spanish continued in 2005.</p> <p>A total of 41,691 Spanish and English language brochures were distributed in 2005 throughout WASH communities at school, community, business outreach, and residential direct-mail programs.</p> <p>In addition, WASH participated in a partnership project with Boulder County Ecocycle. Through this partnership, WASH distributed 41,500 'Keep it Clean' newsletter inserts to Boulder County residents.</p> <p>The City of Boulder and Boulder County also continued to distribute the <i>H2oooh!</i> brochure created in 2004. A total of 2,648 of these brochures were distributed to WASH community residents in 2005.</p> <p>In total, WASH distributed 85,929 brochures and inserts in 2005.</p> <p>The 'Keep it Clean' brochure will be translated into Spanish and printed for Spanish speaking audiences.</p>	<p>No</p>

2005 MCM 1 MEASURABLE GOALS	2005 STATUS <i>Completion Date: December 31, 2005</i>				Changes Proposed?																																								
	<p><u>INDIVIDUAL ACTIVITIES</u></p> <p>The total number of brochures distributed since the 2003 and in 2005 are listed below:</p> <table border="1" data-bbox="448 443 1208 877"> <thead> <tr> <th>Partner</th> <th>Number of House-holds</th> <th>Number Distributed by Partners in 2003-2004</th> <th>Number Distributed by Partners in 2005</th> <th>% Distributed to Date of Total House-holds</th> </tr> </thead> <tbody> <tr> <td>Boulder County</td> <td>8,900</td> <td>7,700</td> <td>38,906</td> <td>524</td> </tr> <tr> <td>Boulder</td> <td>39,596</td> <td>64,833</td> <td>31,513</td> <td>243</td> </tr> <tr> <td>Longmont</td> <td>26,667</td> <td>22,350</td> <td>8,162</td> <td>114</td> </tr> <tr> <td>Louisville</td> <td>7,216</td> <td>8,114</td> <td>916</td> <td>125</td> </tr> <tr> <td>Superior</td> <td>4,500</td> <td>4,800</td> <td>532</td> <td>118</td> </tr> <tr> <td>Erie</td> <td>3,750</td> <td>4,000</td> <td>5,900</td> <td>264</td> </tr> <tr> <td>TOTAL</td> <td>90,629</td> <td>111,797</td> <td>85,929</td> <td>218</td> </tr> </tbody> </table> <p>General Community Outreach in 2005:</p> <ul style="list-style-type: none"> ◆ Appeared as the H₂O Jo mascot at 17 community events in the WASH communities and an additional 10 events throughout the state of Colorado. ◆ Distributed campaign materials as take-home components to the <i>Get to Know Your H₂O School and Community Education</i> programs; 962 sticky note pads; 3,775 magnets; 5,390 tattoos; 7,490 stickers; and 757 <i>Adventures of H₂O Jo and Flo</i> activity book. ◆ Distributed stormwater and water pollution prevention information through a 'Keep it Clean' Pollution Prevention tip to all Boulder County and City of Boulder employees in September 2005. ◆ Produced a six-minute video of H₂O Jo falling from the sky and encountering urban pollution sources during his journey down a street to the storm drain. 				Partner	Number of House-holds	Number Distributed by Partners in 2003-2004	Number Distributed by Partners in 2005	% Distributed to Date of Total House-holds	Boulder County	8,900	7,700	38,906	524	Boulder	39,596	64,833	31,513	243	Longmont	26,667	22,350	8,162	114	Louisville	7,216	8,114	916	125	Superior	4,500	4,800	532	118	Erie	3,750	4,000	5,900	264	TOTAL	90,629	111,797	85,929	218	
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2005 MCM 1 MEASURABLE GOALS	2005 STATUS <i>Completion Date: December 31, 2005</i>	Changes Proposed?									
<p>Water Quality Curriculum—continue to distribute curriculum to Boulder Valley School District (BVSD) and St. Vrain Valley School District (SVVSD) by 12/31/05.</p>	<p><u>WASH PROGRAMS</u></p> <p><u>Watershed Curriculum Guide Update:</u> In 2005, the Watershed Resource Guide was updated to include the most current and useful information for both the Boulder Creek and St. Vrain Creek Watersheds. This guide is used as the basis for the annual two-day Watershed training for 6th-12th grade science teachers.</p> <p><u>Teacher Training:</u> Trainings were made available to all BVSD and SVVSD 4th - 5th grade teachers and all 6th -12th grade science teachers. This year, 13 classroom teachers, 1 naturalist, and 1 environmental educator attended in August 2005. These educators will reach over 1,140 students in the 2005-2006 school year.</p> <p><u>School-Based Programs:</u></p> <ul style="list-style-type: none"> ◆ Conducted 135 stormwater education programs reaching a total of 4,707 BVSD and SVVSD students. ◆ Loaned equipment to 14 teachers wishing to teach programs in their own classroom reaching 611 students in BVSD and SVVSD classrooms. ◆ Partnered again with the <i>Daily Camera</i> newspaper to create the “Get to Know Your H₂O” educational insert. The 16-page insert featured H₂O Jo and Flo and a series of water protection and conservation activities. Approximately 2,000 papers were distributed to 66 schools in the two school districts, and the remaining 1,000 papers have been and continue to be distributed to groups through the WASH education program. 	<p>No</p>									
<p>Website - stormwater information will continue to be posted on the WASH web site by 12/31/05.</p>	<p><u>WASH PROGRAMS</u></p> <p>In 2005, the website was revamped to include ‘Keep it Clean’ campaign graphics. Background information on the WASH Project, including the six MCMs, along with specific information promoting the stormwater education program, storm drain stenciling program, training opportunities, informational brochures, and annual reports are provided on the BASIN web site (www.BASIN.org/WASH). This web site is updated frequently to include the most current WASH Project information.</p> <p>WASH realized an increase in web visitors in 2005 from 2004.</p> <table border="1" data-bbox="459 1682 1206 1860"> <thead> <tr> <th>Year</th> <th>Average Monthly Requests</th> <th>Average Monthly Distinct Hosts Served</th> </tr> </thead> <tbody> <tr> <td>2004</td> <td>1,587</td> <td>703</td> </tr> <tr> <td>2005</td> <td>3,363</td> <td>859</td> </tr> </tbody> </table>	Year	Average Monthly Requests	Average Monthly Distinct Hosts Served	2004	1,587	703	2005	3,363	859	<p>No</p>
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2005 MCM 1 MEASURABLE GOALS	2005 STATUS <i>Completion Date: December 31, 2005</i>	Changes Proposed?
	<p><u>INDIVIDUAL PROGRAMS</u> Each Partner references the WASH website on their own communities' websites as listed below: Boulder County: www.bouldercountywater.org Boulder: www.boulderutilities.net Longmont: www.ci.longmont.co.us Louisville: www.ci.louisville.co.us Superior: www.townofsuperior.com Erie: www.ci.erie.co.us</p>	

