LAKE COUNTY CLEAN WATER PROGRAM

Fiscal Year 2011/2012 Annual Report

September 15, 2012

Submitted in compliance with State Water Resources Control Board Water Quality Order No. 2003-0005-DWQ, NPDES General Permit No. CAS000004

County of Lake
City of Clearlake
City of Lakeport
Online Storm Water Issue Report Form

Reserved

Storm Water Program Awareness Survey

Reserved

Online Workgroup Activity Forms

Construction and Post Construction

City of Clearlake and City of Lakeport Resolutions on Adopting Rules and Regulations Establishing Performance Requirements and BMPs

County of Lake Resolution Establishing Performance Requirements and Adopting CASQA BMP Handbook; Resolution Establishing Post Construction Requirements for New Development and Significant Redevelopment; County Best Management Practices for Post Construction

Grading and Stormwater Permit and Permit Violation Tracking Log

Illicit Discharge Detection & Elimination

Street Sweeping Schedules

Reserved

County DPW Dead Animal and Appliance and Tire Removal Policies; DPW Resource Usage Report; Community Clean-up Fee Waiver

Sample of County MS4 Map
EXECUTIVE SUMMARY

BACKGROUND

The County of Lake, City of Lakeport and City of Clearlake have joined together as Co-permittees to form the Lake County Clean Water Program (Program). The Program’s Stormwater Management Plan (SWMP) is a joint project of these agencies. The Lake County Clean Water Program Stormwater Management Plan is structured to accomplish meeting the six minimum management measures through the following three step process:

1) Evaluation of existing activities and programs that may be used and/or revised to meet the Phase II requirements;
2) Revise and/or develop programs and activities as previously evaluated to meet the Phase II requirements;
3) Implement new and revised programs for compliance with the NPDES waste discharge requirements for storm water discharges from small municipal storm sewer systems.

In implementing the SWMP, efforts have been coordinated through the Lake County Community Development Department, acting as overall Stormwater Program Coordinator, on behalf of all Co-permittees. As Co-permittees to the Program, each agency has pursued its own local stormwater pollution prevention activities and also contributed support to the region-wide effort. Each Co-permittee is also responsible for implementing the required six minimum management measures within their municipality. In meeting the six minimum management measures, some BMPs are implemented on a region-wide basis, being jointly sponsored by all Co-permittees. Examples of region-wide efforts include public education and involvement efforts targeted to residents and businesses; development and implementation of training programs for developers, construction site operators and municipal staff; and coordinating with other countywide, regional, and state agencies.

PROGRAM EFFECTIVENESS AT REDUCING POLLUTANTS IN STORM WATER DISCHARGES FROM THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)

Program effectiveness at removing pollutants in stormwater discharges from the MS4 is generally unknown at this time. However, effectiveness measurements for each Program element will be developed and incorporated into tracking and reporting procedures as the remaining Program BMPs are completed. Co-permittees will be able to move forward with assessing program efforts and determining the effectiveness of reducing pollutants in stormwater discharges of the MS4s.

COMPLIANCE WITH THE STATE GENERAL PERMIT FOR STORM WATER DISCHARGES

The County of Lake, City of Clearlake and City of Lakeport received notification of permit coverage in July 2004. Therefore, FY 2011/2012 is the eighth reporting period for Co-permittees for implementation of the Countywide SWMP. Implementation of the SWMP is meant to be an iterative process that builds upon past accomplishments towards a fully functional SWMP at the end of the permit term. The co-permittees have worked diligently during the past year to comply with the State General Permit and Countywide SWMP, and have completed the remaining BMPs, while setting new goals for the 2012/13 Fiscal Year.

MOST SIGNIFICANT PROGRAM ACCOMPLISHMENTS TO DATE

- All co-permittees have designated a Stormwater Program Coordinator to provide the necessary support needed to implement the SWMP within their municipality and coordinate efforts with other Co-permittees and agencies.
Resolutions approving the adoption of the Lake County Clean Water Program Stormwater Management Plan have been approved by the County of Lake, City of Clearlake and City of Lakeport.

An Agreement Providing for Implementation of the Lake County Clean Water Program became effective in September 2004 with signatures by all co-permittees and the Lake County Watershed Protection District (formerly the Lake County Flood Control and Water Conservation District). This Agreement provides the necessary framework and management structure for co-permittees to implement the Lake County Clean Water Program through the Lake County Clean Water Program Advisory Council and Program working groups responsible for working on the required six minimum control measures (see Appendix 1-1 through 1-3). Although the Lake County Flood Control and Water Conservation District ended its involvement in the Program in 2008/09, the Program continues to be effective.

Each Co-permittee has adopted a storm water ordinance designed to give each the legal authority necessary to implement the program effectively.

The Program’s Advisory Council continues to meet regularly to maintain Program BMP’s. (See Appendix 3-1). The Advisory Council serves as the oversight and management entity of the Program and provides direction on policy and Program management.

The Workgroups have been combined into three workgroups (PIP & PEOP Workgroup; CON & PCON Workgroup; and the IDDE and MUNI Workgroup), and are meeting regularly.

The PIP & PEOP Workgroup has established a tracking system for all education and outreach activity by the co-permitees and designees.

The Program completed numerous public education and outreach materials (see Appendix 2 of FY 06/07 Annual Report), including the Program’s general storm water brochure that is designed to introduce the topic of storm water pollution and educate residents and businesses on the impacts of storm water on water quality and ways they can help prevent storm water pollution.

The City of Lakeport has stenciled more than 100 storm drains in FY 09-10. Lake County now requires all new storm drains to be stenciled.

The City of Clearlake purchased 100 permanent storm drain markers in 2008-09, and installed all of them in May 2010. In 2010-11 the City of Clearlake purchased and installed 10 Help Keep our Water Way signs marking the City’s major stream/creek crossings within the City of Clearlake. See appendix 2-3 for photos and description of work. This will eliminate or reduce the need to re-stencil its drainage inlets and catch basins. In 2010-11 the City of Clearlake purchased and installed 10 Help Keep our Water Way signs marking the City’s major stream/creek crossings within the City of Clearlake. See appendix 2-3 for photos and description of work.

In 2011-12 the City of Clearlake continued with its annual Spring Clean-Up Day, which occurred on April 28, 2012 this year. The City had approximately 140 volunteers this year and removed a total of 45 cubic yard of debris from City street rights of way. In addition as a part of the Spring Clean-Up Day Cal-Fire crews removed approximately 75 cubic yards of debris and green waste from Burns Valley Creek Watershed. See photos and Clearlake Observer newspaper article in appendix 2-1 under Public Outreach. In addition City of Clearlake Public Works crews removed approximately 200 cubic yards of silt/mud and other debris from drainage channels, catch basin, and street curb and gutters. See Appendix 6-3.

In August 2011 the City negotiated a new franchise agreement with Clear Lake Waste Solutions, our solid waste contract hauler in January 2010. The City of Clearlake was successful in negotiating street sweeping of the City’s arterials, and collector streets into the new contact. City arterial, collector streets will be swept with mechanical sweepers once per month and City Park areas will be
swept quarterly. The contract was executed in August 2011. The street sweeping program will begin in September 2011. See exhibit B showing the Streets and Parks to be included in the sweeping program and frequency in appendix .6-1 Between September 2011 and June 2012 the City’s contract sweeper with Clear Lake Waste Solutions, picked up 33.9 tons of dirt, leaves, and other debris from the City’s Arterials and Collector Streets and City Park parking lots.

- During 2011-12 the City initiated the preparation of an application for a Westside Integrated Regional Water Management (IRWM) Planning Grant. One of the propose outcomes of the proposed grant application if approved would be to conduct a thorough assessment of the watershed by developing a storm drain GIS mapping element to identify opportunities for LID treatment and improve storm water (BMP’s) throughout the City of Clearlake. The IRWM Planning Grant will be submitted in 2012-13.

- The County continues to aggressively enforce the Grading and Stormwater Ordinances, and has abated a number of illegal marijuana cultivation sites that had resulted in significant stormwater violations. The County also continues to conduct annual cleanups of illegal dumpsites, and removes an average of approximately 100 cubic Yards from a number of sites each year.

- In FY 07/08, the County of Lake adopted a new Grading Ordinance that incorporates stormwater BMP requirements for construction projects.

- In August 2007 the County of Lake adopted the Municipal Operations BMP Handbook produced by CASQA which includes BMPs for various activities. A resolution establishing Post Construction Requirements was also adopted at the same time.

- Completion of assessments of Co-permittee’s construction and post-construction control programs. The assessment also provided recommended next steps to achieve compliance with NPDES permit requirements.

- Plan reviewers have received “Storm Water Management During Construction” training.

- The Caltrans/CASQA training programs have been adopted by all three Permittees and Stormwater Inspector Certificates have been obtained.

- The Clean Water Program Websites maintained by the County of Lake and the City of Lakeport have been completely overhauled to be more user friendly and contains a significant amount of new public outreach and awareness information.

- The County of Lake completed a MS4 outfall map and has purchased hand-held GPS units to input data for use in a GIS layer.

- In autumn 2011 a new volunteer chairperson was appointed to lead the Public Involvement and Participation / Public Education and Outreach (PIP/PEOP) Workgroup.

- Program members have been closely following the Phase II MS4 permit renewal process since 2011 in an effort to stay ahead of changing regulations.
PROGRAM CHALLENGES

Co-permittees have maintained compliance with the State General Permit and Countywide SWMP. However, as with all municipalities in the State of California, the biggest challenge in implementing the SWMP has been the lack of available staffing and fiscal resources. High workloads and inadequate staffing levels continue to make it difficult for departments to dedicate resources towards an unfunded federally mandated Program.

Another program challenge has been anticipating future NPDES permit requirements. The Lake County Clean Water Advisory Council members have been closely following the proposed regulatory changes through two general permit revisions. However, it is still unclear exactly what regulatory requirements will exist for the program in the future, so it is difficult for the members to plan for the future.
SECTION 1
INTRODUCTION

BACKGROUND

PROGRAM DESCRIPTION
The Lake County Clean Water Program (Program) is a consortium of agencies in Lake County that discharge stormwater from the Municipal Separate Storm Sewer System (MS4) into Clear Lake and local water bodies. The Program was developed as a requirement of the NPDES Phase II regulations and is compliant with the provisions described in NPDES General Permit No. CAS000004 (General Permit) issued by the State Water Resources Control Board (SWRCB). The Program permittees consist of three (3) public agencies, the County of Lake, City of Clearlake and City of Lakeport, which submitted an application for co-coverage under the General Permit to the Central Valley Regional Water Quality Control Board (RWQCB) on October 27, 2003. The application included a Stormwater Management Plan (SWMP) which describes how pollutants in local storm water runoff will be controlled to the maximum extent practicable (MEP) through the implementation of best management practices (BMPs). In July 2004, the RWQCB approved the Program's application and coverage under the General Permit began.

The Program is organized, coordinated, and implemented in accordance with a Program Agreement that was signed by the Co-permittees and the Lake County Watershed Protection District (District) in 2004 (See Appendix 1-1). The Program Agreement covers the responsibilities of each Co-permittee, and was modified in 2008 to remove the Lake County Watershed Protection District. At the inception of the Program, the District was asked by the Co-permittees to assist in the management of the Program. The Program's Advisory Council, consisting of one designated representative from each Co-permittee is the official decision-making body for the Program (Appendix 1-2). The Advisory Council operates under Bylaws that were adopted by each of the three jurisdictions (Appendix 1-3).

PROGRAM GOALS AND OBJECTIVES

The overarching goal of the Program is to reduce pollutants from entering the MS4 and local water bodies through the effective implementation of BMPs to the MEP. More specific goals are described in Table 1.1. To accomplish these goals, the Program has developed the following strategic objectives:

- Develop a self-directed, proactive approach fostering trust and respect from regulators, businesses and environmental groups;
- Produce tangible water quality improvements through expanded collaborations with other organizations;
- Communicate a clear vision of the program’s goals and objectives to the public, and to member agencies’ staff, management, and elected officials; and,
- Improve communication links and working relationships among departments within member agencies and between the Program and RWQCB staff.
Table 1.1  Lake County Clean Water Program Goals established in the Stormwater Management Plan (SWMP), 2003.

<table>
<thead>
<tr>
<th>Goal #1. Comply with the General Permit by:</th>
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<tbody>
<tr>
<td>• Effectively prohibiting non-storm water discharges;</td>
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<tr>
<td>• Protecting water quality from the impacts of storm water runoff from small MS4s; and,</td>
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<tr>
<td>• Reducing, to the maximum extent practicable, pollutants in storm water runoff.</td>
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<tr>
<th>Goal #2. Determine Success by:</th>
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<tbody>
<tr>
<td>• Evaluating changes in public awareness and behavior;</td>
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<tr>
<td>• Evaluating the effectiveness of specific control measures at pollution reduction; and,</td>
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<tr>
<td>• Utilizing what is learned to plan next steps.</td>
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</table>

<table>
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<tr>
<th>Goal #3. Achieve Acceptance of SWMP Activities by:</th>
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<tbody>
<tr>
<td>• Effectively facilitate public input to the Storm Water Management Plan;</td>
</tr>
<tr>
<td>• Integrating storm water runoff goals at various intra-agency levels; and,</td>
</tr>
<tr>
<td>• Developing and maintaining a proactive relationship with regulatory authorities.</td>
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</table>

THE PROGRAM’S STORMWATER MANAGEMENT PLAN

The widespread nature of storm water pollution requires a comprehensive solution. This SWMP describes how pollutants in local storm water runoff will be controlled and describes best management practices (BMPs) designed to address the following six minimum measures:

- Public Education and Outreach on Storm Water Impacts
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination
- Construction Site Storm Water Runoff Control
- Post Construction Storm Water Management in New Development/Redevelopment; and,
- Pollution Prevention/Good Housekeeping for Municipal Operations

THE PROGRAM’S ANNUAL REPORT

In accordance with General Permit Provision F.1, the Program must submit an Annual Report by September 15 of each year. In addition, the Annual Report serves as an important internal Program tool in the cycle of planning, implementation, evaluation and continuous improvement. The Annual Report is the mechanism for documenting the status of planned activities, evaluating the effectiveness of those activities and identifying potential improvements.

The goals of this Fiscal Year 2011/2012 Annual Report are to: 1) meet specific General Permit requirements by documenting the remaining BMPs that were met; 2) Continue to refine mechanisms for reporting and self-evaluation (via measurable goals); and 3) identify new Program goals and objectives for the 2012/13 Fiscal Year while continuing to implement the ongoing BMPs established under the current General Permit.

ORGANIZATION OF ANNUAL REPORT

The *FY 11-12 Annual Report* consists of this Introduction and six (6) Sections associated with each minimum measure. Following Section 1, measurable goal status/results, BMP effectiveness and planned activities are listed in tables and described in text for each BMP that was scheduled for implementation in FY 11-12. The reporting format is outlined below:
Table 1.2 Fiscal Year 2011-2012 Annual Reporting Format.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>BMP APPROPRIATENESS</td>
<td>Brief description of the appropriateness of the BMP for the minimum control measure.</td>
</tr>
<tr>
<td>MEASURABLE GOAL RESULTS</td>
<td>Results of achieving measurable goals.</td>
</tr>
<tr>
<td>PROBLEMS IN OBTAINING MEASURABLE GOALS</td>
<td>Description of problems in obtaining measurable goals.</td>
</tr>
<tr>
<td>BMP EFFECTIVENESS</td>
<td>Description of the effectiveness of Minimum Measure BMPs.</td>
</tr>
<tr>
<td>PROPOSED CHANGES TO BMPs AND MEASURABLE GOALS, INCLUDING SETTING PRIORITIES</td>
<td>Justification for changing the BMP and associated measurable goals if needed. If no changes are proposed, “None”.</td>
</tr>
<tr>
<td>ACTIVITIES PLANNED FOR NEXT YEAR</td>
<td>Narrative of the activities scheduled for next fiscal year for the BMP.</td>
</tr>
</tbody>
</table>

Please note that some BMPs were jointly implemented by all Co-permittees and others were implemented individually\(^1\).

**Lake County Clean Water Program**  
**Definitions of Key Acronyms**

- **BMP’s**: Best Management Practices
- **CON**: Construction Site Stormwater Runoff Controls
- **IDDE**: Illicit Discharge Detection and Elimination Program
- **MEP**: Maximum Extent Practicable
- **MS4**: Municipal Separate Storm Sewer System
- **MUNI**: Stormwater Pollution Prevention Program for Municipal Operations
- **NPDES**: National Pollutant Discharge Elimination System
- **PCON**: Post Construction Stormwater Management
- **PEOP**: Public Education, Outreach and Participation Program
- **PIP**: Public Involvement and Participation
- **RWQCB**: Regional Water Quality Control Board
- **SWMP**: Stormwater Management Plan
- **SWRCB**: State Water Resources Control Board

\(^1\) Joint efforts and comments are reported as a whole for all municipalities. Efforts and comments by the County are reported as County of Lake and may include County Department descriptions. Efforts and comments by the City of Clearlake are reported as City of Clearlake, Efforts and comments by the City of Lakeport are reported as City of Lakeport.
SECTION 2
PUBLIC EDUCATION AND OUTREACH

BACKGROUND

Public education and outreach plays an integral part in preventing storm water pollution. An informed and knowledgeable community is crucial to the success of a storm water management program since it helps to ensure: (1) greater support for the program as the public gains a greater understanding of the reasons why it is necessary and important, and (2) greater compliance with the program as the public becomes aware of the personal responsibilities expected of them and others in the community, including the individual actions they can take to protect or improve the quality of water bodies in Lake County.

To help reduce the potential of impacts of storm water pollutants on water bodies in Lake County and to satisfy the Public Education and Outreach element of the General Permit, the Lake County Clean Water Program is developing and implementing a Public Education, Outreach and Participation (PEOP) Program.

GOALS AND OBJECTIVES

The goal of the Public Education and Outreach element is to reduce storm water pollution in Lake County through the development and implementation of an effective PEOP program that will: (1) increase public awareness about storm water pollution; and, (2) educate the community about specific pollutant sources and on what they can do to reduce them in storm water. To achieve this goal, the Program has developed the following objectives for the PEOP program:

- Generate awareness of storm water pollution prevention by educating people about the storm drain system and its relationship to the health of local water bodies; and
- Change behavior patterns through education and encouragement of active participation in storm water pollution prevention.

PUBLIC EDUCATION AND OUTREACH BMPs

The Public Education and Outreach element is divided into two categories to effectively educate the public about storm water issues in Lake County. These categories are: (1) Public Education and Outreach Program Management (i.e., workgroup and BMP material development); and, (2) Tracking and Reporting. For each category, specific BMPs and associated implementation timelines were adopted in the Program’s SWMP.

FISCAL YEAR 2011/12 ACCOMPLISHMENTS

GENERAL SUMMARY

The Public Education, Outreach and Participation (PEOP) Workgroup first met in January 2004 to coordinate the Public Education, Outreach and Participation Minimum Control Measures. While the Workgroup has struggled to maintain regular quarterly meetings this reporting year, much effort and coordination has been spent on informing the public about new invasive species prevention programs (Quagga and Zebra Mussels) being implemented concurrently with the Clean Water Program. The recent adoption and implementation of the invasive species prevention programs has dominated the public education and outreach efforts of the three co-permittees for the majority of this reporting year.

The status of BMPs scheduled for implementation in FY 11/12 are listed in Tables 2.1 – 2.2 and briefly described in this section. Additionally, BMP effectiveness and activities planned for next fiscal year are also described.
PUBLIC EDUCATION AND OUTREACH PROGRAM MANAGEMENT

PEOP – 1: Public Education and Outreach Program and PEOP Workgroup

PEOP 1a – Establish a Workgroup to Oversee the Development and Implementation of the Public Education and Outreach Program

BMP Appropriateness - Appropriate for bringing together the various peoples involved in public education and outreach activities for a cohesive effort aimed at furthering the distribution of information regarding the Stormwater Program.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results:

- First PEOP Workgroup Meeting held on January 8, 2004
- PEOP Workgroup has been re-established and began meeting September 2009 to improve public outreach and involvement effectiveness.
- PEOP Workgroup has established tracking system to account for all education and outreach activity by the co-permittees and designees.
- Group began implementation of social media outreach (e.g. Facebook, Twitter, etc.), which have gained a strong following from the community. These sites disseminate information on upcoming events, notices, and other information.
- A new volunteer chairperson of the PIP/PEOP Workgroup was appointed in autumn 2011; a summary of the workgroup’s activities are provided in Appendix 2-6.

Problems in Obtaining Measurable Goals - None

BMP Effectiveness – Effective as brochures and flyers have been published, and the Program Website has been updated.

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year

- Continue with the successful Public Outreach through the local watershed CRMP groups which meet monthly. The CRMP groups continue to be an integral part of program implementation and dissemination of information to the public on issues related to watershed erosion, stormwater runoff, and the affects of nutrient loading on the health of Clear Lake, the primary receiving waters within the Clear Lake Basin.
- Continue with publication of brochures, posters, flyers, and outreach material directed to children, e.g. stickers, coloring books, magnetic refrigerator items.
- Continue program using the local movie theater on-screen advertising program.
- Continue quarterly PEOP Workgroup meetings to coordinate with staff and refine strategies to garner more effective public outreach and participation.
- Continue to update the Clean Water Program Website with new educational information concerning water quality issues in the County.

PEOP 1b – Determine Administrative Structure(s), Staffing Requirements and Fiscal Resources Needed to Develop and Implement the Public Education and Outreach Program

BMP Appropriateness - Appropriate. Without an administrative structure and determination of the fiscal resources needed to implement the public education and outreach program, there would be no direction and long term planning to implement the program.
County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Completed the determination of administrative structure and fiscal resources needed to implement the PEOP program. It has been determined that County staff has the ability to reproduce and/or publish PEOP material through the contracted printing firm currently being used by the County.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness - The public education and outreach component of the program continues to move forward well utilizing the revised program structure. Educational/informational brochures are available at the front counters of each co-permittee.

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year
• None, this BMP is completed.

PEOP 1c – Develop and Begin Implementing the Public Education and Outreach Program

BMP Appropriateness - Appropriate to develop and implement a public education and outreach program to educate and inform the public on stormwater pollution, how they may reduce pollution, and how their activities affect the water quality of Clear Lake.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Complete. Ongoing. Member agencies of the Lake County Clean Water Program have continued to provide public information brochures, install creek crossing signs, and hold public cleanup events, in addition to the outreach efforts and website development efforts mentioned below. Outreach efforts have expanded to include Lake County’s invasive species prevention program. A report from the Invasive Species Program Coordinator highlights some of these outreach efforts from the past fiscal year. This report is included in Appendix 2-3. Appendix 2-3 also contains photos of a typical bridge sign/marker and a news story about the “In the Creek Day” educational event.

Problems in Obtaining Measurable Goals – None. Making significant progress without increasing staff. The new workgroup chairperson has been very effective at engaging the public in outreach efforts.

BMP Effectiveness - The public education and outreach program is being steered by the PEOP& PIP Workgroup which continues to meet quarterly to review various outreach options. The focus this year has been on outreach at various local events and through the public schools. The program has been made more effective by engaging volunteers, who are assisting with public outreach, and the PEOP workgroup.

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year
• Continue working with CRMP groups to educate and facilitate program compliance through personal and community-wide understanding of the processes involved with storm water pollution.
• Continue with production of brochures, posters, and flyers directed to priority targets within the public audience.
• Continue updating the Program Website with educational information.
• The City of Lakeport plans to explore the installation of informational signs on bridges and creek crossings similar to the signs posted by the County of Lake.
• Incorporate outreach BMP’s from the new Phase II NPDES
**PEOP 1d – Conduct PEOP Workgroup Meeting Quarterly**

BMP Appropriateness – Appropriate to maintain a public education and outreach program and conduct quarterly PEOP Workgroup meetings to educate and inform the public on stormwater pollution causes and reduction techniques.

**County of Lake, City of Clearlake and City of Lakeport**

Measurable Goal Results – Ongoing. Due to staffing changes, the PEOP & PIP Workgroup did not maintain regular quarterly meetings during this reporting year, however, the two cities and county did maintain regular correspondence regarding public education and outreach materials and efforts.

Problems in Obtaining Measurable Goals - High work loads, attrition, shrinking budgets and a changing staff continue to make it increasingly difficult for those involved to meet and address the issues related to implementation of this BMP. However, with the appointment of a new volunteer chairperson of the PIP/PEOP workgroup in the fall of 2011, regular correspondence has taken place among the members of the Lake County Clean Water Program.

BMP Effectiveness – Effective as a few volunteers have been engaged in the process and the workgroup has provided direction on website development for the program. The Workgroup has tracked the efforts of its members. See appendix and 3-6.

Proposed Changes to BMPs and Measurable Goals - While reviewing minimum control measures in the new Phase II permit (to be adopted in November 2012), program members may look at alternatives to achieving this goal without having to maintain regular meetings.

Activities Planned for Next Year - Conduct quarterly meetings and continue to include stormwater education in presentations to contractors, various organizations, and the general public conduct ongoing tool box training at jobsites for construction contractors.

**PEOP 1e – Coordinate with Other Working Groups to Determine Needs for Outreach/Education Materials**

BMP Appropriateness - Appropriate to coordinate public education and outreach (PEOP) activities with the needs of other working groups dedicated towards their respective program tasks.

**County of Lake, City of Clearlake and City of Lakeport**

Measurable Goal Results – On-going. Existing County & City staff continue to assist in coordination of the PEOP activities with existing workgroups which are meeting regularly; i.e. CON and PCON workgroups and members of IDDE.

Problems in Obtaining Measurable Goals – Limited staffing and high work loads make it difficult to coordinate meetings between PEOP workgroup and other workgroups.

BMP Effectiveness - Unknown

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year - Continue coordination efforts between County & City staff and maintain quarterly meetings of the Workgroups to accomplish public education and outreach needs for the entire Program.
Section 2  Public Education and Outreach

PEOP - 2: Evaluation of Public Education and Outreach Activities and Materials

PEOP 2b – Evaluate and Revise Existing Public Education and Outreach Materials and Activities as Needed

BMP Appropriate - Appropriate to evaluate and revise existing materials as needed to adapt to changing local issues, social changes, and public/private concerns.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results - Ongoing. Although no formal report of findings or recommendations have been prepared, future efforts in producing and evaluating PEOP materials will continue to be performed by City and County staff, with the assistance of the PEOP Workgroup. Efforts have been focused on incorporating the Clean Water Program outreach activities with other water related outreach programs already underway by program members. Specifically, efforts have been made to incorporate the efforts of the Invasive Species Program Coordinator. Refer to Appendix 2-2 for copies from the Clean Water Program and City of Lakeport web pages. Refer to Appendix 2-3 for the report of the activities carried out by the Invasive Species Coordinator.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective.

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year

- Continue evaluation of PEOP materials and website as priorities change.
- Coordinate with workgroup volunteers to evaluate and revise activities and materials.
- Develop contact information labels to use in order to update Program brochures.
- Meet with Lake County Office of Education to discuss integration of storm water materials into school curriculum.
- Develop additional poster boards to display in storefronts in other communities around the County.

PEOP 2c – Incorporate Public Education and Outreach Materials into Co-permittees Websites (Update as Appropriate)

BMP Appropriate - It is appropriate to educate the public on storm water issues through the Program website. A uniform message for the co-permittees has been developed into a single web site dedicated to the Lake County Clean Water Program on behalf of all co-permittees. This is currently maintained on the Lake County website home page under “Popular Links”. The County continues to modify website content.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Completed/Ongoing. The Lake County Clean Water Program website has been redesigned and is more user-friendly. Information is being kept current. The City of Lakeport manages its own independent storm water site, which is linked to the County’s Program site and contains virtually the same information as is directly applicable to its community members. The City of Lakeport’s storm water webpage has been updated and now includes various Clean Water Program brochures and informational flyers and a page devoted to the Clean Water Program educational materials. A simplified on-line storm water complaint form has also been added to the City’s webpage.

Problems in Obtaining Measurable Goals – Prior to obtaining the new software, it was extremely difficult to maintain and upgrade the website as it required staff with HTML knowledge. Responsibility of the website was transferred from the Water Resources Division to the Community Development Department.
in July 2009. Refer to Appendix 2-2 for copies from the Clean Water Program website and also the City of Lakeport’s website.

**BMP Effectiveness** – The website serves as an effective platform to promote the Storm Water Program to the public, and has had 4,629 visits as of August 2012. Refer to Appendix 2-2 for copies from the Clean Water Program website and also the City of Lakeport’s website.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year**
- Continue to maintain and update the new web page as needed.
- City of Lakeport will also maintain and update their web page as needed.
<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td>County of Lake</td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
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<tr>
<td>PEOP 1a</td>
<td>Establish workgroup to oversee the development and implementation of the Public Education and Outreach Program.</td>
<td>PEOP Workgroup formed.</td>
<td>X</td>
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<tr>
<td>PEOP 1b</td>
<td>Determine administrative structure, staffing requirements and fiscal resources needed to develop and implement the Program.</td>
<td>Staffing and fiscal resource estimates developed.</td>
<td>County of Lake</td>
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<tr>
<td>PEOP 1c</td>
<td>Develop and begin implementing the PEOP Program.</td>
<td>Program developed and implementation has begun.</td>
<td>County of Lake</td>
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<tr>
<td>PEOP 1d</td>
<td>Conduct PEOP Workgroup meetings quarterly.</td>
<td>PEOP Workgroup meeting summaries and attendees list.</td>
<td>County of Lake</td>
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<tr>
<td>PEOP 1e</td>
<td>Coordinate with other working groups to determine needs for outreach / education materials.</td>
<td>Meet with other working groups as needed to determine needs for outreach / education materials.</td>
<td>County of Lake</td>
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### Table 2.1 (Continued)

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<th>BMP #</th>
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<tr>
<td>PEOP 2b</td>
<td>Evaluate and revise existing public education and outreach materials and activities as needed.</td>
<td>Public education and outreach materials evaluated and revised.</td>
<td>County of Lake</td>
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<td>PEOP 2c</td>
<td>Incorporate public education and outreach materials onto co-permittees websites (update as appropriate).</td>
<td>Public education and outreach materials available via co-permittees websites.</td>
<td>County of Lake</td>
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### TRACKING AND REPORTING

**PEOP – 3: Public Education and Outreach Tracking and Reporting**

**PEOP 3b – Revise and Implement Current Tracking and Reporting Procedures**

**BMP Appropriateness** - Appropriate to implement tracking and reporting procedures as understanding of information distributed, distribution location, and distribution method will allow an assessment of public interest.

**County of Lake, City of Clearlake and City of Lakeport**

**Measurable Goal Results** - Complete. Establishment of online activity reporting and tracking system. Brochures and informational material available to the public.

**Problems in Obtaining Measurable Goals** – None

**BMP Effectiveness** - Effective. The City of Lakeport and Lake County have received multiple activity reports from members of the workgroups, the community, and staff regarding their engagements over the last year. The City and County maintain records of those reports, which can be filed electronically through their respective websites or manually by mail. Appendix 3-6 contains copies of Workgroup Activity Report Forms, which can be completed and submitted online.

**Proposed Changes to BMPs and Measurable Goals** - None

**Activities Planned for Next Year**

- Continue to track number of informational brochures given out, events sponsored, and media coverage.
Table 2.2  Status and effectiveness of Public Education and Outreach (PEOP) tracking and reporting procedure BMPs scheduled for implementation in Fiscal Year 2011/2012.

<table>
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<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
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<tr>
<td>PEOP 3b</td>
<td>Revise and implement current tracking and reporting procedures.</td>
<td>Tracking and reporting procedures</td>
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SECTION 3
PUBLIC INVOLVEMENT AND PARTICIPATION

BACKGROUND
Public involvement and participation are important components of the Program. The term “public” refers to various sectors of the community including residents, commercial and retail business owners; industry representatives; developers; construction contractors; agency staff; elected officials; and governmental agencies. The success of the Program depends largely upon acceptance and support from these sectors.

GOALS AND OBJECTIVES
The following Public Involvement and Participation (PIP) Program objectives are designed to address storm water pollution through the supportive efforts of an informed community:

- Raise public awareness about urban runoff pollution through involvement in the Lake County Clean Water Program;
- Raise public awareness about storm water pollution prevention efforts; and,
- Foster participation through community-based projects or volunteer activities focused on pollution prevention.

PUBLIC EDUCATION AND OUTREACH BMPs
The public involvement and participation element is divided into four categories to effectively address storm water issues: (1) Public Involvement and Participation Program Management, (2) Public Activities and Participation, (3) Public Opinion and Involvement, and (4) Program Tracking and Reporting. For each category, specific BMPs and associated implementation timelines were adopted in the Program’s SWMP.

FISCAL YEAR 2011/2012 ACCOMPLISHMENTS

GENERAL SUMMARY
The Public Education, Outreach and Participation (PEOP) Workgroup first met in January 2004 to coordinate the Public Education and Outreach and Public Involvement and Participation Minimum Control Measures. The status of BMPs that were scheduled for implementation in FY 11/12 are listed in Tables 3.1 – 3.4 and briefly described in this section. Additionally, BMP effectiveness and activities planned for next fiscal year are also described. Please note that some of Public Involvement and Participation BMPs scheduled for implementation in FY 11/12 were intended to be jointly implemented by all three (3) Co-permittees, while others were implemented individually.

PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM MANAGEMENT

PIP – 1: Public Education, Outreach and Participation Workgroup

PIP 1b – Conduct PEOP Workgroup Meetings Quarterly

BMP Appropriateness - Appropriate to bring together the various stakeholders involved in public involvement and participation activities for a cohesive effort.
County of Lake, City of Clearlake and City of Lakeport

Measureable Goal Results: The PIP/PEOP Workgroup did not conduct formal meetings over the last year due to staff turnover. However, the members of the Workgroup have maintained contact and a dialogue regarding public involvement through phone calls, emails, and public clean-up events, and presentations to local groups. Also, with the appointment of a new volunteer chairperson of the PIP/PEOP workgroup in the fall of 2011, regular correspondence has taken place among the members of the Lake County Clean Water Program.

Problems in Obtaining Measurable Goals – Difficulty in coordinating schedules of the workgroup members, who are all busy with other jobs. However, this workgroup has been effective even without maintaining regular meetings.

BMP Effectiveness – Effective.

Proposed Changes to BMPs and Measurable Goals - While reviewing minimum control measures in the new Phase II permit (to be adopted in November 2012), program members may look at alternatives to achieving this goal without having to maintain regular meetings.

Activities Planned for Next Year:
Depending on the specifics of the new Phase II permit, PEOP workgroup meetings will be held regularly on a quarterly basis.

Table 3.1 Status and effectiveness of Public Involvement and Participation Program Management Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
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PUBLIC ACTIVITIES AND PARTICIPATION

PIP – 2: Storm Drain Stenciling

PIP 2a– Review and Update Existing Storm Drain Stenciling Program

County of Lake

BMP Appropriateness – Appropriate where applicable. The County MS4 system is predominately road-side ditches with cross culverts for immediate road related drainage issues. Stenciling is more appropriate for
curb and gutter systems facilitating ease of stencil placement as has been the case with the two cities, Lakeport and Clearlake.

Few curb and gutter systems are present within the less urbanized areas of the County, therefore the BMP is only applicable where those curb and gutter surfaces exist.

**Measurable Goal Results** – Incomplete. Ongoing. The County initiated research into the storm drain stenciling program, however, there are very few curb and gutters within the County, and while the MS4 mapping has been completed, this program is not practical for the County to implement. However, the County has initiated a policy that all new drain installations will have permanent storm water markings. Appendix 2-4 includes design rendering of the storm drains now required by the County.

**Problems in Obtaining Measurable Goals** - This BMP can be appropriate in urban clusters and developing areas within the County. Requiring the stenciling of 25% of existing storm drains within the remainder of the permit area annually is judged to be inappropriate and relatively ineffective as these MS4’s are typically comprised of road-side ditches with cross-culverts for road drainage only.

**BMP Effectiveness** – Unknown.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year:**
- Develop a stenciling program that can be run by volunteers.

**City of Clearlake**

**BMP Appropriateness** - Somewhat appropriate since the City of Clearlake has few storm drains along streets with curbs and gutters. The majority of storm drains inlets and catch basins are located on the City’s three major streets, Old Highway 53, Olympic Drive, and Lakeshore Drive. The City of Clearlake’s local and collector streets are not improved and do not have drop inlets or catch basins. The City of Clearlake has over 50 miles of unimproved streets which have no drop inlets or catch basins. The drainage system consists of roadside ditches and drainage swales.

**Measurable Goal Results** - The City of Clearlake purchased stencils in FY 05-06 and using existing staff stenciled all 100% of the City’s storm drain inlets and catch basins along our major streets. The stencil reads, No dumping flows to Clearlake. The City re-stenciled their storm drain inlets and catch basins in 2008-09. In addition in 2008-09 the City purchased 100 permanent storm drain markers which will be installed in the fall of 2009. The permanent storm drain markers indicate No Dumping – Drains to Lake, and have a picture of a fish. In May 2010 the City installed all 100 of the permanent storm drain markers on our storm drain inlets and catch basins along the City’s arterials and collector streets near Clearlake. The placement of the permanent markers will eliminate the need for 80% of the re-stenciling. See appendix 2-4 for a photo of the marker. In 2010-11 the City installed 10 Protect our Water-Way signs on major stream/creek crossing with the City of Clearlake. Signs were installed on City Bridges at Burns Valley Creek and Old Hwy 53, at Burns Valley Road, and on Lakeshore Drive. Signs were also installed on Molesworth Creek on Old Highway 53, an on Miller Creek at Lakeshore Drive. In 2011-12 the City installed Protect our Water Way signs at Cache Creek at Lake Street and on Olympic Drive at Miller Creek. See photo in appendix 2-3.

**Problems in Obtaining Measurable Goals** – The City has not had a problem implementing stenciling or in the placing of permanent markers on its storm drain inlets and catch basins along its improved major streets. While stenciling or the permanently marking of storm drain inlets and catch basins is an effective tool for educating the public about not dumping into storm drains, it is not conducive for marking drainage ditches and drainage swales throughout the City, that are not along improved streets. This situation is found all over the City of Clearlake.
BMP Effectiveness – Now that the City has placed permanent storm drain markers at our stenciled storm drain inlets and catch basins as well as protect our waterway signs on our bridges at major stream/creek crossings along the City’s major streets, the general public will be more aware of where our storm water flows to, and the importance of not polluting our creeks and lake.

Proposed Changes to BMPs and Measurable Goals - As the City budget allows additional permanent markers will be purchased and installed on storm drain inlets and catch basins in the more remote areas of the City’s Street system, which will eliminate totally the need to do any re-stenciling. In addition the City plans to permanently mark major storm drain channels where they cross major City streets within Clearlake. The signs will indicate the creek or channel name, with the words “Protect our Waterways” on the sign. Due to budget restraints, this will be done in phases. The first phase proposed to be completed in 2010-2011 will include the permanent marking of Burns Valley Creek, Miller Creek, and Molesworth Creek.

Activities Planned for Next Year:
The City plans to permanently mark major storm drain channels where they cross major City streets within Clearlake. The signs will indicate the creek or channel name, with the words “Protect our Waterways” on the sign. Due to budget restraints, this will be done in phases. The first phase proposed to be completed in 2010-2011 will include the permanent marking of Burns Valley Creek, Miller Creek, and Molesworth Creek. The second and final phase of the “Protect our Waterway” sign project installed signs on Cash Creek at Lake Street and on Olympic Drive at Miller Creek. All the of the City’s storm drains inlets are marked with permanent storm drain markers, and Protect our Waterways signage is complete. No activities are planned this next year, other than the maintenance of above Protect our Waterway signs and storm drain inlet markers.

City of Lakeport

Measurable Goal Results – The City’s stenciling program was initiated in FY 2009-2010 when over 100 storm drain inlets were marked in the downtown area and nearby neighborhoods. The highest priority drains were those around creeks and surface water drainage channels, including storm water catch basins in Library Park, situated immediately on the shores of Clear Lake.

Problems in Obtaining Measurable Goals – Lack of staff/time that is necessary to adequately manage formal stenciling program.

BMP Effectiveness – Unknown.

Proposed Changes to BMPs and Measurable Goals - The City plans to begin using permanent markers that can be affixed to the street/curb surface near storm drain inlets rather than painted markings

Activities Planned for Next Year: Continue the stencil/marker program in downtown area and move outward to other areas of the City.

PIP 2b – Conduct Storm Drain Stenciling

County of Lake

BMP Appropriateness – Appropriate where hard surfaces exist which are conducive to stenciling.

Measurable Goal Results – Incomplete. County now requires all new storm drains and replacement storm drains to have permanent storm water markings instead of regular stenciling.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing has delayed completion of this BMP.

BMP Effectiveness - Unknown, behind schedule.
Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:

- Work on PIP 2a- Review and Update Existing Storm Drain Stenciling Program;
- Refine the MS4 inventory to reveal attributes applicable to stenciling (hard surfaces) and continue in attempts to conduct storm drain stenciling activities where appropriate, through the use of volunteers.

City of Clearlake

BMP Appropriateness – This BMP is appropriate for those areas of the City where there are improved streets with a formalized drainage system, where the drainage inlets and catch basins can be stenciled.

Measurable Goal Results – In May 2010 the City installed all 100 of the permanent storm drain markers on our storm drain inlets and catch basins along the City’s arterials and collector streets near Clearlake. The placement of the permanent markers will eliminate the need for 80% re-stenciling. See Appendix 2-4 for a photo of the City’s permanent storm drain markers. As the City budget allows additional permanent markers will be purchased and installed on storm drain inlets and catch basins in the more remote areas of the City’s Street system, which will eliminate totally the need to do any re-stenciling. The City installed 10 Protect our Water-Way signs on major stream/creek crossing with the City of Clearlake. Signs were installed on City Bridges at Burns Valley Creek and Old Hwy 53, at Burns Valley Road, and on Lakeshore Drive. Signs were also installed on Molesworth Creek on Old Highway 53, an on Miller Creek at Lakeshore Drive. In 2011-12 the City installed Protect our Water Way signs at Cache Creek at Lake Street and on Olympic Drive at Miller Creek. See photo in appendix 2-3.

Problems in Obtaining Measurable Goals – None

BMP Effectiveness – Now that the City has placed permanent storm drain markers at our stenciled storm drain inlets and catch basins as well as protect our waterway signs on our bridges at major stream/creek crossings along the City’s major streets, the general public will be more aware of where our storm water flows to, and the importance of not polluting our creeks and lake.

Proposed Changes to BMPs and Measurable Goals: The City plans to permanently mark major storm drain channels where they cross major City streets within Clearlake. The signs will indicate the creek or channel name, with the words “Protect our Waterways” on the sign. Due to budget restraints, this will be done in phases. The first phase proposed to be completed in 2010-2011 will include the permanent marking of Burns Valley Creek, Miller Creek, and Molesworth Creek.

Activities Planned for Next Year: The City plans to permanently mark major storm drain channels where they cross major City streets within Clearlake. The signs will indicate the creek or channel name, with the words “Protect our Waterways” on the sign. Due to budget restraints, this will be done in phases. The first phase proposed to be completed in 2010-2011 will include the permanent marking of Burns Valley Creek, Miller Creek, and Molesworth Creek. The second and final phase of the “Protect our Waterway” sign project installed signs on Cash Creek at Lake Street and on Olympic Drive at Miller Creek.

City of Lakeport

BMP Appropriateness – Appropriate where impervious surfaces exist (i.e. concrete curb or grate border) which are conducive to stenciling or marker installation.

Measurable Goal Results – Over 100 storm drains have been stenciled in the City of Lakeport. The City hopes to add the stenciling information to the City’s storm sewer GIS layer, which will assist staff in tracking the number of drains stenciled or marked.
Problems in Obtaining Measurable Goals - Fiscal and staffing resources continue to be a challenge, but cooperation between City departments is positive and productive. Community Development staff will work with Public Works staff to continue the program.

BMP Effectiveness - Effective. Anecdotal evidence suggests public awareness for the proper use of storm drains appears to be increasing. Staff has noted that some of the painted stencils are beginning to fade.

Proposed Changes to BMPs and Measurable Goals - The City plans to use permanent markers that can be affixed to the street/curb surface near storm drain inlets. The County has begun using permanent “button”-style markers and the City has obtained nearly 100 button markers.

Activities Planned for Next Year: More coordination of staff to continue the City’s stencil/marker efforts. City intends to add permanent markers to the storm drains that were previously marked with painted stencils then and eventually expand to other areas of the City.

**PIP 2c – Investigate Opportunities for Using Volunteers to Stencil Storm Drains**

**County of Lake**

BMP Appropriateness – Appropriate to help reduce fiscal costs of implementation and for education of public with respect to the County Stormwater Program.

Measurable Goal Results - In the future the County will work with youth groups and other volunteers to stencil (paint) the County’s Storm Drain inlets and Catch basins where concrete curbs are present.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing to reach volunteers and accomplish the measurable goal. Therefore, County Department of Public Works has instigated a program to require all new storm drains and replacement storm drains to have permanent storm water markings so that the need for stenciling is reduced.

BMP Effectiveness – Unknown.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Continue working on the storm drain stenciling program.
- Seek volunteers from local youth groups, and thru PEOP tasks or through the County web page.
- Continue to require all new storm drains, public and private, to be stenciled.

**City of Clearlake**

BMP Appropriateness – It would be appropriate to enlist volunteers, such as a Boy Scout group, to help the City install permanent storm drain markers and re-stencil it’s drainage inlets and at the same time provide the awareness to such a volunteer group.

Measurable Goal Results – Enlist volunteers to assist the City in its drainage inlet-stenciling program.

Problems in Obtaining Measurable Goals – Providing the staff time at the management level to seek volunteers. In addition installing the permanent markers requires some special skills in using power equipment which may make it difficult for groups such as the boy scouts to volunteer for such work.

BMP Effectiveness – Effective in providing awareness of the importance of not polluting the City’s streams, drainage channels, and Clearlake.

Proposed Changes to BMPs and Measurable Goals – None
Activities Planned for Next Year: None, the work has been completed, see 2a & 2b above.

**City of Lakeport**

BMP Appropriateness – Appropriate to help reduce fiscal costs of implementation and for education of public with respect to the County Stormwater Program.

Measurable Goal Results – The City was unable to attract capable volunteers during FY 2011/2012 and as a result the stenciling program was not expanded. However, City staff has been assigned to continue the program until a volunteer corps can be assembled to enhance the City’s efforts.

Problems in Obtaining Measurable Goals - Lack of interest from the public to volunteer. New approaches are being considered to generate interest by the public, including a revitalization of the City’s volunteer program and possibly additional coordination with other workgroups.

BMP Effectiveness – Effective since stenciling responsibilities have been assumed by City staff.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Continue working on the storm drain stenciling program.
- Work with the City’s Volunteer Coordinator to establish a formal volunteer stencil(marker program.
- Advertise for volunteers on City’s website (www.cityoflakeport.com) and note that stenciling can be an effective service-related project.

**PIP – 3: Develop and Support Local Partnerships**

**PIP 3a – Coordinate with Local Organizations and Develop Partnerships (as appropriate)**

**County of Lake, City of Clearlake and City of Lakeport**

BMP Appropriateness - Appropriate to coordinate common efforts with other individuals and organizations with common goals.

Measurable Goal Results - Current partnerships have been established between:
- East Lake and West Lake Resource Conservation District
- Lake County Watershed Groups (CRMPs’)
- Clearlake Chamber of Commerce

Problems in Obtaining Measurable Goals - None.

BMP Effectiveness – Effective. Cooperative efforts between the CRMPs and County have resulted in significant clean ups of creek corridors.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Coordinate with the PEOP workgroup to refine direction for the public education and outreach/public involvement and participation program, between municipalities, before developing additional partnerships with other agencies and organizations.
- Develop and distribute BMP brochures for car washing and landscaping services.
- Inquire about volunteers from other workgroups who may be able to assist with PIP activities such as the stenciling program.
• Look for new opportunities for partnerships in light of the new Phase II permit scheduled for approval in November 2012.

**PIP 3b – Assist in Coordinating Creek Cleanup Events with Local Organizations**

**County of Lake**

**BMP Appropriateness** - Appropriate. Illegal dumping in creeks is a widespread problem in Lake County and a major concern of many residents.

**Measurable Goal Results** - The County has been coordinating annual creek clean up events with the East Lake and West Lake Resource Conservation Districts (RCD) for many years. The RCD coordinates all field activities with active watershed groups in the area. Lake County Public Works (Road Dept.) picks up collected refuse and transports to the closest permitted facility. Lake County Public Services has waived the gate fees for approved community clean up events in past years. In addition, the County has been aggressively cleaning up illegal dump sites through its Code Enforcement Division, removing trash from streams and watersheds through its own abatement programs. These abatements include sites that have illegal encampments for marijuana cultivation, and the County has used its Stormwater Ordinance to Summary Abate several sites this year due to the severity of the stormwater violations.

**Problems in Obtaining Measurable Goals** – More difficult this year due to staffing cutbacks and reorganizations within the Community Development Department. Clean-up events are scheduled late for 2012, in September, for the clean up of 5 sites within the County. Estimated total amount of trash and junk being removed is 75 cubic yards.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year:**
• Continue the coordination of creek clean up events through the Resource Conservation District (RCD) and the Code Enforcement Division as requested by watershed groups and concerned citizens.

**City of Clearlake**

**BMP Appropriateness** – It is appropriate to clean-up illegal dumping and the natural filling of creeks with debris to maintain adequate flood capacity and to reduce the amount of sediment that reaches Clearlake, however the majority of clean-up involves using heavy machinery, backhoes and bulldozers which does not lend itself, from a safety standpoint, of working with private citizens.

**Measurable Goal Results** - City maintenance crews have performed their annual inspection and cleaning of all creeks, culverts and drop inlets to remove sediment and debris, for flood proofing and to prevent or reduce the amount of sediment that can reach Clearlake. During 2011-2012 City Public Works crews removed approximately 882 cubic yards of silt and mud, debris, and trash from storm drain ditches, channels, storm drain inlets and catch basin and our streets. The city sponsored an annual street clean-up day on April 28, 2012, and 45 cubic yards of trash and debris were removed and 75 cubic yard of debris and green waste was removed and approximately 140 people came out to help remove trash and debris from city streets and storm drainages immediately adjacent to the City’s arterial streets. A photo from the event can be viewed in Appendix 2-6.

**Problems in Obtaining Measurable Goals** - Lack of staffing at the administrative level. The City Engineer is in charge of carrying out much of the Storm Water Management Plan. Currently the City Engineers position is filled on an interim part-time basis. No other management staff from the City of Clearlake is available for this task at this time.

**BMP Effectiveness** - The cleaning of creeks with the city’s maintenance forces is the most effective and safest way to remove illegal dumping and removal of sediment from our drainage channels and creeks to
Section 3  Public Involvement and Participation

provide flood proofing. The use of citizen volunteer groups for this task in not considered effective by the City of Clearlake.

**Proposed Changes to BMPs and Measurable Goals** - None

**Activities Planned for Next Year:**
Schedule another annual clean up day in the Spring of 2013. City Public Works crews will continue to clean the City’s drainage channels and creeks using City Street maintenance personnel.

**City of Lakeport**

BMP Appropriateness – Appropriate. Illegal dumping in creeks is a periodic problem in Lakeport but does not appear to be a widespread problem. Very few public complaints are received by the Community Development Department. The City’s Public Works Department responds to complaints related to debris and trash in some of the City’s creeks.

**Measurable Goal Results** – No community creek cleanup events were held in FY 2011-2012.

The City participated in an annual downtown street clean-up day on May 19, 2012. Trash and debris was removed from curb areas and near storm drain inlets in the City’s core downtown area. The remaining portions of the drainages, inlets, and catch basins were cleaned by Public Works crews and inmates prior to the heavy rainy season. Approximately 40 cubic feet of trash and other materials were removed from the streets of Lakeport during the event. This trash would have otherwise ended up in the local waterways.

See Appendix 2-6 for a photo montage of this cleanup event.

**Problems in Obtaining Measurable Goals** - The City relies on volunteer organization and motivation to get cleanup events scheduled and managed. Finding committed volunteer coordinators to lead this effort remains challenging.

BMP Effectiveness – Effective

**Proposed Changes to BMPs and Measurable Goals** - City continues to work to establish partnerships with the community-based organizations and local businesses.

**Activities Planned for Next Year:**
- Contact local environmental organizations such as the West Lake Resource Conservation District to try to establish an annual creek clean up event in Lakeport
- Volunteer drive to establish core group to move clean-up efforts forward
- Continue forming partnerships with local businesses to provide promotional resources and possible financial resources aimed at creek clean-up activities

**PIP 3c – Support Adopt-a-Creek Programs**

**County of Lake, City of Clearlake and City of Lakeport**

BMP Appropriateness - This has been determined to be no longer appropriate or necessary. PIP 3b has proven to be effective, and considerable constraints exist regarding private property and access issues.

**Measurable Goal Results** - The issue has been previously discussed in the previous fiscal year among the PEOP/PIP workgroup participants. The primary constraint is that private property and access issues may make this program component difficult to implement. Creek clean up events hosted by volunteer groups, primarily CRMP serve the same purpose with measurable results.
Problems in Obtaining Measurable Goals - Lack of fiscal resources and access to private property by volunteers. Changing priorities between the co-permittees provides considerable obstacles to accomplishing this program task.

BMP Effectiveness - Not effective or practical. Replace with PIP 3b

Proposed Changes to BMPs and Measurable Goals - Replace with PIP 3b and continue to work with CRMP’s and Support Code Enforcement clean up efforts in watersheds.

Activities Planned for Next Year:
• This BMP has redundancy with respect to the CRMP and Code Enforcement creek cleanup events which are on-going and successful.
Table 3.2  Status and effectiveness of Public Activities and Participation Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
</tr>
<tr>
<td>PIP 2a</td>
<td>Review and update existing storm drain stenciling program.</td>
<td>Current stenciling program reviewed and updated (as needed) to achieve measurable goals.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>PIP 2b</td>
<td>Conduct storm drain stenciling.</td>
<td>Stencil 25% of existing storm drains.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
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<td></td>
<td>City of Lakeport</td>
<td>X</td>
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<tr>
<td>PIP 2c</td>
<td>Investigate opportunities for using volunteers to stencil storm drains.</td>
<td>Using volunteers to stencil storm drains discussed at PEOP workgroup meeting and / or with volunteers. Implemented as appropriate.</td>
<td>County of Lake</td>
<td>X</td>
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<tr>
<td>PIP 3a</td>
<td>Coordinate with local organizations and develop partnerships (as appropriate).</td>
<td>Discuss coordination with local organizations and collaborate as appropriate.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Lakeport</td>
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<tr>
<td>PIP 3b</td>
<td>Assist in coordinating creek clean up events with local organizations.</td>
<td>Number of creek clean up events conducted.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
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<td>City of Lakeport</td>
<td>X</td>
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<tr>
<td>PIP 3c</td>
<td>Support adopt-a-creek programs.</td>
<td>The primary constraint is that private property and access issues may make this program component difficult to implement. Creek clean up events hosted by volunteer groups, primarily CRMP serve the same purpose with measurable results.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Lakeport</td>
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</table>
PUBLIC INPUT AND INVOLVEMENT

PIP – 4: Public Notice SWMP and Receive Public Input

PIP 4b – Develop and Facilitate Advisory Council Meetings to Receive and Record Public Input

County of Lake, City of Clearlake and City of Lakeport

BMP Appropriateness - Appropriate to receive public input for a program that affects the public to help guide program changes which reflect the public involvement.

Measurable Goal Status - The County Stormwater Website includes the Clean Water Advisory Council meeting agendas. In addition, the agendas are emailed to a number of members of the public who have been attending the meetings. Ample opportunities for public input are provided during Council meetings. These meetings are open to the public and meeting announcements and agendas are posted at the County Courthouse, the City Halls of Lakeport and Clearlake, and on the County website.

Measurable Goal Results – County website redesigned and includes meeting agendas and minutes. Agendas posted in appropriate locations at Courthouse and both City Halls, consistent with legal noticing requirements of the State of California. Appendix 3-1 includes the Advisory Council meeting agendas and minutes for FY 2011/12.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective. Members of the public have attended recent meetings.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Continue with scheduled quarterly meetings and special meetings as required.
- Continue to publish upcoming meetings and Agenda on the Clean Water Program Web page.

PIP-5: Stormwater Telephone Hotline

PIP 5a – Develop and Implement Hotline for Public Comments/Concerns

County of Lake, City of Clearlake and City of Lakeport

BMP Appropriateness - Appropriate to have a mechanism where the public can express concerns, ask questions, report illegal dumping and report water quality violations.

Measurable Goal Results - The Lake County Clean Water Program had been using a dedicated phone number (707-263-2309) for the hotline, maintained by the Community Development Department for the County of Lake. However, budget restrictions forced the department to combine this number with the main Code Enforcement phone number. In addition, the front desk lines for the Cities of Clearlake and Lakeport are being maintained. The hotline number can be used by anyone, and for problems reported on the hotline that are located within either city, the Community Development Department contacts the appropriate City staff and forwards all the information.

Problems in Obtaining Measurable Goals – None.
Section 3  Public Involvement and Participation

**BMP Effectiveness** – Effective. The hotline is operational and calls have been received. The hotline number is listed in brochures and the County Clean Water Program website, in addition to the County Building and Safety Division’s main number.

**Proposed Changes to BMPs and Measurable Goals** – None.

**Activities Planned for Next Year:**
- Maintain hotline.

**PIP 5b – Include Hotline Numbers on Co-permittees Public Education and Outreach Materials and Websites**

**County of Lake, City of Clearlake and City of Lakeport**

**BMP Appropriateness** - Appropriate to advertise the stormwater hotline so it will get used.

**Measurable Goal Results** – Complete. The “hotline” number through County Community Development Department is listed on the Clean Water Program web page. Education and outreach materials which have been produced and include the co-permittees “hotline” numbers. The City of Lakeport and the County have also developed online reporting forms so that members of the community can report a storm water issue or incident in writing for immediate and receipt and response by staff. In FY 2010/2011 City of Lakeport modified their storm water website to include phone numbers for all three jurisdictions in the County, including the County of Lake “hotline” number.

**Problems in Obtaining Measurable Goals** – None.

**BMP Effectiveness** - Effective. The hotline is operational and calls have been received. The hotline number is listed in brochures and the County Clean Water Program website, in addition to the Building and Safety Division’s main number.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year:**
- Increase public awareness for the Stormwater Program “hotline” by increased distribution of brochures and flyers.

**PIP-6: Public Attitude Surveys**

**PIP 6a – Develop and Conduct General Public Attitude Survey**

**County of Lake, City of Clearlake and City of Lakeport**

**BMP Appropriateness** - Appropriate to have a mechanism whereby the public viewpoint can be monitored.

**Measurable Goal Results** - The City of Lakeport has drafted a survey to gauge public interest, understanding, and perspective about storm water quality issues and the stormwater program. The survey is available on the City’s website and is included in Appendix 3-4.

**Problems in Obtaining Measurable Goals** - Lack of fiscal resources and staffing to complete program tasks. Allocation of limited staff resources has been more effective in updating website, maintaining hotline, and aggressively addressing grading violations.

**BMP Effectiveness** - Unknown. No public feedback mechanism is in-place. Following the adoption of the next Phase II MS4 permit by the State Water Board at the end of 2012, the Lake County Clean Water
program members will re-evaluate this BMP in light of the new public involvement and participation permit requirements.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year:**
- Develop an on-line survey based on new MS4 Phase II Public Involvement and Participation BMP requirements and post to the Clean Water Program web page.
- The City of Lakeport plans to post the storm water survey on the City’s website.

### Table 3.3  Status and effectiveness of Public Input and Involvement Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIP 4b</td>
<td>Develop and facilitate Advisory Council meetings to receive and record public input.</td>
<td>Public input recorded in quarterly meeting summaries.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>City of Clearlake</td>
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<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>PIP 5a</td>
<td>Develop and implement hotline for public comments / concerns.</td>
<td>Hotline developed and implemented.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>PIP 5b</td>
<td>Include hotline number on Co-permittee public education and outreach material and websites.</td>
<td>Hotline number advertised on Co-permittee websites and education and outreach materials</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>PIP 6a</td>
<td>Develop and conduct general public attitude survey.</td>
<td>Develop an on-line survey and post to the Clean Water Program web sites</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Lakeport</td>
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</table>
TRACKING AND REPORTING

PIP – 7: PIP Tracking and Reporting

**PIP 7b – Develop a Tracking System to Annually Track Stenciled Storm Drains**

**County of Lake**

**BMP Appropriateness** – No longer appropriate as the County has adopted a program of requiring permanent storm drain markers on all new storm drains.

**Measurable Goal Results** – Incomplete.

**Problems in Obtaining Measurable Goals** - Lack of fiscal resources and staffing to stencil and maintain. Therefore, this BMP has been modified.

**BMP Effectiveness** – Unknown, as not yet implemented.

**Proposed Changes to BMPs and Measurable Goals** – County now requires permanent storm drain markers to be installed on all new storm drains.

**Activities Planned for Next Year:**
- Complete the development of a tracking system to annually track storm drains that are permanently marked.

**City of Clearlake**

**BMP Appropriateness** - Not appropriate. The city does not need to track its annual stenciling program. As the storm drain inlets and catch basins are cleaned annually, the stenciling of our inlets will be checked annually and re-painted as necessary to maintain readability. In 2009-10 the City installed 100 permanent storm drain markers on the majority of its inlets and catch basins. Once permanent markings are installed monitoring and tracking will not be needed.

**Measurable Goal Results** – None

**Problems in Obtaining Measurable Goals** – None

**BMP Effectiveness** – Tracking will not be needed for stenciling, as the City has installed permanent storm drain markers.

**Proposed Changes to BMPs and Measurable Goals** – None

**Activities Planned for Next Year:** The city installed permanent storm drain markers on its inlets and catch basins in May 2010. Only minimal monitoring or tracking will be needed.

**City of Lakeport**

**BMP Appropriateness** - Appropriate to track storm drain stenciling to assess what has been completed and what remains for public involvement and volunteer efforts. Unknown if this BMP will be appropriate in the future as the City plans to use permanent markers that can be affixed to the street/curb surface near storm drain inlets. Once permanent markings are installed, monitoring and tracking may not be needed.

**Measurable Goal Results** – Complete.
Problems in Obtaining Measurable Goals – City budget issues have resulted in the loss of a dedicated GIS manager who maintained the storm water system layer. Existing staff will try to maintain current records of stenciling and marking activities.

BMP Effectiveness - Effective with respect to painted stencil markings.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Install permanent markers on storm drains which were previously painted with stencils. Continue to expand installation of permanent markers on other storm drains in the City. Compile data into database which can be integrated into the City’s GIS system. Maintain tracking system to annually inspect stenciled or marked storm drains, if necessary.

**PIP 7c Implement Tracking System to Annually Track Stenciled Storm Drains**

**County of Lake**

BMP Appropriateness - Appropriate to track storm drain stenciling as a measure of program completeness and to assess public awareness of the program.

Measurable Goal Results – Incomplete.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing to implement the program tasks. Inventory of storm drains was delayed, which delayed the ability to implement this BMP.

BMP Effectiveness - Unknown.

Proposed Changes to BMPs and Measurable Goals – County moving away from concept of stenciling, and now requiring new storm drains to be marked with permanent markers.

Activities Planned for Next Year:
Add a GIS layer to the MS4 maps for tracking of storm drains that have had permanent markers installed.

**City of Clearlake**

BMP Appropriateness – Not appropriate

Measurable Goal Results – None

Problems in Obtaining Measurable Goals – None

BMP Effectiveness – Not required, therefore not effective.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - None

**City of Lakeport**

BMP Appropriateness - Appropriate to track storm drain stenciling as a measure of program completeness and to assess public awareness of the program.

Measurable Goal Results –Complete.
Problems in Obtaining Measurable Goals - Funding for the program remains a constant issue with the City Council; however, staff has been successful in justifying the need and reasons to maintain the program.

BMP Effectiveness - Effective

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - See response to 7b. Also continue to develop GIS layer for tracking of storm drains that have had stencils or permanent markers installed.

**PIP 7d – Revise and Implement Current Tracking and Reporting Procedures for the Public Involvement and Participation Program**

**County of Lake, City of Clearlake and City of Lakeport**

BMP Appropriateness - Appropriate to revise existing tracking and reporting procedures so that information tracked is useful in determining the effectiveness of measures implemented and aids in the annual reporting process.

Measurable Goal Results - Modified Lake County Clean Water Program web page to use a “counter” to track the number of “hits”; now stands at 4,629 hits. Lakeport added a counter to it’s web page in FY 11-12 and now stands at 144 hits. Clean Water Advisory Council meeting agendas are posted to website and in conspicuous locations at Courthouse and City Halls. Members of the public are attending meetings. Clean Water Program Hotline is operational and 10 to 20 calls are received annually (not including calls to main County Building and Safety Division number).

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness - Effective. Public participation reflected in Council meeting minutes and website counter.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
- Maintain website
- Continue to make meeting agendas available to public in advance of Advisory Council meetings.
- City of Lakeport plans to add a “page counter” to track number of site visits to the City’s Clean Water Program web page.
Table 3.4 Status and effectiveness of PIP Tracing and Reporting Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>County of Lake</td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
</tr>
<tr>
<td>PIP 7a</td>
<td>Conduct an assessment of current tracking and reporting procedures.</td>
<td>Assessment complete.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
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<td>City of Lakeport</td>
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</tr>
<tr>
<td>PIP 7b</td>
<td>Develop tracking system to annually track stenciled drains.</td>
<td>Develop tracking system</td>
<td>County of Lake</td>
<td>X</td>
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<tr>
<td>PIP 7c</td>
<td>Implement tracking system to annually track stenciled drains.</td>
<td>Implement tracking system</td>
<td>County of Lake</td>
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<td>X</td>
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<tr>
<td>PIP 7d</td>
<td>Revise and implement current tracking and reporting procedures.</td>
<td>Tracking and reporting procedures revised and implemented.</td>
<td>County of Lake</td>
<td>X</td>
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SECTION 4
CONSTRUCTION SITE STORMWATER RUNOFF CONTROLS

BACKGROUND

Construction sites can generate a variety of pollutants that may be discharged (via storm water) and adversely affect beneficial uses of receiving water bodies. Of particular concern are the impacts of sediment. The process by which sediment is transported off a construction site and causes impacts to water bodies entails three-steps: (1) soil disturbance, (2) erosion, and (3) sedimentation. In order to control the impact of erosion, sedimentation, and other pollutants on receiving waters, the State Water Resources Control Board (SWRCB) developed Waste Discharge Requirements for Discharges of Storm water Runoff Associated with Construction Activity and issued a stateside general NPDES permit (Construction General Permit). The primary objective of the Construction General Permit is to reduce erosion and minimize or eliminate sediment and non-storm water discharges from construction sites by implementing appropriate measures to reduce potential impacts on water bodies. Individuals or entities that own land where one acre or greater of soil is planned to be disturbed must seek coverage under the Construction General Permit.

Under the Municipal Phase II NPDES Permit and in collaboration with the Construction General Permit, Co-permittees are required to develop, implement, and enforce a program to reduce pollutants in any storm water runoff to their MS4 from construction activities that result in a land disturbance of greater or equal to one acre. To comply with the construction site storm water runoff control requirement, the Program is developing and implementing a Construction site Runoff Control (CON) Program.

GOALS AND OBJECTIVES

The goal of the CON Program is to reduce the discharge of storm water pollutants to the maximum extent practicable (MEP) by: (1) requiring construction sites to reduce sediment in site runoff; and (2) requiring construction sites to reduce other pollutants such as litter and concrete washout wastes through good housekeeping procedures and proper waste management. To achieve this goal, the following objectives have been developed:

- Effectively prohibit non-storm water discharges and require controls to reduce the discharge of pollutants during construction;
- Minimize land disturbance at construction sites;
- Protect water quality from pollutants generated by construction activities;
- Require BMP implementation at construction sites; and,
- Develop and implement measurable goals to evaluate the success of the BMPs

CONSTRUCTION SITE STORMWATER RUNOFF CONTROLS

The CON element is divided into four categories to effectively address storm water issues related to construction site runoff. These categories are: (1) CON Program Management (i.e., workgroup, ordinance and BMP development); (2) Construction Site Plan Review and Inspections; (3) Construction Site Education and Outreach; and, (4) Tracking and Reporting. For each category, specific BMPs and associated implementation timelines were adopted in the Program’s SWMP.

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1 Phase II NPDES Permit requirement also includes any construction activity that disturbs one acre or more of soil, or is a part of a larger common plan of development or sale that would disturb one acre or more.
FY 11/12 BMP STATUS AND ACCOMPLISHMENTS

GENERAL SUMMARY

The status of BMPs scheduled for implementation in FY 2011/12 are listed in Tables 4.1-4.4 and briefly described in this section. Additionally, BMP effectiveness and activities planned for next fiscal year are also described.

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL PROGRAM MANAGEMENT

CON-1: Construction and Post Construction Runoff Control (CON) Workgroup

CON 1b – Conduct CON Workgroup Meetings Quarterly

BMP Appropriateness – This BMP is appropriate for facilitating discussion among those parties involved in the construction plan review and inspection process. The CON tasks are a high priority due to the development pressures on the County during this reporting period.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Status - On going. The CON and PCON Working Group has maintained a regular meeting schedule for this reporting period. Given the prioritization of the CON and PCON program elements, regularly scheduled Workgroup meetings will continue. This workgroup was combined in September 2009 and began meeting at that time. The workgroup is chaired by the Lake County Chief Building Official. CON/PCON Workgroup Meeting Agendas are attached in Appendix 4-1.

Measurable Goal Results - Regular meetings have been difficult to maintain, but staff is committed to ensuring meetings happen regularly. The group met regularly during this reporting year.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective. The Workgroup has adopted BMP and training materials provided by CALTRANS and CASQA, and will continue to develop checklists and brochures. The workgroup will also spend time discussing stormwater aspects of projects currently under review.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Continue meeting quarterly to further review and develop CON & PCON procedures.

CON-2: Ordinance, Authority and Program Structure Review, Preparation and Adoption

CON 2b – Begin CON Ordinance (or equivalent) preparation or begin revising existing ordinance (e.g., grading ordinance) to gain required authority

Measurable Goal Status – Complete. An equivalent ordinance has been adopted by the Lake County Board of Supervisors. The County grading ordinance was adopted by the Board of Supervisors in 2007.

BMP Appropriateness - Appropriate to have an ordinance or other mechanism to gain the required legal authority to implement this program.
County of Lake

Measurable Goal Results – Complete; An equivalent ordinance (Storm Water Management Ordinance 2772) was adopted on May 16, 2006. The Grading Ordinance was adopted on July 16, 2007 by the Board of Supervisors.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year – None.

City of Clearlake


Problems in Obtaining Measurable Goals - None.

BMP Effectiveness – Adoption of a Stormwater ordinance by the City of Clearlake is effective tool as a part of Clearlake’s overall Clean Water Program.

Proposed Changes to BMPs and Measurable Goals - None

Activities Planned for Next Year - None.

City of Lakeport

Measurable Goal Results – Complete. An equivalent ordinance (Storm Water Management Ordinance No. 853) was adopted by the City of Lakeport in June 2006. Said Ordinance has been incorporated into the Lakeport Municipal Code at Chapter 8.40.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year – None.

**CON 2c – Adopt CON Ordinance (or equivalent) prepare or revise existing ordinance to gain required authority**

Measurable Goal Status – Complete. The Storm Water Management Ordinance (2772) has been adopted by the County; City of Clearlake has adopted an Ordinance adding Chapter 14.0 to the Clearlake Municipal Code regarding Storm Water Management; the City of Lakeport has adopted Ordinance No. 853 adding Chapter 8.40 to the Lakeport Municipal Code regarding Storm Water Management.

BMP Appropriateness - Appropriate to have an ordinance or other mechanism to gain the required legal authority to implement and enforce this program.

County of Lake
Measurable Goal Results – Complete. The Lake County Storm Water Management Ordinance No. 2772, adding Chapter 29 to the Lake County Code regarding Storm Water Management, was adopted during the FY 05/06 reporting period.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year – None.

City of Clearlake

Measurable Goal Results

Problems in Obtaining Measurable Goals -None

BMP Effectiveness – Adoption of the City's Stormwater ordinance will provide an excellent tool in implementing Clearlake's Clean Water Program.

Proposed Changes to BMPs and Measurable Goals –None

Activities Planned for Next Year -None

City of Lakeport


Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year – Continue to monitor construction activities involving soil disturbance and enforce the provisions of the storm water ordinance.

CON-3: Sediment and Erosion Control BMPs

CON 3b – Revise Sediment and Erosion Control BMP Materials as Appropriate

BMP Appropriateness - Appropriate to revise materials as needed to keep current with technology and regulatory guidelines/constraints.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Complete. Ongoing; Lake County & City staff have prepared several brochures addressing the overall Stormwater Program; Minimum Erosion Control Measures for Single Family Home Construction to address in-fill sites less than 1 acre of ground disturbance; Concrete Waste and Clean Up brochure addressing the need to educate public and contractors about the need for containing concrete wastes. These brochures have been made available to all co-permittees for use and
distribution. Most of this information is also available on the Program Website and the City of Lakeport’s website.

**Problems in Obtaining Measurable Goals** – None.

**BMP Effectiveness** – Effective.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** – Continue to evaluate existing materials for potential updates and revisions.

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**CON 3c – Make BMP Information Available to Developers, Construction Site Staff and the General Public**

BMP Appropriateness - Appropriate. If information is not made available to developers, construction site operators and the general public, those individuals and entities cannot be informed about the Storm Water Management Program, the need for a SWPPP, and the implications for non-compliance.

**County of Lake, City of Clearlake and City of Lakeport**

**Measurable Goal Results** – Complete. Ongoing. BMP information for developers, construction site staff and the general public is readily available at front desk counters without asking. Accessing BMP information which may be project specific, the interested party(ies) are being directed to the Lake County Clean Water Program web site and to the CASQA web site. The CASQA BMP Handbooks have been adopted by the City of Clearlake, the City of Lakeport, and the Lake County Department of Public Works and Community Development Department.

**Problems in Obtaining Measurable Goals** – None.

**BMP Effectiveness** - Effective. The BMP material made available has resulted in some feedback from staff and the general public indicating it is well received.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Continue making BMP information available to developers, construction site operators and the general public through handouts, the Lake County web page, and through Public Education and Outreach programs. Distribute applicable brochures to the City of Lakeport for inclusion on their storm water website.
### Table 4.1

Status of construction site stormwater runoff control program management BMPs for each Lake County Clean Water Program Co-permittee scheduled for implementation in Fiscal Year 2011/12.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
</tr>
<tr>
<td>CON 1b</td>
<td>Conduct CON Workgroup meetings quarterly.</td>
<td>CON Workgroup meeting summaries and attendees list.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>CON 2b</td>
<td>Begin CON ordinance (or equivalent) preparation or begin revising existing ordinance (e.g. grading ordinance) to gain required authority.</td>
<td>CON ordinance preparation complete.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>CON 2c</td>
<td>Adopt CON ordinance (or equivalent) or revise existing ordinance to gain required authority.</td>
<td>COC ordinance (or equivalent) adopted or existing ordinance revised.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>CON 3b</td>
<td>Revise sediment and erosion control BMP material as appropriate.</td>
<td>Existing information revised.</td>
<td>County of Lake</td>
<td>X</td>
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<td>X</td>
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<td></td>
<td></td>
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<td>X</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>CON 3c</td>
<td>Make BMP information available to developers, construction site staff and the general public.</td>
<td>Materials made available via agency counters and links on County website.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### Procedure Development and Training

#### CON-4: Plan Review and Inspection Procedures and CON Program Funding

**CON 4a – Compile and Review Information on Existing Plan Review and Site Inspection Procedures and Fee Structures**
County of Lake

**Measurable Goal Results** – Complete-Ongoing. Continue to review and update information on existing grading plan review and site inspection procedures with respect to slopes and drainage BMPs and soil stabilization.

**Problems in Obtaining Measurable Goals** – None.

**BMP Effectiveness** - Effective.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** – Continue to evaluate existing plan review and site inspection procedures and pursue a construction permit fee surcharge ordinance as soon as the local economy recovers.

City of Clearlake

**Measurable Goal Results** – Complete-Ongoing. Continue to review and update information on existing grading plan review and site inspection procedures with respect to slopes and drainage BMPs and soil stabilization.

**Problems in Obtaining Measurable Goals** – None.

**BMP Effectiveness** – The ongoing review and improvement of the City’s planning and inspection procedures are effective in meeting the goals of Lake County’s Storm Water Plan.

**Proposed Changes to BMPs and Measurable Goals** – None, continue the City’s ongoing review of our planning and inspection procedures.

**Activities Planned for Next Year** – Continue the City’s ongoing review and improvements of the City’s planning and inspection review process. In addition the City of Clearlake will work in coordination with Lake County and the City of Lakeport to maintain and improve training capabilities. As time and fiscal resources allow the City will take advantage of any on-line training seminars or webinars on Storm Drain Management Programs.

City of Lakeport

**Measurable Goal Results** – Complete-Ongoing. Storm water impacts are addressed in conjunction with plan review/plan check activities.

**Problems in Obtaining Measurable Goals** – None.

**BMP Effectiveness** - Effective.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** – Continue to utilize stormwater-related checklist when conducting plan reviews and site inspections.
**CON 4b – Revise Existing Plan Review and Site Inspection Procedures and Fee Structures (as appropriate)**

**County of Lake**

Measurable Goal Results – Complete, Ongoing. Continue reviewing existing plan review procedures and seek approval by the Board of Supervisors for a fee ordinance amendment to add a stormwater surcharge to new construction once the local economy recovers.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Revise as necessary plan review and site inspection procedures.

**City of Clearlake**

Measurable Goal Results – Complete, Ongoing. Continue reviewing existing plan review procedures. The City Administrator reviewed all building fees in 2007-08, and made changes where appropriate to conform to state and local government laws. No additional changes have occurred since then. The City Engineer continues to provide in-house training of the City’s building inspector and permit technician on the implementation of BMP’s for all new building construction, grading permits, and public works construction to meet City Standards.

Problems in Obtaining Measurable Goals – The City Engineer continues to provide in house training to the City’s building inspector and permit technician.

BMP Effectiveness – Improvements in the City’s Planning review and construction inspection procedures aid the City in the implementation of the Lake County Storm Water Management Plan.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year – The City will continue its ongoing review of planning and inspection procedures and where appropriate make the necessary revisions to the City’s procedures. As time and fiscal resources allow the City will take advantage of any on-line training seminars or webinars on Storm Drain Management Programs

**City of Lakeport**

Measurable Goal Status – Complete. Ongoing. Fee structures related to general building permits and plan reviews have been revised and implemented.

Measurable Goal Results – Ongoing.

Problems in Obtaining Measurable Goals – None; however, City continues to evaluate how to implement the fee structure component of this BMP.

BMP Effectiveness – Our efforts are deemed effective based on the low number of storm water-related complaints/problems logged by the Community Development Department.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – None; however, City staff will revise existing plan review and site inspection procedures if necessary. If determined to be necessary, the City will consider the adoption of
construction-related storm water program fees that can aid in recovery of costs related to inspection/enforcement efforts.

**CON 4c – Implement Plan Review and Site Inspection Procedures and Revised Fee Schedule**

**County of Lake**

Measurable Goal Results – Completed, ongoing. Plan review and site inspection procedures have been updated based upon CON 4a & 4b. Revisions to these review and inspection procedures are ongoing. County continues to maintain a Grading and certified Stormwater Inspector.

Problems in Obtaining Measurable Goals – None at this time.

BMP Effectiveness - Effective. Plan review and site inspection procedures have been updated and implemented.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Continue to streamline plan review and inspection processes for grading and stormwater issues.

**City of Clearlake**

Measurable Goal Results – Complete. See section 4a, & 4b.

Problems in Obtaining Measurable Goals – Lack of fiscal resources and manpower has impeded the City in working on this program goal, however the City will continue to assess its planning and inspection procedures and make improvements and make changes as appropriate.

BMP Effectiveness – On going improvements in the City's Planning review and construction inspection procedures will improve implementation of the Lake County Storm Water Management Plan.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Continue the City's on going program.

**City of Lakeport**

Measurable Goal Results – Complete. Ongoing. The City of Lakeport has adopted new (higher) fees for building permits and Planning applications. The majority of these fees are tied to the Consumer Price Index and are increased annually consistent with the increase in the CPI.

Problems in Obtaining Measurable Goals – None

BMP Effectiveness - The low number of storm water-related complaints/problems logged by the Community Development Department during FY 2011-2012 would indicate that the City's current efforts are effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Continue existing procedures and protocols.
CON 5b – Revise Training Program for Site Inspectors and Plan Reviewers and Develop Training Manual

BMP Appropriateness - Appropriate to have a training program for site inspectors and plan reviewers and an associated training manual so that municipal staff is aware of current regulations and technologies and understand the responsibilities and interactions of all departments involved in the plan review and inspection process.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Complete. Ongoing. The CALTRANS / CASQA training program has been adopted and four individuals have obtained Stormwater Inspector Certification.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and manpower to accomplish program tasks, including layoffs within County Building and Safety Division, are still slowing progress.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Continue monitoring training program and insure agency staff are attending training sessions as available, and budget will allow.

CON 5c – Implement an Annual Training Program for Site Inspectors and Plan Reviewers

BMP Appropriateness - Appropriate to have a training program for site inspectors and plan reviewers and to implement the program so that all appropriate County staff understand the Program, understand the inspection procedures, and are informed about the specifics of BMPs related to CON as they relate to water quality in the receiving water body.

County of Lake

Measurable Goal Results – Complete. Ongoing. The CALTRANS / CASQA training programs have been adopted and two individuals have obtained Stormwater Inspector Certification.

Problems in Obtaining Measurable Goals - As fiscal resources and manpower allow the County will continue to improve training to staff involved in the planning review and inspection.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Continue to train and develop department personnel.

City of Clearlake

Measurable Goal Results – Continue to implement in house training of plan reviewers and building site inspectors as fiscal resources and manpower allows. During this reporting year (2011-2012) building and site inspectors from Lake County, City of Clearlake, and the City of Lakeport met on a regular basis to review and evaluate existing BMPs for potential updates and revisions. The three (3) agencies have adopted the CASQA Handbooks and the Caltrans Training manuals for inspectors and plan reviewers.
Problems in Obtaining Measurable Goals – As fiscal resources and manpower allow the City will continue to improve training to staff involved in the planning review and inspection.

BMP Effectiveness – Improving training to plan reviewers and site inspectors will help the City implement its planning and construction standards and implement the Lake County Stormwater Management Plan.

Proposed Changes to BMPs and Measurable Goals – None.

Activities Planned for Next Year – Continue the City’s ongoing in-house training program as time and staff permit. The City will continue to work in cooperation with Lake County and the City of Lakeport to provide cross training of inspectors and technicians between the entities through joint workshops. As time and fiscal resources allow the City will take advantage of any on-line training seminars or webinars on Storm Drain Management Programs.

City of Lakeport

Measurable Goal Results – Ongoing. The City’s Building Official continues to participate in the CON/PCON workgroup with other county and city inspectors. The Building Official will continue to participate in storm water-related training activities.

Problems in Obtaining Measurable Goals – Budget constraints have placed greater difficulties on the City Building Official to attend training opportunities. Additional training is a goal in FY 2012/2013.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – The City will continue to participate in the CON/PCON workgroup in cooperation with Lake County and the City of Clearlake. In-house training is also proposed. As time and fiscal resources allow the City will take advantage of any on-line and low-cost training related to Storm Water Management.

CON-6: Construction Site Operator Training

CON 6b – Revise Training Program for Site Operators and Develop Training Manual

BMP Appropriateness - Appropriate to have a training program for construction site operators so that they are aware of current technologies and regulations.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Incomplete and ongoing. A formal training program for site operators has not been established. However, the development officials in all jurisdictions regularly advise site operators of proper stormwater BMPs when conducting site inspections where grading or other site disturbances are taking place.

Problems in Obtaining Measurable Goals – Lack of fiscal resources and staffing to establish a formal training program.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Lake County agencies intend to continue to coordinate ongoing training workshops for site operators. The CON/PCON workgroup will continue to discuss training site operators at its regular meetings. Since development and construction has slowed significantly in Lake County, the
cities and county have found it to be more efficient to discuss stormwater BMPs directly with site operators when permits are being issued rather than conducting formal training workshops.

**CON 6c – Implement an Annual Training Program for Site Operators**

**BMP Appropriateness** - Appropriate to have a training program for construction site operators to make them aware of current technologies, regulations, and compliance issues.

**County of Lake**

**Measurable Goal Results** – Incomplete and ongoing. A formal training program for site operators has not been established. However, the City’s Building Official regularly advises site operators of proper stormwater BMPs when conducting site inspections where grading or other site disturbances are taking place.

**Problems in Obtaining Measurable Goals** – Lack of fiscal resources and staffing to establish a formal training program.

**BMP Effectiveness** - Unknown. However, the County of Lake Building Official indicates that site operators working in the county have a good understanding of appropriate stormwater BMPs.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** – Lake County intends to continue to coordinate ongoing training workshops for site operators with both Cities.

**City of Clearlake**

**Measurable Goal Results** – Incomplete and ongoing. A formal training program for site operators has not been established. However, the City’s sole Building Official regularly advises site operators of proper stormwater BMPs when conducting site inspections where grading or other site disturbances are taking place.

**Problems in Obtaining Measurable Goals** – Lack of fiscal resources and staffing to establish a formal training program.

**BMP Effectiveness** – Unknown. However, the City Building Official indicates that site operators working in the county have a good understanding of appropriate stormwater BMPs.

**Proposed Changes to BMPs and Measurable Goals** – None.

**Activities Planned for Next Year** – City intends to follow County lead with adoption of an annual training program for site operators. City Building Official shall continue to engage in training opportunities with site operators while conducting on-site inspections.

**City of Lakeport**

**Measurable Goal Results** – Incomplete and ongoing. A formal training program for site operators has not been established. However, the City’s sole Building Official regularly advises site operators of proper stormwater BMPs when conducting site inspections where grading or other site disturbances are taking place.

**Problems in Obtaining Measurable Goals** - Lack of fiscal resources and staffing to establish a formal training program.
BMP Effectiveness - Unknown. However, the Lakeport Building Official indicates that site operators working in Lakeport have a good understanding of appropriate storm water BMPs. Storm water problems related to site operator’s activities are typically minor according to the Building Official.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – City intends to follow County lead with adoption of an annual training program for site operators. City Building Official shall continue to engage in training opportunities with site operators while conducting on-site inspections.
Table 4.2 Status of procedure development and training BMPs for each Lake County Clean Water Program Co-permittee scheduled for implementation in Fiscal Year 2011/12.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>CON 4a</td>
<td>Compile and review information on existing plan review and site inspection procedures and fee structures.</td>
<td>Information from existing plan review and site inspection procedures and fee structures completed and reviewed.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>CON 4b</td>
<td>Revise existing plan review and site inspection procedures and fee structure (as appropriate).</td>
<td>Existing plan review and site inspection procedures and fee structures revised (as appropriate).</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>CON 4c</td>
<td>Implement plan review and site inspection procedures and revised fee structures.</td>
<td>Plan review and site inspection procedures and fee structure implemented.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
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<td>City of Lakeport</td>
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<tr>
<td>CON 5b</td>
<td>Revise training program for site inspectors and plan reviewers and develop training manual.</td>
<td>Training manual developed.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Lakeport</td>
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<tr>
<td>CON 5c</td>
<td>Implement training programs for construction site operator training.</td>
<td>Training program implemented.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Lakeport</td>
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<td>X</td>
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<tr>
<td>CON 6b</td>
<td>Revise training program for site operators and develop training manual.</td>
<td>Training manual developed.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Lakeport</td>
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<tr>
<td>CON 6c</td>
<td>Implement an annual training program.</td>
<td>Training program implemented.</td>
<td>County of Lake</td>
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</table>
CONSTRUCTION RUNOFF CONTROL EDUCATION AND OUTREACH

CON – 7: Public Education/Outreach and Involvement/Participation

CON 7b – Develop New Education and Outreach Material as Necessary and Make Available to the Public

BMP Appropriateness - Appropriate to revise existing materials and develop new education and outreach materials as appropriate to keep up to date with regulations, current technologies and the needs of the construction community.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Complete, Ongoing. Several brochures, such as Keep Clear Lake... brochure have been developed. These brochures are posted at the front counters at the City of Clearlake, City of Lakeport and Lake County Community Development Department. Each agency also distributes the BMP’s for residential construction that was developed by Lake County, and keeps the Concrete Waste and Clean up brochure available at the counters. Display racks have been installed in the lobby of the County Community Development Department for ease of access to information, and these brochures can be downloaded from the Clean Water Program Website operated by the County.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year –
- Revise and update existing materials as required and develop or obtain new materials.
- Continue to update the Clean Water Program website with educational information pertaining to construction stormwater runoff management.
- Distribute all applicable brochures and other outreach material to the City of Lakeport for inclusion on the City’s Storm Water web page.

Table 4.3 Status of procedure development and training BMPs for each Lake County Clean Water Program Co-permittee scheduled for implementation in Fiscal Year 2011/12

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
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<tr>
<td>CON 7b</td>
<td>Develop new education and outreach materials as necessary and make available to the public.</td>
<td>New education and outreach materials related to the CON program activities developed and made available to the public.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Clearlake</td>
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<td>City of Lakeport</td>
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</tbody>
</table>
CON – 8: Construction Site Stormwater Runoff Control Program Tracking and Reporting

CON 8b – Revise and Implement Reporting and Tracking Procedures

BMP Appropriateness - Appropriate to revise tracking and reporting procedures, if needed, before implementation.

County of Lake, City of Clearlake, and City of Lakeport

Measurable Goal Results – Complete, ongoing. Reporting of stormwater runoff complaints is done proactively by building inspection and planning staff of the three co-permittees. In addition, the stormwater hotline operated by the County Community Development Department provides a venue for the public to report illicit discharges and grading violations. Tracking systems exist within each of the three co-permittees electronic permit systems for building and grading permits. In addition, the County Community Development Department has created and implemented a separate Grading and Stormwater Tracking Log that contains all relevant information for each site, whether under permit or in violation. A sample of this Log is included in Appendix 4-3.

The City of Lakeport's Storm Water web site includes a new storm water issue complaint form that can be submitted electronically. See Appendix 4-4 for a copy of the online storm water complaint form.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness - Effective

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – None.

Table 4.4 Status of tracking and reporting BMPs for each Lake County Clean Water Program Co-permittee scheduled for implementation in Fiscal Year 2011/12

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>CON 8b</td>
<td>Revise and implement tracking and reporting procedures.</td>
<td>Tracking and reporting procedures revised and implemented.</td>
<td>County of Lake</td>
<td>Complete X</td>
<td>Incomplete X</td>
<td>Ongoing X</td>
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<td></td>
<td></td>
<td>City of Clearlake</td>
<td>Complete X</td>
<td>Incomplete X</td>
<td>Ongoing X</td>
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<td></td>
<td></td>
<td></td>
<td>City of Lakeport</td>
<td>Complete X</td>
<td>Incomplete X</td>
<td>Ongoing X</td>
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SECTION 5
POST CONSTRUCTION STORMWATER MANAGEMENT

BACKGROUND
New development and significant redevelopment projects can adversely affect receiving water bodies for decades if post-construction storm water management elements are not implemented and maintained over the life of the project. Under the General Permit, Co-permittees are required to develop, implement, and enforce a program to address storm water runoff from new and redevelopment projects that disturb greater than or equal to one acre of soil. This program is named the Post Construction Stormwater Management Program (PCON).

GOALS AND OBJECTIVES
The goal of the PCON Program is to reduce the long-term adverse impacts of significant new and redevelopment on storm water and receiving water bodies. To achieve this goal, the following objectives have been developed:

- Develop and implement strategies, which include a combination of structural and non-structural BMPs as appropriate;
- Minimize the creation of impervious surfaces at new and redevelopment projects;
- Control pollutants by eliminating or reducing potential new sources through the implementation of BMPs;
- Adopt and implement an ordinance or other regulatory mechanism to address post-construction runoff from significant new and redevelopment projects;
- Ensure adequate long-term operation and maintenance of BMPs; and,
- Develop and implement measurable goals to evaluate the success of the BMPs.

POST CONSTRUCTION STORMWATER MANAGEMENT BMPs
The PCON element is divided into four categories to effectively address storm water issues related to construction site runoff. These categories are: (1) PCON Program Management (i.e., workgroup, ordinance and BMP development); (2) Development Plan Review and Training; (3) Post-Construction Education and Outreach; and, (4) Tracking and Reporting. For each category, specific BMPs and associated implementation timelines were adopted in the Program’s SWMP.