- 2. **RESULTS OF INFORMATION COLLECTED:** No data required.
- 3. **INSPECTION AND ENFORCEMENT:** Not applicable for this MCM.
- 4. **PROPOSED CHANGES:** None
- 5. **ACTIVITIES FOR NEXT REPORTING CYCLE:** In accordance with the permit application, the planned stormwater activities for 2006 are as listed below.

Brochure or fact sheets: will be developed for targeted activities as necessary by 12/31/06.
Water Quality Curriculum: continue outreach to both BVSD and SVVSD by 12/31/06.
Web Site: information will continue to be posted on the WASH website by 12/31/06.

- 6. **NOTICE OF PROGRAM ELEMENT OPERATION BY A SECOND PARTY:** Per the original applications, the WASH Project is performing the Shared and Common Programs for public education and outreach.

MCM 2. Public Participation and Involvement

GENERAL SUMMARY: The WASH Project contracted with the City of Boulder’s Stormwater Education Program to develop programs for MCM 2, which included the annual public meeting presentation and the storm drain stenciling program.

Individual Partners were responsible for scheduling and hosting an annual public meeting in each of their communities. In addition, communities were responsible for ensuring that a minimum of 5% of their storm drains were stenciled.

1. IMPLEMENTATION STATUS OF PROGRAMS: The following table outlines the status of the measurable goals for this MCM.

2005 MCM 2 MEASURABLE GOALS	2005 STATUS <i>Completion Date: December 31, 2005</i>	Changes Proposed?																																																
<p>Annual Public Meetings - will be conducted in all Partner communities by 12/31/05. An alternative annual meeting format will be developed. This may include special events, presentation of WASH Program updates to councils, commissioners, citizen advisory boards, and/or public forums; distribution of feedback forms; or other means to solicit public input into the WASH and individual Partner community stormwater programs.</p>	<p><u>WASH PROGRAMS</u> Utilizing graphics and messages created for the ‘Keep it Clean’ water quality campaign the ‘Keep it Clean’ outreach booth was developed. It includes hands-on, portable, engaging activities that serve as tools for community members to learn about non-point source pollution and recognize how their behaviors can affect our water quality.</p> <p>A total of 2,189 people visited the WASH event booth in 2005.</p> <p><u>INDIVIDUAL PROGRAMS</u> The WASH communities’ festivals or special events are as follows:</p> <table border="1" data-bbox="467 1224 1203 1728"> <thead> <tr> <th>Partner</th> <th>Date of Meeting</th> <th>Meeting Description</th> <th>Number of Visitors</th> </tr> </thead> <tbody> <tr> <td>Boulder County</td> <td>7/30/ 2005 & 8/3/2005</td> <td>Boulder County Fair</td> <td>150</td> </tr> <tr> <td>Boulder</td> <td>9/25/2005</td> <td>Fall Festival</td> <td>127</td> </tr> <tr> <td></td> <td>11/28/2005</td> <td>City Water Board</td> <td>50</td> </tr> <tr> <td></td> <td>8/12/2005</td> <td>CU RA Resource Fair</td> <td>165</td> </tr> <tr> <td></td> <td>8/10/2005</td> <td>Farmer's Market</td> <td>500</td> </tr> <tr> <td></td> <td>9/5/2005</td> <td>Boulder Race Series</td> <td>100</td> </tr> <tr> <td></td> <td>12/3/2005</td> <td>Parade of Lights</td> <td>2000</td> </tr> <tr> <td>Longmont</td> <td>7/9/2005</td> <td>Rhythm on the River</td> <td>444</td> </tr> <tr> <td>Louisville</td> <td>6/11/2005</td> <td>Taste of