FISCAL YEAR 2011/12 ACCOMPLISHMENTS

GENERAL SUMMARY
The initial objectives of the PCON Program element were to educate County and City (co-permittees) departments that would be involved within the Post-Construction Storm Water Management portions of the SWMP.

Included with the primary objectives of the program element are the evaluation and revision of existing ordinance(s), authorities, activities and programs structures. The PCON Workgroup has traditionally met concurrently with the CON Workgroup; and continued to do so this year. Development and implementation of the program requirements for post-construction storm water management moved forward as each of the responsible parties has adopted the CASQA “Best Management Practices

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1 The term “significant redevelopment” refers to alterations of a property that change the “footprint” of a site or building in such a way that there is a disturbance of equal to or greater than 1 acre of land. The term does not include such activities as exterior remodeling. Because redevelopment projects may have site constraints not found on new development sites, the rule provides flexibility for implementing post-construction controls on redevelopment sites that consider these constraints.
Handbook” and is implementing its BMP’s.

The status of BMPs implemented in FY 2011/12 are listed in Tables 5.1 – 5.4 and briefly described in this section. Additionally, BMP effectiveness and activities planned for next fiscal year are also described. Please note that many PCON BMPs scheduled for implementation in FY 2011/12 were implemented jointly by all three (3) Co-permittees.

**POST CONSTRUCTION SITE STORM WATER RUNOFF CONTROL PROGRAM MANAGEMENT**

**PCON-1 Post Construction Runoff Control (PCON) Work Group**

*PCON 1b – Conduct PCON Workgroup meetings quarterly*

**BMP Appropriateness**

Appropriate to bring together the various people involved in the development, construction plan review and inspection process for a cohesive effort.

**County of Lake, City of Clearlake and City of Lakeport**

Measurable Goal Status- Complete. Ongoing. The PCON Working Group was combined with the CON Workgroup in September 2009, and has maintained a regular meeting schedule. CON/PCON Workgroup agendas are attached in Appendix 4-1.

Measurable Goal Results – Adopted the CASQA “Best Management Practices Handbook” to address new development and redevelopment projects.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness- Meetings are effective. The Workgroup meets quarterly and all jurisdictions have adopted the CASQA “Best Management Practices Handbook”.

**Proposed Changes to BMPs and Measurable Goals**- None.

Activities Planned for Next Year- Continue to schedule and hold regular meetings.

**PCON-2: Ordinance, Authority and Program Structure Review, Preparation and Adoption**

*PCON 2b – Begin PCON ordinance (or equivalent) preparation or begin revising existing ordinances to gain required authority*

**BMP Appropriateness** - Appropriate to have an ordinance or equivalent mechanism to gain the required authority to implement the program.

**County of Lake**


Measurable Goal Results - The County has adopted a Stormwater Ordinance which provides for the authority required to implement PCON Ordinances and/or Resolutions. An amendment to the Stormwater Ordinance has been adopted as the County BMP Manual, pertaining to ground disturbance of one acre or more to read: “one acre or more of new impervious surfaces”.

Problems in Obtaining Measurable Goals- None.
BMP Effectiveness- Effective. CASQA BMP Handbook is used in the review of new development and redevelopment projects, and applicable BMP’s incorporated into project design.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None needed.

City of Lakeport

Measurable Goal Status- Complete.

Measurable Goal Results- The City of Lakeport adopted Ordinance No. 853 in 2006 which is incorporated into Chapter 8.40 of the Lakeport Municipal Code. The ordinance requires the provision of BMPs related to water quality during the construction and post-construction phases of a development project. The City also adopted Resolution No. 2272 (2006) which includes rules and regulations establishing performance requirements and BMPs to prevent or minimize the discharge of stormwater pollutants and related water quality impacts. This resolution also references the official adoption of stormwater BMP handbooks developed by CASQA. Copies of Chapter 8.40 and Resolution No. 2272 are included in Appendix 4-1.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective. Adoption of an ordinance will provide and effective and legal way to implement Lake County’s Water Management Plan.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None.

City of Clearlake


Problems in Obtaining Measurable Goals - None

BMP Effectiveness – Adoption of an ordinance will provide and effective and legal way to implement Lake County’s Water Management Plan.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - None

PCON 2c – Adopt PCON ordinance (or equivalent) or revise existing ordinance to gain required authority

BMP Appropriateness- Appropriate to adopt an ordinance or equivalent mechanism to gain the required authority to implement the program.

County of Lake

Measurable Goal Status- Complete - An ordinance amending Chapter 29 of the Lake County Code (Storm Water Ordinance) was adopted on August 28, 2007. The amending ordinance adopted the CASQA “Best Management Practices Handbook” to address new development and redevelopment projects.
Measurable Goal Results- County has adopted Stormwater Ordinance #2772 providing for the authority required to implement PCON elements. County has also adopted an amending ordinance that adopted the CASQA “Best Management Practices Handbook” to address new development and redevelopment projects.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective. CASQA BMP Handbook is used in the review of new development and redevelopment projects, and applicable BMP’s incorporated into project design.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None

City of Clearlake


Problems in Obtaining Measurable Goals - None

BMP Effectiveness – Effective. Adoption of an ordinance provides an effective and legal way to implement Lake County’s Water Management Plan.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - None

City of Lakeport

Measurable Goal Status- Complete.

Measurable Goal Results- The City of Lakeport adopted Ordinance No. 853 and Resolution No. 2272 in 2006 which are related to storm water management.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective. The ordinance and related resolution adopted by the City provide the authority needed to implement the Storm Water Management program. See response to PCON 2b above.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None.

PCON-3: Post-Construction Storm Water Management BMPs

PCON 3b – Revise post-construction storm water management BMP materials as appropriate

BMP Appropriateness- Appropriate to revise existing materials or create new materials as appropriate to keep current with regulations and educate the development and construction community.
**County of Lake, City of Clearlake and City of Lakeport**

**Measurable Goal Status** - Complete-Ongoing.

**Measurable Goal Results** – The County has adopted a guidance manual for post construction stormwater management requirements. Appendix 4-2 includes an excerpt form the Department of Public Works’ BMP manual for post construction. The City of Lakeport continues to utilize the *New Development* and Redevelopment Handbook developed by CASQA which includes post-construction BMPs.

**Problems in Obtaining Measurable Goals** - None.

**BMP Effectiveness** - Effective. BMP information for developers, construction site staff and the general public is available at City(s) / County front desk counters without asking.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - None

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**PCON 3c – Make BMP information available to developers, construction site staff and the general public**

**BMP Appropriateness** - Appropriate. Information should be made available to the public, construction site staff, and developers to ensure an understanding of the Stormwater Program and mitigation measures available to them.

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**County of Lake, City of Clearlake and City of Lakeport**

**Measurable Goal Status** - Complete-Ongoing.

**Measurable Goal Results** - BMP information for developers, construction site staff and the general public is available at City(s) / County front desk counters without asking.

The County Community Development Department has a Stormwater Program link from the County web page on behalf of the co-permittees. The Stormwater Program web page is continuously undergoing revisions in order to stay up to date with the new information.

**Problems in Obtaining Measurable Goals** - None.

**BMP Effectiveness** - Effective. The County Clean Water Program web page has a counter to register the number of accesses (hits) on the web page (currently at 4,629). In this manner the Co-Permittees can track the relative effectiveness of program efforts. The City of Lakeport also recently installed a page counter on its main stormwater web page:

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Continue making BMP information available to developers, construction site operators and the general public.
Table 5.1  Status and effectiveness of Post Construction Site Stormwater Runoff Control Program Management Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
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<td>County of Lake</td>
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<tr>
<td>PCON 1b</td>
<td>Conduct PCON Workgroup meetings quarterly.</td>
<td>PCON Workgroup meeting summaries and attendees list.</td>
<td>City of Clearlake</td>
<td>X</td>
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<td>City of Lakeport</td>
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<tr>
<td>PCON 2b</td>
<td>Begin PCON ordinance (or equivalent) preparation or begin revising existing ordinance to gain required authority.</td>
<td>PCON ordinance preparation complete.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Lakeport</td>
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<tr>
<td>PCON 2c</td>
<td>Adopt PCON ordinance (or equivalent) revise existing ordinance to gain required authority.</td>
<td>PCON ordinance (or equivalent) adopted or existing ordinance revised.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Clearlake</td>
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<td>City of Lakeport</td>
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<tr>
<td>PCON 3b</td>
<td>Revise post-construction stormwater management BMP materials as appropriate.</td>
<td>Existing information revised.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Lakeport</td>
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<tr>
<td>PCON 3c</td>
<td>Make BMP information available to developers, construction site staff and the general public.</td>
<td>Materials made available via agency counters and links on co-permittees websites.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Lakeport</td>
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DEVELOPMENT PLAN REVIEW AND TRAINING

**PCON-4: Plan Review, Permitting and Storm Water Management BMP Implementation**

**PCON 4b – Revise plan review, permitting, and maintenance/ operation requirements and procedures (as appropriate)**

BMP Appropriateness- Appropriate to revise existing plan review, permitting and maintenance/ operation requirements and procedures.
**County of Lake**

**Measurable Goal Status** - Complete. Ongoing. A formal revision has been partially completed in that the plan review and permitting processes have been revised. Staff continue to provide language for conditions of approval related to stormwater management in accordance with Construction General Permits and the requirements of the Stormwater Ordinance.

**Measurable Goal Results** – The County of Lake has reviewed the plan review, permitting, and maintenance/operation requirements and procedures. The review revealed that a more coordinated plan review process is needed between CDD, Lake County Watershed Protection District, and Engineering and Inspection Divisions of Public Works. The County has adopted the CASQA BMP Guidance Manual.

**Problems in Obtaining Measurable Goals** - Lack of fiscal resources, staffing, and coordination between County Departments has hampered progress.

**BMP Effectiveness** - Effective. The County incorporates post construction BMP’s into its use permit and tentative subdivision map processes, and includes appropriate BMP’s on construction plan approvals.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Continue developing City policies/procedures related to storm water plan review, permitting, and maintenance/operation requirements and procedures.

**City of Clearlake**

**Measurable Goal Status** - Complete.

**Measurable Goal Results** – The City has evaluated its plan review process and is implementing BMPS on all residential, commercial and public works construction projects. The City has adopted the CASQA Stormwater Best Management Practice Handbooks and implements practices recommended in those handbooks. Those handbooks are on file at the City for use by municipal staff and available to the general public as well. See City of Clearlake Resolution No. 32-2007 included in Appendix 4-1.

**Problems in Obtaining Measurable Goals** – None.

**BMP Effectiveness** – Unknown

**Proposed Changes to BMPs and Measurable Goals** – None.

**Activities Planned for Next Year** - Continue the current program

**City of Lakeport**

**Measurable Goal Status** - Complete. Ongoing.

**Measurable Goal Results** - Policies and procedures related to BMP implementation have been reviewed. No significant changes have been deemed necessary. The City has adopted the CASQA Stormwater Best Management Practice Handbooks and continues to implement the recommended practices.

**Problems in Obtaining Measurable Goals** - None.

**BMP Effectiveness** - Unknown.

**Proposed Changes to BMPs and Measurable Goals** - None.
Activities Planned for Next Year - Review City policies/procedures related to storm water plan review, permitting, and maintenance/operation requirements and procedures. Revise if deemed necessary.

**PCON 4c – Begin Implementing plan review, permitting, and maintenance/operation requirements and stormwater management BMPs.**

BMP Appropriateness - Appropriate to implement revised plan review, permitting and maintenance/operation requirements and procedures.

**County of Lake**

Measurable Goal Status - Complete, Ongoing. A formal revision of the plan review and permitting has been completed. Maintenance/operation BMP’s are included in use permit and tentative subdivision map approvals, and are included on construction plan approvals when appropriate.

Measurable Goal Results - Stormwater management BMPs included as conditions of approval for Subdivisions, Use Permits and grading and construction permits on sites of one acre or more.

Problems in Obtaining Measurable Goals - Lack of fiscal resources, staffing, and coordination between County Departments had delayed progress on completion of maintenance and operational requirements. County is unsure how to quantify/analyze these issues.

BMP Effectiveness - Effective. The County incorporates post construction BMPs into its use permit and tentative subdivision map processes, and includes appropriate BMPs on construction plan approvals.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Monitor PCON Stormwater BMP Maintenance.

**City of Clearlake**

Measurable Goal Status - Complete, Ongoing

Measurable Goal Results - The City is implementing BMPs on all residential, commercial and public works construction projects. The City has adopted the CASQA Stormwater Best Management Practice Handbooks and the extent possible implements practices recommended in those handbooks. Those handbooks are on file at the City for use by municipal staff and available to the general public as well.

Problems in Obtaining Measurable Goals - Lack of financial resources and administrative staff

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Continue the current program.

**City of Lakeport**

Measurable Goal Status - Complete, Ongoing.

Measurable Goal Results - Plan review, permitting and maintenance/operation requirements and procedures have been implemented. Post-construction stormwater management BMPs are included as conditions of approval for Subdivisions and other projects subject to Architectural and Design Review, Environmental Review and/or Use Permits. BMPs are also imposed when site grading and construction activities result in soil disturbances.
Problems in Obtaining Measurable Goals- BMP guidelines and resource materials are available to the public and any construction permit applicant. The City refers new permit applicants to these documents on a regular basis.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue to incorporate appropriate post-construction stormwater BMPs as conditions of approval and/or mitigation measures in conjunction with new commercial and residential development projects.

PCON-5: Training on Post Construction Storm Water Management

PCON 5b – Revise training program for appropriate staff, developers, and engineers and develop training manual

BMP Appropriateness- Appropriate to have a training program for site inspectors and plan reviewers and an associated training manual so that municipal staff is aware of current regulations and technologies and understand the responsibilities and interactions of all departments involved in the plan review and inspection process.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results- Complete. Ongoing. The County of Lake, City of Lakeport and City of Clearlake have adopted the CASQA Storm Water Management practice handbooks and CASQA training program.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue to implement training program annually.

PCON 5c – Implement an annual training program

BMP Appropriateness- Appropriate to have a training program for site inspectors and plan reviewers and an associated training manual so that municipal staff is aware of current regulations and technologies and understand the responsibilities and interactions of all departments involved in the plan review and inspection process.

County of Lake

Measurable Goal Status- Complete. Ongoing. The County has adopted the CASQA Storm Water Management practice handbooks and CASQA training program. The Lake County Board of Supervisors approved a new position within the Community Development Department for a Grading and Stormwater Inspector in 2009. The incumbent is responsible for assisting the Chief Building Official with coordinating and implementing an annual training program. The County has lost two certified stormwater inspectors, but has hired new staff that will become certified.

Measurable Goal Results- One individual has been certified as a stormwater inspector.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staff continue to slow efforts.
**BMP Effectiveness** - Effective.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Continue to coordinate training efforts with the Cities of Clearlake and Lakeport in addition to training newly hired staff at the County.

**City of Clearlake**

**Measurable Goal Status** – Complete

**Measurable Goal Results** – The City has initiated an in house training program for municipal staff involved in plan review and inspection of new development associated with residential and commercial construction. The City has adopted the CASQA Storm Water Management practice handbooks and the City uses those as a guide to require the installation of BMPs on residential and commercial projects. During construction the City evaluates the effectiveness of the required BMPs and requires modifications as appropriate. On large residential and commercial developments and public works construction projects the city contracts with civil engineering firms to perform plan review and construction inspection. Those contract firms are aware of the City’s standards and the Lake County Storm Water Management Plan, SWMP, and their plan review comments and construction inspection procedures incorporate Lake County’s SWMP requirements. During this reporting year (2011-2012) building and site inspectors from Lake County, City of Clearlake, and the City of Lakeport met on a regular basis to review and evaluate existing BMPs for potential updates and revisions. The three (3) agencies have adopted the CASQA Handbooks and the Caltrans Training manuals for inspectors and plan reviewers.

**Problems in Obtaining Measurable Goals** - The City has limited financial resources, and manpower, but is implementing municipal staff training so that the City and its consultants are using BMPs to meet the intent of Lake County’s SWMP.

**BMP Effectiveness** – The better the BMPs used by the City’s Public Works Department, contractors and private development the better the end product, which is less erosion and sedimentation into our creeks and ultimately Clearlake.

**Proposed Changes to BMPs and Measurable Goals** – Continue on going in house training of municipal staff as manpower and financial resources permit.

**Activities Planned for Next Year** - Continue to work with Lake County, the City of Lakeport and other agencies to improve training and procedures use by on-site inspectors on the installation of BMPs used to reduce or eliminate erosion from new development and Public Work’s construction projects.

**City of Lakeport**

**Measurable Goal Status** – Complete/Ongoing

**Measurable Goal Results** - The City Building Official receives updated training regularly in BMPs and inspection practices. The City will participate in all future training opportunities offered by the County.

**Problems in Obtaining Measurable Goals** - None

**BMP Effectiveness** - Effective. City Building Official and Associate Planner are informed of current storm water BMPs. Ongoing annual training will ensure that local construction activities use appropriate BMPs so that erosion, sedimentation and other water quality impacts are minimized.

**Proposed Changes to BMPs and Measurable Goals** - None
Activities Planned for Next Year: Continue regular training and continue effort to complete a training manual. Participate in all training opportunities coordinated by the County of Lake.

Table 5.2 Status and effectiveness of Post Construction Site Stormwater Runoff Control Program Development Plan Review and Training

Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCON 4b</td>
<td>Revise plan review, permitting, and maintenance/operation requirements and procedures (as appropriate)</td>
<td>Existing plan review, permitting, maintenance/operation requirements and procedures revised (as appropriate)</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
|        |                                                                             |                                                                                | City of Clearlake                      | X      | X         | X        | X
|        |                                                                             |                                                                                | City of Lakeport                       | X      | X         | X        | X
| PCON 4c| Begin Implementing plan review, permitting, and maintenance/operation requirements and stormwater management BMPs. | Plan review, permitting, and maintenance/operation requirements and procedures implemented | County of Lake                         | X      | X         | X        | X
|        |                                                                             |                                                                                | City of Clearlake                      | X      | X         | X        | X
|        |                                                                             |                                                                                | City of Lakeport                       | X      | X         | X        | X
| PCON 5b| Revise training program for appropriate staff, developers and engineers and develop training manual. | Training manual developed.                                                     | County of Lake                         | X      | X         | X        | X
|        |                                                                             |                                                                                | City of Clearlake                      | X      | X         | X        | X
|        |                                                                             |                                                                                | City of Lakeport                       | X      | X         | X        | X
| PCON 5c| Implement an annual training program                                        | Training program implemented.                                                  | County of Lake                         | X      | X         | X        | X
|        |                                                                             |                                                                                | City of Clearlake                      | X      | X         | X        | X
|        |                                                                             |                                                                                | City of Lakeport                       | X      | X         | X        | X

**POST-CONSTRUCTION EDUCATION AND OUTREACH**

**PCON-6: Public Education and Outreach / Involvement Participation**
PCON 6b – Develop new education and outreach material as necessary and make available to the public

BMP Appropriateness- Appropriate to revise existing materials and develop new education and outreach materials as appropriate to keep up to date with regulations, current technologies and the needs of the development and construction community.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results- Complete. Ongoing. The Lake County Community Development Department maintains the Clean Water Program web page that has a section dedicated towards post construction stormwater management in new development and redevelopment projects. The brochure “Keep Clear Lake Free of Pollution” also addresses post construction issues; see brochure in Appendix 2-5.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective. The program is making progress, particularly with the distribution of brochures.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue to revise and update available materials as required and develop or secure new materials. City of Lakeport will add applicable information related to post-construction stormwater management to its website or provide links to the materials posted on the County’s website.

Table 5.3 Status and effectiveness of Post Construction Site Stormwater Runoff Control Program Education and Outreach Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
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</thead>
<tbody>
<tr>
<td>PCON 6b</td>
<td>Develop new education and outreach material as necessary and make available to the public.</td>
<td>New education and outreach materials related to the PCON program activities developed and made available to the public.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Clearlake</td>
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<td>City of Lakeport</td>
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</tbody>
</table>

Tracking and Reporting

PCON-7: Post-Construction Site Storm Water Runoff Control Program Tracking and Reporting

PCON 7b – Revise and implement tracking and reporting procedures
BMP Appropriateness- Appropriate to revise tracking and reporting procedures, if needed, before implementation.

**County of Lake**

Measurable Goal Results- Complete. Ongoing. The Community Development Department continues to coordinate and implement Post – Construction stormwater inspection based on each sites permitted use conditions. In addition, a grading permit and storm water violation tracking log has been developed and implemented (see Appendix 4-3).

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue to track and coordinate efforts with the Cities of Clearlake and Lakeport.

**City of Clearlake**

Measurable Goal Results- In 2009 City developed a tracking form to document construction and grading activity throughout the City to cover the maintenance of post construction BMPs. Post construction structural BMPs include grease interceptors, drainage detention/treatment basins, and operation, maintenance agreements, as well as non structural BMPs such as grassy swales. The facilities outlined above are inspected annually by the City’s Building Inspector and Director of Public Works and an inspection log is kept of those inspections.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Review the tracking procedures in place and make improvements where necessary.

**City of Lakeport**

Measurable Goal Status- Complete/ongoing.

Measurable Goal Results- Section 17.35.020 of the City of Lakeport Municipal Code (Mitigation Monitoring) requires City staff to conduct a post-construction review of development projects and the related mitigation measures/conditions of approval. The post-construction report must indicate the status of all conditions, remedial action necessary, and other observations and recommendations. City staff also uses a checklist form that is used in conjunction with the post-construction review activities.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective based on the level of compliance observed in the field.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue existing reporting and tracking procedures.
Table 5.4 Status and effectiveness of Post Construction Site Stormwater Runoff Control Program Tracking and Reporting Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
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</thead>
<tbody>
<tr>
<td>PCON 7b</td>
<td>Revise and implement tracking and reporting procedures.</td>
<td>Tracking and reporting procedures revised and implemented.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
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<td>City of Clearlake</td>
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<td>City of Lakeport</td>
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SECTION 6
ILLICIT DISCHARGE DETECTION AND ELIMINATION

BACKGROUND

The Municipal Separate Storm Sewer System (MS4) includes streets and gutters, whose drainage flows through pipes and ditches, discharging into receiving water bodies such as creeks, wetlands and lakes. Pollutants poured, spilled, dumped, washed, or discharged through illicit connections or illegal dumping into the MS4 can go undetected without an active Illicit Discharge Detection and Elimination (IDDE) program. Illicit discharges are defined as any discharge to the municipal storm drain system that is not composed entirely of storm water, with some exceptions. Illicit discharges enter the system either through direct connections (e.g., wastewater piping either mistakenly or deliberately connected to the storm drain) or illegal dumping of materials that contain pollutants. To help reduce illicit discharges to the MS4 in Lake County, the Lake County Clean Water Program (LCCWP) is developing and implementing an Illicit Discharge Detection and Elimination (IDDE) Program.

GOALS AND OBJECTIVES

The goal of the IDDE program is to effectively reduce/eliminate illicit discharges into the LCCWP MS4’s by implementing Best Management Practices (BMPs) to the maximum extent practicable (MEP). To achieve this goal, the following objectives have been developed:

- Control illicit discharges by conducting field inspections/screenings of the MS4 and identifying and eliminating the source(s) of non-storm water discharge(s);
- Detect and eliminate illegal disposal of wastes to the MS4 through a program that combines education, alternative disposal options, and enforcement;
- Effectively coordinate spill prevention and response with existing programs;
- Optimize illicit discharge control activities through planning and prioritization; and,
- Partner with other agencies and groups to increase public awareness on how to effectively and efficiently prevent pollutant discharges to the MS4.

ILLICIT DISCHARGE DETECTION AND ELIMINATION BMPs

The IDDE element is divided into five categories to effectively address non-storm water discharges. The categories are: (1) IDDE Program Management (i.e., workgroup and ordinance development); (2) IDDE Plan development and implementation; (3) municipal separate storm sewer system mapping; (4) public education and outreach related to IDDE; and (5) reporting and tracking. For each category, specific BMPs and associated implementation timelines were adopted in the Program’s SWMP.

FISCAL YEAR 2011/12 ACCOMPLISHMENTS

GENERAL SUMMARY

The primary objectives for FY 2011/12 were to develop tracking procedures and forms for the IDDE program element by compiling survey responses and meeting (phone or email) summaries. The Lake County Department of Environmental Health has implemented the draft Hazardous Spills and Response Plan after it was evaluated by State and Federal Agency in October 2009. Maintaining program BMP’s continues to be challenging due to staffing and budgetary constraints.

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1 Exceptions include authorized non-storm water discharges that are not significant contributors of pollutants to the Small MS4. These include: water line flushing; landscape irrigation; diverted stream flows; rising ground waters; uncontaminated ground water infiltration; uncontaminated pumped ground water; discharges from potable water sources; foundation drains; air conditioning condensation; irrigation water; springs; water from crawl space pumps; footing drains; lawn watering; individual residential car washing; flows from riparian habitats and wetlands; and dechlorinated swimming pool discharges.
The status of BMPs scheduled for implementation in FY 2011/12 are listed in Tables 6.1 – 6.5 and briefly described in this section. Additionally, BMP effectiveness and activities planned for next fiscal year are also described.

**ILlicit Discharge Detection and Elimination Program Management**

**IDDE-1: Illicit Discharge Detection and Elimination Workgroup**

**IDDE 1b – Conduct IDDE Workgroup meetings quarterly.**

BMP Appropriateness - Appropriate to bring together the various entities involved in illicit discharge, illegal dumping, and waste management activities for a coordinated effort towards these tasks.

**County of Lake, City of Clearlake and City of Lakeport**

Measurable Goal Status – Ongoing. The IDDE Working Group conducted regular meetings during this reporting period that met concurrently with the Advisory Council. The IDDE Workgroup activities have been focused on following and preparing for the changes pertaining to IDDE in the new Phase II MS4 Permit to be adopted by the end of 2012.

Measurable Goal Results: Complete and ongoing.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness – Effective, as meetings are being held quarterly.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Continue to conduct quarterly workgroup meetings.

**IDDE-2: Existing Program Structure**

**IDDE 2b – Determine Administrative Structure(s), Staffing Requirements and Fiscal Resources**

BMP Appropriateness – Appropriate to determine administrative structure(s), staffing requirements and fiscal resources needed to implement the program.

**County of Lake, City of Clearlake and City of Lakeport**

Measurable Goal Results – Complete. Ongoing.

Problems in Obtaining Measurable Goals – The Clean Water Program members have been closely watching the permit approval process for the new Phase II MS4 permit to be adopted in November 2012. The future permit requirements relating to IDDE have been in a high state of flux and make it difficult for the jurisdictions to make investments in IDDE with confidence that the regulations won’t change.

BMP Effectiveness – Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year:
Review and implement IDDE provisions from the new Phase II MS4 permit.

**IDDE-3: Prepare and Adopt IDDE Ordinance**
**Section 6**  
Illicit Discharge Detection and Elimination

**IDDE 3a - Review existing ordinance(s), authorities, and program structure for the Illicit Discharge Detection and Elimination Program.**

**BMP Appropriateness** - Appropriate to evaluate the many parallel efforts of all municipal departments that compliment the intent of the Illicit Discharge and Elimination Program before developing the Program.

**County of Lake**

Measurable Goal Results – Complete (see FY 04/05 Annual Report).

**City of Clearlake**

Measurable Goal Results - Complete (see FY 04-05 Annual Report).

**City of Lakeport**

Measurable Goal Results – Complete (see FY 04-05 Annual Report).

**IDDE 3b – Begin IDDE Ordinance (or equivalent) Preparation or Begin Revising Existing Ordinance to Gain Required Authority**

**BMP Appropriateness** - Appropriate to have an ordinance or equivalent to gain the required authority to implement the program.

**County of Lake**

Measurable Goal Results – Complete. (see FY 06-07 Annual Report).

**City of Clearlake**

Measurable Goal Results - Complete. (see FY 06-07 Annual Report).

**City of Lakeport**

Measurable Goal Results - Complete. (see FY 06-07 Annual Report).

**IDDE 3c – Adopt IDDE Ordinance (or equivalent) or Begin Revising Existing Ordinance to Gain Required Authority**

**BMP Appropriateness** - Appropriate to have an ordinance or equivalent to gain the required authority to implement the IDDE program.

**County of Lake**

Measurable Goal Results – Complete. (see FY 06-07 Annual Report).

**City of Clearlake**

Measurable Goal Results – Complete. (see FY 06-07 Annual Report).

**City of Lakeport**

Measurable Goal Results – Complete. (see FY 06-07 Annual Report).
Table 6.1 Status and effectiveness of Illicit Discharge Detection and Elimination (IDDE) Program Management Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
</tr>
<tr>
<td>IDDE 1b</td>
<td>Conduct IDDE Workgroup meetings quarterly.</td>
<td>IDDE Workgroup meeting summaries and attendees list.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
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<td>City of Clearlake</td>
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<td>City of Lakeport</td>
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<tr>
<td>IDDE 2b</td>
<td>Determine administrative structure(s), staffing requirements and fiscal resources.</td>
<td>Staffing and fiscal resource estimates developed.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
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<td>City of Clearlake</td>
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<td>City of Lakeport</td>
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<tr>
<td>IDDE 3a</td>
<td>Review existing ordinance(s), authorities, and program structure for the Illicit Discharge Detection and Elimination Program.</td>
<td>Summary of existing ordinance(s), authorities and program structure(s) complete.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Clearlake</td>
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<td>City of Lakeport</td>
<td>X</td>
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<tr>
<td>IDDE 3b</td>
<td>Begin IDDE ordinance (or equivalent) preparation or begin revising existing ordinance to gain required authority.</td>
<td>IDDE ordinance preparation complete.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Clearlake</td>
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<td>City of Lakeport</td>
<td>X</td>
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<tr>
<td>IDDE 3c</td>
<td>Adopt IDDE ordinance (or equivalent) or begin revising existing ordinance to gain required authority.</td>
<td>IDDE ordinance preparation complete.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
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<td>City of Lakeport</td>
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**ILlicit DIScharge Detection and Elimination Plan**

**IDDE-4: Spill Prevention and Response Procedures**

**IDDE 4b – Revise Existing Spill Prevention and Response Programs and Procedures as Needed**
**BMP Appropriateness** - Appropriate to revise existing programs if deficiencies are found with respect to addressing illicit discharges, prevention and/or response.

**County of Lake**

Measurable Goal Results – Complete. The draft Lake County Hazardous Materials Response Plan was reviewed and evaluated in October 2009 by the State OES, Ca. EPA, and DTSC. Original development of this plan included monthly meetings with the local Fire Chiefs and other first responders. The Lake County Environmental Health Division follows the protocols outlined in the Plan by notifying various agencies immediately upon learning of a hazardous spill. In addition, the Community Development Department is notified so that the MS4 map can be consulted and the drainage map of the particular event can be printed and converted to a PDF file for immediate distribution back to the Environmental Health Division. The Division is currently seeking funding to upgrade its computer hardware and software to be able to store and access electronic copies of the County MS4 maps, as the Division currently relies on the County Department of Public Works or Community Development Department for copies of these maps.

BMP Effectiveness – Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Environmental Health Division will continue to seek funding to purchase hardware and software to support GIS layer of County MS4 Maps.

**City of Lakeport**

Measurable Goal Results – Complete/Ongoing. The City has a Hazardous Materials Incident Response Plan in place.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing remains a persistent challenge.

BMP Effectiveness – Effective. City of Lakeport has developed a Hazardous Materials Incident Response Plan, which includes a Spill Prevention Plan for its corporation yard. Resources can be shared with County, if needed. The Hazardous Materials Incident Response Plan has been reviewed and approved by the Lake County Environmental Health Division according to the City’s Utilities Director.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Continue to coordinate spill prevention and response activities with the County of Lake and other responsible agencies. Conduct training as necessary.

**City of Clearlake**

Measurable Goal Results – The City of Clearlake has very basic spill prevention and response procedures in place at this time. Currently there is no formal hazardous material spill response Clean-up team in Lake County. Our City Public Works Department works with the local Fire Department and our Clearlake Police Department to clean-up non hazardous spills generally associated with traffic accidents. The City’s Public Works also works in cooperation with the Lake County Environmental Health Department, and Lake County Sanitation District when sewage spills occur within our City. The goal is to contain the spill or contaminate using accepted BMPs, and remove it in a safe and efficient manner.

Problems in Obtaining Measurable Goals - The City has very limited staffing within the Public Works Department, and relies on working in cooperation with the various agencies within the City and County to respond to hazardous spills.
Section 6  Illicit Discharge Detection and Elimination

BMP Effectiveness - Spill prevention and adequate response and clean up of spills once they occur is certainly effective in reducing or eliminating contamination of our creeks and ultimately eliminating contaminants from entering Clearlake.

Proposed Changes to BMPs and Measurable Goals - None

Activities Planned for Next Year – Work with the City of Lakeport and Lake County Agencies to improve our spill prevention, response and clean-up procedures.

IDDE 4c – Begin Implementing Revised Spill Prevention and Response Procedures

BMP Appropriateness - Appropriate to implement the revised programs to address illicit discharges.

County of Lake

Measurable Goal Results - Complete. Revisions to the existing spill prevention and response procedures have been completed and implemented by the Environmental Health Division as of October 2009.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - None

City of Clearlake

Measurable Goal Results - The City of Clearlake has very basic spill prevention and response procedures in place at this time. Currently there is no formal hazardous material spill response Clean-up team in Lake County. Our City Public Works Department works with the local Fire Department and our Clearlake Police Department to clean up non hazardous spills generally associated with traffic accidents. The City’s Public Works also works in cooperation with the Lake County Environmental Department, and Lake County Sanitation District when sewage spills occur within our City. The goal is to contain the spill or contaminate using accepted BMPs, and remove it in a safe and efficient manner.

Problems in Obtaining Measurable Goals - The City has very limited staffing within the Public Works Department, and relies on working in cooperation with the various agencies within the City and County to respond to hazardous spills.

BMP Effectiveness – Spill prevention and adequate response and clean up of spills once they occur is certainly effective in reducing or eliminating contamination of our creeks and ultimately Clearlake.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Work with the City of Lakeport and Lake County Agencies to improve our spill prevention, response and clean-up procedures.

City of Lakeport

Measurable Goal Results – Complete. Training on the spill response plan and related procedures has taken place according to the City’s Utilities Director. The Utilities Director explained that the Utilities Division uses a variety of chemicals and potentially hazardous materials in conjunction with water and sewer treatment activities. Public Works and Utility employees are trained in the proper response and cleanup protocols.

Problems in Obtaining Measurable Goals – None.
BMP Effectiveness - Effective. Staff is more aware and informed on response procedures and emergency protocols. Readiness has been enhanced.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Review spill prevention and response procedures as needed. Revise if necessary. Conduct training as needed.

IDDE – 5: Storm Drain System Inspection/Screening Program

IDDE 5b – Revise Existing Storm Drain System Inspection/Screening Program as Needed

BMP Appropriateness - Appropriate to revise existing procedures if any deficiencies are found in existing procedures.

County of Lake

Measurable Goal Results – Complete. Department of Public Works continues to program resources for inspection and maintenance of the County’s MS4. In FY 2011/12 2,888.5 equipment hours, and 5,542.75 staff hours were spent on drainage system inspection and maintenance. Appendix 6-3 includes Department of Public Works Resource Usage and Activity Tracking reports.

Problems in Obtaining Measurable Goals – None.

BMP Effectiveness - Effective

Proposed Changes to BMPs and Measurable Goals -None.

Activities Planned for Next Year - Continue to track maintenance of County MS4.

City of Clearlake

Measurable Goal Results – The City of Clearlake Public Works Department has identified several specific areas near natural creeks where hazardous spills have either occurred or have a stronger likelihood to occur. They are: Molesworth Creek in the Meadowbrook area, Burns Valley Creek along Burns Valley Road, just north of Turner Street, and Miller Creek at Olympic Drive. Molesworth Creek and Burns Valley Creek at the above locations are near Lake County Sewer District lift stations, where sewer spills have occurred in the past, and Miller Creek is in commercial/industrial area where illicit discharges could occur.

Problems in Obtaining Measurable Goals – The City Public Works Department has a total of 4 employees to maintain its parks, storm drain system and over 150 miles of streets. Lack of adequate staffing and financial resources is a major problem for the City in meeting all of its goals.

BMP Effectiveness –Unknown, however identifying and screening problem areas will assist the City in developing a response and clean-up of any spill that occurs.

Proposed Changes to BMPs and Measurable Goals -None.

Activities Planned for Next Year - Develop better response plans and procedures for the containment and cleanup of spills that occur in the three areas cited above under 5b.
City of Lakeport

**Measurable Goal Results** – Complete. The City’s Public Works department continues the inspection/screening program of the City's MS4 according to the Public Works Director. No changes have been needed according to the Director.

Problems in Obtaining Measurable Goals - None.

**BMP Effectiveness** – Effective.

**Proposed Changes to BMPs and Measurable Goals** -None.

**Activities Planned for Next Year** - Continue to track maintenance of the City’s MS4

**IDDE 5c – Begin Storm Drain System Inspection/Screening Program Implementation**

**BMP Appropriateness** - Appropriate to implement revised inspection and screening program once the revisions have been made.

County of Lake

**Measurable Goal Results** – Complete.

Problems in Obtaining Measurable Goals – None. Department of Public Works continues to program resources for inspection and maintenance of the County’s MS4. In FY 2011/12, 2,888.5 equipment hours, and 5,542.75 staff hours were spent on drainage system inspection and maintenance. See Appendix 6-3 for Resource Usage Report.

**BMP Effectiveness** - Effective.

**Proposed Changes to BMPs and Measurable Goals** -None.

**Activities Planned for Next Year** - Continue to track maintenance of County MS4.

City of Clearlake

**Measurable Goal Results** - The City of Clearlake Public Works Department has identified several specific areas near natural creeks where hazardous spills have either occurred or have a stronger likelihood to occur. They are: Molesworth Creek in the Meadowbrook area, Burns Valley Creek along Burns Valley Road, just north of Turner Street, and Miller Creek at Olympic Drive. Molesworth Creek and Burns Valley Creek at the above locations are near Lake County Sewer District lift stations, where sewer spills have occurred in the past, and Miller Creek is in commercial/industrial area where illicit discharges could occur.

Problems in Obtaining Measurable Goals - The City Public Works Department has a total of 4 employees to maintain its parks, storm drain system and over 150 miles of streets. Lack of adequate staffing and financial resources is a major problem for the City in meeting all of its goals.

**BMP Effectiveness** – Unknown, however identifying and screening problem areas will assist the City in developing a response and clean-up of any spill that occurs.

**Proposed Changes to BMPs and Measurable Goals** -None.

**Activities Planned for Next Year**: Develop better response plans and procedures for the containment and cleanup of spills that occur in the three areas sited above under 5b.

City of Lakeport

**Measurable Goal Results** – Complete and ongoing for the City of Lakeport.
Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing is a persistent challenge.

BMP Effectiveness - Effective. Storm drains are inspected and cleaned regularly by the City’s Public Works department. No observable debris or trash is to be found in drains before the start of the wet-weather season.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Continue regular inspections of the storm drain system throughout the City and attempt to develop modern tracking system for storm drain inspection and maintenance activities.

IDDE-6: Storm Drain System Inspection/Screening Program Staff Training

IDDE 6a – Develop an Illicit Discharge Detection and Elimination Training Program for Applicable Municipal Employees

BMP Appropriateness - Appropriate to develop a training program for applicable municipal employees to detect and address illicit discharges which yields results which can be tracked, addressed and reported on.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results – Ongoing.

Problems in Obtaining Measurable Goals – Overcoming a lack of fiscal resources and staffing remains a persistent challenge.

BMP Effectiveness – Effective. Staff is maintaining storm water controls at municipal yards, including installation and maintenance of silt fencing, and removing sediment from drainages as needed.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - In addition to the public works and utilities staff, the City’s Building Official and Planning Services Manager are involved with issues related to illicit discharges into the MS4.

IDDE 6b – Conduct Illicit Discharge Detection and Elimination Annual Training

BMP Appropriateness - Appropriate to annually train all applicable municipal employees to detect and address illicit discharges.

County of Lake

Measurable Goal Results – Complete, Ongoing

Problems in Obtaining Measurable Goals – The County does not have a formal training program for IDDE at this time. The County Public Works Department works in cooperation with the other County Agencies to improve its procedures to respond to or address illicit discharges and accidental spills when they occur.

BMP Effectiveness – Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Develop a more formal annual training program for applicable municipal staff.
**City of Clearlake**

*Measurable Goal Results* – Incomplete. The City does not have a formal training program for IDDE at this time. The City’s Public Works Department works in cooperation with the City of Lakeport and various Lake County Agencies to improve its procedures to respond to or address illicit discharges and accidental spills when they occur.

*Problems in Obtaining Measurable Goals* - Developing training programs in a small city with limited staff is difficult and financial resources are very limited for travel and training.

*BMP Effectiveness* – Unknown, however identifying and screening problem areas will assist the City in developing a response and clean-up of any spill that occurs.

*Proposed Changes to BMPs and Measurable Goals* – None

*Activities Planned for Next Year* - Work with Lake County Agencies and the City of Lakeport in the development of a training program for applicable municipal staff to detect and address illicit discharges

**City of Lakeport**

*Measurable Goal Results* – Complete

*Problems in Obtaining Measurable Goals* – Overcoming a lack of fiscal resources and staffing remains a persistent challenge.

*BMP Effectiveness* - Training efforts have been sufficient thus far. Training allows personnel to adequately identify and respond to illicit discharges or other similar spills.

*Proposed Changes to BMPs and Measurable Goals* - None.

*Activities Planned for Next Year* - City staff will continue to be attentive to storm water issues throughout the City and responsive to citizen concerns and complaints.
Table 6.2 Status and effectiveness of Illicit Discharge Detection and Elimination (IDDE) Plan Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDDE 4b</td>
<td>Revise existing spill prevention and response programs and procedures as needed.</td>
<td>Existing spill prevention and response programs and procedures revised to be applicable to Co-permittees</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>City of Clearlake</td>
<td>X</td>
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<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>IDDE 4c</td>
<td>Begin implementing revised spill prevention and response procedures.</td>
<td>Spill prevention and response procedures implemented.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td></td>
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<td>City of Clearlake</td>
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<td>City of Lakeport</td>
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<td>X</td>
<td>X</td>
</tr>
<tr>
<td>IDDE 5b</td>
<td>Revise existing storm drain system inspection / screening programs as needed.</td>
<td>Existing storm drain system inspection / screening programs revised to be applicable to Co-permittees.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Lakeport</td>
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<tr>
<td>IDDE 5c</td>
<td>Begin storm drain system inspection / screening program implementation.</td>
<td>Storm drain system inspection / screening program implemented.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
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<tr>
<td>IDDE 6a</td>
<td>Develop an illicit discharge detection and elimination training program for applicable municipal employees.</td>
<td>Training program and associated materials developed.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
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<td>City of Lakeport</td>
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<tr>
<td>IDDE 6b</td>
<td>Conduct annual training for illicit discharge detection and elimination for applicable municipal employees.</td>
<td>Training program conducted at least once per year.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
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<td>City of Lakeport</td>
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</tbody>
</table>
MUNICIPAL SEPARATE STORM SEWER SYSTEM MAPPING

IDDE-7: Collect and Assess Existing Information on MS4

- **IDDE 7a–** Completed-see FY 04/05 Annual Report
- **IDDE 7b–** Completed-see FY 04/05 Annual Report

IDDE – 8: MS4 Mapping

**IDDE 8a – Input Existing MS4 Information into the GIS Database**

BMP Appropriateness - Appropriate to include all MS4 information in a central location for ease of use and for potential use on other projects that may require information on the infrastructure.

County of Lake

- Completed-see FY 04/05 Annual Report

City of Clearlake

Measurable Goal Results - Incomplete. Currently the City does not have a GIS layer for its storm drain system. Crews depend on organizational memory to locate certain underground storm drain lines, and in some cases have to trace them down with water from a flusher truck. As this has occurred in the past, the City Public Works crew sketches out the location and size of the storm drain pipes and location of inlets. As time permits this information will be transferred over to existing City street maps, and eventually digitized for our GIS mapping when it can be funded. Currently, the City has no employee that is proficient in GIS software applications. In 2011-12 the City initiated an application for a Westside Integrated Regional Water Management (IRWM) Planning Grant. One of the outcomes of the grant if approved would be the development of a storm drain GIS element for the City of Clearlake. The grant application will be filed in 2012-13.

Problems in Obtaining Measurable Goals - Lack of staffing and financial resources.

BMP Effectiveness – Unknown

Proposed Changes to BMPs and Measurable Goals - None

Activities Planned for Next Year - Continue to explore the possibility of the City obtaining a grant to contract the collection of the raw data for the City’s Storm Drain System, and digitizing it onto the City’s existing GIS maps. Due to financial constraints at this time, unless a grant is secured, it will be very difficult for the City of Clearlake to complete this goal under the current economic situation. The City will continue to collect any raw storm drain data that it obtains from field reconnaissance so that it can be digitized in the future. In 2011-12 the City initiated an application for a Westside Integrated Regional Water Management (IRWM) Planning Grant. One of the outcomes of the grant if approved would be the development of a storm drain GIS element for the City of Clearlake. The grant application will be filed in 2012-13.

City of Lakeport

- Completed-see FY 04/05 Annual Report

**IDDE 8b – Conduct MS4 Outfall Data Collection and Input into the GIS Database**

BMP Appropriateness- Appropriate. MS4 outfall location is a crucial piece of information that is needed to monitor for illicit discharges.

County of Lake
Measurable Goal Results – Complete. The draft MS4 Map/GIS Layer was completed in September 2010. The County has purchased hand held data GPS data collection units to assist in the Inspection and Maintenance program. The County expects to continue to refine and update the storm water infrastructure database in the coming year. Appendix 6-4 contains a sample of the MS4 map now in use.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing have delayed completion of program tasks.

BMP Effectiveness- Effective in that information is now readily available, and overlaid on aerial photos.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year - Update the storm water infrastructure database

City of Clearlake

Measurable Goal Results - Incomplete. Currently the City does not have a GIS layer for its storm drain system. Crews depend on organizational memory to locate certain underground storm drain lines, and in some cases have to trace them down with water from a flusher truck. As this has occurred in the past, the City Public Works crew sketches out the location and size of the storm drain pipes and location of inlets. As time permits this information will be transferred over to existing City street maps, and eventually digitized for our GIS mapping when it can be funded. Currently the City has no employee that is proficient in GIS software applications. In 2011-12 the City initiated an application for a Westside Integrated Regional Water Management (IRWM) Planning Grant. One of the outcomes of the grant if approved would be the development of a storm drain GIS element for the City of Clearlake. The grant application will be filed in 2012-13.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and manpower to accomplish program tasks.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year – Continue to explore the possibility of City obtaining a grant to contract the collection of the raw data for the City’s Storm Drain System, and digitizing it onto the City’s existing GIS maps. Due to financial constraints at this time, unless a grant is secured, it will be very difficult for the City of Clearlake to complete this goal under the current economic situation. The City will continue to collect any raw storm drain data that it obtains from field reconnaissance so that it can be digitized in the future. In 2011-12 the City initiated an application for a Westside Integrated Regional Water Management (IRWM) Planning Grant. One of the outcomes of the grant if approved would be the development of a storm drain GIS element for the City of Clearlake. The grant application will be filed in 2012-13.

City of Lakeport

• Completed-see FY 04/05 Annual Report
Table 6.3  Status and effectiveness of MS4 Mapping Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDDE 8a</td>
<td>Input existing information into the GIS data base.</td>
<td>GIS data base with existing information complete.</td>
<td>County of Lake</td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
</tr>
<tr>
<td>IDDE 8b</td>
<td>Conduct MS4 outfall data collection and input into the GIS data base.</td>
<td>Steady improvement annually. (MS4 mapping complete by end of permit term).</td>
<td>County of Lake</td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
</tr>
</tbody>
</table>

**IDDE EDUCATION AND OUTREACH**

**IDDE – 9: Public Education/Outreach and Involvement/Participation**

**IDDE 9b – Develop New Education and Outreach Materials as Appropriate and Make Available to the Public (in collaboration with the PEOP Workgroup)**

**BMP Appropriateness** - Appropriate to develop new education and outreach materials if existing materials are out of date or inadequate to meet program needs for public education and outreach.

**County of Lake, City of Clearlake and City of Lakeport**

Measurable Goal Results – Complete-Ongoing. The County developed a mercury brochure for public education and outreach on behalf of all Co-permittees. A general storm water brochure and a concrete waste brochure are also available to the general public. Brochures are available at each Co-Permittee’s public counters, and are available for download at the Clean Water Program Website maintained by the Lake County Community Development Department. The City of Lakeport developed a storm sewer use guide for local businesses which is available online. Appendixes 2-1 and 2-5 contain samples of Program brochures in use.

Problems in Obtaining Measurable Goals – None.

**BMP Effectiveness** - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year – Continue regular meetings of all workgroups and revise educational materials in response to new information.
Table 6.4 Status and effectiveness of IDDE Education and Outreach Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDDE 9b</td>
<td>Develop new education and outreach materials as appropriate and make available to the public (in collaboration with the PEOP workgroup)</td>
<td>New education and outreach materials developed and made available to the public via public agency counters, websites, and or public events.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>City of Clearlake</td>
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<td>City of Lakeport</td>
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</tbody>
</table>

TRACKING AND REPORTING

IDDE – 10: Illicit Discharge Detection and Elimination Tracking and Reporting

**IDDE 10a- Conduct an assessment of current reporting and tracking procedures**

**BMP Appropriateness** - Appropriate to determine the methodology and formats used for current tracking and reporting of illicit discharges and related issues between the various County departments before developing new reporting and tracking procedures for the Lake County Stormwater Program.

**County of Lake, City of Clearlake, City of Lakeport**

**Measurable Goal Status** – Complete (See FY 06/07 Annual Report).

**IDDE 10b – Revise and Implement Tracking and Reporting Procedures**

**BMP Appropriateness** - Appropriate to revise tracking and reporting procedures, as needed, before implementation such that a consistent and coordinated format is utilized.

**County of Lake**

**Measurable Goal Results** - Complete. County Department of Public Works tracks maintenance efforts of the storm drain system and street sweeper effectiveness. Community Development Department tracks permitted and unpermitted grading projects and stormwater violations. See Appendix 4-3 for example of tracking log.

**Problems in Obtaining Measurable Goals** - None.

**BMP Effectiveness** - Effective

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Continue to track IDDE data.
City of Clearlake

Measurable Goal Results- The City of Clearlake Public Works Department has identified several specific areas near natural creeks where hazardous spills have either occurred or have a stronger likelihood to occur. They are: Molesworth Creek in the Meadowbrook area, Burns Valley Creek along Burns Valley Road, just north of Turner Street, and Miller Creek at Olympic Drive. Molesworth Creek and Burns Valley Creek at the above locations are near Lake County Sewer District lift stations, where sewer spills have occurred in the past, and Miller Creek is in commercial/industrial area where illicit discharges could occur. These are high priority areas, and the City has developed a tracking system to improve the inspection/maintenance BMP’s for these areas.

Problems in Obtaining Measurable Goals- None

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals -None.

Activities Planned for Next Year -Review current tracking procedures and make improvements as required.

City of Lakeport

Measurable Goal Results- Complete and ongoing. Illicit discharge violations are investigated by City staff and followed up on if deemed necessary. Complaints and other violations are logged in a database maintained by the Community Development Department.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing remains a persistent challenge.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals -None.

Activities Planned for Next Year - Coordinate with our Public Works and Utilities departments to complete and submit the storm water violation complaint forms that are posted on the City’s website. This will help with tracking activities.

Table 6.5 Status and effectiveness of IDDE Tracking and Reporting Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.
SECTION 7
POLLUTION PREVENTION/GOOD HOUSEKEEPING
FOR MUNICIPAL OPERATIONS

BACKGROUND
The Pollution Prevention/Good Housekeeping for Municipal Operations minimum control measure is a key element of the Program’s Stormwater Management Plan (SWMP). Stormwater quality can be impacted by pollutants (e.g., oil and grease, heavy metals, and pesticides) discharged while conducting municipal operation and maintenance activities, such as; repair and maintenance of road/street surfaces and sidewalks; park and recreation area maintenance; and corporation yard operations. To reduce the impacts of municipal operation and maintenance activities on stormwater quality, the Program is developing and implementing a Stormwater Pollution Prevention Program for Municipal Operations (MUNI).

GOALS AND OBJECTIVES
The goal of the MUNI program is to reduce pollutants generated by municipal operation and maintenance activities from entering the MS4s under the jurisdiction of Co-permittees. To achieve this goal, the following objectives have been developed:

- Optimize pollutant removal during routine maintenance activities such as street sweeping and maintenance of storm drainage facilities;
- Prevent or minimize discharges to the MS4 from road maintenance, parks, corporation yards and other publicly owned facilities;
- Provide information and education about municipal operation and maintenance BMPs and the LCCWP to Co-permittee employees;
- Develop and implement measurable goals to evaluate the success of the BMPs; and,
- Facilitate tracking and reporting of activities conducted under the municipal operations and maintenance element.

MUNICIPAL OPERATIONS AND MAINTENANCE BMPs
The MUNI program is divided into six categories to effectively address stormwater issues related to municipal operation and maintenance activities. These categories are: (1) MUNI Program Management; (2) Stormwater Pollutant Control/Removal Programs; (3) Municipal Operations Stormwater Management; (4) Coordination and Training; (5) Public Education and Outreach; and, (6) Tracking and Reporting. For each category, specific BMPs and associated implementation timelines were adopted in the Program's SWMP.

FISCAL YEAR 2011/12 ACCOMPLISHMENTS

GENERAL SUMMARY
The initial objectives of the MUNI program element were intended to educate the departments that would be involved with the Pollution Prevention Good Housekeeping Program and to solicit comments for the preparation and adoption of the SWMP. The 2011/12 fiscal year objectives included:

- an assessment and evaluation of existing activities and programs and to guide the MUNI Workgroup membership to allow their efforts to move forward in developing an appropriate suite of pollution prevention BMPs for day to day operations;
- training manuals and/or training programs to keep municipal employees abreast of current regulations, current technologies and practices;
- Identify appropriate BMPs related to the operations and maintenance of County facilities.
The status of BMPs scheduled for implementation in FY 2011/12 are listed in Tables 7.1 – 7.6 and briefly described in this section. Additionally, BMP effectiveness and activities planned for next fiscal year are also described.

**MUNICIPAL MAINTENANCE GOOD HOUSEKEEPING PROGRAM MANAGEMENT**

**MUNI-1: Municipal Operations Workgroup**

**MUNI 1b – Conduct MUNI Workgroup meetings twice per year**

BMP Appropriateness
Appropriate to keep municipal maintenance staff informed about current regulations and technologies and to coordinate efforts between all municipalities to reduce duplication of effort and associated program costs.

**County of Lake, City of Clearlake and City of Lakeport**

Measurable Goal Status- Complete/Ongoing.

Measurable Goal Results- The Municipal Operations Working Group met twice during the past year rather than quarterly. However workers from each jurisdiction continued to coordinate water quality protection activities performed by their respective agencies.

Problems in Obtaining Measurable Goals- Reduced staff and fiscal resources makes maintaining regular MUNI Workgroup meetings challenging. Past priority had been given to CON/PCON and PEOP related tasks earlier in the Program, as these have had the greatest immediate impact upon the receiving waters of Clear Lake and provide the greatest potential use for limited human and fiscal resources.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Strive to continue with regular meetings among the co-permittees.

**Table 7.1** Status and effectiveness of MUNI Program Management Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
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<td></td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Effective</td>
<td>Not Effective</td>
<td>Unknown</td>
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<td></td>
<td></td>
<td></td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>MUNI 1b</td>
<td>Conduct MUNI Workgroup meetings twice per year.</td>
<td>MUNI Workgroup meeting summaries and attendees list.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td></td>
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</tbody>
</table>

**STORMWATER POLLUTANT CONTROL / REMOVAL PROGRAMS**

**MUNI-2: Street Sweeping Program**

**MUNI 2a – Evaluate and document current street sweeping practices.**
County of Lake, City of Lakeport and City of Lakeport

**Measurable Goal Status** - Complete (See FY 06/07 Annual Report).

**MUNI 2b – Develop / revise street sweeping BMPs**

**BMP Appropriateness** - Revising or development of street sweeping BMPs is appropriate to be adaptable to seasonal fluctuations and public use patterns, to respond to high dust generative areas, to assess street sweeping effectiveness, and minimize potential pollutants in roadways.

**County of Lake**

**Measurable Goal Results** - Complete. An ordinance amending Chapter 29 of the Lake County Code (Storm Water Ordinance) was adopted on August 28, 2007. The amending ordinance adopted the CASQA “Best Management Practices Handbook” includes numerous street sweeping BMPs. The County continues to regularly sweep streets.

**Problems in Obtaining Measurable Goals** - None.

**BMP Effectiveness** - Unknown, due to a lack of a baseline prior to street sweeping operations. However, this BMP is believed to be effective as many tons of debris are removed from the streets and gutters annually which otherwise would enter the MS4.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - None. Completed.

**City of Clearlake**

**Measurable Goal Results** - Complete.

**Measurable Goals Results** – The City of Clearlake adopted resolution 126-2006, on January 25, 2007, which by separate resolution adopted the Municipal Operations BMP Handbook produced by the California Stormwater Quality Association (CASQA). The handbook includes numerous street sweeping BMPs. On July 12, 2007 the, City of Clearlake City Council adopted Resolution No. 32-2007 adopting the CASQA handbooks which establishes performance requirements and best management practices (BMPs) to prevent or minimize discharged of Stormwater pollutants and storm water quality impacts.

**Problems in Obtaining Measurable Goals** - None.

**BMP Effectiveness** - Street sweeping is a very effective way to reduce the amount of pollutants entering the City’s storm drain system and ultimately reaching creeks and Clearlake.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - None – Complete

**City of Lakeport**

**Measurable Goal Status** - Complete.

**Measurable Goal Results** - City of Lakeport adopted Resolution No. 2272 in 2006 which, by reference, adopted the Municipal Operations BMP Handbook produced by the California Stormwater Quality Association (CASQA). Said handbook includes numerous street sweeping BMPs. The City purchased a new street sweeper in fiscal year 2009/10, and continues to maintain a regular street sweeping schedule.

**Problems in Obtaining Measurable Goals** - None.
BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - None - complete.

**MUNI 2c – Implement Street sweeping BMPs**

BMP Appropriateness - Very appropriate to implement street sweeping BMPs as streets, roads, and parking lots accumulate significant amounts of pollutants which potentially contribute to stormwater runoff into surface waters. Street sweeping can also minimize dust and decrease accumulation of debris in catch basins.

**County of Lake**

Measurable Goal Status - Complete. Ongoing.

Measurable Goal Results - The street sweeping program has been in effect for several years on the county’s paved roadways. This year the street sweeping program allocated 220.75 hours of labor and 97.75 equipment hours dedicated to litter removal from paved roadways, diverting debris from the county's streams and lakes.

Problems in Obtaining Measurable Goals - None.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - The Department of Public Works has implemented a system for tracking the cubic yards of sweeping debris accumulated and miles of streets swept. Continue with data collection.

**City of Clearlake**

Measurable Goal Results – In August 2011 the City negotiated a new franchise agreement with Clear Lake Waste Solutions, our solid waste contract hauler. The City of Clearlake was successful in negotiating street sweeping of the City's arterials, and collector streets into the new contact. City arterial, collector streets will be swept with mechanical sweepers once per month and City Park areas will be swept quarterly. The contract was executed in August 2011. The street sweeping program will begin in September 2011. See exhibit B showing the Streets and Parks to be included in the sweeping program and frequency in appendix 6-1 Between September 2011 and June 2012 the City's contract sweeper with Clear Lake Waste Solutions, picked up 33.9 tons of dirt, leaves, and other debris from the City's Arterials and Collector Streets and City Park parking lots. See exhibit B showing the Streets and Parks to be included in the sweeping program and frequency and the City of Clearlake Street Sweeping Log for 2011-2012 in appendix 6-1.

In 2011-12 the City of Clearlake continued with its annual Spring Clean-Up Day, which occurred on April 28, 2012 this year. The City had approximately 140 volunteers this year and removed a total of 45 cubic yard of debris from City street rights of way. In addition as a part of the Spring Clean-Up Day Cal-Fire crews removed approximately 75 cubic yards of debris and green waste from Burns Valley Creek Watershed. See photos and Clearlake Observer newspaper article in appendix 2-1 under Public Outreach. See Appendix 6-3.

Problems in Obtaining Measurable Goals - None with the negotiation of a new Franchise agreement with our waste hauler, Clear Lake Waste Solutions to include Monthly Street sweeping of our City streets of our new Franchise agreement executed in August 2011.
BMP Effectiveness – Street sweeping and hand cleaning of gutters and sidewalks is a very effective way to reduce pollutants into our streams and Clear Lake.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year – Continue the current street sweeping program provided by our contract with Clear Lake Waste Solutions. See Appendix 6-1 showing the streets and parks to be included in the City of Clearlake’s street sweeping program and frequency. The City plans to continue its annual clean-up day in the spring of each year. This program has been very successful and has substantially reduced sediment into our storm drain system and into Clearlake.

City of Lakeport

Measurable Goal Status - Complete-Ongoing.

Measurable Goal Results - City Public Works Director reports that the street sweeping BMPs set forth in the CASQA handbook for municipal operations have been implemented. Street sweeping takes place according to a set schedule and accumulated debris is properly disposed of. A concrete wash area is used to wash out the street sweeper.

Problems in Obtaining Measurable Goals - None.

BMP Effectiveness - Effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Continue utilizing appropriate street sweeping BMPs. Update and modernize street sweeping reporting log to include volume counts. Create a database that can be used for future tracking.

MUNI 2d – Advertise street sweeping schedule

BMP Appropriateness - It is appropriate to advertise street sweeping schedules to the general public while maintaining a flexible, proactive/reactive, approach can increase program effectiveness. A measured response to areas of concern such as those areas requiring increased sweeping schedules due to high dust or debris generation is required for maximum efficiency and efficacy of this program.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Results - Complete-Ongoing. The Lake County Clean Water Program web site has street sweeping schedules advertised for Lake County. The City of Lakeport also has a street sweeping schedule and route map posted on Lakeport’s City website. Appendix 2-2 contains copies of these web pages and the City of Lakeport schedule/route map.

Problems in Obtaining Measurable Goals - Lack of fiscal resources and staffing to evaluate and execute other advertising mechanisms for the sweeper program.

BMP Effectiveness - Effective. The County Department of Public Works receives inquiries and requests to revise the schedule from time to time, and the Department makes accommodations for special requests. The City of Lakeport also receives similar inquiries and requests and tries to accommodate them as much as possible.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Evaluate other options for advertising street sweeping schedules along with helpful hints on what homeowners can do to help keep streets clean. City of Lakeport—Revise/update the GIS-based street sweeper route/schedule map and post on City’s website.
MUNI-3: Green Waste Collection Programs and Activities

MUNI 3c- Advertise green waste collection activities and programs available to the public

BMP Appropriateness- Appropriate to advertise green waste collection activities and programs available to the general public. Increased public awareness of available green waste collection activities and programs results in increased used of said programs and reduced illegal dumping.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Status- Complete-Ongoing.

Measurable Goal Results
- County of Lake
  Green Waste Collection Programs are advertised through radio, TV, newspapers, handouts, Public Services web page (http://recycling.co.lake.ca.us/index.asp), community events, and through its existence as curb side pickup.
- City of Clearlake
  City of Clearlake contracts green waste collection with franchise hauler, Clearlake Waste Solutions. As a part of the new franchise agreement Clearlake Waste Solutions, the City’s waste hauler will be increasing the public awareness for residential as well as commercial customers on all phases of re-cycling including the collection of green waste required by CalRecycle. Additionally, the City of Clearlake public access channel has outreach programming that advertises the green waste pickup services and availability of the landfill to accept green waste.
- City of Lakeport
  City of Lakeport contracts green waste collection with its franchise hauler, Lakeport Disposal. Lakeport Disposal has a weekly curbside green waste collection program as part of the City’s mandatory trash service. As of FY 11-12, green waste pickup service is provided year-round. This service was previously suspended during the winter months. Furthermore, households can request additional collection totes if necessary during the fall months. Lakeport Disposal also provides a free drop off collection spot for Christmas trees in late December/early January. Traditional advertising may not be necessary given that each residential household is provided with a 90-gallon green waste container. Green waste collection information is provided on the City’s website and on Lakeport Disposal’s website. Copies of these web pages are included in Appendix 2-2.

Problems in Obtaining Measurable Goals- Staff typically prioritize and concentrate on a portion of the program at any one time due to limited resources, including but not limited to, staffing level, fiscal resources, and Departmental priorities.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue advertise green waste collection programs available to the public.

MUNI-4: Litter Control Programs and Activities

MUNI 4c- Advertise litter control activities and programs available to the public

BMP Appropriateness- Appropriate to advertise litter control activities and programs available to the general public and also educate the public of the impacts litter has on stormwater quality. Increased public awareness about the impacts of litter on stormwater and what they can do, such as volunteering in...
community clean up events, using ashtrays and public garbage receptacles, will most likely increase use of using the already-provided garbage receptacles.

**County of Lake, City of Clearlake, and City of Lakeport**

**Measurable Goal Status**: Complete-Ongoing.

**Measurable Goal Results**

- **Lake County Public Works** advertises the Adopt-A-Road Program during Public Works Week and by posting signs at road segments in need of volunteers. Road sections that are adopted are also posted Lake County Adopt-A-Road with the volunteer’s name.

- **Lake County Public Works, Water Resources Division** advertises Creek Clean up events sponsored by the East Lake and West Lake Resource Conservation District on the Water Resources Division web page.

- **Lake County Public Services** advertises various litter control activities and programs at public events. The nature of programs advertised is dependent upon the timing of event with scheduled litter control programs.

- **City of Lakeport Public Works** staff participates in the annual Downtown Lakeport Clean Up Day which typically takes place in May preceding the Memorial Day holiday.

- **City of Lakeport Public Works** coordinates solid waste needs with applicants/sponsors of all special community events and ensures that an adequate number of receptacles are provided. The City also provides recycling containers at all community events.

**Problems in Obtaining Measurable Goals**: None.

**BMP Effectiveness**: Effective.

**Proposed Changes to BMPs and Measurable Goals**: None.

**Activities Planned for Next Year** - Continue advertising litter control activities and programs available to the public. Work on the development of a brochure, on behalf of all co-permittees for the stormwater program, dedicated to litter control activities and programs available to the public.

**MUNI-5: MS4 Inspections and Maintenance Activities**

**MUNI 5b – Develop MS4 inspection and maintenance BMPs**

**BMP Appropriateness**: Appropriate to develop MS4 inspection and maintenance BMPs to be in-line with what is required under increasing water quality regulations.

**County of Lake**

**Measurable Goal Status**: Complete. The MS4 Map/GIS Layer was completed in September 2010. The County has purchased hand held GPS data collection units to assist in the Inspection and Maintenance program. The County expects to update the storm water infrastructure database in the coming year. The Department of Public Works has developed, and follows standard operating procedures for inspection and maintenance of the County storm water system, based upon the CASQA Best Management Practices Handbook BMPs.

**Measurable Goal Results**: The County has adopted the CASQA Best Management Practices Handbook for storm drain maintenance BMPs. During the fall of the year, DPW cleans every drop inlet with the vacuum attachment of the street sweeper. During each rain storm DPW staff inspects as many storm
drains as possible, looking to remove debris. The County spent 2,888.5 equipment hours, and 5,542.75 staff hours in FY 2011/12 cleaning and maintaining the County storm drain system.

Problems in Obtaining Measurable Goals- None at the present time. Lack of fiscal resources and staffing had delayed completion of this program in the past.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Update the storm water infrastructure database.

City of Clearlake

Measurable Goal Status: Complete

Measurable Goal Results: The City has the following inspection and maintenance BMPs: Annually the City inspects all of its storm drain facilities including catch basin inlets, culvert crossings, storm drain pipe lines and drainage ditches. Catch basins, area drains, and culvert crossings, are cleaned each fall to remove silt and other debris that has collected to prevent pollutants from entering the City’s storm drains, and ultimately reaching Clearlake. During the 11-12 reporting period the City of Clearlake’s Public Works crews, inmates and public volunteers removed 882 cubic yards of silt and mud, and another 18 cubic yards of debris and trash and 3 cubic yards of mixed recycling from the City’s storm drainage ditches, creeks, inlets and catch basins and City streets.

Problems in Obtaining Measurable Goals- None

BMP Effectiveness- The annual inspection and cleaning of storm drainage facilities prevents or minimizes the discharge of Stormwater pollutants into the City’s storm drain system and Clearlake.

Proposed Changes to BMPs and Measurable Goals- It is the City’s intent to work with Lake County Public Works Department to use their vacuum equipment to clean storm drain outlets, and catch basins within the City of Clearlake as time and labor sharing can occur. Otherwise this work element will continue to be done by hand to assure that sediment collected in our storm drain system is cleaned each fall before the rain season begins.

Activities Planned for Next Year- Continue the existing inspection and maintenance BMPs. It is the City’s intent to work with Lake County Public Works Department to have our street sweeping contractor use their vacuum equipment to clean storm drain outlets, and catch basins, as time and labor sharing allows. Otherwise this work element will continue to be done by hand to assure that sediment collected in our storm drain system is cleaned each fall before the rain season begins. Using Public Works Crews, California Conservation crews or Lake County inmates the City plans to hand clean Burns Valley Creek, Miller Creek, and Molesworth Creek of debris and liter, from the creek’s entrances into Clearlake, upstream approximately 1,500 to 2,000 feet. This work will be scheduled in September, October and November before the start of the heavy rainy season.

City of Lakeport

Measurable Goal Status- Complete.

Measurable Goal Results- City Public Works Director reports that MS4 inspection and maintenance BMPs as set forth in the CASQA handbook for municipal operations have been implemented. The City collected 12 cubic yards of waste and debris from the storm drain system and expended 310 man-hours doing so.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Presumably effective.
Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None. Complete.

**MUNI 5c – Distribute MS4 Inspection and maintenance BMP information**

BMP Appropriateness- Appropriate to distribute information to applicable staff so that they are informed of proper municipal maintenance responsibilities to the Stormwater Program.

**County of Lake**

Measurable Goal Status- Complete.

Measurable Goal Results- Storm drain inspection and maintenance BMPs as set forth in the CASQA handbook for municipal operations have been distributed to appropriate Public Works Department staff.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Department of Public Works will finalize the MS4 GIS Layer and inspect and update the infrastructure database and distribute revised BMPs to staff based upon infrastructure inspection. The County is considering making the GIS layer available via the internet through the County’s GIS website.

**City of Clearlake**

Measurable Goals Status – Complete

Measurable Goal Results - City Public Works Foreman indicates that storm drain inspection and maintenance BMPs as set forth in the CASQA handbook for municipal operations have been and/or will be distributed to appropriate Public Works Department personnel

Problems in Obtaining Measurable Goals – None

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year – To ensure that all City Public Works personnel involved in storm drain inspection and maintenance activities are knowledgeable on storm water BMPs they will be discussed during regular staff safety and training meetings.

**City of Lakeport**

Measurable Goal Status- Complete.

Measurable Goal Results- City Public Works Director reports that MS4 inspection and maintenance BMPs as set forth in the CASQA handbook for municipal operations have been and/or will be distributed to appropriate Public Works Department personnel.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective per the City’s Public Works Director.

Proposed Changes to BMPs and Measurable Goals- None.
Activities Planned for Next Year- Ensure that all City Public Works personnel involved in MS4 inspection and maintenance activities are provided with the appropriate BMPs. Ongoing training takes place according to the City’s Public Works Director.

**MUNI 5d – Implement MS4 Inspection and maintenance BMP to the maximum extent practicable.**

BMP Appropriateness- Appropriate to implement MS4 inspection and maintenance BMPs to increase the program effectiveness through regular inspections and maintenance procedures.

**County of Lake**

Measurable Goal Results- Complete. Ongoing. In the fall of the year, DPW cleans every drop inlet with the vacuum attachment of the sweeper. During each rain storm DPW staff is inspecting as many storm drains as possible, looking to remove debris.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing continue to make it difficult to accomplish 100 percent of this program task.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

**City of Clearlake**

Measurable Goal Results – Inspection and maintenance BMPs have been implemented as indicated in section 5b.

Problems in Obtaining Measurable Goals- None

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year- Continue with current BMP by using street sweeper vacuum attachment to clean drop inlets and utilize DPW staff to monitor storm drains during rain events.

**City of Lakeport**

Measurable Goal Status- Complete-Ongoing.

Measurable Goal Results- City Public Works Director reports that appropriate MS4 inspection and maintenance BMPs have been implemented. One notable BMP is the annual inspection, maintenance and cleaning of all MS4 drop inlets and catch basins prior to the rainy season. Drop inlets and catch basins are also monitored for sediment accumulations during the rainy season.
Section 7 Pollution Prevention and Good Housekeeping for Municipal Operations

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective per the City's Public Works Director.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue using MS4 inspection and maintenance BMPs as appropriate.

MUNI 5e - Document Problem Areas

BMP Appropriateness- Appropriate to document problem areas as revealed through the MS4 inspection and maintenance program. Problem areas may require a modified approach to maintenance, maintenance scheduling, or a change in BMP used.

County of Lake

Measurable Goal Results- Incomplete. The Department of Public Works has identified the problem areas in the MS4, but has struggled to document their locations. Documentation has been delayed because the Department is able to identify problem areas without documentation, but rather through institutional knowledge.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Document problem areas revealed during implementation of BMP inspection and maintenance of BMPs.

City of Clearlake

Measurable Goal Status – Complete

Measurable Goal Result – The storm drainage systems along Lakeshore Drive are considered a potential problem area, because Lakeshore Drive fronts onto Clearlake, and thus given a higher priority in maintaining a higher level of inspection and maintenance BMPs. The City Public Works Department has identified the following natural creeks that flow into Clearlake along Lakeshore Drive, or Old Highway 53: Burns Valley Creek, Miller Creek, and Molesworth Creek.

Problems in Obtaining Measurable Goals – None

Proposed Changes to BMPs and Measurable Goals – The City of Clearlake has established a higher priority to the following creeks that drain into Clearlake: Burns Valley Creek, Miller Creek, and Molesworth Creek. Using Lake County inmates the City of Clearlake plans to hand clean Burns Valley Creek, Miller Creek, and Molesworth Creek of debris and litter, from creek’s entrance into Clearlake, upstream approximately 1,500 to 2,000 feet. This work will be scheduled in September, October, and November before the start of the heavy rainy season.

Activities Planned for next Year – Continue the City's annual inspection and maintenance BMP program. Investigate the possibility obtaining grants to allow the City to add a GIS layer of the City’s Stormwater System to its existing GIS mapping system.

City of Lakeport

Measurable Goal Status- Complete.
Section 7  Pollution Prevention and Good Housekeeping for Municipal Operations

Measurable Goal Results- According to the City Public Works Director, all MS4 facilities in the City’s historic downtown area and near water bodies such as Clear Lake and Forbes Creek are considered “problem areas” that warrant extra consideration.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective per the City’s Public Works Director.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue the City’s annual inspection and maintenance program. Budget issues have prevented the City from integrating MS4 “problem areas” into the City’s GIS database.

Table 7.2 Status and effectiveness of MUNI Stormwater Pollutant Control/Removal Programs Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
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<tbody>
<tr>
<td>MUNI 2a</td>
<td>Evaluate and document current street sweeping practices.</td>
<td>Street sweeping practices evaluated.</td>
<td>County of Lake</td>
<td>X</td>
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<tr>
<td>MUNI 2b</td>
<td>Develop/revise street sweeping BMPs.</td>
<td>BMPs developed.</td>
<td>County of Lake</td>
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<tr>
<td>MUNI 2c</td>
<td>Implement street sweeping BMPs.</td>
<td>Implement street sweeping BMPs.</td>
<td>County of Lake</td>
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<tr>
<td>MUNI 2d</td>
<td>Advertise street sweeping schedule.</td>
<td>Street sweeping schedule advertised on websites and other appropriate mechanisms.</td>
<td>County of Lake</td>
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<td>City of Lakeport</td>
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<tr>
<td>MUNI 3c</td>
<td>Advertise green waste collection activities and programs available to the public.</td>
<td>Green waste program activities advertised on websites and other appropriate mechanisms.</td>
<td>County of Lake</td>
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<tr>
<td>MUNI 4c</td>
<td>Advertise litter control activities and programs available to the public.</td>
<td>Litter control activities advertised on websites and other appropriate mechanisms.</td>
<td>County of Lake</td>
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Section 7  Pollution Prevention and Good Housekeeping for Municipal Operations

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<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
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<td>Ongoing</td>
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<tr>
<td>MUNI 5b</td>
<td>Develop MS4 inspection and maintenance BMPs.</td>
<td>BMPs developed and documented.</td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>MUNI 5c</td>
<td>Distribute MS4 inspection and maintenance BMP information.</td>
<td>Inspection and maintenance information distributed to applicable staff.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>MUNI 5d</td>
<td>Implement MS4 inspection and maintenance BMPs to the maximum extent practicable.</td>
<td>BMPs implemented.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>MUNI 5e</td>
<td>Document problem areas.</td>
<td>Problem areas documented and BMPs revised as appropriate.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

MUNICIPAL OPERATIONS STORMWATER MANAGEMENT

MUNI-6: Review and evaluate impacts to stormwater from existing road repair and maintenance activities

MUNI 6b Develop road repair and maintenance BMPs

BMP Appropriateness- Appropriate to develop road repair and maintenance BMPs as traffic use and climatic conditions place demands on road maintenance and repair. Pollutants found on roads and streets vary depending upon the presence of roadside vegetation, herbicide use, vehicle spills, and winter de-icing applications. Pollution constituents include heavy metals, particulates, petroleum products, and herbicides.

County of Lake

Measurable Goal Status- Complete

Measurable Goal Results: Complete. An ordinance amending Chapter 29 of the Lake County Code (Storm Water Ordinance) was adopted on August 28, 2007. The amending ordinance adopted the CASQA “Best Management Practices Handbook”, which includes road maintenance and repair BMPs.

Problems in Obtaining Measurable Goals- None

BMP Effectiveness- Unknown, Effective.
Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None needed.

City of Clearlake

Measurable Goal Results – The City of Clearlake performs very little asphalt repair and maintenance due to funding constraints. The City has over 50 miles of unpaved streets that it maintains. The unpaved roads are graded and additional road base is added to the surface of the road annually during the summer months. The impacts to stormwater are minimal from the asphalt patching and paving that the City performs on a regular basis. To reduce the impacts from the road grading operation moisture is added and the surface is compacted to tighten the surface and reduce the potential of loose sediment from enter the City’s drainage channels and streams and ultimately Clear Lake. As labor and time permit the City is adding asphalt street grindings removed from recent street rehabilitation projects to the City’s unimproved streets which help reduce the amount of silt entering our drainage channels and streams from these unimproved dirt roads.

Problems in Obtaining Measurable Goals - It is difficult to determine a measurable goal when you impacts are minimal, as is the case with out street patching and grading operation. A minimum goal should be to reduce small particles of asphalt and small gravel from reaching the City’s drainage channels and creeks.

BMP Effectiveness – Unknown—probably minimally effective.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Reduce as much as possible the amount of pollutants from asphalt patching and paving mix and small gravels and sand from the City’s grading operations from entering the City’s drainage channels and creeks. The City Public Works crews will continue to place asphalt grindings on its unimproved roads to improve the overall condition of the road and reduce erosion.

City of Lakeport

Measurable Goal Status - Complete.


Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None. Complete.

MUNI 6c Distribute road repair and maintenance BMP Information

BMP Appropriateness - Appropriate to distribute road repair and maintenance BMPs information to maintenance personnel charged with road repair/maintenance to provide an understanding of the constituents affecting water quality and to increase awareness regarding the efficacy of the appropriate BMPs.

County of Lake
Section 7 Pollution Prevention and Good Housekeeping for Municipal Operations

Measurable Goal Status - The Department of Public Works has adopted the Caltrans storm water management plan BMPs and is distributing this along with training materials to staff in the three road yards, Central Garage/ISF and the Paint and Sign shop. Appendix 4-2 includes an excerpt from the BMP handbook adopted and implemented by the Department of Public Works.

Measurable Goal Results: Complete, Ongoing as methods and technologies continue to evolve.

Problems in Obtaining Measurable Goals - None.

BMP Effectiveness - Presumably effective.

Proposed Changes to BMPs and Measurable Goals - None.

Activities Planned for Next Year - Continue to distribute road maintenance and repair BMP information by way of training CD’s or videos and hands on trainings.

City of Clearlake

Measurable Goal Results - The City should follow its existing procedures for reducing pollutants from asphalt patching and paving projects. In 2007 the City adopted the CASQA handbook for municipal operations and the BMPs recommended in that handbook has been and/or will be distributed to the appropriate Public Works Department personnel and discussed at regular staff briefings and meetings.

Problems in Obtaining Measurable Goals - None.

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Ensure that Public Works personnel involved in street repair and maintenance are provide with the appropriate BMP information and that those BMPs are implemented.

City of Lakeport

Measurable Goal Status - Complete. Ongoing as BMPs are revised and distributed to appropriate personnel.

Measurable Goal Results: City Public Works Director reports that road repair and maintenance BMPs as set forth in the CASQA handbook for municipal operations have been and/or will be distributed to appropriate Public Works Department personnel. BMPs are also discussed amongst Public Works personnel at weekly safety briefings and at quarterly “awareness” meetings. “Project Meetings” are held in conjunction with major municipal projects. Every project that has the potential to impact water quality has a pre-construction meeting to review BMPs that will be used on the project.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Presumably effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue to provide Public Works personnel involved with road repair and maintenance activities with the appropriate BMPs.

MUNI 7: Material Storage Practices
Section 7 Pollution Prevention and Good Housekeeping for Municipal Operations

**MUNI 7b – Develop material storage BMPs**

BMP Appropriateness- Appropriate to develop material storage BMPs for the protection of water quality. Effective material storage and management requires the proper selection of products, the correct usage of the product, accurate inventory of hazardous material, an up-to-date MSDS library, and responsible disposal of the product(s).

**County of Lake**

Measurable Goal Results- In August 2007 the County adopted the Municipal Operations BMP Handbook produced by CASQA which includes oil, grease and chemical control BMPs for the protection of water quality.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None Complete

**City of Clearlake**

Measurable Goal Results- In 2007 City adopted the Municipal Operations BMP Handbook produced by CASQA which includes material storage BMPs. Adopter

Problems in Obtaining Measurable Goals- None

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None Complete

**City of Lakeport**

Measurable Goal Status- Complete.

Measurable Goal Results: In 2006 the City adopted Resolution No. 2272 which references the Municipal Operations BMP Handbook produced by CASQA which includes material storage BMPs.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None. Complete.

**MUNI 7c – Distribute material storage BMP information**

**County of Lake**

BMP Appropriateness- Appropriate to distribute material storage BMP information to applicable staff to inform staff about the safe storage of potentially polluting and hazardous material.
Section 7  Pollution Prevention and Good Housekeeping for Municipal Operations

Measurable Goal Results- Complete. The Department of Public Works has adopted the Caltrans storm water management plan, which includes material storage BMP information, and has distributed it to municip staff.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Presumably effective as staff will follow well established BMP’s for materials storage.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year – None.

City of Clearlake

Measurable Goal Status – Complete.

Measurable Goal Results: The City Public Works Foreman reports that storage BMPs as set for the in the CASQA handbook for municipal operations have been and/or will be distributed to the appropriate Public Works personnel and that BMPs are and will be discussed in staff briefings and meetings.

Proposed Changes to BMPS and Measurable Goals – None

Activities Planned for Next Year – Ensure that Public Works personnel involved in the storage of materials at the City’s Corporation Yard are provided with the appropriate BMP information, and that the BMPs are implemented.

City of Lakeport

Measurable Goal Status- Complete. Ongoing.

Measurable Goal Results: City Public Works Director reports that material storage BMPs as set forth in the CASQA handbook for municipal operations are distributed to appropriate Public Works Department personnel. BMPs are also discussed amongst Public Works personnel at weekly safety briefings and at quarterly “awareness” meetings.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Presumably effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue to ensure that Public Works personnel involved with storage material activities are provided with the appropriate BMPs.

MUNI 7d – Implement material storage BMP to the maximum extent practicable

BMP Appropriateness- Appropriate to implement material storage BMPs to reduce the potential of accidental spills or releases of hazardous materials during storm events. By implementation, health and safety at the facility, and water quality will be ensured.

County of Lake

Measurable Goal Results – Complete. Ongoing. The Department of Public Works has implemented BMPs as outlined in the Caltrans Storm Water Plan, the Department has also purchased BMPs for each road yard.
Section 7  Pollution Prevention and Good Housekeeping for Municipal Operations

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year –
• Continue the deployment of material storage BMPs.
• Assess BMP effectiveness and modify as needed.

City of Clearlake

Measurable Goal Status – Complete - Ongoing

Measurable Goal Results – Complete-Ongoing.

Problems in Obtaining Measurable Goals - The City Public Works Foreman reports that appropriate material storage BMPs have been implemented at the City's Corporation Yard.

BMP Effectiveness – Effective.

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Use the material storage BMPs as appropriate and recommended in the CASQA handbooks.

City of Lakeport

Measurable Goal Status- Complete-Ongoing.

Measurable Goal Results- City Public Works Director reports that appropriate material storage BMPs have been implemented at the City's corporation yard.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective per the City's Public Works Director.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue using material storage BMPs as detailed in the CASQA handbook as appropriate. Assess BMP effectiveness and modify as needed.

MUNI-8: Review and evaluate existing chemical, solvents, oil and greases controls

MUNI 8b- Develop appropriate oil, grease and chemical control BMPs

BMP Appropriateness- Appropriate to develop appropriate oil, grease and chemical control best management practices for the protection of water quality.

County of Lake

Measurable Goal Results- In August 2007 the County adopted the Municipal Operations BMP Handbook produced by CASQA which includes oil, grease and chemical control BMPs for the protection of water quality.

Problems in Obtaining Measurable Goals- None.
BMP Effectiveness- Effective

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None. Complete

City of Clearlake

Measurable Goal Results: In 2007 the City adopted the Municipal Operations BMP Handbook produced by CASQA which includes oil, grease and chemical control BMPs for the protection of water quality.

Problems in Obtaining Measurable Goals- None

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None. Complete.

City of Lakeport

Measurable Goal Status- Complete.

Measurable Goal Results: In 2006 the City adopted the Municipal Operations BMP Handbook produced by CASQA which includes oil, grease and chemical control BMPs for the protection of water quality.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None. Complete.

MUNI 8c- Distribute oil, grease and chemical control BMP information

BMP Appropriateness- Appropriate to distribute information to applicable staff so that they are informed of proper oil, grease and chemical control BMPs and how they relate to the protection of water quality.

County of Lake

Measurable Goal Results- Complete. The Department of Public Works has implemented BMPs as outlined in the Caltrans Storm Water plan for corporation yards. These BMPs were distributed to appropriate staff in October 2009.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Presumably effective as staff will follow well established BMPs for yard operations

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Assess effectiveness of BMPs and modify if needed.

City of Clearlake

Measurable Goal Status – Complete
Measurable Goal Result: The City Public Works Foreman has indicated that oil, grease and chemical BMPs as set forth in the CASQA handbook for municipal operations have been and/or will be distributed to the appropriate Public Works personnel. BMPs are also discussed during staff briefings and meetings.

Problems in Obtaining Measurable Goals – None

BMP Effectiveness – Effective in assuring knowledge and awareness of the BMPs.

Proposed Changes to BMPs and Measurable Goals - None

Activities Planned for Next Year – Provide all Public Works personnel responsible for oil, grease and chemical control activities with information on the appropriate BMPs.

City of Lakeport

Measurable Goal Status- Complete. Ongoing.

Measurable Goal Results: City Public Works Director reports that oil, grease and chemical BMPs as set forth in the CASQA handbook for municipal operations are distributed to appropriate Public Works Department personnel. BMPs are also discussed amongst Public Works personnel at weekly safety briefings and at quarterly “awareness” meetings.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Presumably effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue to ensure that Public Works personnel responsible for oil, grease and chemical control activities are provided with the appropriate BMPs.

MUNI 8d- Implement oil, grease and chemical control BMP

BMP Appropriateness- Appropriate to implement oil, grease and chemical control BMPs for the protection of water quality.

County of Lake

Measurable Goal Status – Complete.

Measurable Goal Results- Staff has been trained in spill control and has implemented BMPs around corporation yards, as defined in the adopted Caltrans storm water pollution control manual.

Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing had previously delayed accomplishment of program tasks.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Monitor oil, grease and chemical control BMPs to ensure effectiveness.

City of Clearlake

Measurable Goal Status- Complete-Ongoing.
Section 7  Pollution Prevention and Good Housekeeping for Municipal Operations

Measurable Goal Results – City Public Works Foreman indicates that appropriate oil, grease and chemical control BMPs have been implemented at the City’s corporation yard. Oil, grease and similar products are stored in accordance with the recommended BMPs. Oil, grease, etc. are also properly recycled. Other BMPs are used as needed.

Problems in Obtaining Measurable Goals - None

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - The City will continue using oil, grease and chemical control BMPs as appropriate.

City of Lakeport

Measurable Goal Status- Complete-Ongoing.

Measurable Goal Results- City Public Works Director reports that appropriate oil, grease and chemical control BMPs have been implemented at the City's corporation yard. Oil, grease and similar products are stored in accordance with the recommended BMPs. Oil, grease, etc. are also properly recycled. Other BMPs are used as needed. In FY 10-11, the City purchased secondary containment pallets for the storage of 55-gallon drums containing petroleum products. Two fireproof storage cabinets for paints and solvents were also installed at the corporation yard in FY 10-11. The Public Works Director notes that the corporation yard is inspected annually by the Lake County Environmental Health Department and that there were no issues associated with the most recent inspection.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective per the City’s Public Works Director.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue using oil, grease and chemical control BMPs as appropriate. Assess BMP effectiveness and modify as needed

MUNI-9: Corporation Yard Drainage

MUNI 9a – Evaluate and map site drainage at corporation yards

BMP Appropriateness- Appropriate to have an understanding of drainage patterns at corporation yards so that municipal maintenance staff are able to respond to spills more effectively, plan outside work in areas less subject to stormwater run-off and place material stockpiles in more appropriate locations away from stormwater run-off.

County of Lake

Measurable Goal Results- Complete. Site drainage maps have been prepared for each of the road yards and Central Garage/ISF.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.
Activities Planned for Next Year - Attempt to obtain topographical maps of site drainage at corporation yards.

**City of Clearlake**

Measurable Goal Status – Complete

Measurable Goal Results - The City has a GIS topographic map of its City Corporation Yard which provides Public Works staff with a general knowledge of the corporation yard’s drainage patterns.

Problems in Obtaining Measurable Goals – None

BMP Effectiveness – Effective

Activities Planned for Next Year - None

**City of Lakeport**

Measurable Goal Status- Complete.

Measurable Goal Results- The City of Lakeport has detailed topographic data of its Martin Street corporation yard. Said data provides staff with an adequate knowledge of the site’s drainage patterns.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None.

*MUNI 9b – Based on issues revealed in site drainage evaluation and mapping, develop appropriate BMPs.*

BMP Appropriateness- Appropriate to have an understanding of drainage patterns at corporation yards to develop BMPs for stormwater run-off.

**County of Lake**

Measurable Goal Results- Complete. The Department of Public Works has implemented BMPs as outlined in the Caltrans Storm Water plan for corporation yards.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Presumably effective as staff will follow well established BMPs for yard operations.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Attempt to obtain topographical maps to evaluate site drainage patterns and characteristics at corporation yards for development of appropriate BMPs.

**City of Clearlake**

Measurable Goal Status - Complete

Measurable Goal Results – The City’s Corporation Yard is in compliance with BMPs as set forth in the CASQA handbook adopted by the City.
Section 7 Pollution Prevention and Good Housekeeping for Municipal Operations

Problems in Obtaining Measurable Goals – None

BMP Effectiveness – Unknown

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Ensure that site drainage patterns are taken into consideration when implementing BMPs in the City’s Corporation Yard.

City of Lakeport

Measurable Goal Status- Complete.

Measurable Goal Results- The drainage patterns at the corporation yard resulted in the relocation of the street sweepers washout area. All washouts are now done in a contained area that is provided with a concrete surface.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue to take site drainage patterns into consideration in conjunction with typical corporation yard work activities.

MUNI 9c – Implement BMPs to the maximum extent practicable.

BMP Appropriateness- Appropriate to implement BMPs at corporation yards to prevent storm water pollution.