Louisville</td> <td>560</td> </tr> <tr> <td>Superior</td> <td>9/10/2005</td> <td>Chili Cook-off</td> <td>158</td> </tr> <tr> <td>Erie</td> <td>5/21/2005</td> <td>Erie Town Fair</td> <td>700</td> </tr> </tbody> </table>	Partner	Date of Meeting	Meeting Description	Number of Visitors	Boulder County	7/30/ 2005 & 8/3/2005	Boulder County Fair	150	Boulder	9/25/2005	Fall Festival	127		11/28/2005	City Water Board	50		8/12/2005	CU RA Resource Fair	165		8/10/2005	Farmer's Market	500		9/5/2005	Boulder Race Series	100		12/3/2005	Parade of Lights	2000	Longmont	7/9/2005	Rhythm on the River	444	Louisville	6/11/2005	Taste of Louisville	560	Superior	9/10/2005	Chili Cook-off	158	Erie	5/21/2005	Erie Town Fair	700	<p>No</p>
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<p>Storm Drain Stenciling Program will continue with target of 5% of storm drains by 12/31/05.</p>	<p>WASH PROGRAMS</p> <p>Storm Drain Stenciling Program: WASH education staff provided stormwater education programs and facilitated storm drain stenciling activities with over 347 youth and citizens in WASH communities.</p> <p>In 2005, WASH education staff continued to use curb markers and spray paint and stencils marking 815 storm drains.</p> <p>The Storm Drain Marking Program volunteers distributed 2,174 fish door hangers as part of the marking program in neighborhoods in 2005. The brightly colored, fish-shaped door hangers, available in both English and Spanish, inform residents about the storm drain marking program and provide tips on ways to protect and conserve local waters. The door hanger also lists the BASIN.org/WASH web site and the spill report line, 303-441-4444.</p> <p>INDIVIDUAL PROGRAMS</p> <p>All of the Partners exceeded the goal of stenciling 5% of their storm drains in 2005.</p> <table border="1" data-bbox="467 1031 1195 1373"> <thead> <tr> <th>Partner</th> <th>Total Storm Drains</th> <th>2003</th> <th>2004</th> <th>2005</th> <th>Percent of Total in 2005</th> <th>Percent of Total</th> </tr> </thead> <tbody> <tr> <td>Boulder County</td> <td>225</td> <td>82</td> <td>40</td> <td>31</td> <td>13.8</td> <td>68</td> </tr> <tr> <td>Boulder</td> <td>4,180</td> <td>209</td> <td>439</td> <td>402</td> <td>9.6</td> <td>21</td> </tr> <tr> <td>Longmont</td> <td>1,820</td> <td>99</td> <td>95</td> <td>115</td> <td>6.3</td> <td>17</td> </tr> <tr> <td>Louisville</td> <td>600</td> <td>43</td> <td>137</td> <td>31</td> <td>5.2</td> <td>35</td> </tr> <tr> <td>Superior</td> <td>300</td> <td>22</td> <td>20</td> <td>74</td> <td>24.7</td> <td>38</td> </tr> <tr> <td>Erie</td> <td>320</td> <td>62</td> <td>17</td> <td>162</td> <td>51</td> <td>75</td> </tr> <tr> <td>Total</td> <td>7,445</td> <td>517</td> <td>748</td> <td>815</td> <td>11</td> <td>28</td> </tr> </tbody> </table>	Partner	Total Storm Drains	2003	2004	2005	Percent of Total in 2005	Percent of Total	Boulder County	225	82	40	31	13.8	68	Boulder	4,180	209	439	402	9.6	21	Longmont	1,820	99	95	115	6.3	17	Louisville	600	43	137	31	5.2	35	Superior	300	22	20	74	24.7	38	Erie	320	62	17	162	51	75	Total	7,445	517	748	815	11	28	<p>No</p>
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2. **RESULTS OF INFORMATION COLLECTED:** No data required.
3. **INSPECTION AND ENFORCEMENT:** Not applicable for this MCM.
4. **PROPOSED CHANGES:** None
5. **ACTIVITIES FOR NEXT REPORTING CYCLE:** In accordance with the permit application, the planned stormwater activities for 2006 are as listed below.