County of Lake

Measurable Goal Results- Complete. The Department has installed BMPs around the parameter of the corporation yards and drainage structures within the corporation yards.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Presumably effective. Installed BMPs are based upon Caltrans standards.

Proposed Changes to BMPs and Measurable Goals-None.

Activities Planned for Next Year- Assess effectiveness of BMPs and modify as needed.

City of Clearlake

Measurable Goal Results – The City’s Public Works Foreman indicates that appropriate BMPs as set forth in the CASQA handbook for municipal operations have been implemented

Problems in Obtaining Measurable Goals - None

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Continue incorporating BMPs into the typical activities at the City of Clearlake’s Corporation Yard.
City of Lakeport

Measurable Goal Status: Complete. Ongoing. City Public Works Director reports that appropriate BMPs as set forth in the CASQA handbook for municipal operations have been implemented and will continue to be implemented and reviewed for effectiveness.

Measurable Goal Results: Certain practices at the City’s corporation yard have been modified in order to prevent storm water pollution. See City of Lakeport responses to Muni 7d, Muni 8d and Muni 9b for details.

Problems in Obtaining Measurable Goals: None

BMP Effectiveness: Effective

Proposed Changes to BMPs and Measurable Goals: None

Activities Planned for Next Year: Continue practice of incorporating BMPs into typical activities at the City of Lakeport corporation yard. Perform a review of current BMPs and determine if changes are needed to prevent storm water pollution.

MUNI-10: Parks, open space, building and grounds operations

MUNI 10b- Develop BMP information for parks, open space, and building and grounds operations

BMP Appropriateness: Appropriate to develop appropriate best management practices for parks open space and building and grounds operations for the protection of water quality.

County of Lake

Measurable Goal Results: Complete. In August 2007 the County adopted the Municipal Operations BMP Handbook produced by CASQA, which includes BMPs related to maintenance of parks and open space areas as well as building and grounds.

Problems in Obtaining Measurable Goals: None.

BMP Effectiveness: Effective.

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: None.

City of Clearlake

Measurable Goal Results: In 2007 the City adopted the Municipal Operations BMP Handbook produced by CASQA which includes BMPs related to maintenance of parks and open space areas as well as building and grounds operations.

Problems in Obtaining Measurable Goals: None

BMP Effectiveness: Effective

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: None. Complete
City of Lakeport

Measurable Goal Status: Complete.

Measurable Goal Results: In 2006 the City adopted the Municipal Operations BMP Handbook produced by CASQA which includes BMPs related to maintenance of parks and open space areas as well as building and grounds operations.

Problems in Obtaining Measurable Goals: None.

BMP Effectiveness: Effective.

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: None. Complete.

MUNI 10c- Distribute BMP information for parks, open space, and building and grounds operations

BMP Appropriateness: Appropriate to distribute information to applicable staff so that they are informed of and practice water quality friendly practices for parks, open space and building and grounds maintenance activities.

County of Lake

Measurable Goal Results: Complete. The Department of Public Services has developed "Municipal Housekeeping Practices" based upon the adopted CASQA Handbook, and has distributed these in the form of a checklist for use by their field staff for Parks and Buildings and Grounds.

Problems in Obtaining Measurable Goals: None.

BMP Effectiveness: Effective.

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: None.

City of Clearlake

Measurable Goal Status – Complete

Measurable Goal Results: City Public Works Foreman reports that BMPs related to parks, open space and building and grounds maintenance activities have been and/or will be distributed to appropriate Public Works Department personnel. BMPs are set forth in the CASQA handbook for municipal operations. Water quality BMPs are also discussed with Public Works personnel at staff briefings and meetings.

BMP Effectiveness – Effective

Proposed Changes to BMPs and Measurable Goals – None

Activities Planned for Next Year - Ensure that Public Works personnel and volunteers responsible for maintenance activities at the City’s parks, open space areas, and municipal buildings/grounds are provided with the appropriate BMPs.

City of Lakeport
Section 7 Pollution Prevention and Good Housekeeping for Municipal Operations

Measurable Goal Status: Complete. Ongoing.

Measurable Goal Results: City Public Works Director reports that BMPs related to parks, open space and building and grounds maintenance activities are distributed to appropriate Public Works Department personnel. BMPs are also provided to citizen members of the Westside Park Committee who are involved with the maintenance/operation of the Westside Community Park. Said BMPs are set forth in the CASQA handbook for municipal operations. Water quality BMPs associated with these activities are also discussed amongst Public Works personnel at weekly safety briefings and at quarterly “awareness” meetings.

Problems in Obtaining Measurable Goals: None.

BMP Effectiveness: Presumably effective.

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: Continue to ensure that Public Works personnel and volunteers responsible for maintenance activities at the City’s parks, open space areas, and municipal buildings/grounds are provided with the appropriate BMPs. Follow up to ensure that all employees and volunteers have current BMPs.

MUNI 10d- Implement BMPs to the maximum extent practicable

BMP Appropriateness: Appropriate to implement BMPs to the maximum extent practicable for parks, open space and building and grounds maintenance activities.

County of Lake

Measurable Goal Results: Complete, Ongoing. The County Public Services Department has indicated that appropriate BMPs are implemented in conjunction with maintenance of the County’s parks and municipal buildings. A checklist was also developed to aid field staff with following all applicable BMPs.

Problems in Obtaining Measurable Goals: None.

BMP Effectiveness: Effective.

Proposed Changes to BMPs and Measurable Goals: None.

Activities Planned for Next Year: Continue using appropriate BMPs in conjunction with maintenance activities at the County’s parks, open space areas, and municipal buildings/grounds.

City of Clearlake

Measurable Goal Results: Complete - Ongoing.

Problems in Obtaining Measurable Goals: City Public Works Foreman reports that appropriate BMPs are used in conjunction with maintenance activities at the City’s parks, open space areas, and municipal buildings/grounds.

BMP Effectiveness: Effective

Proposed Changes to BMPs and Measurable Goals: None

Activities Planned for Next Year: Continue using appropriate BMPs in conjunction with maintenance activities at the City’s parks, open space areas, and municipal buildings/grounds.

City of Lakeport
Measurable Goal Status- Complete-Ongoing.

Measurable Goal Results- City Public Works Director reports that appropriate BMPs are used in conjunction with maintenance activities at the City’s parks, open space areas, and municipal buildings/grounds. Appropriate BMPs are also provided at the Westside Community Park, portions of which are still being improved.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective per the City’s Public Works Director.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue using appropriate BMPs in conjunction with maintenance activities at the City’s parks, open space areas, and municipal buildings/grounds.

Table 7.3 Status and effectiveness of Municipal Operations Stormwater Management Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
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<tbody>
<tr>
<td>MUNI 6b</td>
<td>Develop road repair and maintenance BMPs</td>
<td>BMPs developed and documented</td>
<td>County of Lake City of Clearlake City of Lakeport</td>
<td>Complete Incomplete Ongoing Effective Not Effective Unknown Yes No</td>
<td>X X X</td>
<td>X</td>
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<tr>
<td>MUNI 6c</td>
<td>Distribute road repair and maintenance BMP Information</td>
<td>Inspection and maintenance information distributed to applicable staff</td>
<td>County of Lake City of Clearlake City of Lakeport</td>
<td>Complete Incomplete Ongoing Effective Not Effective Unknown Yes No</td>
<td>X X X</td>
<td>X</td>
</tr>
<tr>
<td>MUNI 7b</td>
<td>Develop material storage BMPs</td>
<td>BMPs developed and documented</td>
<td>County of Lake City of Clearlake City of Lakeport</td>
<td>Complete Incomplete Ongoing Effective Not Effective Unknown Yes No</td>
<td>X X X</td>
<td>X</td>
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<td>MUNI 7c</td>
<td>Distribute material storage BMP information</td>
<td>Material storage information distributed to applicable staff</td>
<td>County of Lake City of Clearlake City of Lakeport</td>
<td>Complete Incomplete Ongoing Effective Not Effective Unknown Yes No</td>
<td>X X X</td>
<td>X</td>
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<tr>
<td>MUNI 7d</td>
<td>Implement material storage BMP to the maximum extent practicable</td>
<td>BMPs implemented and revised as appropriate</td>
<td>County of Lake City of Clearlake City of Lakeport</td>
<td>Complete Incomplete Ongoing Effective Not Effective Unknown Yes No</td>
<td>X X X</td>
<td>X</td>
</tr>
<tr>
<td>BMP #</td>
<td>DESCRIPTION</td>
<td>MEASURABLE GOAL</td>
<td>CO-PERMITTEES</td>
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<tr>
<td>MUNI 8b</td>
<td>Develop appropriate oil, grease and chemical control BMPs.</td>
<td>BMPs developed and documented.</td>
<td>City of Clearlake</td>
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<tr>
<td>MUNI 8c</td>
<td>Distribute oil, grease and chemical control BMP information.</td>
<td>Information distributed to applicable staff.</td>
<td>County of Lake</td>
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<tr>
<td>MUNI 8d</td>
<td>Implement oil, grease and chemical control BMP</td>
<td>BMPs implemented and revised as appropriate</td>
<td>County of Lake</td>
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<tr>
<td>MUNI 9a</td>
<td>Evaluate and map site drainage at corporation yards.</td>
<td>Site drainage map and evaluation.</td>
<td>County of Lake</td>
<td>X</td>
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<tr>
<td>MUNI 9b</td>
<td>Based on issues revealed in site drainage evaluation and mapping, develop appropriate BMPs</td>
<td>BMPs developed</td>
<td>County of Lake</td>
<td>X</td>
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<tr>
<td>MUNI 9c</td>
<td>Implement BMPs to the maximum extent practicable</td>
<td>BMPs implemented and revised as appropriate</td>
<td>County of Lake</td>
<td>X</td>
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<tr>
<td>MUNI 10b</td>
<td>Develop BMPs as needed.</td>
<td>BMPs developed and documented.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Lakeport</td>
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<td>X</td>
</tr>
<tr>
<td>MUNI 10c</td>
<td>Distribute BMP information.</td>
<td>Information distributed to applicable staff.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
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<td>City of Clearlake</td>
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<td>City of Lakeport</td>
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<tr>
<td>MUNI 10d</td>
<td>Implement BMPs to the maximum extent practicable.</td>
<td>BMPs implemented and revised as appropriate</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>City of Lakeport</td>
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</tbody>
</table>
COORDINATION AND TRAINING

**MUNI-11: Keep municipal maintenance employees informed on stormwater related issues and streamline communications**

*MUNI 11a – Investigate the feasibility of providing internet and email capabilities to county municipal maintenance employees*

BMP Appropriateness- Appropriate to have internet and email capabilities for County municipal maintenance employees. Internet access allows employees to research current technologies and trends for all aspects of their work. Email capabilities enable information exchange in an efficient manner.

**County of Lake**

Measurable Goal Results – Complete - All road yards and central garage have internet and email capability.

Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Unknown.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- None-complete.

**City of Clearlake and City of Lakeport** – Not Applicable

*MUNI 11b – Develop or revise a pollution prevention training program for municipal staff*

BMP Appropriateness- Appropriate to develop a pollution prevention training program for municipal maintenance staff. Through an appropriate training program municipal maintenance staff can be kept informed of current regulations and the County SWMP, new requirements on how to conduct day to day operations with consideration of protecting water quality, and record keeping and reporting protocols to track program pitfalls and successes for adaptive management and aid in the annual reporting process.

**County of Lake and City of Lakeport**


Problems in Obtaining Measurable Goals- Lack of fiscal resources and staffing to accomplish program tasks.

BMP Effectiveness- Effective.

Proposed Changes to BMPs and Measurable Goals- None.


**City of Clearlake**

Measurable Goal Results- The City of Clearlake has formally adopted the CASQA BMP handbooks, including the handbook for Municipal Operations. The CASQA handbook is used by our Public Works Director in training our public works employees during regular staff and safety meetings on the BMPs for
Section 7  Pollution Prevention and Good Housekeeping for Municipal Operations

the maintenance and washing of equipment, pesticide application practices, waste and storage disposal, storm drain inspection and cleaning practices, and street repair activities.

**Problems in Obtaining Measurable Goals**- Due to the City’s very small Public Works Department staff, and financial resources it is difficult to provide formal training programs. The City does the best it can in providing proper training for its employees engage in municipal operations and maintenance.

**BMP Effectiveness**- Unknown.

**Proposed Changes to BMPs and Measurable Goals**- None.

**Activities Planned for Next Year**- Continue to provide regular training using the CASQA handbooks on the BMPs for the maintenance and washing of equipment, pesticide application practices, waste and storage disposal, storm drain inspection and cleaning practices, and street repair activities. In addition the City should work with the City of Lakeport and Lake County to develop any additional training aides that may be appropriate.

**MUNI 11c – Conduct training workshops focusing on the storm water program and BMP implementation**

**BMP Appropriateness**- Appropriate to conduct training workshops for MUNI staff focusing on the storm water program and BMPs.

**County of Lake**

**Measurable Goal Results**- Complete. The Department of Public Works has adopted the BMPs outlined in the Caltrans Storm Water Pollution Manual, and distributed these to appropriate staff in October 2009.

**Problems in Obtaining Measurable Goals**- Lack of fiscal resources and staffing make it difficult to coordinate meetings.

**BMP Effectiveness**- Effective in coordinating information and assuring that all appropriate staff are aware of and implementing the same BMPs.

**Proposed Changes to BMPs and Measurable Goals**- None.

**Activities Planned for Next Year**- Conduct a training workshop once per year.

**City of Clearlake**

**Measurable Goal Results**- The City of Clearlake has formally adopted the CASQA BMP handbooks, including the handbook for Municipal Operations. The CASQA handbook is used by our Public Works Director in training our public works employees during regular staff and safety meetings on the BMPs for the maintenance and washing of equipment, pesticide application practices, waste and storage disposal, storm drain inspection and cleaning practices, and street repair activities.

**Problems in Obtaining Measurable Goals**- Due to the City’s very small Public Works Department staff, and financial resources it is difficult to provide formal training programs. The City does the best it can in providing proper training for its employees engage in municipal operations and maintenance.

**BMP Effectiveness**- Unknown.

**Proposed Changes to BMPs and Measurable Goals**- None.

**Activities Planned for Next Year**- Continue to provide regular training using the CASQA handbooks on the BMPs for the maintenance and washing of equipment, pesticide application practices, waste and storage disposal, storm drain inspection and cleaning practices, and street repair activities.
disposal, storm drain inspection and cleaning practices, and street repair activities. In addition, the City should work with the City of Lakeport and Lake County to develop any additional training aides that may be appropriate.

**City of Lakeport**

**Measurable Goal Status** - Complete-Ongoing.

**Measurable Goal Results** - According to the City’s Public Works Director, issues pertaining to the storm water program and the use of related BMPs are discussed at regular staff meetings rather than formal training workshops. Some staff members also attend outside training/seminars related to water quality issues. In FY 10-11, two Public Works employees attended annual pesticide application training where water quality BMPs are discussed.

**Problems in Obtaining Measurable Goals** - According to the City’s Public Works Director, issues pertaining to the storm water program and the use of related BMPs are discussed at regular staff meetings rather than formal training workshops. Some staff members also attend outside training/seminars related to water quality issues.

**BMP Effectiveness** - Unknown.

**Proposed Changes to BMPs and Measurable Goals** - None.

**Activities Planned for Next Year** - Ongoing BMP training using the appropriate CSAQA handbook. Encourage attendance at all relevant training seminars.

**Table 7.3** Status and effectiveness of MUNI Coordination and Training Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
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<tr>
<td></td>
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<td></td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
</tr>
<tr>
<td>MUNI 11a</td>
<td>Investigate the feasibility of providing internet and email capabilities to county municipal maintenance employees.</td>
<td>Internet and email capabilities for county municipal maintenance employees investigated.</td>
<td>County of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>MUNI 11b</td>
<td>Develop or revise a pollution prevention training program for Municipal Staff.</td>
<td>Training program and associated materials developed.</td>
<td>County of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>MUNI 11c</td>
<td>Conduct training workshops focusing on the storm water program and BMP implementation.</td>
<td>Municipal training workshops conducted.</td>
<td>County of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
MUNI PUBLIC EDUCATION AND OUTREACH

MUNI-12: Public Education and Outreach / Involvement Participation

MUNI 12b – Develop new education and outreach materials as necessary and make available to the public

BMP Appropriateness- Appropriate to develop new public education and outreach materials as necessary related to the Pollution Prevention / Good Housekeeping for Municipal Operations Program. Existing programs that municipalities implement on behalf of the public are important and need to be advertised for optimal effect and efficiency. Furthermore, BMPs used in day to day operations may also be used by other businesses and organizations that conduct similar activities.

County of Lake, City of Clearlake and City of Lakeport

Measurable Goal Status- Complete-Ongoing.

Measurable Goal Results- The City of Clearlake, the City of Lakeport and Lake County have adopted the CASQA handbooks for Stormwater Best Management Practices. While these handbooks cannot be distributed to the general public, they provide the best information on BMPs at the present time. In addition the Lake County Clean Water Program developed an overall brochure called Keep Clear Lake --- Free of Pollution. The Keep Clear Lake Pollution Free brochure is an excellent educational document outlining BMPs from construction activities, landscape maintenance, vehicle washing, and commercial and industrial activities. This brochure is available at all building permit counters in both Cities and Lake County. Appendixes 2-1 and 2-5 contain samples of Program brochures currently in use.

Problems in Obtaining Measurable Goals- None. This brochure was the product of the co-permittees, Regional Water Board representatives, and the public, and it took several years to reach a consensus on the final document

BMP Effectiveness- Effective. It is effective in educating the public as to what the Lake County Clean Water Program is all about. A brochure was developed and distributed by the City of Lakeport to local businesses about the proper use of the storm drain. Several have indicated greater awareness of the proper use of the municipal storm sewer system, including what not to put down the drain.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Work towards developing additional materials as appropriate and as the storm water pollution prevention program continues to be implemented. The Keep Clear Lake Pollution Free brochure should be added to Lake County’s Clean Water Program Web Page and to the City of Lakeport’s clean water web page.

The City of Lakeport plans to install permanent markers (“No Dumping/Drains to Lake”) on drop inlets/catch basins to replace the painted stencil notice. It is believed that this program will help further educate the public regarding the relationship between the City’s storm drain system and the waters of Clear Lake.
Table 7.4 Status and effectiveness of MUNI Public Education and Outreach Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
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</thead>
<tbody>
<tr>
<td>MUNI 12b</td>
<td>Develop new education and outreach material as necessary and make available to the public.</td>
<td>New education and outreach materials related to the MUNI Program activities developed and made available to the public.</td>
<td>County of Lake</td>
<td>X</td>
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**TRACKING AND REPORTING**

**MUNI-13: MUNI Programs Tracking and Reporting**

*MUNI 13a- Conduct an assessment of current tracking and reporting procedures*

*BMP Appropriateness*- An assessment of current reporting activities is important because the stormwater program will need to develop its own tracking procedures for reporting purposes. If there are current reporting information, formats and procedures required by other agencies and departments, it makes sense to use existing information as much as possible to reduce duplication of effort for multiple reports and avoid the need to create more information.

**County of Lake**

Measurable Goal Status- Complete. On-line tracking forms have been developed and are in use for tracking labor and equipment use, and street sweeper yardage.

Measurable Goal Results

- *Lake County Public Works*
  Labor and equipment hours are tracked, See Appendix 6-3.

- *Lake County Public Services*
  Materials collected, including information from franchise waste haulers, is maintained in Microsoft Excel.

Problems in Obtaining Measurable Goals
In general, all department staff have high work loads and lack of funding to dedicate time to understanding and putting time into this unfunded program. This situation has made it difficult to receive complete information for planning purposes such as; format of information, specific information collected and the process by which information is input.

BMP Effectiveness- Effective. Effective in tracking storm drain operations so that they can be reported in the annual Storm Water Management Report.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Obtain a more detailed assessment so that reporting and tracking procedures can be developed and implemented.
City of Clearlake

2009-2010 the City did start tracking information on street sweeping, and storm drain maintenance activities, such as cleaning catch basins and reaches of storm drain channels. The amount of debris, trash, silt and dirt measured in cubic yards is tracked whenever Public Works Crews clean storm drain ditches, creeks, storm drain inlets and catch basins and cleaning of the City’s streets. See the tracking log for street and drainage cleaning performed in 2011-12 in Appendix 6-3.

Problems in Obtaining Measurable Goals: It has been difficult with all maintenance jobs and special projects that a very small Public Works Maintenance Crew has in a City the size of Clearlake to perform additional tasks.

BMP Effectiveness- Effective in tracking storm drain operations so that they can be reported in the annual Storm Water Management Report.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Provide documentation of Municipal Operations tasks such as street cleaning (miles swept), storm drain inlet/catch basin cleaned, storm drain channel reaches cleaned, and ongoing training at staff and safety meetings.

City of Lakeport

Measurable Goal Status- Complete and ongoing.

Measurable Goal Results: At the present time, there is no formal method of tracking activities and programs for reporting purposes, but the City of Lakeport continues to explore the development of these tracking mechanisms. A GIS tracking system for the storm drain stenciling program has been developed by the City and is operational. The City is exploring other potential methods of using GIS for tracking activities related to the storm water program.

Problems in Obtaining Measurable Goals: In general, high workloads and lack of dedicated personnel have prevented the City from further developing a comprehensive tracking and reporting system. Certain activities are tracked, including man hours, equipment usage, and the storm drain stenciling program. Additional tracking is needed for street sweeping accumulations and other activities.

BMP Effectiveness- Effective. It is evident that a tracking database will need to be developed to track efforts, man hours, costs and other necessary information so programs can be assessed for effectiveness and also to aid in annual reporting requirements.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Obtain a more detailed assessment so that reporting and tracking procedures can be developed and implemented. Contact County of Lake and determine if their tracking methods (forms, logs, etc.) can be modified for use by the City of Lakeport.

MUNI 13b- Revise and implement tracking and reporting procedures

BMP Appropriateness- Appropriate to revise tracking and reporting procedures, if needed, before implementation.

County of Lake

Measurable Goal Results- Complete. Tracking forms have been developed, for tracking of labor and equipment hours, and effectiveness of street sweeper. See Appendix and 6-3.
Problems in Obtaining Measurable Goals- None.

BMP Effectiveness- Effective in that a better tracking system has been developed that can be used by various departments.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Encourage Special Districts and Public Services to utilize the new tracking forms.

City of Clearlake

Measurable Goal Results- In 2009-2010 the City did start tracking information on street sweeping, and storm drain maintenance activities, such as cleaning catch basins and reaches of storm drain channels. The amount of debris, trash, silt and dirt measured in cubic yards is tracked whenever Public Works Crews clean storm drain ditches, creeks, storm drain inlets and catch basins and cleaning of the City’s streets. See the tracking log for street and drainage cleaning performed in 2011-12 in Appendix 6-3.

Problems in Obtaining Measurable Goals- It is just difficult with all maintenance jobs and special projects that a very small Public Works Maintenance Crew has in a City the size of Clearlake to perform additional tasks.

BMP Effectiveness- Effective in tracking storm drain operations so that they can be reported in the annual Storm Water Management Report.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Provide documentation of Municipal Operations tasks such as street cleaning (miles swept), storm drain inlet/catch basin cleaned, storm drain channel reaches cleaned, and on going training at staff and safety meetings.

City of Lakeport

Measurable Goal Results- Incomplete and ongoing.

Problems in Obtaining Measurable Goals- High workloads, lack of adequate staff, and lack of dedicated funding have impacted the City’s ability to thoroughly implement tracking and reporting procedures. In FY 10-11 the City lost its “Compliance Officer” position due to a budget shortfall. The storm water program was a major component of that position and its loss has impacted the City’s ability to complete this task.

BMP Effectiveness- Effective. The GIS tracking system for the storm drain stencil program is accurate and comprehensive.

Proposed Changes to BMPs and Measurable Goals- None.

Activities Planned for Next Year- Continue efforts to implement an adequate system for tracking and reporting activities. Continue to update the GIS tracking system for the storm drain stencil program.
Table 7.5  Status and effectiveness of MUNI Tracking and Reporting Best Management Practices (BMPs) scheduled for implementation in Fiscal Year 2011/2012.

<table>
<thead>
<tr>
<th>BMP #</th>
<th>DESCRIPTION</th>
<th>MEASURABLE GOAL</th>
<th>CO-PERMITTEES</th>
<th>STATUS</th>
<th>EFFECTIVE</th>
<th>MODIFIED</th>
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<td></td>
<td>Complete</td>
<td>Incomplete</td>
<td>Ongoing</td>
</tr>
<tr>
<td>MUNI 13a</td>
<td>Conduct an assessment of current tracking and reporting procedures.</td>
<td>Assessment complete.</td>
<td>County of Lake</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>City of Clearlake</td>
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<td></td>
<td>City of Lakeport</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>MUNI 13b</td>
<td>Revise and implement tracking and reporting procedures.</td>
<td>Tracking and reporting procedures revised and implemented.</td>
<td>County of Lake</td>
<td>X</td>
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<td>City of Lakeport</td>
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APPENDIX 1-1

LCCWP Program Agreement
AGREEMENT
PROVIDING FOR IMPLEMENTATION OF
THE LAKE COUNTY CLEAN WATER PROGRAM

THIS AGREEMENT, is made by and between the Lake County Flood Control and Water Conservation District (DISTRICT), County of Lake (COUNTY), City of Clearlake (CLEARLAKE) and City of Lakeport (LAKEPORT).

COUNTY, CLEARLAKE and LAKEPORT are hereinafter collectively referred to as "PARTIES" or individually as "PARTY".

RECITALS:

A. Amendments to the Clean Water Act (CWA) in 1987 added section 402(p), which established a framework for regulating storm water discharges under the National Pollutant Discharge Elimination System (NPDES) Program. Pursuant to Section 402 (p) of the CWA and EPA regulations, the Central Valley Regional Water Quality Control Board adopted State Water Resources Control Board (SWRCB) Water Quality Order No. 2003-0005, NPDES Permit No. CAS000004, defining the program that the PARTIES are required to develop and implement.

B. On February 19, 2002 the Lake County Stormwater Task Force was formed to:
   1) Investigate individual vs. area-wide permits,
   2) Identify joint efforts/individual efforts,
   3) Estimate program costs,
   4) Determine existing funding from existing programs,
   5) Evaluate other funding options and establish an implementation plan.

   Stormwater Task Force conclusions and recommendations to the Board of Supervisors and both City Councils were:
   1) File for permit coverage as co-permittees under a single Storm Water Management Plan SWMP,
   2) Utilize the DISTRICT for overall program coordination and management,
   3) Each PARTY would be responsible for implementing the SWMP within their jurisdiction.

C. On October 14, 2003 the SWMP and Notice of Intent to file for permit coverage as co-permittees was approved by the PARTIES. Permit coverage commenced on October 27, 2003.

D. The SWMP is intended to be flexible in developing a Stormwater Program over a five year period with a fully functional Stormwater Program at the end of the five year period. At present, many departments of the PARTIES are performing duties that compliment the intent of the Stormwater Program. It is the intent of the PARTIES to work together to identify efforts already being implemented, joint efforts and
individual efforts needed to satisfy the requirements of NPDES Permit No. CAS000004.

E. In and for the mutual interest of the PARTIES, the PARTIES and DISTRICT wish to enter into this Agreement for the purpose of ensuring continued participation, in terms of cost and administrative responsibilities for joint efforts on behalf of all PARTIES, and to ensure uniform implementation of NPDES Permit No. CAS000004.

NOW, THEREFORE, THE PARTIES HERETO AGREE, AS FOLLOWS:

Section 1. Lake County Clean Water Program

1.01 The Lake County Clean Water Program ("Program") is hereby implemented to fulfill the requirements of NPDES Permit No. CAS000004 as it exists, may be modified, or may be reissued in the future (hereinafter referred to as "NPDES Permit").

1.02 The Program is a collective effort that provides for implementation of area-wide activities that are designed to benefit all PARTIES.

Section 2. DISTRICT and PARTY Responsibilities

2.01 The Program will be administered by the DISTRICT under the following terms and conditions:

A The DISTRICT will act as Program Manager for the Program. The Program Manager shall be responsible for Program management and administration, permit management, and technical program management all in accordance with the NPDES Permit, this Agreement, Program Bylaws, and as recommended by the Lake County Clean Water Program Advisory Council (hereinafter ADVISORY COUNCIL) in the best interest of the PARTIES as a whole and individually.

B The DISTRICT will be responsible for providing a secretary at all committee and subcommittee meetings to; take roll, record the meeting, distribute meeting minutes and setting the next agenda.

C The DISTRICT shall be responsible for submitting all required annual reports to the Central Valley Regional Water Quality Control Board by September 15th of each year.

D It is the responsibility of each PARTY to supply the DiSTRICT with the necessary information to satisfy the annual reporting requirements as outlined in the Stormwater Management Plan and NPDES Municipal General Permit by August 15th of each year.

E Each PARTY shall submit the appropriate fee, payable to the State Water Resources Control Board, to the DISTRICT, by September 1st of each year.
F Each Party shall designate a Stormwater Program Coordinator to represent their jurisdiction with respect to this Agreement.

G Each PARTY shall be responsible for implementing the Stormwater Management Plan within their jurisdiction as recommended by the ADVISORY COUNCIL, and as adopted by the PARTIES.

H Each Party agrees to participate in ADVISORY COUNCIL meetings, Program Workgroup meetings, and other required meetings of the PARTIES related to the Program.

I Each Party agrees to individually address inter-agency issues, agreements or other cooperative efforts within their jurisdiction.

2.02 This Agreement does not restrict the PARTIES from the ability to individually (or collectively) request NPDES Permit modifications and/or initiate NPDES Permit appeals for permit provisions to the extent that a provision affects an individual party (or group of PARTIES). However, any such PARTY (or PARTIES) shall make reasonable efforts to provide advance notice of their action to the other PARTIES and allow them to comment upon or join in their action before proceeding.

Section 3. Lake County Clean Water Program Advisory Council

3.01 The ADVISORY COUNCIL is hereby created to make recommendations for overall Program management and coordination, strategic planning, review, budget considerations and conflict resolution with respect to the NPDES Permit on behalf of all PARTIES for the Program.

3.02 ADVISORY COUNCIL recommendations adopted by the County Board of Supervisors and both City Councils shall become binding upon all PARTIES.

3.03 The ADVISORY COUNCIL shall ensure a comprehensive public education and outreach / involvement and participation program on behalf of all Parties. The Program’s Public Education, Outreach and Participation Workgroup will be responsible for developing the original materials; and, the PARTIES shall be responsible for participating in the costs of production and distribution.

3.04 The ADVISORY COUNCIL shall ensure the implementation of a comprehensive illicit discharge detection and elimination program on behalf of all Parties. The Program’s Illicit Discharge Detection and Elimination Workgroup will be responsible for developing a program for field inspection and investigation activities for unauthorized connections and illegal dumping. The PARTIES shall be responsible for implementing the program within their jurisdiction.

3.05 The ADVISORY COUNCIL shall ensure the implementation of a comprehensive program for new development and construction activities specifically focusing on
soil erosion and sedimentation practices, post-construction facilities and
developing financial mechanisms needed to maintain such facilities. The
Program's Construction Site Stormwater Runoff Control Workgroup and Post
Construction Stormwater Management Workgroup will be responsible for
developing the program. The PARTIES shall be responsible for implementing the
program within their jurisdiction.

3.06 The ADVISORY COUNCIL shall ensure the implementation of a comprehensive
program for pollution prevention/good housekeeping for municipal operations on
behalf of all Parties. The Program's Municipal Operations Workgroup will be
responsible for developing the program. The PARTIES shall be responsible for
implementing the Program within their jurisdiction.

3.07 The ADVISORY COUNCIL shall give annual updates to the County Board of
Supervisors and both City Councils.

3.08 Meetings of the ADVISORY COUNCIL shall be conducted in accordance with the
"Brown Act" (Government Code Section 54950 et seq.) Except for official meetings
of the ADVISORY COUNCIL, nothing herein shall be interpreted to require
meetings between staff members of the individual PARTIES (including designated
representatives of the PARTIES) to be subject to the Brown Act, where the Brown
Act would not otherwise apply. Each PARTY is individually responsible for
ensuring that it complies with the Brown Act.

3.09 The membership of the ADVISORY COUNCIL shall consist of seven members as
follows: one designated representative from each PARTY, one representative from
the DISTRICT and three Stormwater Program Coordinators. One alternative
representative may be appointed by each PARTY and DISTRICT.

3.10 The ADVISORY COUNCIL may as necessary adopt and revise Bylaws for its
governance.

3.11 The ADVISORY COUNCIL may periodically re-evaluate and make
recommendations to the PARTIES concerning reallocation of the proportion of
program funds that each PARTY shall pay.

3.12 The ADVISORY COUNCIL shall recommend timelines and budgets for completion
of Program tasks.

Section 4. Program Workgroups

4.01 The Parties agree that the following Storm Water Program Workgroups are hereby
formed that will be responsible for evaluating, developing and coordinating specific
portions of the Program on behalf of all PARTIES. Workgroup recommendations
are presented to the ADVISORY COUNCIL who will then review and present
recommendations to the County Board of Supervisors and both City Councils for
final approval. It is the responsibility of each PARTY to implement the Program as recommended by the Program Working Groups and ADVISORY COUNCIL and as adopted by the County Board of Supervisors and both City Councils.

A. Public Education, Outreach and Participation Workgroup (PEOP) is responsible for development of materials and products, technical workshops, marketing, public outreach and public involvement with input from the other workgroups as appropriate.

B. Illicit Discharge Detection and Elimination Workgroup (IDDE) is responsible for the development and implementation of a program to detect, address and/or eliminate illicit discharges including illegal dumping.

C. Construction Site Stormwater Runoff Control Workgroup (CON) is responsible for development and implementation of a program to control the discharge of pollutants from construction sites.

D. Post Construction Stormwater Management Workgroup (PCON) is responsible the development and implementation of long term development measures for post construction stormwater management in new development and redevelopment projects.


F. Municipal Operations Workgroup (MUNI) is responsible for evaluating municipal maintenance activities and developing a program to prevent the discharge of pollutants from these activities.

Section 5. Program Costs Participation and Allocation

5.01 At present there is no program budget for this federally mandated unfunded program.

5.02 All program costs specific to the particular needs of the PARTIES, not related to the Program on behalf of all PARTIES, shall be borne by that PARTY.

5.03 Program budgets shall be proposed by the appropriate workgroups and presented to the ADVISORY COUNCIL for recommendation to the County Board of Supervisors and both City Councils for final approval.

5.04 A collective budget for those aspects of the Program that are to be shared by all PARTIES of the Program (Program Budget) shall be developed on an annual basis and presented to the County Board of Supervisors and both City Councils for approval. The Budget shall include a Contingency/Reserve Fund which shall not exceed ten percent (10%) of the operating costs of the adopted Budget.
5.05 All mutual Program costs shall be allocated on population numbers annually obtained from the State of California Department of Finance. The population data published in January of each year will be used to form the cost allocations for the following fiscal year. (See EXHIBIT "A" for the 2003/2004 & 2004/2005 Fiscal Year Allocations)

5.06 The PARTIES shall each pay a yearly assessment by August 1st of each year into a fund established for Program operations for their assigned portion of the Program Budget for mutual program efforts. The proportionate share of the Program Budget that each PARTY shall pay is shown in the schedule marked Exhibit A hereto and incorporated by reference herein.

5.07 Except as provided in Section 6.03, the ending fund balance at the close of each fiscal year shall be credited to the PARTIES share of the next fiscal year's costs on a prorata basis. Likewise, any unanticipated costs shall be paid in accordance with the PARTIES defined participation rates.

Section 6. Term of Agreement

6.01 The term of this Agreement shall commence on the date the last duly authorized representative of the PARTIES executes it.

6.02 This Agreement shall have a term of five (5) years.

6.03 Any PARTY or the DISTRICT may terminate its participation in this Agreement by giving the other PARTIES at least thirty (30) day written notice. Termination shall be effective on the fiscal year following notification. The terminating PARTY will bear the full responsibility for its compliance with the NPDES Permit, commencing on the next fiscal year after it terminates its participation, including its compliance with both community-specific and program-wide responsibilities. The terminating party will be reimbursed for any unexpended funds in accordance with the PARTIES defined participation rates.

Section 7. General Legal Provisions

7.01 This Agreement may be amended by unanimous written agreement of the PARTIES and DISTRICT.

7.02 This Agreement may be executed and delivered in any number of copies ("counterpart") by the PARTIES, including by means of facsimile. When each PARTY has signed and delivered at least one counterpart to the Program, each counterpart shall be deemed an original and, taken together, shall constitute one and the same Agreement, which shall be binding and effective as to the PARTIES hereto.
7.03 No PARTY shall, by entering into this Agreement or participating in the ADVISORY COUNCIL, assume or be deemed to assume responsibility for any other PARTY in complying with the requirements of the NPDES Permit. This Agreement is intended solely for the convenience and benefit of the PARTIES hereto and shall not be deemed to be for the benefit of any third party and may not be enforced by any third party, including, but not limited to, the EPA, the SWRCB, Central Valley RWQCB and North Coast RWQCB, or any person acting on their behalf or in their stead.

7.04 In lieu of and notwithstanding the prorata risk allocation which might otherwise be imposed between the PARTIES pursuant to Government Code Section 895.6, the PARTIES agree that all losses or liabilities incurred by a PARTY shall not be shared prorata but instead the PARTIES agree that pursuant to Government Code Section 895.4, each of the PARTIES hereto shall fully defend, indemnify and hold harmless each of the other PARTIES from any claim, expense or cost, damage or liability imposed for injury (as defined by Government Code Section 810.8) occurring by reason of the negligent acts of omissions or willful misconduct of the indemnifying PARTY, its officers agents or employees, under or in connection with or arising from any work, authority or jurisdictions delegated to such PARTY under this Agreement, including but not limited to any non-compliance by a PARTY with its obligations under the Program NPDES Permit. No PARTY, nor any officer, board member, employee or agent thereof shall be responsible for any damage or liability incurred by reason of the negligent acts or omissions or willful misconduct of the other parties hereto, their officers, board members, employees or agents under or in connection with or arising from any work, authority or jurisdictions delegated to such PARTY under this Agreement, including but not limited to any non-compliance by a PARTY with its obligations under the Program NPDES Permit.

7.05 In the event that suit shall be brought by any PARTY to this contract arising out of their participation in this Agreement, the PARTIES agree that venue shall be exclusively vested in either the state courts of the County of Lake, or where otherwise appropriate, in the United States District Court, Northern District of California.

IN WITNESS WHEREOF, the PARTIES have executed this Agreement on the day and year set forth by the PARTIES signature block.

///
DISTRICT:

LAKE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

By: __________________________  DATED: ______________________
   Chair, Board of Directors

APPROVED AS TO FORM:
   CAMERON L. REEVES
   County Counsel

ATTEST:
   KELLY F. COX
   Clerk of the Board

By: __________________________  By: __________________________

PARTY:

COUNTY OF LAKE

By: __________________________  DATED: ______________________
   Chair, Board of Supervisors

APPROVED AS TO FORM:
   CAMERON L. REEVES
   County Counsel

ATTEST:
   KELLY F. COX
   Clerk of the Board

By: __________________________  By: __________________________
PARTY:

CITY OF LAKEPORT

By: ___________________________________________ DATED: ____________
Willis H. Bruns, Mayor

APPROVED AS TO FORM:
City Attorney

By: ___________________________________________
Steven J. Brookes, City Attorney

PARTY:

CITY OF CLEARLAKE

By: ___________________________________________ DATED: ____________
Mayor, City Council

APPROVED AS TO FORM:
City Attorney

By: ___________________________________________
EXHIBIT A

LAKE COUNTY CLEAN WATER PROGRAM
SCHEDULE OF COST-SHARING PROPORTIONS

<table>
<thead>
<tr>
<th>Jurisdiction</th>
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CALIFORNIA DEPT. OF FINANCE POPULATION FIGURES

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APPENDIX 1-2

LCCWP Organizational Chart
Advisory Council

City of Clearlake
- Joyce Overton, City Council (VM) - VICE CHAIR
- Robert Galusha, City Engineer (AM & SWPC)

County of Lake
- Rob Brown, Supervisor District 5 (VM) – CHAIR
- Jeff Smith, Supervisor District 2 (AM)
- Richard Coel, Community Dev. Director (SWPC)

City of Lakeport
- Robert Rumfelt, City Council (VM)
- Andrew Britton, Associate Planner & Housing Specialist (AM & SWPC)

SWPC - Stormwater Program Coordinator
VW - Voting Member
AM - Alternate Member
APPENDIX 1-3

Advisory Council Bylaws
LAKE COUNTY CLEAN WATER PROGRAM

Lake County
Clean Water Program

ADVISORY COUNCIL BYLAWS

Approved
August 4, 2005
Lake County Clean Water Program
Advisory Council
BYLAWS

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132 Chair Nice Chair of the Advisory Council 2
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ARTICLE II BUDGET 200
Review of Cost Share Allocation 210
Regional Funding 220 Budget
Reconciliation

ATTACHMENT I Office of Stormwater Program Advisory Council
ARTICLE I  ADVISORY COUNCIL

Section 100 Name of Council

The management and oversight body of the Lake County Clean Water Program ("Program"), as established by Agreement Providing for Implementation of the Lake County Clean Water Program ("Agreement"), shall be known and referred to in these Bylaws as the Lake County Clean Water Program Advisory Council ("Advisory Council").

Section 110 Voting Membership of Advisory Council

110.1 The voting membership of the ADVISORY COUNCIL shall consist of four (4) individuals as follows; one (1) voting representative from the Lake County Watershed Protection District (DISTRICT), one (1) voting representative from the County of Lake, one (1) voting representative from the City of Lakeport, and one (1) voting representative from the City of Clearlake.

110.2 An alternative voting representative for each of the PARTIES voting representatives as provided in Section 110.1 shall be appointed by each PARTY and submitted to the Advisory Council in February of each year.

110.3 A quorum of the ADVISORY COUNCIL shall be achieved when at least three (3) of the voting representatives are present at any ADVISORY COUNCIL meeting.

Section 120 Office of the Advisory Council

120.1 The official office and mailing address of the Advisory Council shall be as shown on Attachment I.

120.2 Copies of all correspondence to the Program shall be provided to the Chair of the Advisory Council.

Section 130 Meeting of the Advisory Council

The Advisory Council shall hold regularly scheduled quarterly meetings to discuss Program business, and special meetings as necessary, each third Thursday of February, May, August and November. In the case of cancellation, the Program Manager will post notice and inform each Advisory Council representative of the cancellation one week prior to the regular meeting date. Except as otherwise may be provided by co-permittees, the regular meeting time and place of the Advisory Council shall be:
Third Thursday of February, May, August, November
8:30 a.m. - 10:30 a.m.
Lake County Courthouse, Conference Room C
255 North Forbes Street
Lakeport, California 95453

Section 131 Conduct of Meetings

131.1 The elected Chair shall preside over Advisory Council Meetings. In the event the Chair is unable to attend the meeting, the order of substitution shall be first, the Vice-Chair, and second, the Program Manager.

131.2 The latest edition of Robert’s Rules of Order may be consulted to provide guidance to the Advisory Council in the event a question is raised regarding procedural matters.

131.3 Public participation in Advisory Council meetings is encouraged and shall be recognized in general accordance with applicable Brown Act provisions.

Section 132 Chair/Vice Chair of the Advisory Council

The Chair and Vice Chair of the Advisory Council shall be selected at the first meeting each calendar year from among any of the voting representatives. The Chair and Vice Chair shall be nominated and voted for annually at the first meeting of the calendar year in separate motions by the Advisory Council.

Section 133 Written Record of Meeting

The Program Manager shall keep a written record of all Advisory Council proceedings and votes (“Minutes”). Minutes shall be approved by the Advisory Council.

Section 134 Matters for Agenda

134.1 Proposed action items shall be directed to the Program Manager as early as possible and at least two weeks prior to the Advisory Council meeting at which action will be requested, except for urgency or emergency matters, as defined under Government Code Sections 54954.2(b) and 54954.5 (the Brown Act).

134.2 Notification of Advisory Council agendas shall be provided in accordance with the Brown Act. Agendas shall be posted by the Program Manager at the regularly scheduled meeting venue.

134.3 At each Advisory Council meeting, the regular order of business shall be conducted in accordance with the Agenda. The Advisory Council, by majority vote, may rearrange the order of the items listed on the agenda at any meeting.
Section 135 Voting

All voting by the Advisory Council shall be by "Ayes" and "Noes," and shall be entered into official minutes of Advisory Council proceedings. Upon request of any member of the Advisory Council, a roll call vote shall be taken on any matter upon which a vote is called.

Section 136 Representation of Program

The Advisory Council may designate the Program Manager or any of the PARTIES to represent the Program at meetings or organizations as needed. The designated PARTY shall be responsible for making the necessary reports to the Advisory Council.

Section 137 Review and Revision of Bylaws and Policies

Bylaws and Policies may be reviewed, revised and/or modified by the Advisory Council upon request by any PARTY or recommendation of the Program Manager.

ARTICLE II  BUDGET

Section 200 Review of Cost Share Allocation

200.1 The Advisory Council shall review the proportionate PARTY cost share allocation upon formal written request by any PARTY no more frequently than once annually. The written request must be delivered to the Advisory Council by November of any given year and any modification to the cost share allocation shall be effective no earlier than the following fiscal year at the February meeting.

200.2 The formal written request shall also include an analysis of alternative cost share allocation formulas with a recommendation and rationale for the recommendation. The requesting PARTY(S) is/are also responsible for providing staff liaison and a proposed process and time schedule for review and analysis of the cost share allocation.

Section 210 Regional Funding

Funding of Program tasks shall be provided by PARTIES and shared in accordance with previously defined participation rates found in the Agreement Providing for Implementation of the Lake County Clean Water Program. Budget expenditures shall not exceed projected PARTY assessment revenues.

Section 220 Budget Reconciliation

The Program Manager shall reconcile the budget at least twice each year.
ATTACHMENT I

Office of Stormwater Program Advisory Council

Lake County Clean Water Program
do Program Manager
Lake County Watershed Protection District
255 North Forbes Street, Room 309
Lakeport, CA 95453
APPENDIX 2-1

Public Outreach & Education Materials & Brochures
WHEN YOUR CAR’S LEAKING OIL ON THE STREET, REMEMBER IT’S NOT JUST LEAKING OIL ON THE STREET.

Keep the Hitch Smiling

Leaking oil goes from your car to the street, is washed from the street into the storm drain and into our lakes and streams.

Now imagine the number of cars in the area and you can imagine the amount of oil that finds its way from leaky gaskets into our water.