Annual public meetings will be conducted in all Partner communities by 12/31/06. An alternative annual meeting format will be developed. This may include special events; presentation of WASH Program updates to councils, commissioners, citizen advisory boards, and/or public forums; distribution of feedback forms; or other means to solicit public input into the WASH and individual Partner community stormwater programs.

Storm Drain Stenciling Program will continue with target of 5% of storm drains by 12/31/06.

6. **NOTICE OF PROGRAM ELEMENT OPERATION BY A SECOND PARTY:** Per the original applications, the WASH Project is performing the shared and common programs for public participation and involvement.

MCM 3. Illicit Discharge Detection and Elimination

GENERAL SUMMARY: The WASH Partners have all adopted their illicit discharge Ordinances and have written Illicit Discharge Detection and Elimination Plans.

The WASH Project contracts with the Boulder County Partners for a Clean Environment (PACE) Program to provide stormwater pollution prevention materials to commercial businesses identified as potential significant contributors of pollutants to the MS4 (this was done in conjunction with MCM 1). These businesses include restaurants and vehicle service facilities.

Individual Partners were responsible for the mapping of their MS4s' outfalls.

1. IMPLEMENTATION STATUS OF PROGRAMS: The following table outlines the status of the measurable goals for this MCM.

2005 MCM 3 MEASURABLE GOALS	2005 STATUS <i>Completion Date: December 31, 2005</i>	Changes Proposed?
<p>MS4 Mapping - MS4 system mapping completed and updated by 12/31/05.</p>	<p><u>INDIVIDUAL PROGRAMS</u> Mapping of MS4 outfalls is the responsibility of the individual Partners. The status of this mapping is as follows: Boulder County: updating outfall mapping in Transportation Boulder: updating outfall mapping in Public Works Longmont: updating outfall mapping in Public Works Louisville: updating outfall mapping in Public Works Superior: updating outfall mapping in Public Works Erie: updating outfall mapping in Public Works</p>	<p>No</p>
<p>Legal Prohibition and Enforcement- illicit discharge hotline and tracking system defined by 12/31/05.</p>	<p><u>WASH PROGRAMS</u> The Boulder County Communications number 303-441-4444 was identified as the WASH Partner hotline. The website www.BASIN.org hosts the WASH spill response and tracking system. <u>INDIVIDUAL PROGRAMS</u> Individual Partners adopted their illicit discharge regulatory mechanisms: Boulder County: Ordinance was adopted on September 13, 2005. Boulder: Ordinance approved December 6, 2004. Longmont: Ordinance approved January 12, 2005. Louisville: Ordinance approved December 21, 2004. Superior: Ordinance approved December 13, 2004. Erie: Ordinance approved November 9, 2004.</p>	<p>No</p>

2005 MCM 3 MEASURABLE GOALS	2005 STATUS <i>Completion Date: December 31, 2005</i>	Changes Proposed?
<p>Business Education Program- component development completed and implementation continued by 12/31/05.</p>	<p><u>WASH PROGRAMS</u></p> <p>PACE evaluated stormwater pollution prevention criteria and provided information during site visits to 199 restaurant facilities and 128 vehicle service facilities.</p> <p>PACE visited and distributed outreach materials for both the owners and customers to all the do-it-yourself auto part (8) and rental stores (6) identified in the Partners' permitted areas.</p> <p>PACE sent outreach materials to 300 commercial facility managers and met with 30.</p> <p>PACE drafted and distributed a pressure-washing brochure to restaurants, pressure washers, and facility managers operating in the Partners' permitted areas.</p> <p>PACE sent a letter targeting power-washing activities at fast-food restaurants to 27 corporate headquarters.</p> <p>WASH, for the second time, mailed letters outlining stormwater pollution prevention, specifically guidelines on pressure washing, to all 1,200 restaurants identified in the Partners' permitted areas.</p> <p>WASH produced and is distributing a brochure through building departments, which outlines stormwater pollution prevention for building sites under an acre.</p> <p><u>INDIVIDUAL PROGRAMS</u></p> <p>The following facilities visited in each of the Partner's communities:</p> <p>Boulder County: 16 restaurants, 1 vehicle service facility</p> <p>Boulder: 86 restaurants, 65 vehicle service facilities</p> <p>Longmont: 95 restaurants, 21 vehicle service facilities</p> <p>Louisville: 8 restaurants, 6 vehicle service facilities</p> <p>Superior: 8 restaurants, 1 vehicle service facility</p> <p>Erie: 3 restaurants, 2 vehicle service facilities</p>	<p>No</p>

2005 MCM 3 MEASURABLE GOALS	2005 STATUS <i>Completion Date: December 31, 2005</i>	Changes Proposed?																					
<p>Illicit Discharge Detection Plan: Initiate implementation of illicit discharge detection plan by 12/31/05. Training of public employees by PACE (as part of the pollution prevention and good housekeeping program).</p>	<p><u>WASH PROGRAMS</u> The WASH model for the Illicit Discharge Detection and Elimination Plan was drafted and distributed to the Partners in November 2004.</p> <p><u>INDIVIDUAL PROGRAMS</u> Each Partner has modified the Illicit Discharge Detection and Elimination Plan model for their communities and is initiating implementation of the plans.</p> <p>Illicit discharge detection was incorporated into the general PACE municipal employee trainings. Training, specific to IDDE, was given to the Partners' front line staff and management throughout 2005. See the following table:</p> <table border="1" data-bbox="483 867 1187 1144"> <thead> <tr> <th>WASH Partner</th> <th>Date</th> <th>Number of Attendees</th> </tr> </thead> <tbody> <tr> <td>Boulder County</td> <td>4/7 & 5/10/05</td> <td>16</td> </tr> <tr> <td>Boulder</td> <td>4/21/05</td> <td>5</td> </tr> <tr> <td>Longmont</td> <td>12/8/05</td> <td>35</td> </tr> <tr> <td>Louisville</td> <td>2/29/05</td> <td>25</td> </tr> <tr> <td>Erie</td> <td>5/24/05</td> <td>24</td> </tr> <tr> <td>Superior</td> <td>5/25/05</td> <td>10</td> </tr> </tbody> </table>	WASH Partner	Date	Number of Attendees	Boulder County	4/7 & 5/10/05	16	Boulder	4/21/05	5	Longmont	12/8/05	35	Louisville	2/29/05	25	Erie	5/24/05	24	Superior	5/25/05	10	
WASH Partner	Date	Number of Attendees																					
Boulder County	4/7 & 5/10/05	16																					
Boulder	4/21/05	5																					
Longmont	12/8/05	35																					
Louisville	2/29/05	25																					
Erie	5/24/05	24																					
Superior	5/25/05	10																					

2. **RESULTS OF INFORMATION COLLECTED:** No data required.

3. **INSPECTION AND ENFORCEMENT:**

WASH Partner	Number of Responses*	Enforcement Actions
Boulder County	0**	0
Boulder	27 + 106	5 verbal, 3 NOV
Longmont	11	3 NOV
Louisville	7 + 12	4 verbal, 2-NOV
Erie	2	0
Superior	1 + 3	3 verbal

* The first number is from the BASIN database; the second number is either fire department responses or individual tracking.

** Though Boulder County participated in several responses the incidents were in other jurisdictions.

4. **PROPOSED CHANGES:** None.

5. **ACTIVITIES FOR NEXT REPORTING CYCLE:** Per the permit application, the planned stormwater activities for 2006 are as listed below.

MS4 Mapping: MS4 system mapping updated by 12/31/06.
Legal Prohibition and Enforcement: Illicit discharge hotline and database implemented by 12/31/06.
Business Education Program: Implementation continued by 12/31/06.
Illicit Discharge Detection Plan: Continue implementation of Illicit Discharge Detection Plan by 12/31/06.

6. NOTICE OF PROGRAM ELEMENT OPERATION BY A SECOND PARTY: In accordance with the original applications, the WASH Project is performing the shared and common programs for illicit discharge detection and elimination.

MCM 4. Construction Site Stormwater Runoff Control

GENERAL SUMMARY: The WASH Partners developed a model construction and post-construction ordinance in 2003. In 2004 and 2005, the ordinance language was adapted by the individual Partners' attorneys and adopted by their councils and boards. Standard operating procedures were developed and implementation began in 2005.