So please, fix oil leaks.
CLEAN WATER TIP:

How can you use and change your motor oil and help keep our waters clean? Stop drips. Check for oil leaks regularly and fix them promptly. Keep your car tuned to reduce oil use. Use ground cloths or drip pans beneath your vehicle if you have leaks or are doing engine work. Clean up spills immediately. Collect all used oil in containers with tight fitting lids. Do not mix different engine fluids. Never dispose of oil or other engine fluids down the storm drain, on the ground or into a ditch. Recycle used motor oil. Many auto supply stores and gas stations will accept used oil. Buy recycled (re-refined) motor oil to use in your car. To find out more about where you can take used oil for recycling, call Lake County Public Services at (707) 262-1760 or visit the Lake County website for recycling and Hazmobile schedules at:

http://www.co.lake.ca.us/county/government/publicservices/hazmobileevent.html

For more information on the Lake County Clean Water Program:

County of Lake (707) 263-2382
City of Lakeport (707) 263-5616
City of Clearlake (707) 994-8201

Or visit the Lake County Clean Water Program website at

http://www.watershed.co.lake.ca.us/LCCWP/lccwp.html

CLEAN WATER IS IMPORTANT TO ALL OF US

It's up to all of us to make it happen. In recent years sources of water pollution like industrial wastes from factories have been greatly reduced. Now, more than 60% of water pollution comes from things like cars leaking oil, fertilizers from farms and gardens, and failing septic tanks. All these sources add up to a big pollution problem. But each of us can do small things to help clean up our water too and that adds up to a pollution solution!

WHY DO WE NEED CLEAN WATER?

Having clean water is of primary importance for our health and economy. Clean water provides recreation, commercial opportunities, fish habitat, drinking water, and adds beauty to our landscape. All of us benefit from clean water and all of us have a role in getting and keeping our lakes, rivers, and ground waters clean.

WHAT'S THE PROBLEM WITH MOTOR OIL?

Oil does not dissolve in water. It lasts a long time and sticks to everything from beach sand to bird feathers. Oil and other petroleum products are toxic to people, wildlife and plants. One pint of oil can make a slick larger than a football field. Oil that leaks from our cars onto roads and driveways is washed into storm drains, and then usually flows directly to a lake or stream. Used motor oil is the largest single source of oil pollution in our lakes, streams and rivers. Americans spill 180 million gallons of used oil each year into our waters. This is 16 times the amount spilled by the Exxon Valdez in Alaska.
WHEN YOU’RE WASHING YOUR CAR IN THE DRIVEWAY, REMEMBER YOU’RE NOT JUST WASHING YOUR CAR IN THE DRIVEWAY.

Keep the Hitch Smiling

All the soap, scum, and oily grit runs along the curb into the storm drain and directly into our lakes and streams. And that causes pollution, which is unhealthy for fish and promotes nuisance weeds and algae growth in Clear Lake.

So how do you avoid this whole mess? Easy!

Wash your car on grass or gravel instead of the street or driveway.
Or better yet, take it to a car wash where the water gets treated and recycled.
CLEAN WATER TIP:
How can you wash your car and help keep our waters clean? Use soap sparingly. Use a hose nozzle with a trigger to save water. Pour your bucket of soapy water down the sink when you’re done, not in the street. Or wash your car on a grassy area so the ground can filter the water naturally. Best of all, take your car to a commercial car wash, especially if you plan to clean the engine or the bottom of your car. Most car washes re-use wash water several times before sending it to the sewer system for treatment.

To find out more about the impacts from washing your vehicle and what you can do to prevent water pollution, call the number in your community listed below.

For more information on the Lake County Clean Water Program:

County of Lake (707) 263-2382
City of Lakeport (707) 263-5615
City of Clearlake (707) 994-8201

Or visit the Lake County Clean Water Program web-site at http://watershed.co.lake.ca.us/LCCWP/lccwp.html

CLEAN WATER IS IMPORTANT TO ALL OF US
It’s up to all of us to make it happen. In recent years, sources of water pollution like industrial wastes from factories have been greatly reduced. Now, more than 60 percent of water pollution comes from things like cars leaking oil, fertilizers from farms and gardens, and failing septic tanks. All these sources add up to a big pollution problem. But each of us can do small things to help clean up our water too. And that adds up to a pollution solution!

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Having clean water is of primary importance for our health and economy. Clean water provides recreation, commercial opportunities, fish habitat, drinking water and adds beauty to our landscape. All of us benefit from clean water. And all of us have a role in getting and keeping our lakes, rivers, and ground waters clean.

WHAT'S THE PROBLEM WITH CAR WASHING?
There's no problem with washing your car. It's just how and where you do it. Most soap contains phosphates and other chemicals that harm fish and water quality. The soap, together with the dirt and oil washed from your car, flows into nearby storm drains which run directly into lakes, rivers or streams. The phosphates from the soap can cause excess algae to grow. Algae look bad, smell bad, and harm water quality. As algae decay, the process uses up oxygen in the water that fish need.
WHEN YOU’RE FERTILIZING THE LAWN.

REMEMBER YOU’RE NOT JUST

FERTILIZING THE LAWN.

Keep the Hitch Smiling

You fertilize the lawn. Then it rains. The rain washes the fertilizer along the curb, into the storm drain, and directly into our lakes and streams. This causes algae to grow, which uses up oxygen that fish need to survive. So if you fertilize, please follow directions and use sparingly.
CLEAN WATER TIP:
How can you fertilize and help keep our waters clean? Use fertilizers sparingly. Many plants do not need as much fertilizer or need it as often as you might think. Don't fertilize before a rain storm.
Consider using organic fertilizers: they release nutrients more slowly. Use commercially available compost or make your own using garden waste. Mixing compost with your soil means your plants will need less chemical fertilizer and puts your waste to good use. Commercial compost and soil amendments may be available from your solid waste or wastewater utility as well as your local garden store.

For more information on fertilizing alternatives and composting, call University of California, Lake County Master Gardener Program at (707) 263-6838.

For more information on the Lake County Clean Water Program:
County of Lake (707) 263-2382
City of Lakeport (707) 263-5615
City of Clearlake (707) 994-8201
Or visit the Lake County Clean Water Program web-site at http://watershed.co.lake.ca.us/LCCWP/lccwp.html

CLEAN WATER IS IMPORTANT TO ALL OF US.
It's up to all of us to make it happen. In recent years sources of water pollution like industrial wastes from factories have been greatly reduced. Now, more than 60 percent of water pollution comes from things like cars leaking oil, fertilizers from farms and gardens, and failing septic tanks. All these sources add up to a big pollution problem. But each of us can do small things to help clean up our water too and that adds up to a pollution solution!

WHY DO WE NEED CLEAN WATER?
Having clean water is of primary importance for our health and economy. Clean water provides recreation, commercial opportunities, fish habitat, drinking water and adds beauty to our landscape. All of us benefit from clean water and all of us have a role in getting and keeping our lakes, rivers, and ground waters clean.

WHAT'S THE PROBLEM WITH FERTILIZER?
Fertilizer isn't a problem if it's used carefully. If you use too much fertilizer or apply it at the wrong time, it can easily wash off your lawn or garden into storm drains and then flow untreated into lakes or streams. Just like in your garden, fertilizer in lakes and streams makes plants grow. In water bodies, extra fertilizer can mean extra algae and aquatic plant growth. Too much algae harms water quality and makes boating, fishing and swimming unpleasant. As algae decay, they use up oxygen in the water that fish and other wildlife need.

Thanks to the Puget Sound Action Team for the use of the material and art work in this brochure.
APPENDIX 2-2

Copies of Clean Water Program WebPages
Lake County, California

Clean Water Program

CLEAN WATER/STORMWATER MANAGEMENT PROGRAM

The Lake County Clean Water Program (LCCWP) Stormwater Program is a joint effort between the County of Lake, City of Clearlake and the City of Lakeport to reduce the damage caused by polluted stormwater runoff and impacts of increases in peak flows from development.

See noticeable changes in water quality? Click the Complaint Form in the left column.

Lake County's lakes, streams, rivers, forests and farms all depend on the replenishing waters of annual precipitation. However, when rain falls on land or impervious areas such as paved streets, parking lots and building roof tops it results in increased peak flows that can wash away soil and sediment, increase stream erosion and cause flooding. Stormwater runoff can change both water quantity and quality affecting our water resources physically, chemically and biologically. Polluted runoff containing oil, grease, chemicals, nutrients, lawn clippings and other yard debris, metals, litter and pathogens for example, can severely reduce water quality. If left unmanaged, runoff stresses our streams, provides extra nutrients for nuisance aquatic weeds and algae blooms, and degrades the beneficial uses of the waters we all enjoy.
The tool bar to the left features requirements, excellent links, detailed information, resources, and helpful tips to help everyone maintain clean water in the County of Lake.

003327
Get a Free Website Counter

This file last updated on April 12, 2010
Lake County, California

Home tips for Clean Water

Everyday, individuals make thousands of routine, seemingly inconsequential decisions in their lives that can potentially contribute to storm water pollution.

For example, decisions such as where to dispose of used motor oil, fast food containers, yard waste or how to eliminate an insect problem can release pollutants into the environment that may be transported by storm water runoff to local water bodies.

At-home Best Management Practices (BMPs) that the public can do to Reduce Stormwater Pollution include:

- Vehicle Maintenance
- Yard Care
- Household Hazardous Waste
- Painting
- Concrete
- Septic Systems
- Kitchen Wastes
- Animal Care
Lake County, California
Vehicle Maintenance

- Prevent spills and leaks. Use drip pans and ground cloths under vehicles.
- Minimize the use of water to clean up. Absorb leaks on the driveway with sand or cat litter, then sweep or vacuum and place in trash.
- Protect outdoor work and storage areas from the weather.
- Provide secondary containment for bulk fluids.
- Label containers of their contents.

- Clean parts in a self contained sink or drum.
- Use water based cleaning agents as opposed to solvents when possible.

Dispose of wastes properly.

Recycle oil, oil filters, antifreeze, batteries and tires.
Contact Lake County Public Services, Waste Management Division at (707) 262-1760 for the proper disposal of auto parts, used cleaning fluids, oil, batteries and tires

Vehicle Washing

- Wash your car over a grassy or gravelly area; this will allow the ground to naturally filter the water and rinse water. By doing this YOU will help prevent soapy runoff from entering the storm drainage system which ultimately drains to creeks and into Clear Lake.
- Use soap sparingly; when done, pour the bucket of soapy water down the sink.
- Best of all, wash your vehicle at a commercial car wash facility. Most car washes re-use wash water several times before sending it to the sewer system for treatment.
Use fertilizer, herbicide and pesticide products sparingly

The chemicals in the runoff from these products are a major cause of non-point source pollution.

- Follow the instructions, apply only the recommended amount and use only when necessary.
- Check the weather forecast and related instructions to avoid having to repeat the application.
- Consider more natural solutions such as pulling weeds by hand or with a tool.
- Fill in bare dirt areas with grass or mulch to help prevent weeds from returning.

Use native plants that have lower requirements for fertilizers, pesticides and require less maintenance.

Reducing your dependence on fertilizer, herbicide and pesticide products use will decrease nutrient inputs to the watershed and save you money.

Over-use of fertilizers can easily wash off of your lawn and from your garden into storm drains which then flow untreated into creeks and into Clear Lake. Fertilizers in the lake or creeks can contribute to nuisance algae blooms and aquatic plant growth.

Minimize impervious areas

- Landscaped areas decrease the amount of runoff from impervious areas by absorbing water.
- Pave only what is needed on your property, use gravel or permeable surfaces such as turf blocks, interlocking pavers or porous concrete surfacing.
- Green space also provides a natural pollution filtering system.

Preserve existing drainage patterns

- If your property has a drainage ditch or swale, do not fill it in.
• Do not build anything in it and keep it free of debris which may be washed away.
• If you fill in or obstruct natural drainage patterns, you may cause local flooding and may be held liable for impacts to neighboring properties.

Dispose of yard waste properly

• Depositing yard waste such as leaves and lawn clippings into streets, storm drains or waterways ultimately ends up in creeks and Clear Lake and is also illegal.
• Use a mulching leaf vacuum as opposed to a leaf blower.
• Recycling of yard waste by composting is environmentally responsible. You also will be creating beneficial soil conditioner that will reduce the fertilizer and watering requirements for the plants in your landscape.
• Composting is free and helps extend the life of limited landfill space.
• For more information on composting and the proper disposal of yard wastes, contact Lake County Public Services (707) 262-1760 or visit the Public Services web site.

Conserve water

• Irrigate in the early morning or early evening.
• Use soaker hoses or drip irrigation versus sprinklers.
• Use organic mulch around plants.
• Use native plants that have lower requirements for water.
• Sweep as opposed to washing down with a hose.
Proactive Public Service

Lake County, California

Pouring Concrete / Patching Cement

Contrary to popular belief, concrete is not just sand, gravel and water. Concrete or cementitious (mortar, grout, plaster, stucco, cement, slurry) wastewater is caustic and considered to be corrosive with a pH near 12, essentially the same as liquid drain cleaner, ammonia or other household cleaning detergents. The primary ingredient in ready mixed concrete is Portland Cement, which consists of Portland Cement clinker, calcium sulfate, calcium and magnesium oxide, metals and trace elements of potassium and sodium sulfate compounds, chromium compounds and nickel compounds.

Before the concrete arrives, determine the proper disposal methods and areas for liquids and solids.
- Do not wash off in the street or gutter.
- Use an adequately sized concrete washout area to allow tools and ready-mix trucks to be cleaned without harmful residue leaving your site. For washout details see:

- Wash off in a designated containment area where materials do not have access to ground water, streams, streets or storm drains.
- Don't let liquid or solid waste from sawing, coring or demolition get into the storm drain system.
- Try to schedule projects for dry weather periods.
- Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.
- When temporary concrete washout facilities are no longer required, the hardened concrete should be removed and disposed of properly.
- Small amounts of excess dry concrete, grout and mortar can be put in the trash.
- Large quantities of dry concrete can be recycled.

For hardened concrete recycling call:

Quakenbush Mountain Resource Recovery & Compost Facility - (707) 995-0104
Granite Construction - (707) 994-8201
DNA Ridge Rock - (707) 994-5100

Contact Lake County Public Services at (707) 262-1760 for other disposal options.
Lake County, California

Good Construction & Development (BMP)

Best Management Practices (BMP) to Reduce Stormwater Pollution

Construction

Construction sites can generate a variety of pollutants that may be discharged (via storm water) and adversely affect beneficial uses of receiving water bodies. Of particular concern are the impacts of sediment. Sediment can be detrimental to aquatic life (primary producers, benthic invertebrates, and fish) by interfering with photosynthesis, respiration, growth, reproduction, and oxygen exchange in water bodies. In addition to impacts directly associated with sediment, various pollutants can also be transported along with sediment particles leaving construction sites. Such pollutants include metals, nutrients, pesticides and pathogens. Other pollutants of concern from construction sites are; trash, construction debris, concrete washout residue, construction chemicals, and oil and grease.

In order to control erosion and discharge of other pollutants on receiving waters, the State Water Resources Control Board (SWRCB) developed Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction Activity and issued a statewide general NPDES permit (Construction General Permit). The main objective of the Construction General Permit is to reduce erosion and minimize or eliminate sediment aprind non-storm water discharges from construction sites by implementing appropriate measures to reduce potential impacts on water bodies. Individuals or entities that own land where one acre or greater of soil is planned to be disturbed must seek coverage under the Construction General Permit.

Does Your Construction Site Need a Construction General Permit? - Lake County Community Development
New development and significant redevelopment projects can adversely affect receiving water bodies for decades if post-construction storm water management elements are not implemented and maintained over the life span of the project. These impacts can generally occur in two ways. First, new and redevelopment can cause an increase in the type and quantity (e.g., concentration and/or volume) of pollutants in storm water runoff. As runoff flows over areas altered by development, it picks up harmful sediment and chemicals such as oil and grease, pesticides, heavy metals, and nutrients (e.g., nitrogen and phosphorus). These pollutants often become suspended in runoff, where they can adversely affect aquatic organisms (i.e., toxicity), and are eventually carried to receiving waters, such as lakes, ponds, and streams. When deposited in water bodies, pollutants can enter the food chain through small aquatic life, eventually entering the tissues of fish and humans and
cause harmful effects.

The second kind of post-construction runoff impact occurs by changing the natural hydrology of a land area through the creation of new impervious surfaces during development. Increased impervious surfaces interrupts the natural cycle of gradual percolation of water through vegetation and soil by altering the timing and quantity of peak flows. Instead, water is collected from surfaces such as asphalt and concrete and routed to drainage systems where large volumes of runoff quickly flow to the nearest receiving water. The effects of this process include stream bank scouring, bank erosion and downstream flooding, which often lead to a loss of aquatic life and damage to property.

Several studies have shown that controlling pollutants once they have entered into the storm drain system is more difficult and expensive than preventing or reducing the pollutants at the source. If areas proposed for new development or redevelopment are planned, designed, and constructed in a manner that considers storm water runoff issues, then future pollutant loading from these areas will be reduced.


Bay Area Stormwater Management Agencies Association

Santa Clara Valley Urban Runoff Pollution Prevention Program

This file last updated on April 29, 2009
Lake County, California

Community Involvement

The Community Solution to Pollution

The County of Lake, City of Lakeport, City of Clearlake and East Lake and West Lake Resource Conservation District support many community involvement activities. The success of many of these activities depend upon and have been a great success due to volunteer efforts.

Community Activities to Help Cleanup Pollution

Lake County Adopt-A-Road

For County unincorporated areas, visit the Lake County Public Works Web Site

For the City of Lakeport, please call (707) 263-5613

For the City of Clearlake, please call (707) 994-8201

Annual Stream Cleanups

The East Lake and West Lake Resource Conservation District coordinate yearly Creek Clean up events throughout Lake County. Creeks cleaned are in response to public concerns and involvement. For more information on starting a creek cleanup in your area, contact the East Lake and West Lake RCD.

East Lake and West Lake Resource Conservation District
889 Lakeport Blvd.
Lakeport, CA 95453
707.263.4180 wercd@jps.net
http://www.lakecountyrcds.org/

Hazardous Waste

Household hazardous wastes will be collected from Lake County residents
Lake County, California

Clean Water & Storm Water Complaints

To report an illicit discharge or illegal dumping, contact the Clean Water Program agencies below:

| Unincorporated areas in Lake County - Online or PDF | 707.263.2309 |
| City of Clearlake | 707.994.8201 press zero for the operator and report the issue of concern. |
| City of Lakeport | 707.263.5615 ext. 30 |

See noticeable changes in water quality? Click the form above.

Storm drains and sanitary sewers have two distinct functions. It's important to understand the difference.

Storm drains collect and transport runoff from rainfall. Storm drain systems typically include the drains found in streets and parking lots, curb gutters, ditches, swales, gullies and other features for conveying stormwater runoff. Storm drainage systems do not remove pollutants from water before it is discharged into streams and lakes.

Sanitary sewers collect wastewater from indoor plumbing such as toilets, sinks, washing machines and floor drains and take it to a sewage treatment plant. The treatment plant removes many pollutants from wastewater before it is discharged.
Pollutants poured, spilled, dumped, washed, or discharged through illicit connections or illegal dumping into creeks and the storm drainage system inevitably make their way to receiving water bodies such as creeks, wetlands and lakes. Illicit discharges are defined as any discharge to the storm drainage system that is not composed entirely of storm water, with some exceptions. Illicit discharges enter the storm drainage system either through direct connections (e.g., wastewater piping either mistakenly or deliberately connected to the storm drain) or illegal dumping of materials that contain pollutants. Either way, the result is untreated discharges that may contribute elevated levels of pollutants, including heavy metals, toxics, oil and grease, solvents, trash, nutrients and bacteria to receiving water bodies. To help reduce illicit discharges and illegal dumping in Lake County, the Lake County Clean Water Program is developing and implementing an Illicit Discharge Detection and Elimination Program.

This file last updated on April 12, 2010
Lake County, California

Help Prevent Community Impacts

The Board of Supervisors has intensified the Lake County Invasive Mussel Prevention Program with Lake County Ordinance 2915 to better protect the water bodies of the County from possible quagga and zebra mussel infestation. These forms of mussels significantly alter lake ecology and can harm native animals, humans, and boats, can be unknowingly transported from one lake to another by boaters. These mussels have caused devastating impacts on municipal water systems, recreation and fisheries in other areas. LET US ALL PROTECT LAKE COUNTY’S WATERWAYS!

Prevent Invasive Mussels

Information about the mussel prevention program is provided at the link below. For information, please call Lake County Water Resources (707) 263-2344


Impacts of quagga and zebra mussels
Street Sweeping helps limit water pollution

CITIZENS CAN HELP

Lake County Public Works Staff regularly sweep streets within the unincorporated areas of the County on a fixed schedule that is flexible upon need.

In the unincorporated communities of Lake County, please wait until after Noon (12 pm) to park vehicles on the streets designated
for street sweeping on days listed below.

**County Street Sweeper Schedule 4 am - 12 pm**

<table>
<thead>
<tr>
<th>Day</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>Kelseyville: Main St &amp; back streets, 1/2 Rivieras</td>
</tr>
<tr>
<td>Tuesday</td>
<td>Rest of Kelseyville, Lower Lake, Clearlake Oaks</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Middletown</td>
</tr>
<tr>
<td>Thursday</td>
<td>1/2 Rivieras, Extra sweeping as requested</td>
</tr>
<tr>
<td>Friday</td>
<td>Upper Lake, Nice, Lucerne, and Lakeport</td>
</tr>
</tbody>
</table>

Other unincorporated communities areas are swept once a month or as needed.

The Keys, Orchard Shores, Kono Tayee, Loch Lomond area, and additional passes on Main St. Kelseyville as needed. In the Fall of the year DPW crews will clean out drop inlets.

The City of Lakeport regularly sweeps streets within the City on Monday, Tuesday and Wednesday. Contact the City to confirm which streets are serviced and do not park on the streets on the designated day.

Currently the City of Clearlake does not have a street sweeping program.

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*This file last updated on June 28, 2010*
See noticeable changes in water quality? Click the Complaint Form in the left column.

- What is NPDES?
- What is stormwater?

What is NPDES?
Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

The NPDES Municipal Storm Water Permitting Program regulates storm water discharges from municipal separate storm sewer systems (MS4s). NPDES Municipal Permits were issued in two phases.

Phase I, which started in 1990, permit coverage for medium (serving between 100,000 and 250,000 people) and large (serving 250,000 people) municipalities.

Phase II requires General Permit coverage for the discharge of stormwater from small MS4s, including non-traditional Small MS4s such as governmental facilities like military bases, public campuses, prisons and hospitals.

The MS4 General Permit requires the discharger to develop and implement a Storm Water Management Plan/Program (SWMP) with the goal of reducing the discharge of pollutants to the maximum extent practicable.

What is stormwater?
Stormwater discharges are generated by runoff primarily from disturbed land and impervious areas during rainfall and snow events that often contain pollutants in quantities which could adversely affect water quality and beneficial uses of water bodies. Sources of stormwater pollution include driveways, streets, parking lots, lawns, construction sites, agricultural activities, failing septic or sewer systems, and illicit discharges such as dumping of waste motor oil. Pollutants found in stormwater runoff include heavy metals, oil, grease, sediment, fertilizers, pesticides, herbicides, bacteria, and trash. When it rains, these pollutants are washed through our streets and storm drains directly into creeks and into Clear Lake.

Many stormwater discharges are considered point sources for pollution and require coverage by a National Pollutant Discharge Elimination System (NPDES) permit. The primary method for control of stormwater discharges is through the use of Best Management Practices (BMPs). BMPs include scheduling of activities, prohibition of practices, pollution prevention and education practices, maintenance procedures, and other management practices to prevent or reduce to the maximum extent practicable the direct and indirect discharge of pollutants to the County storm drainage system and to natural surface waters.
Proactive Public Service

Lake County, California
Advisory Council Documents

Clean Water Program Advisory Council Agenda and Meeting Minutes

August 17, 2006       AGENDA       8-17-06 Minutes
November 16, 2006     AGENDA       11-16-06 Minutes
February 15, 2007     AGENDA       2-15-07 Minutes
June 21, 2007         AGENDA       6-21-07 Minutes
August 9, 2007        AGENDA       8-09-07 Minutes
November 15, 2007     AGENDA
July 23, 2009         AGENDA
September 3, 2009     SEP AGENDA   09-03-09 Minutes
December 16, 2009     DEC AGENDA   12-16-09 Minutes
March 10, 2010        MAR AGENDA   3-10-10 Minutes
June 9, 2010          JUN AGENDA   6-9-2010 Draft Minutes
September 9, 2010     9-9-10 Agenda

Public Education and Outreach Program for the Clean Water Program Advisory Council

This file last updated on August 27, 2010
Lake County, California

Important Links

Link to National Pollutant Discharge Elimination System (NPDES) Environmental Protection Agency

Link to the basics of everything you want to know about the National Water Pollutant Discharge Elimination Permit Program http://cfpub.epa.gov/npdes/home.cfm?program_id=45

Link to Public Outreach for State Environmental Protection Agency (EPA)

Link to State Water Resources Control Board
Link to California Stormwater Quality Association

Link to Ecology and Environmental Science

Link to Lake County Resource Conservation Districts

Link to City of Lakeport Clean Water Issues

Link to Power Point of CLEAN WATER LAW 101 Water Law 101 Link to Clean Water Act
Lake County, California
Illegal Activities Impact Water Quality

Illegal activities severely impact Lake County water quality

Examples of negative water impacts:

- Improper disposal/dumping of automotive fluids


- Dumping of restaurant and household grease/fats and/or mop and cleaning water

- Illegal grading and clearing: Disturbed soil runs into tributaries clogging waterways after rain/storm events impacting fish habitat
· Recreational soil disturbance (*Off Road/Highway Vehicles, ATVs*)

· Unmaintained/ failing construction site procedures

· Stockpiling/dumping unwanted pears, grapes or organics near a creek/ water way

· Piles of manure allowed or placed near creeks and water ways

· Garbage dumped near a creek

· Concrete dumped in or near creeks or waterways
· Misuse or misapplication of chemicals (herbicides, paint, solvents, fertilizers)
· Large and small dead animals near or in waterways
· Sewage spills or discharge near or to waterways
· Fires and the resulting cleanup
· Illegal Marijuana grow sites
· Re-routing water with illegal dams and siphons

See noticeable changes in water quality?
File the Complaint Form in the left column.

Illegal Marijuana cultivation results in residue from garbage and chemicals that flow into the tributaries and waterways of Lake County with rain/storm events.
Clean Water Program (Storm Water Management)

Welcome to the City of Lakeport's Clean Water Program Web page!
Here you will find information on what you can do to help manage storm water runoff and keep Clear Lake healthy.

Announcements
Follow us on Facebook and Twitter. The links are below. We're getting quite a following. Hope to see you join us.

Background
In 2003, the City of Lakeport, in conjunction with the County of Lake and the City of Clearlake, adopted the Lake County Storm Water Management Plan (SWMP). Required by the Federal Clean Water Act, under the National Pollution Discharge Elimination System (NPDES Permit Program), the County's three jurisdictions are required to maintain, implement, and enforce an effective SWMP. The SWMP is designed to reduce the discharge of pollutants into Clear Lake and to enhance the water quality.

As a part of this process, the City Council has recently adopted a new SWMP ordinance that will, among other things, prohibit non-storm water discharge into the City's storm drainage system. In addition, as part of its public education program, the City will be stenciling storm drain inlets this summer with the message “No Dumping, Flows to Clear Lake.”

Please do your part, don't wash mud, oil, trash, or other pollutants into the street or gutters.

KEEP CLEAR LAKE CLEAR!

Related Web Sites:
CASQA Best Management Practices (BMP) Handbooks
Storm Water Management Plan Documents
County of Lake Clean Water Program
State Water Resources Control Board
State NPDES Phase II Permits

Lake County Clean Water Program
Storm Water Issue Report Form

Please complete this form to report a storm water issue.
All fields are required

Contact Information
Name: 
Email: 
Phone: 

Best time to call:  
☐ Morning  
☐ Early Afternoon  
☐ Late Afternoon

Storm Water Issue Location
In what part of the county is this storm water issue located?
Jurisdiction:  
☐ County (unincorporated)  
☐ City of Lakeport  
☐ City of Clearlake

Street Location or Address: 
City (mailing): 
Nearest Cross Street:

Please describe the storm water issue you're reporting:

Submit Report
Report a Storm Water Issue

Notice a storm drain that looks backed up?
Do you see water running into a storm drain, creek, or stream that looks oily, murky, or contaminated?

Is there a strong odor coming from the storm sewer or nearby storm drain?

Have you observed a business or resident dumping liquid or material into a storm drain?

If so, we would like to hear from you.

Please click here to complete a storm water issue report form and let us know of your storm water concern. You can E-mail the form to City Hall or print the form for US mail delivery or to drop it off in person. Together, we can help keep Clear Lake healthy and beautiful.

You can also fill out, print, and mail in a hard copy form if preferred. Just click the link below.

Storm Water Issue Report Form

NOTE: If you would like to submit this form using an internet-based email service (e.g., Yahoo, Google, Hotmail, etc.) complete the document, save it to your hard drive, and attach it to a new message using your preferred email system. Address your email message to compliance@cityoflakeport.com.
PEOP/PIP Workgroup

Welcome to the Public Education and Outreach Program (PEOP)/Public Information and Participation (PIP) Workgroup Page. This workgroup is a subcommittee of the Clean Water Advisory Council, which consists of representatives from the cities of Lakeport and Clearlake and the County of Lake.

Announcements:
Minutes from the June 1, 2010 meeting can be found here.

Report Your Outreach Efforts
Click here or click on the link below to open and complete an activity report form, which helps us identify and track all the activities the workgroup participates in. Tracking these activities is an essential requirement for us to maintain compliance with our storm water permit.

You can also fill out, print, and mail in a hard copy form if preferred. Just click the link below.

PEOP/PIP Activity Report Form

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Meeting Minutes
October 28, 2009
September 16, 2009
February 24, 2010
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Please click here to complete a storm water issue report form and let us know of your storm water concern. Once complete, click the "submit report" button at the bottom and the form will be automatically emailed to the City of Lakeport.

Together, we can help keep Clear Lake healthy and beautiful.

You can also fill out, print, and mail in a hard copy form if preferred. Just click the link below. This form is designed to be filled out, printed and submitted to the City in hard copy form. It can not be emailed or saved electronically.

Storm Water Issue Report Form

You can also report an illicit discharge, illegal dumping or noticeable changes in water quality via telephone. All complaints will be investigated.

**City of Lakeport:** 707.263.5613 ext. 28

**Unincorporated areas in Lake County:** 707.263.2309

**City of Clearlake:** 707.994.8201 press zero for the operator and report the issue of concern.

Please contact our office if you have any trouble filling out, printing or submitting the report form. Send all related emails to compliance@cityoflakeport.com.
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Meeting Minutes
October 28, 2009
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Clean Water Program Educational Materials

Residents interested in learning more about storm water issues should visit the [Storm Water Program page](http://www.cityoflakeport.com/departments/page.aspx?deptID=91&id=191) on the State Water Resources Control Board’s website. In an effort to better educate residents of our community, the City has posted links to storm water educational materials developed by the State and other agencies.

The United States [Environmental Protection Agency](http://www.epa.gov) has a web page devoted to educating kids about Nonpoint Source Pollution and related storm water and water pollution issues. It includes fun interactive games, quizzes and experiments as well as articles and activities designed for middle school students. Please check it out [here](http://www.epa.gov)!

**Wag the Dragon - Protecting Creeks and Streams the Water Board Way**

(Wag the Dragon 2009) This is a slide show that addresses the detrimental impacts associated with [hydromodification](http://www.epa.gov), which is a term used to describe the alteration of the natural flow of water through a landscape. Disturbing and compacting soils, changing the vegetation cover, adding impervious surfaces, and altering drainage patterns limit the natural hydrologic cycle processes of absorption, infiltration, and evapotranspiration, and increase the volume and frequency of runoff. Hydromodification is an issue that impacts creeks and streams in the City of Lakeport and other areas of Lake County. It causes stream channel instability, degraded water quality, changes in groundwater recharge processes, and riparian and aquatic habitat impacts. Please see this page for more information designed for the public!

**Achieving Sustainable Site Design through Low Impact Development**

Low Impact Development (LID) is a storm water management approach where the primary goal is to preserve a site’s predevelopment hydrology. The effects of changes to runoff patterns caused by land use modifications, or hydromodification, can be reduced through the use of LID site planning (e.g., reduce impervious areas, preserve open space, minimize land disturbance) and structural Best Management Practices (e.g., bioretention swales, pervious pavements, cisterns), which are intended to promote infiltration, storage, evapotranspiration, and other processes that mimic the site’s natural hydrology. The techniques used as part of LID are often conducive to reducing the amount of pollutants entering receiving waters (including groundwater).

"After the Storm" Excellent information prepared by the United States Environmental Protection Agency (EPA) which describes storm water, explains why storm water runoff is a problem, the negative effects of storm water pollution, and offers storm water pollution solutions.

**City of Sacramento Stormwater Program “Kids Page”** Terrific page devoted to educating children about stormwater pollution and stormwater issues. The page includes an Environmental Quiz and a fun "Sammy the Salmon" game.

**Non-Point Source Pollution** This website was created by the Hawaii State Department of Health and includes a wide variety of information about non-point source pollution which affects our local streams, lakes and creeks. This type of pollution results when rainfall and snowmelt flows over and through the landscape and picks up and carries contaminants from many different sources. Sources of non-point pollution include automobiles, residential and agricultural activities, construction activities and other typical urban runoff passing through the storm drain system and into Clear Water.
Lake. Water also carries pollutants into underground drinking water as it soaks into the ground.
**Clean Water Program (Storm Water Management)**

Welcome to the City of Lakeport’s Clean Water Program Web page!

Here you will find information on what you can do to help manage storm water runoff and keep Clear Lake healthy.

**Announcements**

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**Background**

In 2003, the City of Lakeport, in conjunction with the County of Lake and the City of Clearlake, adopted the Lake County Storm Water Management Plan (SWMP). Required by the Federal Clean Water Act, under the National Pollution Discharge Elimination System (NPDES Permit Program), the County’s three jurisdictions are required to maintain, implement, and enforce an effective SWMP. The SWMP is designed to reduce the discharge of pollutants into Clear Lake and to enhance the water quality.

As a part of this process, the City Council has adopted a SWMP ordinance that will, among other things, prohibit non-storm water discharge into the City’s storm drainage system. In addition, as part of its public education program, the City has stenciled storm drain inlets with the message “No Dumping. Flows to Clear Lake.” Permanent “button” markers are expected to be installed on many of the City’s storm drain inlets in 2012.

We also encourage residents interested in learning more about this important issue to visit the State Water Resources Control Board’s website as it is a very valuable resource for storm water information. The City has posted some storm water educational materials developed by the State on this page. Please check it out!

Please do your part, don’t wash mud, oil, trash, or other pollutants into the street or gutters.

**KEEP CLEAR LAKE CLEAR!**

![Image of fish and storm drain]

**Related Web Sites:**

[Clean Water Program (Storm Water Management) - Environmental Resources](http://www.cityoflakeport.com/departments/page.aspx?deptID=91&id=127)
CASQA Best Management Practices (BMP) Handbooks
Storm Water Management Plan Documents
County of Lake Clean Water Program
State Water Resources Control Board
State NPDES Phase II Permits

Trash, Recycling, and Open Burning

Curbside trash, recycling, and green waste pickup in Lakeport is provided by Lakeport Disposal Company. The City has entered into a franchise agreement with Lakeport Disposal to provide these “universal” services.

In 2003, the City Council adopted Ordinance No. 837 which made participation in the curbside pickup of garbage, recycling, and green waste mandatory within the Lakeport City limits.

Residents are reminded to maintain the waste toters, place them out on collection day only, and to pull them in within 18 hours after they have been emptied. Toters are also required to be stored and screened from public view and not be visible from the sidewalk, streets, or roadways.

Fees for waste collection are billed by the City as part of the monthly sewer and water utility bills. Effective April 2012, the residential waste collection fees are as follows:

- One 20-gallon toter: $13.70
- One 32-gallon toter: $20.55
- Two 32-gallon toters: $41.10
- One 95-gallon toter: $61.64

Recycling and green waste pick-up service is provided free of charge.

A copy of Ordinance No. 827 is available in .pdf format in the documents section.

According to Lakeport Ordinance No. 817, outside burning of all kinds is prohibited. The only exceptions are for barbequing and Fire District training exercises.

Visit LakeportDisposal.com to learn more about recycling, service areas and times, hazardous materials, and other waste disposal-related information.
Environmental Resources Documents

- Agendas and Minutes
- Invasive Species
- Reporting Forms
- Stormwater Brochures and Information

Subscribe to this folder
Receive an email alert anytime new documents are posted to this folder.

- Clean Water Program, Flier 1 (928kb)
- Clean Water Program, Flier 2 (988kb)
- Clean Water Program, Flier 3 (959kb)
- Clean Water Program, Flier 4 (902kb)
- Mercury Brochure (888kb)
- Reducing Storm Water Pollution Guide (1.5MB)
- Storm Sewer Use Guidelines for Food Handling Facilities (359kb)
- Storm Water Management Plan (2.1MB)

Total folder file size: 8656kb.
RECYCLING INFORMATION
Para el Español, Chasque Aquí

IMPORTANT REMINDERS
- Carts MUST be 3 feet apart
- Carts must be at the curb the night before your regular collection day
- Service may be delayed or you may receive a "call back" charge
- Residential customers place carts out the night before pickup

MOST COMMON PROBLEMS
Most common problems with recycling concerning a tagged cart for non-recycling is food waste (wet garbage), PVC pipe, garden hose, tarps and clothing.

PLASTIC SERVICE HAS BEEN EXPANDED
Any material made of plastic the recycling code is not necessary.

ONE TIME ON CALL PICK-UP
One large bulky item and seven bags. Large appliances will have a $20.00 charge for pick up.

PROCEDURE FOR RECYCLING PROPERLY

Proper placement of cans!
Cart Placement Guidelines
Keep carts three-feet away from other containers or structures.
1. The truck's lifting arm needs at least three-feet on either side of the rolling cart to wrap around the container. Place carts three feet from other carts, telephone poles, automobiles, mailboxes, basketball poles or other structures that will prevent the truck's lifting arm from grasping and lifting the carts to empty them into the truck.

2. Be sure the arrows on the lid are pointing towards the street. Face each cart so that the arrows on the lid face the street and the hinges face away from the street. This allows the lid to open fully when the cart is tipped over above the truck bay. If the hinge faces the wrong way, the lid or hinges may be damaged.

3. Make sure that there is a twelve-foot vertical clearance above carts. Keep carts away from low phone or electric wires, low hanging tree branches or other overhead obstructions. The twelve-foot vertical clearance is necessary for the truck's lifting arm to elevate the can above the loading bay where it is emptied.

4. Do not place carts behind parked cars, fire hydrants, trees or other obstructions. Do not place carts where access to them is blocked. The automated truck lifting arm is not able to reach behind trees or other objects.

5. Place carts no more than two-feet away from the curb or road edge. The automated lifting arm, when fully extended, has a horizontal reach of only three-feet. Be sure the cart is placed on a level surface within three feet of the road's edge.

---

**SINGLE STREAM RECYCLING GUIDE**

**Place all recyclables together in the blue cart**

- No Garbage
- No Plastics except Househld Containers
- Rinse or empty containers
- Remove Lids
- No Liquids
- Plastic bags & styrofoam must be double-bagged separately in clear bags
- Recycling is collected weekly on your regular garbage collection day

---

**YARD WASTE**

**Place all yard waste in the green cart**

Put the following items in the GREEN CART

- Grass Clippings
- Leaves
- Branches no longer than 48 inches
- Wood debris, painted, with nails but no large brackets
- Vegetables

---

**MIXED PAPER AND CARDBOARD**

<table>
<thead>
<tr>
<th>YES</th>
<th>AND CARDBOARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Flatten or cut boxes to fit loosely inside blue cart. Place shredded paper in paper bags.</td>
<td></td>
</tr>
</tbody>
</table>
- White and Colored Paper
- Office Paper and Envelopes
- Newspaper
- Magazines and Catalogs
- Junk Mail and Envelopes
- Paperback and Phone Books
- Waffle-type (corrugated) Cardboard
- Single Layer Cardboard (cereal, shoe boxes, etc.) |

<table>
<thead>
<tr>
<th>NO</th>
</tr>
</thead>
</table>
- Food Contaminated Paper
- Napkins, Towels, Tissues
- Photographs or Blueprint Paper

---
## MILK CARTONS

**YES**
- Milk Cartons
- Drink Boxes
- Juice Concentrate Cartons
- Frozen Food Packaging

**NO**
- Plastic Lined Cartons
- Straws or Pop Tops

Remove caps and empty containers before recycling.

## GLASS BOTTLES & JARS

**YES**
- Clear and Colored Glass
- Food and Beverage Jars
- Leave Labels On

**NO**
- Jar Lids or Caps
- Window or Mirror Glass
- Ceramic, Dishes or Stweware

Remove caps and empty containers before recycling.

## PLASTIC CONTAINERS

**YES**
- Household Containers
- Milk and Water Jugs
- Soda and Juice Bottles
- Shampoo and Detergent
- Yogurt and Deli Tubs
- Pasta and Deli Trays

**NO**
- Non-containers
- Pipe or Hose
- Garden Pots/Trays
- Tarps, Feed Sacks
- Plastic Toys
- Plastic Buckets

Wash and squash, remove caps. Empty containers before recycling. Dry plastic bags and styrofoam must be bagged.

## METAL CANS

**YES**
- Aluminum Cans
- Steel and Tin Cans
- Bimetal Cans
- Empty Paint/Aerosol Cans

**NO**
- Small Plastic Caps

Wash and squash, leave labels on. Empty before recycling.

## THINGS TO COMPOST

- Leaves
- Grass clippings
- Prunings
- Flowers
- Wood ash
- Sawdust
- Vegetable trimmings
- Coffee grounds

- Bones
- Dog and cat feces
- Unchopped wood
- Plastics
- Meat, fish, poultry
- Diseased plants
- Dairy products

Residential recycling is picked up on your regular garbage day. Depending on service type, multi-family and commercial service may have a different collection schedule. Residential customers must place carts at curb or road edge for collection.

### LAKEPORT DISPOSAL

Office: 1054 North Main Street  
Mailing: P.O. Box 294  
Lakeport, CA 95453

Phone: (707)-263-6080  
Fax: (707)-263-1418

Office Hours: 8:30 am to 4:30 pm Monday-Friday!
APPENDIX 2-3

Invasive Species Program Coordinator Outreach Report

Creek Identification Sign

"In the Creek Day" News Article
OUTREACH EFFORTS for CLEAN WATER
July 2011–June 2012

- July 11. Participation in Lake County Invasive Species Council (oversight for Dreissenid mussel prevention program) meeting.
- July 12. Training a participant, Walnut Cove Mobile Estates, to screen boats for risk of transporting Dreissenid mussels to Clear Lake.
- July 15. Educating Lupoyome shoreline property owners on invasive water primrose.
- July 15. Presentation to Seniors at Senior Center, Clearlake Oaks. Dreissenid mussel prevention update.
- July 17. Participation at State Fair on behalf of Dressenid mussel prevention program for Clear Lake.
- July 18–22. Invasive Weeds Awareness Week. Various forums to educate Lake County residents about invasive weeds in Clear Lake.
- July 21. Weed tour. Participation in the public tour of Lake County to see up close the invasive weeds that are threatening our watersheds. Arundo, tamarix, water primrose and water milfoil were among the demonstration invasive weeds.
- July 27. Participation in the Upper Cache Creek Watershed Forum meeting. Mission of this organization is to develop collaborative approaches to improve watershed health including an annual public event and meetings open to the public.
- August 9. Clearlake Keys meeting with property owners wanting to use aeration and microbial additions to Clear Lake to improve water quality.
- August 9. Nice residents educated about Holiday Harbor installation of bottom aerators. This is a technology being trialed for mitigation of cyanobacteria blooms.
- August 16. Training Big Valley Rancheria tribe to screen boats for risk of transporting Dreissenid mussels to Clear Lake.
- August 22. Distributing Quashing Quagga brochures to resorts and bait and tackle shops.
- August 23. Installing mussel prevention signage in Mendocino County.
- August 26. Presentation of mussel screener training to the Clear Lake Advisory Committee.
- August 29. Training shoreline property owners how to mitigate the results of the cyanobacteria bloom – horrendous odor and look of raw sewage.
- September 6. Installation of Dreissenid mussel and hydrilla prevention signs around the lake.
- September 7. Fostering UC Davis interest in research projects to understand nutrient cycling in Clear Lake.
- September 8. Meeting with shoreline property owners at Konocti Bay to answer questions about aquatic weeds and the cyanobacteria bloom.
- September 12. Discussion with Land End property owners about weed growth in their canal.
- September 15. Fish and Wildlife Committee meeting, Lakeport. Participation at this public meeting informs the public about health issues of the lake.
- September 20. Meeting with shoreline property owners at Soda Bay to answer questions about aquatic weeds and the cyanobacteria bloom.
- September 29. Visit to see a citizen’s solution to mitigate the cyanobacteria floating mats.
- October 1. Filming for the PEG TV channel. Aquatic weeds and cyanobacteria bloom information given to local students with a Q&A session.
- October 5. Presentation to the Lakeport Yacht Club. Dreissenid mussel prevention program update.
- October 20. Teaching local school kids how to plant tules and why they are important to the lake.
- October 24. Filming for PEG TV channel. What makes a clean beach discussion with local students with a Q&A session.
- October 26. Upper Cache Creek Watershed Forum meeting discussing the Cache Creek Weed Management Plan.
- November 5. Training State Park rangers and aides, to screen boats for risk of transporting Dreissenid mussels to Clear Lake.
- November 7. Interview with an honor student as a part of her final project about the health of Clear Lake.
- November 17. Fish and Wildlife Committee meeting, Lower Lake. Participation at this public meeting informs the public about health issues of the lake.
- November 22. Installing mussel prevention signage in Middletown and Upper Lake.
- November 29. Participation in producing a student presentation on sediment cores drilled in Clear Lake. How will sediment cores help us improve our database that drives decision making on a healthy Clear Lake?
- December 1. Training a participant, Skylark resort employees, to screen boats for risk of transporting Dreissenid mussels to Clear Lake.
- December 5. Presentation to the Lakeport City Council. Dreissenid mussel prevention update.
- December 28. Meeting with Kono Tayee property owners to answer questions about the Dreissenid mussel prevention program and aquatic weeds.
• December 29. Distributing outreach materials to the Clear Lake State Park on the Dreissenid mussel prevention program, hydrilla and invasive weeds.
• January 2. Training a participant, Skylark resort employees, to screen boats for risk of transporting Dreissenid mussels to Clear Lake.
• January 19. Fish and Wildlife Committee meeting, Lakeport. Participation at this public meeting informs the public about health issues of the lake.
• January 23. Signage development and brochure design for outreach for the Dreissenid mussel prevention program.
• February 2. Training a participant, 3 Brothers Travel Plaza, to screen boats for risk of transporting Dreissenid mussels to Clear Lake.
• February 4. Meeting with Hidden Valley Lake to inform residents in their newsletter about the Dreissenid mussel prevention program.
• February 15. Planning public release on sediment core drilling in Clear Lake.
• March 2. Participate in a Friends of Clear Lake meeting to discuss Clear Lake’s health, good or bad.
• March 7. Upper Cache Creek Watershed Forum meeting discussing the Cache Creek Weed Management Plan and the annual Discovery Day event.
• March 7. Presentation to Hidden Valley Lake residents. Dreissenid mussel prevention update.
• March 8. Presentation to City of Clearlake Council and residents. Dreissenid mussel prevention update.
• March 15. Fish and Wildlife Committee meeting, Lower Lake. Participation at this public meeting informs the public about health issues of the lake.
• March 16. Presentation to the Lakeport Yacht Club. Dreissenid mussel prevention update.
• March 17. Presentation to the US Coastguard Auxiliary, Braito’s Marina. Dreissenid mussel prevention update.
• April 6. Training a participant, Lake Haven Resort, to screen boats for risk of transporting Dreissenid mussels to Clear Lake.
• April 10. Planning meeting for the 2012 Coastal Cleanup Day.
• April 10. Training a participant, The Lodge at Blue Lakes, to screen boats for risk of transporting Dreissenid mussels to Clear Lake.
• April 13. Training a participant, etickle tackle it, to screen boats for risk of transporting Dreissenid mussels to Clear Lake.
• April 19-20. Dockwalker training, Clear Lake State Park.
• April 21. Participation in the Cache Creek Conservancy event on behalf of the Dreissenid mussel prevention program in Clear Lake.
• April 26. Training two participants, Konocti Vista Casino and The Lodge at Blue Lakes, to screen boats for risk of transporting Dreissenid mussels to Clear Lake.
• April 28. Wildflower Brunch event at the Clear Lake State Park. Presenting outreach materials and talking to the public about the Dreissenid mussel prevention program.