1. IMPLEMENTATION STATUS OF PROGRAMS: The following table outlines the status of the measurable goals for this MCM.

2005 MCM 3 MEASURABLE GOALS	2005 STATUS <i>Completion Date: December 31, 2005</i>	Changes Proposed?
Erosion Control Ordinance -	<p><u>INDIVIDUAL PROGRAMS</u> Individual Partners adopted their construction and post-construction regulatory mechanisms: Boulder County: Land Use Code adopted August 11, 2005. Boulder: Ordinance approved December 6, 2004. Longmont: Ordinance approved January 12, 2005. Louisville: Ordinance approved December 21, 2004. Superior: Ordinance approved December 13, 2004. Erie: Ordinance approved November 9, 2004.</p>	No
Erosion Control Standard Operating Procedures- Individual communities implement plan review and approval and inspection procedures by 12/31/05.	<p><u>WASH PROGRAMS</u> A model was developed and approved by the WASH Partners for construction and post-construction standard operating procedures (SOP) outlining requirements for erosion control plans on May 24, 2004.</p> <p><u>INDIVIDUAL PROGRAMS</u> Boulder County: In December of 2005, Boulder County requested deferment of SOP implementation until June 2006. Boulder: SOPs drafted and implemented. Longmont: SOPs drafted and implemented. Louisville: SOPs drafted and implemented. Superior: SOPs drafted and implemented. Erie: SOPs drafted and implemented.</p>	
Public Input- Individual communities develop public concerns tracking system by 12/31/05.	<p><u>INDIVIDUAL PROGRAMS</u> Boulder County: In December 2005, Boulder County requested deferment of tracking system implementation until June 2006. Boulder: Tracking system resides in Landlink, a development database, on city network. Longmont: Tracking system resides in Customer Request Tracking System (CRTS) on city network. Louisville: Tracking system resides in Public Works. Superior: Tracking system resides in Public Works. Erie: Tracking system resides in Public Works.</p>	

2. RESULTS OF INFORMATION COLLECTED: No data required.

3. INSPECTION AND ENFORCEMENT:

Although not required in 2005, inspection and enforcement activities have been initiated in anticipation of the 2006 measurable goal.

WASH Partner	Number of Active Construction Sites Over an Acre	Number of Inspections	Enforcement Actions
Boulder County	NA	NA	NA
Boulder	10	51	39 verbal
Longmont	44	38	0
Louisville	10	96	3
Erie	19	Continuous	Multiple verbal warnings, no enforcement required
Superior	1	8	3

4. PROPOSED CHANGES TO PROGRAM AREA: None.

5. ACTIVITIES FOR NEXT REPORTING CYCLE: In accordance with the permit application, the planned stormwater activities for 2006 are as listed below.

Erosion Control Standard Operating Procedures: Individual communities implement enforcement procedures by 12/31/06.
Training and Education for Construction Site Operators and Inspectors: Implement WASH contractor training program by 12/31/06.
Public Input: Individual communities implement public response tracking system by 12/31/06.

6. NOTICE OF PROGRAM ELEMENT OPERATION BY A SECOND PARTY: In accordance with the original applications, the WASH Project is performing the shared and common programs for construction site stormwater runoff control.

MCM 5. Post-Construction Stormwater Management

GENERAL SUMMARY: The WASH Partners developed a model construction and post-construction ordinance in 2003. In 2004 and 2005, the ordinance language was adapted by the individual Partners' attorneys and adopted by their councils and boards. Standard operating procedures (SOPs) were developed and implementation began in 2005.

1. IMPLEMENTATION STATUS OF PROGRAMS: The following table outlines the status of the measurable goals for this MCM.

2005 MCM 5 MEASURABLE GOALS	2005 STATUS <i>Completion Date: December 31, 2005</i>	Changes Proposed?
Post-Construction Ordinance	<p><u>INDIVIDUAL PROGRAMS</u> Individual Partners adopted their construction and post-construction regulatory mechanisms: Boulder County: Land Use Code adopted August 11, 2005. Boulder: Ordinance approved December 6, 2004. Longmont: Ordinance approved January 12, 2005. Louisville: Ordinance approved December 21, 2004. Superior: Ordinance approved December 13, 2004. Erie: Ordinance approved November 9, 2004.</p>	No
Development Review - Post-construction ordinance will include reference to UDFCD Manual, Vol. 3. Individual communities approve best management practices (BMP) selection guidance appropriate for each community by 12/31/05.	<p><u>WASH PROGRAMS</u> A model was developed and approved by the WASH Partners for construction and post-construction standard operating procedures outlining requirements for erosion control plans on May 24, 2004.</p> <p><u>INDIVIDUAL PROGRAMS</u> Boulder County: In December 2005, Boulder County requested deferment of SOP implementation until June 2006. Boulder: BMP selection guidance approved. Longmont: BMP selection guidance approved. Louisville: BMP selection guidance approved. Superior: BMP selection guidance approved. Erie: BMP selection guidance approved.</p>	No
Design Criteria and Standards - Individual communities approve SOPs for site plan review and inspection by 12/31/05.	<p><u>WASH PROGRAMS</u> A model was developed and approved by the WASH Partners for construction and post-construction standard operating procedures outlining requirements for erosion control plans procedures, including BMP selection guidance on May 24, 2004.</p> <p><u>INDIVIDUAL PROGRAMS</u> Boulder County: In December 2005, Boulder County requested deferment of SOP approval until June 2006. Boulder: SOPs approved. Longmont: SOPs approved.</p>	No

	Louisville: SOPs approved. Superior: SOPs approved. Erie: SOPs approved.	
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2. **RESULTS OF INFORMATION COLLECTED:** No data required.
3. **INSPECTION AND ENFORCEMENT:** Although not required in 2005, inspection and enforcement activities have been initiated in anticipation of the 2006 measurable goal.

WASH Partner	Number of Approved Post-Construction BMPs since Adoption of Ordinance	Number of Inspections of Post-Construction BMPs	Enforcement Actions	Comments
Boulder County	NA	NA	NA	
Boulder	0	0	0	Inventoried 489 existing
Longmont	14	14	0	
Louisville	0	6	0	
Erie	4	0	0	
Superior	0	0	0	

4. **PROPOSED CHANGES TO PROGRAM AREA:** None.
5. **ACTIVITIES FOR NEXT REPORTING CYCLE:** In accordance with the permit application, the planned stormwater activities for 2006 are as listed below.

Development Review: Implement SOPs for site plan review by 12/31/06.
Design Criteria and Standards: Individual communities implement monitoring and inspection procedures of construction of BMPs and post-construction maintenance by 12/31/06.

6. **NOTICE OF PROGRAM ELEMENT OPERATION BY A SECOND PARTY:** In accordance with the original applications, the WASH Project is performing the shared and common programs for post-construction stormwater management.

MCM 6. Pollution Prevention and Good Housekeeping for Municipal Operations

GENERAL SUMMARY: The WASH Project contracts with the Boulder County Partners for a Clean Environment (PACE) Program to develop an outreach program for municipal operations.

1. IMPLEMENTATION STATUS OF PROGRAMS: The following table outlines the status of the measurable goals for this MCM.

2005 MCM 6 MEASURABLE GOALS	2005 STATUS <i>Completion Date: December 31, 2005</i>	Changes Proposed?
<p>PACE – Municipal Program - Annual inspection program continues for 2/3 of municipal operations by 12/31/05. Training to continue.</p>	<p><u>WASH PROGRAMS</u> PACE developed stormwater pollution prevention certification criteria in 2003. Criteria include implementation of both structural and non-structural best management practices (BMPs) for various municipal operations. The municipal operations were then categorized into two tiers, based on an operation’s potential stormwater pollution threat.</p> <p>Tier 1 Facilities (fleet, street, and storm drainage maintenance, and parks/golf courses) have been provided with a stormwater pollution prevention binder containing the applicable BMPs, WASH/PACE criteria, a model spill response plan, and a training log.</p> <p>The Tier 1 facilities have received letters identifying the activities, which met certification criteria and a list of deficiencies. In December 2004, each Partner was notified of certification status of their Tier 1 facilities and were asked to submit a plan by April 2005 that outlined the steps to resolve any deficiencies.</p> <ul style="list-style-type: none"> ◆ PACE reviewed 42 certification plans for Tier 1 operations and worked with 23 Tier 1 operations to become certified in 2005. <p>Tier 2 Operations (fire departments, building and facilities maintenance, recreation centers, swimming pools, and solid waste transfer/recycling centers) were identified by PACE as the facilities or operations with the next highest potential to pollute stormwater that were not designated as “Tier 1” facilities.</p> <ul style="list-style-type: none"> ◆ Met with 21 facility managers who oversee 92+ facilities ◆ Met with 26 metro fire chiefs ◆ Met with 38 facility and recreation maintenance employees ◆ Developed criteria for: 	<p>Yes- see Change 1 in Item 4</p>

- Facilities maintenance (includes rec centers and pools)
- Fire departments
- Waste transfer and recycling centers

Tier 1 and Tier 2

At the end of 2005, 100% of the WASH Partner Tier 1 and Tier 2 operations have been visited and their operations inspected/evaluated and BMPs written and distributed.

- ◆ Distributed 48 municipal training videos.