• April 30-May 4. Attended the National Water Monitoring Conference, Portland Oregon. Presenting a poster on Clear Lake and the last three years of cyanobacteria blooms.

• May 5. Heron Days event, Redbud Park, Clearlake. Presenting outreach materials and talking to the public about the Dreissenid mussel prevention program.

• May 8. Training a Dreissenid mussel volunteer to engage the public in mussel prevention conversation.

• May 14-15. Training 27 citizens as Dreissenid mussel vessel inspectors.

• May 17. Presentation to the students at Carle High School. Dreissenid mussel prevention program.

• May 18. Attended Clearlake Oaks Catfish Derby to educate fishermen and women about Lake County’s Dreissenid mussel prevention program.

• May 18. Presented a Dreissenid mussel prevention display at the business owners event in Kelseyville.

• May 24. Training State hydrilla team about the Dreissenid mussel prevention program on Clear Lake.

• May 29. Presentation to the Clearlake Rotary. Dreissenid mussel prevention program.

• May 30. Set up Dreissenid mussel prevention program display at the Lakeport Library to run through the month of June. Included plenty of outreach materials to be taken by the public.

• May 31. Presented a Dreissenid mussel prevention display at the Kelseyville Elementary School Science Fair in Kelseyville.

• June 1. Training a participant, Clear Lake State Park employees, to screen boats for risk of transporting Dreissenid mussels to Clear Lake.

• June 2. Attended Lakeport Carp Shoot to educate fishermen and women about Lake County’s Dreissenid mussel prevention program.

• June 8. Training State hydrilla team, new employees, about the Dreissenid mussel prevention program on Clear Lake.

• June 13. Training a participant, Glenhaven Beach Resort, to screen boats for risk of transporting Dreissenid mussels to Clear Lake.

• June 20. Presentation to Lakeport Library patrons. Dreissenid mussel prevention program.
MIDDLETOWN, Calif. – Four elementary schools sent a total of 160 fourth graders to a natural setting by Putah Creek last Tuesday, May 8, for an “In the Creek Day” to learn about the environment and how to take care of it.

Coyote Valley Elementary sent three classes to the event, and Lake County International Charter School, Cobb and Minnie Cannon each sent one.

What these four schools have in common is that they all lie in the Upper Putah Creek watershed, which, as these children learned, is all the land from which water drains into Upper Putah Creek.

That’s the land that has been looked after by the Upper Putah Creek Stewardship (UPCS) since the nonprofit organization was formed in 1999.

Almost every year since then, it has organized In the Creek Day – a springtime event which gives children demonstrations of various aspects of the environment and how to be good stewards.

Organizers of the event in its early days included Helen Whitney, Bill Reed, Chris Simon and Dwight Hoford. After a one-year hiatus, Hoford saw to it that the tradition was re-instituted this year.

Educators were Jeff Tunnell of the Bureau of Land Management, who taught about fire safety; Kate O’Donnell and volunteer Joe Evans from the Natural Resources Conservation Service Lakeport office, who gave demonstrations related to soils; Larry Ray, president of the UPCS, who covered botany, Dean Enderlin, formerly chief geologist at the McLaughlin Mine, who led a creek side look at rocks; and Carrieann Lopez, an environmental scientist in the North Coast district of the State of California Water Board, who offered insights into sources of water pollution.
Naisy, Trinity and Lucas of Coyote Valley Elementary all liked the creekside geology with Dean Enderlin best.

"You got to look at different types, and look at crystals inside it," said Trinity about the rocks she found along the creek.

"I liked when we got to find rocks and he helped us identify them," said Lucas, adding that he also learned about "fire safety and pollution."

Naisy liked that she could "find our own rocks."

She learned that "there are three types of different rocks: igneous, sedimentary and metamorphic" and that important things to take care of in the environment are "water, soil, air."

The event took place along Putah Creek, just behind Middletown High's football field on property generously offered for the event by Michael Browning.
Dean Enderlin leads one of the three Coyote Valley classes present in an exploration of the rocks of Putah Creek on Tuesday, May 8, 2012. Photo by Ed Oswalt.

Cameron Graham of Minnie Cannon Elementary shows that wet clay soils can be rolled up into a worm-shape on Tuesday, May 8, 2012. He and his classmates discovered that can't be done with sandy soils. Photo by Ed Oswalt.
Kate O'Donnell of the Natural Resources Conservation Service demonstrates that water running off grass-covered soil is much cleaner than water running off bare soil on Tuesday, May 8, 2012. Photo by Ed Osweil.

Trackback(0)

TrackBack URI for this entry

Comments (0)

Subscribe to this comment's feed

Write comment

You must be logged in to post a comment. Please register if you do not have an account yet.
APPENDIX 2-4

Stormwater Drain Markers City of Lakeport, City of Clearlake, and County of Lake
NO DUMPING ON DRAINS TO LAKE
NOTES:

1. ALL METAL PARTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123.

2. CONCRETE SHALL TEST 3000 PSI AT 28 DAYS.

3. ALL REINFORCING SHALL BE 4" X 4" - 6-6 MESH.

4. WEIGHT OF UNIT COMPLETE = 1500± LBS. COVER ONLY = 100± LBS.

5. 3/4" GALVANIZED STEEL GUARD ROD FOR OPENINGS IN EXCESS OF 9".

6. BASE MAY BE PRECAST OR CAST IN PLACE TO SUIT.

7. PRECAST UNIT SHALL BE CENTRAL PRE-CAST 4AC OR APPROVED EQUAL.

SECTION A-A

PRE CAST CURB INLET

STD. NO. 303

NOTES:

1. SEE LAKE CO. STD. NO. 300 FOR DETAILS AND NOTES NOT SHOWN.

2. CATCH BASIN INLET MAY BE PRECAST OR CAST IN PLACE, AT CONTRACTOR’S OPTION. PRECAST INLET SHALL BE CENTRAL PRE-CAST PRODUCTS MODEL 601, OR APPROVED EQUAL. FOR DIKE LOCATIONS, PRECAST INLET SHALL BE CENTRAL PRE-CAST PRODUCTS MODEL 62, OR APPROVED EQUAL.

3. CATCH BASIN INLET MAY BE PRECAST OR CAST IN PLACE, AT CONTRACTOR’S OPTION. IF PRECAST, MEANS SHALL BE PROVIDED FOR ADJUSTMENTS IN THE FIELD TO MEET FINAL GRADE OF PAVING OR SURFACING. PRECAST BASE SHALL BE CENTRAL PRE-CAST PRODUCTS OR APPROVED EQUAL. CAST IN PLACE BASE SHALL BE REINFORCED WITH NO. 4 BARS AT 12" EACH WAY (E.W.), 1.5" CLEAR FROM INSIDE FACE OF WALL, AND SHALL BE CLASS 1 CONCRETE (6 SACK MIX). PROVIDE 48" MANHOLE BASE WHERE 'H' IS GREATER THAN 8' AND UP TO 12' USING SRCP REDUCER SLAB 48MH-1M OR APPROVED EQUAL. PROVIDE SEPARATE 60" MANHOLE WHERE DEPTH IS GREATER THAN 12'. 'H' IS THE DIFFERENCE IN ELEVATION BETWEEN THE OUTLET PIPE FLOW LINE AND THE NORMAL GUTTER GRADE LINE UNDEPRESSED AT THE CURB FACE.

4. ALL PRECAST MATERIALS SHALL BE GROUTED PER MANUFACTURER’S SPECIFICATIONS.

5. WALL THICKNESS, "T", SHALL BE 6" FOR DEPTHS UP TO 8' AND SHALL BE 8" FOR DEPTHS GREATER THAN 8'.
NOTES:
1. IF PIPE INTO OR OUT OF THE CATCH BASIN IS LARGER THAN 24" OR DEPTH 'H' IS GREATER THAN 3', USE LAKE CO. STD. NO. 301. 'H' IS THE DIFFERENCE IN ELEVATION BETWEEN THE OUTLET PIPE FLOW LINE AND THE NORMAL GUTTER GRADE LINE UNDEPRESSED AT THE CURB FACE.

2. CATCH BASIN BASE MAY BE PRECAST OR CAST IN PLACE, AT CONTRACTOR'S OPTION. IF PRECAST, MEANS SHALL BE PROVIDED FOR ADJUSTMENTS IN FIELD TO MEET FINAL GRADE OF PAVING OR SURFACING. PRECAST BASE SHALL BE CENTRAL PRE-CAST PRODUCTS MODEL 4A OR APPROVED EQUAL. CAST IN PLACE BASE SHALL BE REINFORCED WITH NO. 4 BARS AT 12" EACH WAY (E.W.), 1.5" CLEAR FROM INSIDE FACE OF WALL, AND SHALL BE CLASS I CONCRETE (6-SACK MIX).

3. ALL PRECAST MATERIALS SHALL BE GROUTED PER MANUFACTURER'S SPECIFICATIONS.

4. WALL THICKNESS, 'T', SHALL BE 6".

5. UPHILL GALLERY REQUIRED IF GUTTER SLOPE EXCEEDS 5% (SEE STD. 304)

SECTION A-A

PROVIDE CONCRETE COVER WITH CAST IRON FRAME RING, INCLUDING NPDES LOGO. CENTRAL PRE-CAST PRODUCTS CI-60 OR APPROVED EQUAL.

CURB CONFORM

TYPE "A" CATCH BASIN

STD. NO. 300

APPENDIX 2-5

Clean Water Program Brochures
By practicing pollution prevention habits, homeowners and businesses can keep common pollutants like pesticides, pet waste, grass trimmings and automotive fluids off the ground and out of water bodies. Adopt these healthy household and business habits, and help protect your local creeks and Clear Lake from stormwater pollution. Also, remember to share the habits with your neighbors and coworkers!!

Lake County is home to roughly 64,000 people, 1,150 businesses — and the largest natural freshwater lake within California. Residents rely on water bodies in Lake County for their main supply of drinking water as well as recreational activities including sightseeing, strolling on the lakeshore, skiing, boating and swimming. Water bodies also provide habitat for a large population of sport fish and wildlife.

What is stormwater?

Stormwater is rainfall that runs off roofs, roads and other surfaces, and flows untreated into ditches, creeks, rivers and lakes. This water can carry pollutants such as detergents, excess nutrients, trash and heavy metals to local water bodies. These pollutants can pose serious health risks to people, fish and wildlife.

Stormwater pollution is caused in two ways:
- Directly — when people pour or dump wastes into storm drains or water bodies
- Indirectly — when water flowing over streets, parking lots and yards carries pollutants (such as motor oil, fertilizers and pesticides) into underground pipes or ditches and ultimately into a water body

What is the difference between stormwater and wastewater?

STORMWATER is water from rainstorms that is moved through ditches or underground pipes to water bodies untreated. WASTEWATER is water from toilets, bathtubs and sinks that is treated by septic tanks or treatment plants.
... Free of Pollution!

Commercial and Industrial

Stormwater runoff from industrial and commercial businesses is one of the major contributors to stormwater pollution. All businesses can conduct common-sense practices that require modest changes to routine operations or maintenance activities to reduce or eliminate their contribution to stormwater pollution.

Residential

Whether you live next to a creek or miles from one, you may be polluting it unintentionally, because all land is part of a watershed. A watershed is the land that water flows over or through on its way to a creek or lake. Everyday activities such as gardening and washing your car can affect the quality of water in your watershed.
Be the solution! Follow the guidelines below to keep Clear Lake pollution free. Visit http://watershed.co.lake.ca.us/LCCWP/lccwp.html to learn more about stormwater pollution prevention.

Construction/Development
Stormwater runoff is part of a natural hydrologic process. However, land development can significantly alter natural drainage patterns, causing creeks to erode. Construction activities can pollute stormwater without proper sediment and erosion controls and effective building material management. Using best management practices at construction sites and low impact development (LID) techniques in development projects can reduce these impacts to water bodies.

Rangeland/Agriculture
Agriculture and livestock grazing can be diffuse sources of pollutants that reach Lake County water bodies. Unmanaged livestock grazing can contribute to increased sediment, heat, nutrient, or pathogen loading in water bodies. Agricultural runoff can carry nutrients, salts, pesticides, and fertilizers. Local Resource Conservation Districts (RCD) can provide ideas on cost effective management practices for rangeland and agricultural activities.
What is the Lake County Clean Water Program?

The Lake County Clean Water Program is comprised of local agencies that are required by the State of California to implement, promote and enforce stormwater pollution prevention practices in Lake County. The Program consists of three public agencies: the County of Lake, City of Clearlake and City of Lakeport. The overarching goal of the Program is to reduce pollutants from entering the stormwater drainage system and local water bodies through the effective implementation of stormwater pollution prevention activities outlined in its Stormwater Management Plan (SWMP).

<table>
<thead>
<tr>
<th>For more information on:</th>
<th>Lake County Environmental Health</th>
<th>(707) 263-1164</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spills or Septic Tanks</td>
<td>Lake County Public Services</td>
<td>(707) 263-1980</td>
</tr>
<tr>
<td>Recycling and Hazardous Materials Disposal</td>
<td></td>
<td><a href="http://www.recycling.co.lake.ca.us">www.recycling.co.lake.ca.us</a></td>
</tr>
</tbody>
</table>

**STORMWATER POLLUTION PREVENTION PRACTICES FOR:**

- Business and Industry
- Residents
- Construction Sites
- New Development

| City of Clearlake                               | (707) 994-8201                  | http://watershed.co.lake.ca.us/LCCWP/lccwp.html |
| City of Lakeport                                | (707) 263-5815                  |                                                  |
| Unincorporated County                           | (707) 263-2382                  | or (707) 263-2341                               |

| Livestock Grazing and Vineyards                 | East and West Lake Resource     | (707) 263-4180                                  |
|                                               | Conservation Districts          | www.epa.gov/owow/nps                            |

| Lawn and Garden Care                            | University of California        | (707) 263-6838                                  |
|                                               | Cooperative Extension           | www.ipm.ucdavis.edu                             |

April 2007
Lake County Clean Water Program

Lake County Clean Water Program

Concrete, in its natural state, is a shiny, slippery material. When properly mixed and applied, it forms a durable, impermeable barrier that prevents water from seeping through it. This barrier is particularly important in areas prone to flooding, as it helps to prevent erosion and soil loss.

Concrete is also a valuable resource, as it can be recycled and reused in various applications. For example, concrete can be used to build new structures, repair existing structures, and even create new pathways or roads.

Concrete is a highly versatile material, capable of being cast into any shape or form. It can be shaped into boulders, walls, or even entire buildings, making it a popular choice for construction projects.

Concrete is not only strong and durable, but it is also environmentally friendly. It is made from materials that are naturally occurring and are readily available, making it a sustainable choice for construction.

Concrete is a valuable material that is used in a variety of applications, from construction to landscaping. Its strength, durability, and versatility make it a popular choice for projects of all sizes.

The Water You Drink and The Health of Our Lake Affect Improper Clean Up and Disposal Concrete Waste

Concrete waste can be hazardous if not handled properly. Concrete waste can contain harmful chemicals and heavy metals that can leach into the environment, posing a risk to human health and the environment.

Proper disposal of concrete waste is important to prevent pollution and protect the health of our lakes and waterways. Concrete waste should be disposed of in a regulated manner, such as through a licensed hauler or by following local regulations.

Concrete waste can also be recycled, reducing the amount of waste sent to landfills and saving resources. Concrete waste can be crushed and reused as aggregate, providing a sustainable alternative to new concrete.

Concrete waste is a valuable resource that can be recycled and reused, reducing the amount of waste sent to landfills and saving resources. Concrete waste can be crushed and used as aggregate, providing a sustainable alternative to new concrete.

Concrete waste can also be used to create new structures or to repair existing structures, reducing the need for new construction and saving resources.

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Concrete waste can also be used to create new structures or to repair existing structures, reducing the need for new construction and saving resources.
Lake County Clean Water Program

Best Management Practices (BMP)

City of Clearlake
(707) 994-8201
City of Lakeport
(707) 263-3382
County of Lake
(707) 994-0004

For more Information:

Lake County Clean Water Program

www.lakecounty.wa.gov/environmentalprotection

Best Management Practices Handbook

To Report Illegal Discharges:

City of Clearlake
(707) 994-8201
City of Lakeport
(707) 263-3382
County of Lake
(707) 994-0004

City of Clearlake
(707) 994-8201
City of Lakeport
(707) 263-3382
County of Lake
(707) 994-0004

If you handle, store, and dispose of hazardous materials, you can prevent pollution.

Basic Concepts to Remember:

Try to schedule projects for dry weather.

Options:

- Call your local disposal facility; ask if your project is acceptable for disposal.
- If the project is acceptable, schedule your disposal.
- If you are unsure, schedule your disposal while you are on site.

Use proper techniques to minimize risk.

The Correct Things to do are:

- Remove and dispose of hazardous materials properly.
- When hazardous materials are no longer needed, they should be removed. If hazardous material is removed, the removed contents should be stored.

Please note that this document contains information about water quality and pollution prevention measures in Lake County, California. It provides contact information for reporting illegal discharges and includes a section on basic concepts to remember regarding hazardous materials and pollution prevention.
Pressurized washers

Proper disposal of wastewater

The responsible person shall ensure that the equipment is used in the following manner:

1. The equipment must be in good condition and clean.
2. The equipment must be stored in a secure location.
3. The equipment must be labeled with instructions and safety warnings.
4. The equipment must be operated by trained personnel.

The responsible person shall also ensure that:

1. The equipment is maintained in good working order.
2. The equipment is cleaned after each use.
3. The equipment is not used for purposes other than those for which it was designed.
4. The equipment is not modified without approval.

If the equipment is not used or maintained properly, it may be subject to damage or malfunction.

Equipment cleaning

1. Clean equipment regularly to maintain its efficiency.
2. Clean equipment before and after each use.
3. Clean equipment after it has cooled down.
4. Clean equipment after it has been exposed to chemicals.

If the equipment is not cleaned properly, it may be subject to damage or malfunction.

Spillage

1. Spillage should be contained and disposed of properly.
2. Spillage should be disposed of in a designated area.
3. Spillage should be disposed of in a manner consistent with local regulations.
4. Spillage should be disposed of in a way that minimizes environmental impact.

If spillage is not contained properly, it may be subject to damage or pollution.

Mop buckets and mops

1. Mop buckets and mops should be stored properly.
2. Mop buckets and mops should be cleaned regularly.
3. Mop buckets and mops should be sanitized regularly.
4. Mop buckets and mops should be labeled with instructions and safety warnings.

If mop buckets and mops are not stored or cleaned properly, they may be subject to damage or pollution.

SANITARY SEWERS

1. Sanitary sewers are used to transport waste water from the building to the sewage treatment plant.
2. Sanitary sewers should be used for the transport of waste water only.
3. Sanitary sewers should be cleaned regularly to maintain their efficiency.
4. Sanitary sewers should be maintained in good working order.

If sanitary sewers are not used properly, they may be subject to damage or pollution.

WATER POLLUTION SOLUTIONS

1. Water pollution can be minimized by implementing proper waste water management practices.
2. Water pollution can be prevented by implementing proper waste water management practices.
3. Water pollution can be reduced by implementing proper waste water management practices.
4. Water pollution can be eliminated by implementing proper waste water management practices.

If water pollution is not minimized properly, it may be subject to damage or pollution.

STORM SEWERS

1. Storm sewers are used to transport rainwater from the building to the drainage system.
2. Storm sewers should be used for the transport of rainwater only.
3. Storm sewers should be cleaned regularly to maintain their efficiency.
4. Storm sewers should be maintained in good working order.

If storm sewers are not used properly, they may be subject to damage or pollution.

If water pollution is not minimized properly, it may be subject to damage or pollution.
Who is the Lake County Clean Water Program?

The Lake County Clean Water Program (Program) is a consortium of local agencies that are required by the State Water Resources Control Board to implement, promote and enforce stormwater pollution prevention practices in Lake County. The Program consists of three (3) public agencies: the County of Lake, City of Clearlake and City of Lakeport. The overarching goal of the Program is to reduce pollutants from entering the stormwater conveyance system and local water bodies through the effective implementation of stormwater pollution prevention activities.

For more information on:

<table>
<thead>
<tr>
<th>Lawn and Garden Care</th>
<th>University of California Cooperative Extension: (707) 263-6838</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spills or Septic Systems</td>
<td>Lake County Environmental Health: (707) 263-8929 or (707) 994-2257</td>
</tr>
<tr>
<td>Recycling and Hazardous Materials Disposal</td>
<td>Lake County Public Services: (707) 263-1980</td>
</tr>
<tr>
<td>Stormwater Pollution Prevention Practices for:</td>
<td>City of Lakeport: (707) 263-5613</td>
</tr>
<tr>
<td>• Businesses and Industry</td>
<td>City of Clearlake: (707) 994-8201</td>
</tr>
<tr>
<td>• Residents</td>
<td>Unincorporated County: (707) 263-2341 or (707) 994-4828</td>
</tr>
</tbody>
</table>

What is stormwater runoff?

A large majority of all precipitation that hits the ground in Lake County is eventually transported to a waterbody (untreated) through stormwater runoff. Stormwater runoff occurs when rainwater hits surfaces like streets, parking lots and roofs and travels through gutters, storm drains, creeks and eventually into the main source of our drinking water, Clear Lake.

Why is stormwater runoff a problem?

Stormwater pollution is caused in two ways: (1) directly, when individuals pour pollutants into storm drains or water bodies; and (2) indirectly, when water flowing over streets, parking lots and yards carries contaminants such as motor oil and pesticides, into the storm drain system.

What are the effects of stormwater pollution?

Stormwater pollution can pose a serious health risk to people due to bacteria and chemicals that are washed from our streets into waterbodies via storm water runoff. For example, water quality in Clear Lake is currently impaired by mercury and excess nutrients. A potential source of these pollutants is stormwater runoff.
SOLUTIONS TO STORMWATER POLLUTION

By practicing pollution prevention habits, homeowners and businesses can keep common pollutants like pesticides, pet waste, grass trimmings and automotive fluids off the ground and out of stormwater. Adopt these healthy household and business habits and help protect your local creek and Clear Lake from stormwater pollution. Also, remember to share the habits with your neighbors and co-workers!!

RESIDENTIAL

Lawn and Garden Care
Excess fertilizers and pesticides applied to lawns and gardens wash off and pollute streams and lakes. In addition, yard trimmings and leaves can wash into storm drains and contribute excess nutrients to streams and lakes.

- Find alternative ways to control pests inside and outside your home, without using toxic chemical pesticides. If you do use pesticides, use them sparingly. Do not use them outside if rain is forecast within 24 hours.
- Pick up leaves and yard clippings and recycle as green waste.
- Take left over pesticides to your local household waste collection facility.

Automotive Care
Washing your car and degreasing parts at home can send detergents and other pollutants into the storm sewer system. Dumping automobile fluids into storm drains has the same result as dumping the materials directly into a waterbody.

- Take your car to a commercial care wash that treats or recycles washwater, or wash your care on your yard so that water seeps into the ground.
- If you change your oil, recycle the waste oil at your local household hazardous waste collection facility. Never pour oil or other automotive fluids into a storm drain or onto the ground.
- Use kitty litter or other absorbent materials—not your hose—to clean up spills and leaks on paved surfaces.

Around the House
Household products and trash can kill fish and wildlife if not disposed of properly.

- Rinse latex paint brushes, pans and rollers in the sink. Filter and reuse oil-based paint thinner or brush cleaners.
- Take leftover latex and oil based solvents to your local household hazardous waste collection facility.
- Clean up trash outside your home.

Septic Systems
Leaking or poorly maintained septic systems can release nutrients and pathogens (bacteria and viruses) that can be picked up by stormwater and discharged into nearby waterbodies.

- Inspect your system every 3 years or pump your tank as necessary (every 3-5 years).
- Never dispose of household hazardous waste in the sink or toilet.

BUSINESSES

Dirt, oil and debris that collect in parking lots and paved areas can be washed into the storm sewer systems and eventually enter local waterbodies.

- Sweep up litter and debris from sidewalks, driveways and parking lots, especially around storm drains.
- Cover grease storage bins and dumpsters to avoid contact with rainwater.
- Dump mop water in a sink, not in the street or in a storm drain.
APPENDIX 2-6

Public Street Clean Up Day

Creek Clean Up Day

PEOP/PIP Workgroup Activity Summary
Downtown Lakeport Clean Up Day
May 19, 2012
More than 150 performers acted in the Passion Play last weekend. Mounted Roman soldiers swept across the 1,000-square-foot stage. ABOVE: Jesus being taken down from the cross. BELOW: Jesus and disciples in garden of Gethsemane. The annual outdoor presentation of the portray the passion, death, resurrection and ascension of Jesus Christ. The Passion Play grounds are located at 7010 Westlake Road in Upper Lake off of Highway 29, about seven miles north of Lakeport. The play featured performances on both Saturday and Sunday afternoon. A mainstay in Lake County, the play has been performed for more than 30 years.

Lakeport Clean Up Day was held Saturday from 7 to 10 a.m. Approximately 60 people came to pull weeds, sweep, pick up trash, wash windows and clean trash cans on downtown Main Street from Armstrong to Sixth Street as well the side blocks between Forbes and Park streets. Many who came were people who wanted to give their time as a way of showing pride in the community. Many represented groups that shared the same motivation. Among the groups were Mendocino Lake Alternative Services headed by Tom Engstrom, Oscar Dominguez’s biology class from Clear Lake High School, the Kelseyville Interact Club coordinated by Laura Loumena, and Nancy Ruzicka. The Lakeport Fire protection District washed down the streets and Lakeport Disposal provided trash receptacles. Clean Up Day was sponsored by the Lakeport Main Street Association and organized by Terri Persons, an LMSA Design Committee volunteer. Bruno’s Smart Shop provided doughnuts and Angelina’s Bakery provided coffee. Pictured above: Volunteers. Below left: Melissa Thibeau, a freshman at Clear Lake High School.
Lake County Clean Water Program

PEOP/PIP Activity Report Form

Please complete this form in its entirety to report each storm-water related activity in which you were involved.

All fields are required

Contact Information

Name: Andrew Britton
Email: abritton@cityoflakeport.co
Position within Workgroup: Volunteer, Business Owner, Elected Official, City/County Employee

Activity Description

Type: (select all that apply)
- Informational
- Outreach
- Cleanup
- Coordination

Jurisdiction:
- County (unincorporated)
- City of Lakeport
- City of Clearlake

Location (venue):
Downtown Lakeport

Activity Date: 5/19/12

Please briefly describe the activity in which you were involved:
Downtown merchants, property owners, City employees and local residents participated in the annual Downtown Clean Up Day on May 19, 2012. Storefronts and sidewalks cleaned and a variety of trash removed from street and gutter areas-- trash, cigarette butts, debris, silt accumulations near storm drain inlets, etc. Approximately 40 cubic feet of materials were disposed of. They would have been deposited in Clear Lake without the
About 140 people came together Saturday to assist in a volunteer, citywide clean-up effort that reached several areas of the city including Austin Park, Redbud Park, the Eastlake Drive area, Lakeshore and Olympic drives, Burns Valley Creek and Anderson Marsh. The effort was led by the City of Clearlake Public Works Department.
A group of volunteers direct their attention on the wooded area along Eastlake Drive just west of Pomo school during Saturday's clean-up effort.

Members of the Church of the Latter Day Saints re-stripe the parking area at Redbud Park during the clean up.

LEFT: Volunteers of all ages joined in Saturday's Annual Clearlake Clean Up Day. The event was an opportunity for neighbors, families, friends and area organizations to unite in a group effort to keep the city clean.

ROBINSON RANCHERIA
RESORT, CASINO & BINGO

GRAN DÍA DE FIESTA MAY 5TH 2012
CINCO DE MAYO
12:00pm-1:30am

LIVE DJ - FOOD VENDORS - PIÑATAS
BOUNCE HOUSE - RAFFLES
TISSUE FLOWER MAKING
JALAPENO EATING CONTEST
EVENTO FAMILIAR!

GRAN BATALLA DE GRUPOS
August 15, 2012

To: Lake County Clean Water Program (LCCWP) Advisory Council
   LCCWP Implementation Team
Cc: LCCWP Public Education & Outreach and Public Involvement & Participation (PEO/PIP) Work Group members and friends
From: LCCWP PEO/PIP Work Group Chair
Subject: Work Group Report for NPDES Phase II Small Municipal Separate Storm Sewer System (Storm Water Management) Permit -- September 15, 2012

Lake County’s Clean Water Program PEO/PIP work group participated in the following events and activities in reporting year 9/15/2011 to 9/15/2012:

- **2011-2012 NPDES Phase II Small MS4 permit draft review**: Chair attended CASQA teleconference meetings (February 22, March 21, April 18, May 16, June 20 and 25, and July 10) with State Water Boards Office of Enforcement permit authors and over 140 California municipalities; provided updates to LCCWP Implementation Team and PEO/PIP Work Group Members. Provided updates on permit conditions, status, and municipal/state issues to all co-permittee staff and Implementation Team members. Final (2nd Draft) permit comments letters posted by the State Water Boards at:
  

- **2012 Earth Day Event, Upper Lake Earth Day (April 20)** — Provided organization support and presentation participation along with Lake County Office of Education, Mendocino National Forest, Lake County Watershed Protection District to several hundred high school students.

- Joined **Advisory Council for Upper Lake High School’s “Alternative Energy and Sustainable Agriculture Academy”** and met with lead teachers in Biology and Agriculture/Forestry Programs to provide public outreach and education resources for incorporation of Clean Water Act environmental protection programs, including watershed protection and water quality improvement, for implementation of the Lake County Clean Water Program permit goals and objectives. ULHS lead teachers have received California Environmental Education Initiative training (CEEI recommended by Draft 2 NPDES permit sections).

- Supported City of **Clearlake Annual Clean-Up Day**, April 28, 2012 (outreach to work group member organizations) -- see report from City of Clearlake CWP.

- **Video program series** produced by work group member Jo Bennett -- “Lake County Views” included interviews with Special Districts Director Mark Dellinger at the Southeast Wastewater Treatment Plant, Lake County Invasive Species Coordinator Carolyn Ruttan explaining watershed and stormwater impacts to Clear Lake for students from Lower Lake High School, tour of Calpine geothermal steam fields (recipient of transported treated effluent from Lake
County Waste Water System) for 17 home-schooled students, and two present-
tations by Taylor Observatory and Planetarium Director (one at Redbud Library).

Note: Videographic services donated by Velocity Video, with special thanks.

- Continuous updating input to **Clean Water Program webpages** (County of Lake
  and City of Lakeport; City of Clearlake does not provide a web resource --
  however, see last bulleted item, below) -- too numerous to list; implementation
  status report from web manager/resource controller TBD.

- Participation in teleconference outreach and education guideline planning
  discussions with State Water Boards staff for **2013 California Water Plan** (two
  teleconferences), continuing interaction with Regional program scientists and
  NPDES management staff regarding education and outreach to implement
  Clean Water Act programs.

- Participation in **Clear Lake Advisory Committee** studies of water management
  issues in the Upper Cache Creek Watershed; provided education and outreach
  resources for member organizations (City of Clearlake, City of Lakeport, Lake
  County Chamber of Commerce, Big Valley Tribe of Pomo Indians, Habematoletel
  Tribe of Pomo Indians, and Robinson Rancheria -- and see last bulleted item,
  below). Updated all member organizations regarding status of NPDES permits
  affecting lake management, education and outreach program progress, and
  opportunities to provide program support.

- Provided support to the **City of Clearlake** (severely disadvantaged community) to
  participate in the **“Westside Integrated Regional Water Management”** plan
  process -- to submit project proposal that implements NPDES Storm Water
  Management permit requirements, supports Clear Lake nutrient TMDL program,
  and increases public education and outreach through project implementation
  definitions and scopes of work for future implementation grant applications.

- Incorporated **Clear Lake Chamber of Commerce** as public education and outreach
  work group member and service provider to City of Clearlake and Greater Lake
  County Chamber of Commerce social media network participants (as of August 12,
  2012). CLCC has created PEO/PIP web presence for largest demographic
  population in Lake County, and participated in August 2012 Emergency Response
  Operations System supporting continuous media updating for local information
  services. This network has proven its capacity to provide education and outreach
  in disaster management and stands ready to provide both permit compliance and
  disaster prevention services.

Respectfully submitted,

Betsy Cawn
*The Essential Public Information Center*
Upper Lake, CA
707-275-9376
eni-center@sbcglobal.net
APPENDIX 3-1

Advisory Council Meeting Agendas & Minutes
Meeting Agenda

2:00 p.m.

1. Updates Concerning Activities of the Workgroups during Past 2 Months
   Workgroup Chairpersons

2. Roundtable discussion to identify current water monitoring efforts in Lake County that are conducted by various organizations.

3. General Discussion Concerning Content and Outline for Annual Report due by September 15, 2011 Advisory Council Members

4. Open Public Comment Period
   For public comment on items not appearing on today’s agenda.

5. Review of Outcomes and Agree on Next Steps
   Agenda Items for Next Meeting
   Action Items Arising from this Meeting
   Next meeting to review Draft Annual Report (late August)

6. Adjournment
   Rob Brown – Advisory Council Chairperson
Meeting Agenda

2:00 p.m.

1. Review and Approve Draft Meeting Minutes from May 18th Meeting

2. Updates Concerning Activities of the Workgroups
   Workgroup Chairpersons

3. Consideration of Appointment of new Chairperson to PEOP & PIP Workgroup

4. Consideration of Appointment of new Chairperson to IDDE & MUNI Workgroup

5. Discuss and Consider Transfer of County Clean Water Program Administration from Community Development Department to Department of Public Works, Water Resources Division and Authorize Staff to Develop a Transition Plan
   Advisory Council Members

6. Open Public Comment Period
   For public comment on items not appearing on today’s agenda.

7. Review of Outcomes and Agree on Next Steps
   Agenda Items for Next Meeting
   Action Items Arising from this Meeting
   Next meeting to review Draft Annual Report (late August)

8. Adjournment
   Rob Brown – Advisory Council Chairperson
Meeting Summary
Lake County Clean Water Program Advisory Council
Wednesday, October 26, 2011
Board of Supervisors Chambers
255 N. Forbes Street
Lakeport, CA

Council Members - Attendance:
County of Lake:
   Rob Brown, Supervisor District V (VM) – Chair
   Richard Coel, Community Development Director (SWPC) (VM)
City of Clearlake
   Bob Galusha, City Engineer (SWPC) (VM)
City of Lakeport
   Andrew Britton, Planning Services Manager
   Suzanne Lyons, City Council (AM)
Others present:
   Jeff Smith, Supervisor District II, Scott DeLeon, Lake County Public Works Director, Gary Hansen, LC Water Resources Engineer, Steve Stangland, LC DPW, Dave Jezek, LC Chief Building Official, Will Evans, Asst. Resource Planner, Danae Bowen, LC CDD and Betsy Cawn, LC Resident

2:05 p.m.

CALL TO ORDER
Rob Brown, Supervisor District V, called the meeting to order at 9:00 a.m. and announced that he would have to leave the meeting at 2:30.

Discuss and Consider Transfer of County Clean Water Program Administration from Community Development Department to Department of Public Works, Water Resources Division and Authorize Staff to Develop a Transition Plan

Richard Coel, LC CDD Director, spoke to the transitioning of this program to the Department of Public Works, Water Resources Division, which will take place sometime in 2012. He advised that there be a formal discussion with the Council to make sure all are in agreement, before it is taken to the Board of Supervisors. He said he has a list of reasons why it is not appropriate that the entirety of this program be administered by the Community Development Department, but he strongly believed that the Community Development Department should retain ownership of the Construction and Post-Construction portions for the County and to continue to write those chapters and draft those sections then forward them to the Water Resources Division for the Annual Report.

Supervisor Brown spoke to the forming and history of this committee, which dealt more with grading ordinance issues and pointed out that there was not a Water Resources Division when the committee was formed. He said if the Advisory Council agrees, then this may be the direction this program needs to go and the Board of Supervisors will have to make sure that resources are available. He felt that the Department of Public Works is a better fit for this program.

Scott De Leon, LC DPW Director, commented that the Annual Report being prepared by the Water Resources Department makes better sense than the Community Development Department. He said there are funding and personnel issues that they will need time to work out. He agreed that this will need to be a group department effort, especially with changes on site specific requirements.

Dave Jezek, LC Chief Building Official, pointed out that there is more Public Works activity than you think involved with Construction and Post-Construction, because of road repair and rebuilding.
Mr. De Leon said there will be challenges to work through and address new requirements in the transition period.

Mr. Coel suggested keeping the LC Chief Building Official as the Chairperson of the Construction and Post-Construction working group. He said the Community Development Department is happy to continue to commit to that, if it is the will of the Advisory Council.

 Supervisor Brown said the bottom line is the testing, monitoring and protection of the lake.

Suzanne Lyons, City of Lakeport, thought that it made sense for this program to be transitioned to the Water Resources Division.

Bob Galusha, City of Clearlake, said that the transition sounds logical to him and noted that there will be a learning curve.

Mr. Coel said the transition will be a process and both the Community Development and Public Works Departments will be side by side putting together the annual report.

Betsy Cawn, LC Citizen, asked that the Committee utilize public participation in developing outreach and education in public involvement.

Bob Galusha moved, 2nd by Andrew Britton to TRANSFER COUNTY CLEAN WATER PROGRAM ADMINISTRATION FROM COMMUNITY DEVELOPMENT DEPARTMENT TO DEPARTMENT OF PUBLIC WORKS, WATER RESOURCES DIVISION AND AUTHORIZE STAFF TO DEVELOP A TRANSITION PLAN. (All were in favor).

Review and Approve Draft Meeting Minutes from May 18th Meeting

Andrew Britton moved, 2nd by Bob Galusha to APPROVE THE MINUTES OF MAY 18, 2011. (All were in favor).

Updates Concerning Activities of the Workgroups

Ms. Lyons noted that there was a change in staff from Dan Buffalo to Andrew Britton on the Public Education, Outreach and Participation workgroup. She said that cleanups and radio outreach have been accomplished, but have not been reported. She hoped that these things can be documented as they happen.

Mr. Coel suggested keeping a log of what is being done and report at the quarterly Clean Water Council meetings, so that it can be included in the minutes. He said from his perspective, he would like to see the Chairperson to the PEOP & PIP Workgroup be a representative from one of the cities or a volunteer.

Betsy Cawn, member of the Clearlake Advisory Committee, stated that she has been an outreach volunteer for this committee since July 2009. She said she is happy to volunteer as the Chairperson to the PEOP & PIP Workgroup.

Ms. Lyons felt that the outreach committee is very important, and again shared her concerns that it is not being effectively recorded.

Mr. Coel said that the task for the Chairperson is to coordinate the meetings, preferably on the same day as the Advisory Council meetings. He said there are not any resources for website development or enhancement, because there are staffing issues. He said they need someone who is dynamic and knows what the issues are and can get out, collect data and report back to this group.
Ms. Lyons said that there needs to be a report that shows that things are getting done and people knowing what they should or shouldn’t be doing in regards to the lake. She said information needs to be out to the people.

Andrew Britton moved, 2nd by Bob Galusha to NOMINATE BETSY CAWN AS THE CHAIRPERSON OF THE PEOP & PIP WORKGROUP. (All were in favor).

Consideration of Appointment of new Chairperson to IDDE & MUNI Workgroup.

Steve Stangland, LC DPW Road Superintendent, said that he did not have a problem with continuing as the Chairperson to the MUNI Workgroup, but he said he has never done anything with the Illicit Discharge Detection and Elimination (IDDE) portion of it, because it is so far out of his job purview and it does not fit in well with the MUNI side of it. He said he did not know where to begin with the IDDE.

Mr. Jezek said that IDDE does not have anything to do with him or the people he represents. He also said he would not know where to begin.

Mr. Stangland said the IDDE seems more like enforcement than it does from the Municipal Public Works side of it.

Mr. Jezek said he does building inspections, not water resources enforcement.

Mr. DeLeon asked if there any one in the County that does enforcement for water quality issues.

Mr. Coel said that the Community Development Department does grading enforcement. He suggested involving Ray Ruminski, Environmental Health and Mark Dillinger, Special Districts into the IDDE workshops. He agreed that the IDDE portion needs to have its own workshop and said that a meeting should be coordinated with these two gentlemen to educate them on the issues and give them information about what is working and what the requirements are, so that they have some role in this and to come back at the next meeting with an agenda item to discuss the possibility of setting up a fourth working group and separating IDDE and MUNI and getting a representative from one of those agencies to be the Chairperson.

Open Public Comment Period

Betsy Cawn discussed the Storm Water Management Plan.

Review of Outcomes and Agree on Next Steps
Agenda item with IDDE – MUNI issues.
Next meeting date - 3rd Wednesday in January 2012 @2p.m.

Adjournment – 3:05 p.m.

Respectfully Submitted,
Danae Bowen
LC CDD, OA III
Lake County Clean Water Program Advisory Council  
Wednesday, February 22, 2012; 2:00 p.m.  
Lake County Courthouse; BOS Chambers  
255 N. Forbes Street, Lakeport, CA

Meeting Agenda

2:00 p.m. Call Meeting to Order – Rob Brown – Advisory Council Chairperson

1. Review and Approve Draft Meeting Minutes from October 26th Meeting

2. Discuss status of Municipal Stormwater permit and latest developments concerning draft Phase 2 permit.

3. Discussion concerning annual permit fee imposed by the Regional Board, and local cost allocation between the three jurisdictions.

4. Discuss long term program funding possibilities, including:
   a. grant funding
   b. a surcharge on grading permits and/or certain building permits for new developments
   c. stormwater utility assessment fee charged for impervious surfaces

5. Updates from workgroup chairs concerning recent activities

6. General discussion concerning Illicit Discharge, Detection and Elimination BMPs and procedures

7. Staff update concerning Program Website

8. Staff update concerning transitioning the County Clean Water Program Administration from Community Development Department to Department of Public Works, Water Resources Division.

9. Open Public Comment Period
   For public comment on items not appearing on today’s agenda.

10. Review of Outcomes and Agree on Next Steps
    a. Agenda Items for Next Meeting
    b. Action Items Arising from this Meeting
    c. Next meeting to review Draft Annual Report (late August)

11. Adjournment
    Rob Brown – Advisory Council Chairperson
Meeting Agenda

9:00 a.m. Call Meeting to Order – Rob Brown – Advisory Council Chairperson

1. Review and Approve Draft Meeting Minutes from February 22nd Meeting

2. Discuss status of Municipal Stormwater permit and latest developments concerning draft Phase 2 permit. Will Evans

3. General Discussion Concerning Program Activities and Accomplishments, and Content for Annual Report due by September 15, 2012

4. Staff update concerning future transition of the County Clean Water Program Administration from Community Development Department to Department of Public Works, Water Resources Division. Richard Coel

5. Open Public Comment Period
   For public comment on items not appearing on today’s agenda.

6. Review of Outcomes and Agree on Next Steps
   a. Agenda Items for Next Meeting
   b. Action Items Arising from this Meeting
   c. Next meeting to review Draft Annual Report (late August)

7. Adjournment
   Rob Brown – Advisory Council Chairperson
APPENDIX 3-2

Online Stormwater Issue Report Form
Lake County Clean Water Program
Storm Water Issue Report Form

Please complete this form in its entirety to report a storm water issue. You may submit it electronically by clicking on the button labelled, "Submit by E-Mail," or by mailing it via US Postal Service by clicking on the button labelled, "Print Form."

Contact Information

Name: _____________________________________________

Telephone Number: _________________________________ Best time to call:  ○ Morning  ○ Early afternoon  ○ Late afternoon

E-Mail Address: ___________________________________

Storm Water Issue Location

Jurisdiction
○ County (unincorporated)  ○ City of Lakeport  ○ City of Clearlake

[In what part of the county is this storm water issue located (i.e., unincorporated, City of Lakeport, or City of Clearlake)?]