INDIVIDUAL PROGRAMS

Tier 1

Individual Partners were responsible for working with PACE staff to ensure the PACE inspection and certification process would be implemented. The following percentage of municipal operations were certified in 2005:

Boulder County: 11/13 or 85% certified

Boulder: 5/10 or 50% certified

Longmont: 0/8 or 0% certified

Louisville: 2/6 or 33% certified

Superior: 2/2 or 100% certified

Erie: 3/3 or 100% certified

PACE visited several Tier 1 Facilities in 2005:

WASH Partner	Number of Tier 1 Facilities visited
Boulder County	8
Boulder	7
Longmont	2
Louisville	3
Superior	0
Erie	3

Tier 2

PACE met with the facility managers and visited facilities in each WASH Partner community:

WASH Partner	Facilities Maint. Managers and Number of Facilities Managed		Rec. and Pools Visited	Fire Stations Visited	Transfer Centers Visited
Boulder County	4	19	0	0	3
Boulder	4	43+	1	3	0
Longmont	4	16	1	2	1
Louisville	3	5	1	2	1
Superior	4	5	1	1	1
Erie	2	4	1	1	1

2. **RESULTS OF INFORMATION COLLECTED:** No data required.
3. **INSPECTION AND ENFORCEMENT:** Not applicable for this MCM for 2005.
4. **PROPOSED CHANGES TO PROGRAM AREA:**

Change 1

- A) **MCM 6, Pollution Prevention and Good Housekeeping for Municipal Operations**
- B) **2006 measurable goal- PACE – Municipal Program** - PACE program certification of all municipal operations. Evaluate and recommend changes.

2007 measurable goal - PACE – Municipal Program - Implement recommended changes.

- C) BMPs are essentially the same, but their implementation is being clarified.
- D) Revised **2006 measurable goal** - Continue working toward *certification* of all Tier 1 facilities (vehicle, street, and storm drainage maintenance, and parks/golf courses). Continue training and outreach to all Tier 2 operations (facility maintenance, fire departments and waste transfer centers). Evaluate program and recommend changes.

Revised **2007 measurable goal** - The PACE Program will *certify* 100% of the Tier 1 facilities (storm drain maintenance, streets, fleets, parks and golf courses, streets). Conduct training and outreach to all Tier 2 operations (facility maintenance, fire departments and waste transfer centers). Implement recommended changes.

- E) The WASH Partners would like to clarify the approach that has been determined to be most effective to achieve oversight of the WASH Partner municipal operations. The PACE Program will continue to certify the Tier 1 municipal facilities (storm drain maintenance, streets, fleets, parks and golf courses, streets). The Tier 1 facilities tend to be fixed and can be evaluated. The Tier 2 operations (facility maintenance, fire departments and waste transfer centers (that do not hold a NPDES permit)) will be trained and BMP outreach conducted but certification of these operations will not be performed.

5. **ACTIVITIES FOR NEXT REPORTING CYCLE:** In accordance with the permit application, the planned stormwater activities for 2006 are as listed below.

PACE – Municipal Program: Continue working toward *certification* of all Tier 1 facilities (vehicle, street, and storm drainage maintenance, and parks/golf courses). Continue training and outreach to all Tier 2 operations (facility maintenance, fire departments and waste transfer centers). Evaluate program and recommend changes by 12/31/2006.

6. **NOTICE OF PROGRAM ELEMENT OPERATION BY A SECOND PARTY:** In accordance with the original applications, the WASH Project is performing the shared and common programs for pollution prevention and good housekeeping for municipal operations.

Project Working Agreement

WASH Project Partners Are:

- Dedicated to the stated goal and objectives of the project
- Active participants, attending meetings and voicing opinions equally
- Willing to share resources and data
- Clear about their agencies' needs and interest in participating in the project
- Completing the bulk of WASH Project work in subgroups

WASH Project Partners Will:

- Be prompt to meetings and participate to the highest level of their ability
- Maintain focus, prioritize all actions, and encourage involvement of all
- Understand that not all communities have the resources to attend every meeting
- Complete assigned tasks that are agreed upon in the group
- Stay informed about discussions and decisions that take place at WASH meetings in their absence

WASH Project Partners Are:

- Participating in good faith and working towards the identified common goal and objectives
- Committed to the protection of water quality within the Boulder Creek and St. Vrain River watersheds
- Committed to sharing information and resources with other WASH partners
- Committed to developing strategies and solution that benefit the general public and represent the shared goal and objectives of the WASH Project

WASH Project Decisions:

- Will be discussed in an organized manner and the process will be open to all
- Will be made by consensus, an approach to find an inclusive solution that everyone can support

WASH Project Partners:

- Understand compromise may be necessary to reach WASH common goals
- Show a commitment to mediate disagreement

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