Street Location or Address: ______________________________________________

City (mailing): _________________________________________________________

Nearest Cross Street: ___________________________________________________

Please describe the storm water issue you're reporting:

_____________________________________________________________________
_____________________________________________________________________

City of Lakeport  County of Lake  City of Clearlake
APPENDIX 3-4

Storm Water Program Awareness Survey
Storm Water Program Awareness Survey

Thank you for your spending a few moments to complete this survey. The purpose is to gauge the level of public awareness of storm water issues so that we may find more effective ways of educating the community and enhancing the health and beauty of Clear Lake.

You may submit this form by Email or print it and mail it to the address listed to the right.

Date: 

Your Name: (optional) 

City: 

Zip/Postal Code: 

Email: (optional) 

Questions

1. Are you aware of the Lake County Clean Water Program, its participants and purpose?
   ○ Yes  ○ No  ○ I’ve heard of it but don’t know any details

1a. If so, how did you learn of the program?
   ○ Word of Mouth  ○ Newspaper  ○ Government Employee  ○ Internet  ○ Other

   If other, please describe: 

2. Are you aware of what your city or the County does to manage storm water runoff to Clear Lake?
   ○ Yes  ○ No

3. How aware would you say you are of the effects of storm water runoff on local creeks, streams, and Clear Lake?
   ○ Very aware  ○ Somewhat aware  ○ Not aware

4. Where would you say storm water goes after a rain event or snow fall?
   ○ Into the storm sewer and is treated  ○ Into the sanitary sewer and is treated  ○ Into Clear Lake and is untreated

5. Do you know who to contact with questions related to storm water (for example, a local government agency, individual, or elected official)?
   ○ Yes  ○ No  ○ No, but I know how to find out

5a. If so, please list the name of that individual(s) or agency.

Lake County Clean Water Program
225 Park Street
Lakeport, CA
95453
Phone: 707-263-5615, ext. 30
Fax: 707-263-8584
www.cityoflakeport.com
6. Do you know where you can find information on storm water and the impact it has on Clear Lake?
   - Yes
   - No
   - No, but I know how to find it

7. Which of the following is a common pollutant in storm water?
   - Motor oil
   - Gasoline
   - Cement
   - Fertilizer
   - Animal waste
   - Solvents and household cleaners
   - All of the above

8. Have you seen "Keep the Hitch Smiling" slides at your local movie theater, often displayed before the start of the show?
   - Yes, I've seen that ad before
   - No, I've never seen it
   - I rarely or never go to the movies

9. Have you ever seen a flier, brochure, or information leaflet about storm water issues or the Lake County Clean Water Program?
   - Yes
   - No

10. How interested would you say you are in learning more about storm water management and what you can do to help keep Clear Lake as healthy as possible?
    - Very Interested
    - Somewhat Interested
    - Supportive of the effort but not interested

11. Would you like more information on how to keep pollutants out of storm water and out of Clear Lake?
    - Yes
    - No

11a. If so, what would be your preferred method of receiving it?
    - Email
    - US Mail
    - Newsletter
    - Brochures at City Hall or County Courthouse
    - City or County Website
    - Other
    - If other, please describe:

12. What specific questions might you have about storm water and what your local government agency is doing to better manage it?
APPENDIX 3-6

Online Workgroup Activity Forms
Lake County Clean Water Program
PEOP/PIP ACTIVITY REPORT FORM

Please complete this form in its entirety to report each storm water-related activity in which you were involved. You may submit it via US Postal Service by clicking on the button labelled, "Print Form." You may also submit it at the next regularly scheduled PEOP/PIP Workgroup meeting.

Contact Information

Name: ________________________________

E-Mail Address: ________________________________

Position within Workgroup:

☐ Volunteer
☐ Business Owner
☐ Elected Official
☐ City/County Employee

Activity Description

Type (select all that apply):

☐ Informational
☐ Coordination
☐ Outreach
☐ Cleanup

Jurisdiction:

☐ City of Lakeport
☐ City of Clearlake
☐ County of Lake (unincorporated area)

Location (venue): ________________________________

Activity Date: ________________________________

(DD/MM/YYYY)

Please briefly describe the activity in which you were involved:

__________________________________________________________

__________________________________________________________
Lake County Clean Water Program

PEOP/PIP Activity Report Form

Please complete this form in its entirety to report each storm-water related activity in which you were involved.

All fields are required

Contact Information

Name: Suzanne Lyons
Email: dandylyons0057
Position within Workgroup:

- Volunteer
- Business Owner
- Elected Official
- City/County Employee

Activity Description

Type:
- Informational
- Outreach
- Cleanup
- Coordination

Jurisdiction:
- County (unincorporated)
- City of Lakeport
- City of Clearlake

Location (venue): Lakeport/Lake County

Activity Date: 12/28/2011

Please briefly describe the activity in which you were involved:

Discussion on local radio (KPEZ 88.1 FM) regarding sewer Inflow & Infiltration (I&I) and its impacts on Clear Lake. Discussed causes of I&I. Result of discussion: to partner with Lakeport sewer department in getting information about the cost (monetary and environmental) of I&I and how citizens can benefit themselves and the watershed by employing practices that keep contaminated water from entering Clear Lake.

Submit Report
Lake County Clean Water Program

PEOP/PIP Activity Report Form

Please complete this form in its entirety to report each storm-water related activity in which you were involved.

All fields are required

Contact Information

Name: Andrew Britton
Email: abritton@cityoflakeport.co
Position within Workgroup:
- Volunteer
- Business Owner
- Elected Official
- City/County Employee

Activity Description

Type: (select all that apply)
- Informational
- Outreach
- Cleanup
- Coordination

Jurisdiction:
- County (unincorporated)
- City of Lakeport
- City of Clearlake

Location (venue): Downtown Lakeport

Activity Date: 5/19/12

Please briefly describe the activity in which you were involved:

Downtown merchants, property owners, City employees and local residents participated in the annual Downtown Clean Up Day on May 19, 2012. Storefronts and sidewalks cleaned and a variety of trash removed from street and gutter areas-- trash, cigarette butts, debris, silt accumulations near storm drain inlets, etc. Approximately 40 cubic feet of materials were disposed of. They would have been deposited in Clear Lake without the
APPENDIX 4-1

CON/PCON Workgroup Meeting Agendas

City of Clearlake Resolution on Adopting Rules and Regulations
   Establishing Performance Requirements and BMPs

City of Lakeport Resolution on Adopting Rules and Regulations
   Establishing Performance Requirements and BMPs
Meeting Agenda

1:00 p.m.

1. Agenda and Introductions

2. Updates Concerning Construction Activities during Past 3 Months
   - Discuss this seasons Grading permits, potential violations and possible outcomes, etc.

3. General Discussion Concerning Content for Annual Report due by September 15, 2011

4. Review of outcomes and agree on next steps
   - Agenda Items for next meeting
   - Action Items arising from the Meeting
   - Schedule next meeting

5. Adjournment
Meeting Agenda

1:00 p.m.

I. Agenda and Introductions

2. Updates Concerning Construction Activities during Past 3 Months
   • Discuss this seasons Grading permits,
   • Discuss this seasons Public Works activities
   • potential violations and possible outcomes, etc.

3. General Discussion Concerning Content for Annual Report due by September 15, 2012

4. Review of outcomes and agree on next steps
   • Agenda Items for next meeting
   • Action Items arising from the Meeting
   • Schedule next meeting

5. Adjournment
DATE: June 28, 2007

TO: Honorable Mayor and City Councilmembers

FROM: Robert Galusha, Interim City Engineer

Through: Dale Neiman, City Administrator

SUBJECT: Consideration of Adopting Rules and Regulations Establishing Performance Requirements and Best Management Practices to Prevent or Minimize Discharge of Stormwater Pollutants and Water Quality Impacts; Resolution 32-2007

RECOMMENDED COUNCIL ACTION:

Motion to adopt Resolution No-32-2007 and to read it by title only. Roll call vote.

DISCUSSION:

On January 25, 2007 the City’s Stormwater Ordinance 126-2006 was duly enacted by the City Council. The City of Lakeport, and Lake County enacted similar ordinances as a requirement of our joint NPDES permit. The City’s Storm Water Ordinance was adopted to provide overall legal authority to implement and enforce the Lake County Water Management Plan. To implement the ordinance separate resolutions are required to be introduced and adopted by the City and the other co-permittees, identifying Best Management Practices (BMPs) to control and reduce erosion, pollution, or contamination of storm water, in the City’s Stormwater System, or waters of the State or the United States.

The California Stormwater Quality Association (CASQA) have developed Stormwater Best Management Practice Handbooks to assist entities, such as Clearlake, charged with Stormwater quality management responsibilities with the development and implementation of stormwater quality plans and programs. Under our Lake County Stormwater Management Plan the Cities of Clearlake, Lakeport, and Lake County have decided to adopt these CASQA handbooks to implement our storm water management programs. The handbooks are available in the City Engineer’s office for the City Council’s review. It is recommended that the CASQA handbooks listed in the attached resolution 32-2007 be adopted by the City Council.
RESOLUTION NO. 32-2007

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLEARLAKE ADOPTING
RULES AND REGULATIONS ESTABLISHING PERFORMANCE REQUIREMENTS
AND BEST MANAGEMENT PRACTICES (BMPs) TO PREVENT OR MINIMIZE
DISCHARGE OF STORMWATER POLLUTANTS AND WATER QUALITY IMPACTS

WHEREAS, the City of Clearlake is a co-permittee with the City of Lakeport and
Lake County under the National Pollutant Discharge Elimination System Program
(NPDES) under General Permit No. CAS000004, issued by the Regional Water Board;
and

WHEREAS, the City of Clearlake is a participant in the Lake County Clean Water
Program and has adopted the Lake County Clean Water Program Stormwater
Management Plan (SWMP); and

WHEREAS, the City of Clearlake adopted Ordinance 126-2006, adding Chapter
14 to the City of Clearlake Municipal Code regarding Storm Water Management; and

WHEREAS, Section 14.150A of the City of Clearlake Municipal Code requires
that the City Council shall adopt by Resolution requirements identifying BMPs for any
activity, operation, or facility, which may cause or contribute to pollution or contamination
of storm water, the storm drain system, or waters of the State or of the United States;
and

WHEREAS, Section 14.150B of the City of Clearlake Municipal Code requires
that the City Council shall adopt by Resolution requirements identifying appropriate
BMPs to control the volume, rate, flow-duration and potential pollutant load of storm
water runoff from new development and redevelopment projects that disturb one acre
(43,560 square feet) or more, including projects less than one acre that are part of a
larger common plan of development or sale, as may be appropriate to minimize the
generation, transport and discharge of pollutants or that may be needed to comply with
any successor permit or amendment to the Municipal Storm Water Permit; and
WHEREAS, Section 14.200 of the City of Clearlake Municipal Code requires that the City Council shall adopt by Resolution rules and regulations that establish performance requirements and requirements for BMPS to prevent or minimize the long term, post construction discharge of storm water pollutants and water quality impacts from new development or significant redevelopment projects that disturb one or more acres, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the City storm drainage system (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) and shall be consistent with the requirements of the Municipal Storm Water Permit or successor permit, and

WHEREAS, the City Council now desire to adopt such requirements to minimize to the Maximum Extent Practicable the unauthorized discharge of pollutants into the storm water, the storm drain system, or waters of the State or of the United States.

NOW, THEREFORE, CITY COUNCIL FINDS, DETERMINES, ORDERS AND HEREBY DECLARES AS FOLLOWS:

Section 1 The following Stormwater Best Management Practice Handbooks, including updates, amendments and successor versions of these handbooks, are hereby adopted for the maximum extent practicable selection, design and implementation of appropriate BMPs for any activity, operation, or facility, which may cause or contribute to pollution or contamination of storm water, the storm drain system, or waters of the State or of the United States; and to control the volume, rate, flow-duration, and potential pollutant load of stormwater runoff from any new development or significant redevelopment project disturbing one acre or more, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into
the County storm drainage system (including roads with drainage systems, municipal
streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains).

1 Stormwater Best Management Practice Handbook – Municipal; California
   Stormwater Quality Association- January 2003;

2 Stormwater Best Management Practice Handbook – Industrial and
   Commercial; California Stormwater Quality Association- January 2003;

3 Stormwater Best Management Practice Handbook – New Development
   and Redevelopment; California Stormwater Quality Association- January
   2003; and

4 Stormwater Best Management Practice Handbook – Construction;
   California Stormwater Quality Association- January 2003;

THIS RESOLUTION, was passed and adopted by the City Council of
City of Clearlake, State of California, at a regular meeting thereof on July 12, 2007, by
the following vote:

AYES: Mayor Judy Thein, Vice Mayor Curt Giambruno, Council Member Chuck
   Leonard, Council Member Joyce Overton, Council Member Roy Simons

NOES: None

ABSENT OR NOT VOTING: None

[Signature]
Mayor, City of Clearlake

ATTEST:                      [Signature]
City Clerk                   MELISSA SWANSON DEPUTY CITY CLERK

I HEREBY CERTIFY THIS TO BE A TRUE
AND CORRECT COPY OF THE ORIGINAL
DOCUMENT ON FILE IN THE OFFICE OF THE
CITY CLERK, CITY OF CLEARLAKE
RESOLUTION NO. 2272 (2006)

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF LAKEPORT
ADOPTING RULES AND REGULATIONS THAT ESTABLISH PERFORMANCE
REQUIREMENTS AND BEST MANAGEMENT PRACTICES TO PREVENT OR
MINIMIZE SHORT AND LONG-TERM DISCHARGE OF STORMWATER
POLLUTANTS AND WATER QUALITY IMPACTS

WHEREAS, the City of Lakeport is a co-permittee with the County of Lake and the City
of Clearlake under General Permit No. CAS 000004 under the National Pollutant Discharge
Elimination System Program (NPDES); and

WHEREAS, the City of Lakeport is a participant in the Lake County Clean Water
Program and has adopted the Stormwater Management Plan; and

WHEREAS, the City Council adopted Ordinance No. 853 (2006) adding Chapter 8.40 to
the Lakeport Municipal Code regarding Stormwater Management in June of 2006; and

WHEREAS, Article 3, Section 8.40.150 A., and B., and Section 8.40.200 A. of the
Lakeport Municipal Code requires that the City adopt by Resolution requirements that identify
appropriate Best Management Practices that, among other things, control the volume, rate, flow,
duration, and potential pollutant load of stormwater runoff from new development and
redevelopment projects, and that address activities, operations, or facilities which may cause or
contribute to pollution or contamination of stormwater, and that prevent and minimize the long-
term post-construction discharge of stormwater pollutants and water quality impacts from new
development or significant redevelopment projects.

NOW, THEREFORE, the Lakeport City Council does hereby adopt the following:

1. Stormwater Best Management Practice Handbook – Municipal; California
   Stormwater Quality Association – January 2003;

2. Stormwater Best Management Practice Handbook – Industrial and
   Commercial; California Stormwater Quality Association – January 2003;

   Redevelopment; California Stormwater Quality Association – January 2003; and

4. Stormwater Best Management Practice Handbook – Construction; California

It shall be the responsibility of Lakeport City staff, including Community Development
Department, City Engineer’s office, City Building Inspector, Public Works Superintendent,
Utilities Superintendent, and associated staff to implement and require conformance with the
Best Management Practices outlined in the above-titled handbooks.

All development projects, redevelopment projects, grading activities, construction projects,
municipal operations, industrial and commercial operations involving one acre or more of land
area, or if a part of a project of more than one acre in size, shall comply with and implement the Best Management Practices as set forth in the above referenced handbooks.

This Resolution was passed by the City Council at a regular meeting on September 5, 2006, by the following vote:

AYES: Council Members Rumfelt, Parmentier, and Knoll, and Mayor Mandrones
NOES: None
ABSENT: Council Member Bruns
ABSTAINING: None

____________________________
TED MANDRONES, Mayor

ATTEST:

_____________________________
JANEL M. CHAPMAN, City Clerk
# Chapter 8.40

## STORMWATER MANAGEMENT ORDINANCE

### Sections:

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ARTICLE I. GENERAL PROVISIONS

8.40.010 Title.
A. This chapter shall be known and be cited as the “Stormwater Management Ordinance” of the city of Lakeport. (Ord. 853 §1(part), 2006)

8.40.020 Purpose and intent.
A. The purpose of this chapter is to insure the health, safety and general welfare of the city of Lakeport’s citizens, and to protect and enhance the water quality of water courses and water bodies within the incorporated area of the city of Lakeport in a manner pursuant to and consistent with the Federal Clean Water Act (33 U.S.C. 1251 et seq.), by reducing pollutants in stormwater discharges to the maximum extent practicable and by prohibiting non-stormwater discharges. (Ord. 853 §1(part), 2006)

8.40.030 Definitions.
As used in this chapter, the following words and phrases shall have the meanings as defined in this chapter:

“Authorized non-stormwater discharges” means categories of discharges that are not composed entirely of stormwater but are not found to pose a threat to water quality as defined in the stormwater management plan.

“Best management practices (BMPs)” means schedules of activities, prohibition of practices, general good housekeeping practices, pollution prevention and educational practices, maintenance procedures, and other management practices to prevent or reduce to the maximum extent practicable the direct and indirect discharge of pollutant to the city storm drainage system and to natural surface waters. BMPs shall also be defined to include, but not limited to, structural controls, source controls, treatment controls, training requirements, operating and maintenance procedures, practices to control site runoff, erosion and sediment control reduction practices, spillage or leaks, sludge or waste disposal or drainage from raw materials storage.

“Beneficial uses” means existing or potential uses of receiving waters as defined in the state of California water quality control plan.

“Clean Water Act” means the Federal Water Pollution Control Act (33 U.S.C. 125 et seq.) and any subsequent amendments thereto.

“City” means the city of Lakeport.

“City storm drainage system” means those publicly owned facilities within the National Pollutant Discharge Elimination System designated incorporated area of the city which are owned, operated, maintained or controlled by the city by which stormwater may be collected and/or conveyed to natural surface waters, including, but not limited to, any roads with drainage systems, city roads, catch basins, water quality basins, detention basins, constructed wetlands, drainage channels, aqueducts, curbs, gutters, ditches, sumps, pumping stations, storm drain...
inlets, storm drains and other drainage structures which are not part of a publicly owned treatment works.

"Construction activity" means activities subject to the NPDES construction general permits or successor permit issued by the state of California or any instrument of the city that established pollutant control provisions for construction activities. These include construction projects typically resulting in land disturbance of one acre or more. Such activities include, but are not limited to, clearing and grubbing, grading, excavating and demolition.

"Council" means the city council of the city of Lakeport.

"Director" means the community development director or such other department head designated by the council to enforce the provisions of this chapter.

"Discharge" means any addition or introduction of any pollutant, stormwater, or any other substance whatsoever into the city stormwater drainage system or natural surface waters.

"Discharger" means any person who discharges, or causes to discharge, either directly or indirectly stormwater or any other material into the city storm drainage system or natural surface waters.

"Illegal discharge" means any direct or indirect nonstormwater discharge to the storm drain system, except as exempted in Article II of this chapter.

"Illicit connection" means one of the following:

1. Any drain or conveyance, whether on the surface or subsurface, which allows an illegal discharge to enter the storm drain system, including, but not limited to, any conveyances which allow any non-stormwater discharge including sewage, processed wastewater, backwash water, and wash water to enter the storm drain system and any connections to the storm drain system from indoor drains and sinks, regardless of whether such drain or connection had been previously allowed, permitted, or approved by a government agency; or

2. Any drain or conveyance connected from a commercial or industrial land use to the storm drain system which has not been documented in plans, maps, or equivalent records and approved by the city.

"Implementing agency" means the department designated by the council to enforce the provisions of this chapter with respect to a particular site, person, facility or industry category.

"Industrial activity" means activities subject to NPDES industrial permits as defined in 40 CFR, Section 122.26(b)(14).

"Municipal stormwater permit" means NPDES Permit No. CAS000004 including any amendments thereto or successor permit, issued by the Regional Water Board to the city.

"National pollutant discharge elimination system (NPDES)" means a permit issued by either the Regional Water Board or the State Water Quality Control Board pursuant to Chapter 5.5 (commencing with Section 13370) of Division 7 of the Water Code to control discharges from point sources to natural surface waters.

"Natural surface waters" means any rivers, creeks, unnamed tributaries, natural ponds or lakes, wetlands, or navigable waters and shall include any waters of the state and of the United States
contained within the boundaries of the state. Natural surface waters does not mean any wet or
dry detention basin, constructed wetland or stormwater treatment facility.

"Non-stormwater discharge" means any discharge to the city storm drainage system, or to
natural surface waters that is not composed entirely of stormwater.

"Person" means any natural person as well as any corporation, partnership, public agency, trust,
estate, cooperative association, joint venture, business entity or other similar entity, or the agent,
employee or representative of any of the above.

"Pollutant" means anything that causes or contributes to pollution. Pollutants may include, but are
not limited to, solid waste, sewage, garbage, medical waste, wrecked or discarded equipment,
radioactive material, dredged soil, rock and sand, industrial waste, feces, volatile organic
carbon, surfactants, oil and grease, petroleum, hydrocarbon, organic solvents, metals, phenols,
pesticides, nutrients, suspended or settable solids, materials causing an increase in biochemical
or chemical oxygen or total organic carbon, substances which alter pH, and those pollutants
defined in Section 501(6) of the Federal Clean Water Act.

"Pollution" means human made or human induced alteration of the quality of waters by waste or
pollutants to a degree which unreasonably affects, or has potential to unreasonably affect, either
the waters for beneficial uses or the facilities which serve these beneficial uses.

"Premises" means any building, lot, parcel or land, or portion thereof and any appurtenant
structures or facilities, whether improved or unimproved.

"Publicly owned treatment works" means facility owned, operated or maintained by a public
entity.

"Receiving water limitations" means those restrictions defined and listed in the state general
permit or municipal stormwater permit or any successor document.

"Receiving waters" means surface bodies of water, as defined by the municipal stormwater
permit, including, but not limited to, lakes, creeks, rivers, and other waters of the state or the
United States which serve as discharge points for the city storm drainage system.

"Regional water board" means the California Regional Water Quality Control Board, Central
Valley Region and/or California Regional Water Quality Control Board, North Coast Region.

"The national pollutant discharge elimination system (NPDES)" means General Permit No.
CAS000004 Waste Discharge Requirements (WDRs) for discharges of stormwater runoff
associated with construction activity, and any successor documents.

"Stormwater" means surface runoff and drainage resulting from storm events and snowmelt.

"Stormwater management plan" means the city’s documented strategy of how the discharge of
pollutants to stormwater will be reduced to the maximum extent practicable through the
implementation of BMPs designed to protect water quality and requirements of the municipal
stormwater permit.

"Water quality control plan" means a basin plan required by the California Water Code (Section
13240) that consists of a designation or establishment of beneficial uses to be protected in
waters within a specific area.
(i.e., basin), water quality objectives to protect those uses, and a program of implementation needed for achieving the objectives.

"Waters of the United States" means surface watercourses and water bodies as defined at 40 CFR 122.2, including all natural waterways and definite channels and depressions in the earth that may carry water, even though such waterways may only carry water during rains and storms and may not carry stormwater at and during all times and seasons. (Ord. 853 §1(part), 2006)

**8.40.040 Applicability.**
A. The provisions of this chapter shall apply to all water entering the city storm drainage system or natural surface waters generated or deposited on any developed or undeveloped lands in the incorporated area of the city of Lakeport.

B. This chapter shall apply to facilities and premises subject to and in compliance with the municipal stormwater permit, state construction general permit, city grading ordinance, city building permit, and/or any other instrument of the city that establishes pollutant control provisions for construction activities. (Ord. 853 §1(part), 2006)

**8.40.050 Regulatory consistency.**
A. The provisions of this chapter shall take precedence over and are controlling with respect to any conflicting or inconsistent provisions of the Lakeport Municipal Code. (Ord. 853 §1(part), 2006)

**8.40.060 Compliance disclaimer.**
A. Compliance by any person with the provisions of this chapter shall not preclude the need to comply with other local, state or federal statutory or regulatory requirements relating to any one or combination of the following: (1) the control of pollutant discharges, (2) the protection of stormwater quality, or (3) the protection and/or restoration of beneficial uses. (Ord. 853 §1(part), 2006)

**8.40.070 Administration.**
A. The director shall be responsible for the administration, implementation and enforcement of the provisions of this chapter. (Ord. 853 §1(part), 2006)

**8.40.080 Disclaimer of liability.**
A. The standards set forth in this chapter are minimum standards and this chapter does not imply that compliance will ensure that there will be no unauthorized discharge of pollutants into natural surface waters. This chapter shall not create liability on the part of the city or any officer or employee thereof for any damages that result from reliance on this chapter or any administrative decision lawfully made thereunder. (Ord. 853 §1(part), 2006)

**ARTICLE II. PROHIBITED DISCHARGES**

**8.40.090 General prohibition.**
A. It is unlawful for any person to make or cause to be made any non-stormwater discharge into the city storm drainage system or directly to natural surface waters, except as allowed by the municipal stormwater permit. (Ord. 853 §1(part), 2006)

**8.40.100 Exception to discharge prohibition.**
A. The director may prepare and update the list of authorized non-stormwater discharges and circumstances under which these discharges may be allowed in the city stormwater system pursuant to the municipal stormwater permit. (Ord. 853 §1(part), 2006)
8.40.110 Prohibited stormwater discharges.
A. It is unlawful for any person to discharge or cause to be discharged any stormwater or material that causes or contributes to causing the city to violate water quality standards, the city’s obligations under the municipal stormwater permit, or any state-issued discharge permit. (Ord. 853 §1(part), 2006)

8.40.120 Prohibition of illicit connections.
A. The construction, use, maintenance or continued existence of illicit connections to the storm drain system is prohibited. This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection. (Ord. 853 §1(part), 2006)

8.40.130 Waste disposal prohibitions.
A. No person shall throw, deposit, leave, maintain, keep, or permit to be thrown, deposited, left, or maintained, in or upon any public or private property, driveway, parking area, street, alley, sidewalk, component of any storm drain system, or waters of the United States any refuse, rubbish, garbage, litter, or other discarded or abandoned objects, articles, and accumulations, so that the same may cause or contribute to pollution. (Ord. 853 §1(part), 2006)

8.40.140 Discharges in violation of industrial or construction activity NPDES stormwater discharge permit.
A. Any person subject to an industrial or construction activity NPDES stormwater discharge permit shall demonstrate that he/she has obtained coverage under, and is complying with the required permits. Proof of coverage and compliance with such permit shall be required in a form acceptable to the director to or as a condition of a subdivision map, site plan, building permit, or development or improvement plan, upon inspection of the facility, during any enforcement proceeding or action, or for any other reasonable cause. (Ord. 853 §1(part), 2006)

ARTICLE III. REGULATIONS AND REQUIREMENTS

8.40.150 Requirement to prevent, control and reduce stormwater pollutants.
A. Authorization to Adopt and Impose BMPs. The city shall adopt by resolution requirements identifying BMPs for any activity, operation, or facility, which may cause or contribute to pollution or contamination of stormwater, the storm drain system, or waters of the state or of the United States. Where BMPs requirements are promulgated by the city or any federal, state of California, or regional agency for any activity, operation, or facility which would otherwise cause the discharge of pollutants to the storm drain system or waters of the state or of the United States, every person undertaking such activity or operation, or owning or operating such facility shall comply with such requirements.

B. New Development and Redevelopment. The city shall adopt by resolution requirements identifying appropriate BMPs to control the volume, rate, flow-duration and potential pollutant load of stormwater runoff from new development and redevelopment projects that disturb one acre or more, including projects less than one acre that are part of a larger common plan of development or sale, as may be appropriate to minimize the generation, transport and discharge of pollutants or that may be needed to comply with any successor permit or amendment to the municipal stormwater permit. The city shall incorporate such requirements in any land use entitlement and construction or building-related permit to be issued relative to such development or redevelopment. The owner and developer shall comply with the terms, provisions, and conditions of such land use entitlements and building permits as required by the city.
C. Responsibility to Implement BMPs. Notwithstanding the presence or absence of requirements promulgated pursuant to subsections A and B of this section, any person engaged in activities or operations, or owning facilities or property which will or may result in pollutants entering stormwater, the storm drain system, or waters of the state or of the United States shall implement BMPs to the extent they are technologically achievable and/or required by any applicable permit or regulatory requirement to prevent and reduce such pollutants. The owner or operator of a commercial or industrial establishment shall provide reasonable protection from accidental discharge of prohibited materials or other wastes into the city storm drain system or watercourses. Facilities to prevent accidental discharge of prohibited materials or other wastes shall be provided and maintained at the owner or operator’s expense. (Ord. 853 §1(part), 2006)

8.40.160 Requirement to eliminate illegal discharges.
A. Notwithstanding the requirements of Section 8.40.220 of this chapter, the director shall require by written notice that a person responsible for an illegal discharge, immediately, or by a specific date, discontinue the discharge and, if necessary, take measures to eliminate the source of the discharge to prevent the occurrence of future illegal discharges. (Ord. 853 §1(part), 2006)

8.40.170 Requirement to eliminate or secure approval for illicit connections.
A. The director shall require by written notice that a person responsible for an illicit connection to the storm drainage system comply with the requirements of this chapter to eliminate or secure approval for the connection by a specific date, regardless of whether or not the connection or discharges to it had been established or approved prior to the effective date of the ordinance codified in this chapter.

B. If subsequent to eliminating a connection found to be in violation of this chapter, the responsible person can demonstrate that an illegal discharge will no longer occur, such person may request city approval to reconnect. The reconnection or reinstallation of the connection shall be at the responsible person’s expense. (Ord. 853 §1(part), 2006)

8.40.180 Requirement to remediate.
A. Whenever the director finds that a discharge of pollutants is taking place or has occurred which will result in or has resulted in pollution of stormwater, the storm drain system, or waters of the United States, the director may require by written notice to the owner of the property and/or the responsible person that the pollution be remediated and the affected property restored within a specified time pursuant to the provisions of Sections 8.40.250 and 8.40.260 of this chapter. (Ord. 853 §1(part), 2006)

8.40.190 Construction sites with building permits.
A. Any person owning or operating a construction site for which a building permit has been issued shall implement BMPs to control the discharge of pollutants to the maximum extent practicable, and to eliminate nonstormwater discharges that are not authorized as set forth in Article II of this chapter or are not in compliance with an NPDES permit. (Ord. 853 §1(part), 2006)

8.40.200 Post-construction requirements for new development and significant redevelopment.
A. The council shall adopt, by resolution, rules and regulations that establish performance requirements and requirements for BMPs to prevent or minimize the long term, post-construction discharge of stormwater pollutants and water quality impacts from new development or significant redevelopment projects that disturb one or more acres, including projects less than one acre that are part of a larger common plan of development or sale, that
discharge into the city storm drainage system.

B. Provisions shall be made for the continued post-construction maintenance of any structural or treatment control BMPs by a means acceptable to the director. (Ord. 853 §1(part), 2006)

8.40.210 Notification of spills.
A. As soon as any person responsible for a facility or operation, or responsible for emergency responses for a facility operation, has information of any known or suspected release of materials which are resulting in or may result in illegal discharges or pollutants discharging into stormwater, the storm drain system, or waters of the United States, such person shall take all necessary steps to ensure the discovery, containment, and cleanup of such release. In the event of a release of hazardous materials such person shall immediately notify emergency response agencies of the occurrence by way of central dispatch.

B. For any discharge subject to the reporting requirements of the Water Code Sections 13271 and 13272 or successor sections, notification in compliance therewith shall constitute sufficient notification for purposes of this section.

C. In the case of discharges not subject to the reporting requirements of the Water Code Sections 13271 and 13272 or successor sections, the responsible person shall notify the director or implementing agency within twenty-four hours by phone or fax of the discovery of the discharge. A written report on the actions taken shall be required within five days of the initial notice. (Ord. 853 §1(part), 2006)

ARTICLE IV. INSPECTION AND MONITORING

8.40.220 Authority to inspect.
A. Whenever necessary to make an inspection to enforce any provision of this chapter or whenever the director has cause to believe that there exists, or potentially exists, in or upon any premises any condition which constitutes a violation of this chapter, the director may enter such premises at all reasonable times to inspect the same and to inspect and copy records related to stormwater compliance. In the event the owner or occupant refuses entry after a request to enter and inspect has been made, the director is empowered to seek assistance from any court of competent jurisdiction to obtain such entry. (Ord. 853 §1(part), 2006)

8.40.230 Authority to sample, establish sampling devices and test.
A. During any inspection as provided in this chapter, the director may take any samples and perform any testing deemed necessary to aid in the pursuit of the inquiry or to record site activities. (Ord. 853 §1(part), 2006)

8.40.240 Fees.
A. The council may by ordinance establish fees for the recovery of regulatory costs, including routine inspections and other regulatory functions associated with this chapter. Failure to pay required fees shall be a violation of this chapter. (Ord. 853 §1(part), 2006)

ARTICLE V. ENFORCEMENT

8.40.250 Warning notice.
A. When the director finds any person has violated, or continues to violate, any provision of this chapter, or any order issued hereunder, the director may serve upon that person a written warning notice, specifying the particular violation believed to have occurred and requesting the discharger to immediately investigate the matter and to seek a resolution of the matter whereby
any offending violation will cease. Investigation and/or resolution of the matter in response to the warning notice in no way relieves the alleged violator of liability for any violations occurring before or after receipt of the warning notice. Nothing in this subsection shall limit the authority of the director to take any action, including emergency action or any other enforcement action, without first issuing a warning notice. (Ord. 853 §1(part), 2006)

8.40.260 Notice of violation.
A. The director, upon discovery of any violation of this chapter, may take enforcement action as to the violation(s) in accordance with this chapter or other city ordinance provisions.

B. The director may issue to the owner, manager, operator or occupant of any premises, or to any person responsible for an illicit connection, prohibited discharge, maintenance of a threatened prohibited discharge, failure to implement BMPs in accordance with Section 8.40.150(C) of this chapter, or any other violation of this chapter, a notice of violation.

C. The notice of violation shall identify the provision of this chapter that has been violated and shall state that continued noncompliance may result in additional enforcement action being taken against the business, facility, or any responsible person.

D. The notice of violation shall specify a date by which the discharger must be in compliance with this chapter. The director may under his/her own discretion extend the date to achieve compliance if good cause exists for such an extension.

E. The notice of violation shall state that the city may recover any costs incurred by the city as a result of the violation.

F. If a notice of violation is issued, a single notice of violation shall be issued for all violations noted during a single inspection or site visit.

G. The person who receives a notice of violation pursuant to this chapter shall submit to the director, upon request, written certification that the necessary corrective action(s) have been taken prior to the specified compliance date. As appropriate for the type of correction action taken, the notice of violation may require proof that substantiates the certification, including, but not limited to, receipts or photographs. The effective date of the certification shall be the date that it is postmarked.

H. The notice of violation shall state that the recipient has a right to appeal the matter as set forth in Section 8.40.290 of this chapter. (Ord. 853 §1(part), 2006)

8.40.270 Cease and desist orders.
A. The Director may Issue a Cease and Desist Order. A cease and desist order shall be delivered in accordance with Section 8.40.280 of this chapter. A cease and desist order may direct the owner or occupant of any premises, or any other person responsible for any violation of this chapter, to take any of the following action:

1. Immediately discontinue any prohibited discharge to the city storm drainage system;
2. Immediately discontinue any other violation of this chapter;
3. Clean up the area affected by the violation.

B. The director may direct by a cease and desist order that any person immediately cease any activity which may lead to a violation of receiving water limitations. (Ord. 853 §1(part), 2006)
8.40.280 Delivery of notice.
A. Any notice of violation, cease or desist order or other enforcement order issued pursuant to the requirements of this chapter shall be subject to the following requirements:

1. Delivery shall be deemed complete upon either personal delivery to the recipient or by deposit in the U.S. mail, postage prepaid, certified, return receipt requested.

2. Where the recipient of the notice or order is the owner of the property, the address for notice or order shall be the address from the most recently issued equalized assessment roll for the property.

3. In the event that delivery by certified mail, return receipt requested, cannot be effected or the recipient cannot be personally served, the notice or order shall be deemed delivered after posting on the premises for a period of ten business days. (Ord. 853 §1(part), 2006)

8.40.290 Appeal.
A. Notwithstanding the provisions of Section 8.40.300 of this chapter, any person receiving a notice of violation may appeal the determination of the director to the council. The notice of appeal must be received by the city clerk within ten days of the delivery of the notice of violation.

B. An appeal shall be accompanied by a written statement setting forth the grounds upon which the appellant asserts there was an error by the director.

C. The Council Shall Hear the Appeal. At the time and place set for the appeal, the council shall proceed to hear the testimony of the director, his/her assistants or deputies, the testimony of the appellant or his/her representatives, and the testimony of other competent persons concerning the conditions constituting the violation, and other matters which the council may deem pertinent. Any person affected may be present at such hearing, may be represented by counsel, may present testimony, and may cross-examine the director, and other witnesses. The hearing may be continued from time to time. The council shall render a written decision thereon, which decision shall be final. (Ord. 853 §1(part), 2006)

8.40.300 Abatement by city.
A. If the violation has not been corrected pursuant to the requirements set forth in the notice of violation, or, in the event of an appeal under Section 8.40.290 of this chapter, within ten days of the decision of the council upholding the decision of the director, the city or a contractor designated by the director shall enter upon the subject private property and is authorized to take any and all measures necessary to abate the violation and/or restore the property. It is unlawful for any person, owner, agent or person in possession of any premises to refuse to allow the city or designated contractor to enter upon the premises for the purposes set forth above. (Ord. 853 §1(part), 2006)

8.40.310 Charging cost of abatement/lien.
A. Within thirty days after the abatement of the nuisance by city, the director shall notify the property owner of the property of the cost of abatement, including administrative costs in the manner provided in Section 8.40.280 of this chapter. The property owner may file a written protest objecting to the amount of the assessment with the city clerk within fifteen days. The city clerk shall set the matter for public hearing by the council. At the time and place of the appeal, the council shall hear and consider the account and proposed assessment, together with objections and protests thereto. At the conclusion of the hearing, the council may make such modifications and revisions of the proposed assessment confirmed or denied, in whole or in
part or as modified and revised. The determination of the council as to all matters contained therein shall be in writing, final and conclusive.

B. If no appeal is filed or if the amount due is not paid within ten days of the decision of the council, the charges shall become a special assessment against the property and shall constitute a lien on the property for the amount of the assessment.

C. If no appeal is filed or if an appeal is filed and confirmed by the council, the director shall cause to be prepared and recorded in the office of the county recorder of the county of Lake, a notice of lien. The notice shall contain the following:

1. An address, legal description or other description sufficient to identify the premises;

2. A description of the proceeding under which the special assessment was made, including the order of the council confirming the assessment;

3. The amount of the assessment;

4. A claim of lien upon the described premises.

D. Upon the recordation of such notice of lien, the amount claimed shall constitute a lien upon the described premises. Such lien shall be in parity with the liens of state and county taxes.

E. The notice of lien, after recordation, shall be delivered to the county auditor who shall enter the amount of the lien on the assessment roll as a special assessment. Thereafter the amount set forth shall be collected at the same time and in the same manner as ordinary county taxes are collected and shall be subject to the same penalties and interest and to the same procedures for foreclosure and sale in case of delinquency, as is provided for ordinary county taxes, and all laws applicable to the levy, collection and enforcement of county taxes are made applicable to such assessment. (Ord. 853 §1(part), 2006)

8.40.320 Urgency abatement.
A. The director is authorized to require immediate abatement of any violation of this chapter that constitutes an immediate threat to the health, safety or wellbeing of the public. If any such violation is not abated immediately as directed by the director, the city is authorized to enter onto private property and to take any and all measures required to remediate the violation. Any expense related to such remediation undertaken by the city shall be fully reimbursed by the property owner and/or responsible party. Any relief obtained under this section shall not prevent city from seeking other and further relief authorized under this chapter. (Ord. 853 §1(part), 2006)

8.40.330 Criminal liability.
A. A violation of any provision of this chapter, any order issued pursuant to the chapter or any wastewater permit condition imposed pursuant to this chapter is punishable as an infraction by a fine not exceeding two hundred fifty dollars; or as misdemeanor by a fine of not more than one thousand dollars, or by imprisonment in the county jail for a period of not more than six months, or by both such fine and imprisonment. Each separate day or any portion thereof on which any violation occurs shall be deemed to constitute a separate offense punishable as provided in this chapter. (Ord. 853 §1(part), 2006)

8.40.340 Judicial remedies.
A. Civil Remedies. If any person violates any provision of this chapter, any order issued pursuant to this chapter or any wastewater discharge permit condition imposed pursuant to this
chapter, the county may commence an action for appropriate legal and/or equitable relief, in any appropriate court. In such an action, the city may seek all appropriate judicial relief including, but not limited to, injunctive relief and damages in the minimum of one thousand dollars per violation per day.

B. Continuing Violations. Each day on which a violation occurs or continues to occur shall be a separate and distinct offense.

C. Nothing set forth in this chapter shall be construed as prohibiting the city from seeking civil or criminal judicial relief in connection with the enforcement of this chapter or pursuant to any other state or federal statutory or common law right to such relief.

D. Remedies Cumulative. The remedies provided in this chapter shall be cumulative and not exclusive. (Ord. 853 §1(part), 2006)

8.40.350 Violations deemed a public nuisance.
A. In addition to the enforcement processes and penalties hereinabove provided, any condition caused or permitted to exist in violation of any of the provisions of this chapter is a threat to public health, safety, and welfare, and is declared and deemed a nuisance, and may be summarily abated or restored by the city at the violator’s expense, and/or civil action to abate, enjoin, or otherwise compel the cessation of such nuisance may be taken by city. (Ord. 853 §1(part), 2006)

8.40.360 Severability.
A. The provisions of this chapter are declared to be severable. If any provision, clause, sentence, or paragraph of this chapter is for any reason held to be invalid such decision shall not affect the validity of the remaining provisions, clauses, sentences or paragraphs of this chapter. (Ord. 853 §1(part), 2006)
APPENDIX 4-2

County of Lake Resolution Establishing Performance Requirements and Adopting CASQA BMP Handbook;

Resolution Establishing Post Construction Requirements for New Development and Significant Redevelopment;

County Best Management Practices for Post Construction
BOARD OF SUPERVISORS, COUNTY OF LAKE, STATE OF CALIFORNIA

RESOLUTION NO. ________________

A RESOLUTION ESTABLISHING RULES AND REGULATIONS GOVERNING POST CONSTRUCTION REQUIREMENTS FOR NEW DEVELOPMENT AND SIGNIFICANT REDEVELOPMENT STORM WATER MANAGEMENT FACILITIES

WHEREAS, Lake County Code Section 29-25 provides for the adoption of rules and regulations that establishes performance requirements and requirements for BMPs to prevent or minimize the long term, post construction discharge of storm water pollutants and water quality impacts from new development or significant redevelopment projects; and

WHEREAS, the Board of Supervisors now desires to adopt such rules and regulations for the continued post construction maintenance of storm water facilities.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE COUNTY OF LAKE THAT IT FINDS, DETERMINES, ORDERS AND HEREBY DECLARES AS FOLLOWS:

Section 1.0 REQUIREMENTS

Section 1.1 APPLICABLE PROJECTS

New development and significant redevelopment projects that are under the Permittees' jurisdiction and are within the NPDES Permit Boundary, that fall into one or more of the following four categories are Applicable Projects and are required to design and implement source control and
treatment control BMPs. This applies to projects that require a
discretionary permit and/or a building permit within these categories.

(a) Development projects that create one acre (43,560 square feet) or
more of new impervious surface. This category includes
development of any type on public or private land, which falls under
the planning and building authority of the Permittees, where one
acre or more of new impervious surface, collectively over the entire
project site, will be created. Project phasing to decrease
impervious surface area shall not exempt the project from these
requirements.

(b) Streets, roads, highways, and freeways that create one acre
(43,560 square feet) or more of new impervious surface. This
category includes any newly constructed paved surface used for
the transportation of pedestrians, bicycles and motorized vehicles.

(c) Redevelopment projects that are located on an already developed
site and result in the addition of and/or reconstruction of one acre
(43,560 square feet) or more of new impervious surface. Only the
additional and/or reconstructed portion(s) of the site must be
included in treatment design. Excluded from this category are
interior remolds and routine maintenance or repair, including roof
or exterior surface replacement and resurfacing.

(d) Development and redevelopment projects located directly adjacent
to a natural waterway, lake, modified natural waterway, or
constructed channel, or that require a new storm drain outfall to such waterway, regardless of project size or impervious surface.

This requirement is intended to protect environmentally sensitive areas. For redevelopment projects, excluded from this category are interior remodels and routine maintenance or repair, including roof or exterior surface replacement and resurfacing.

Section 2.0 The following rules and regulations are hereby adopted for the post construction maintenance of storm water structural or treatment control BMPs in accordance with Chapter 29, Article III, Section 29-25 of the Ordinance Code of the County of Lake.

(a) The word “Best Management Practice” (BMP) as used herein is defined as structural device, measure, facility or activity that helps to achieve storm water management control objectives at a designated site as found in the CASQA Stormwater BMP Handbooks adopted by the County of Lake by Resolution_______.

(b) The word “Plan” as used herein is defined as an approved document that outlines the operation and maintenance of the BMPs used to control Stormwater runoff at a site.

(c) Operation and Maintenance (O&M) requirements for all source control and treatment control BMPs as identified in the Plan shall include the following:
1. Identification of each BMP that requires O&M, which must include a legible letter or legal sized site or conceptual plan of the site, clearly showing the location of the BMP.
2. Description of O&M activities, the O&M process, and the handling and placement of any wastes.
3. Schedule of the frequency of O&M for each BMP.
4. Execution of a written access and maintenance agreement.
5. Inspections and record keeping requirements for BMPs.

(d) Post Construction Operation and Maintenance Plans shall be submitted to and approved by County.

(e) Provisions shall be made for the continued operation and maintenance of the BMP constructed on private property through the execution of a Maintenance Agreement acceptable to the County.

(f) County shall develop and implement a schedule of inspections to verify operation and maintenance of BMPs. Inspection fees shall be as established by the Board of Supervisors.

Section 3.0 Enforcement of post construction operation and maintenance activities shall be in accordance with Chapter 29 of the Lake County Ordinance Code regarding storm water management.
THIS RESOLUTION was passed by the Board of Supervisors of the County of Lake at a regular meeting thereof held on ________________, 2007, by the following votes:

AYES:

NOES:

ABSENT OR NOT VOTING

ATTEST: KELLY F. COX
        Clerk of the Board

By: ____________________________

____________________________
Chair, Board of Supervisors

APPROVED AS TO FORM:
Anita L. Grant
County Counsel
WHEREAS, the County of Lake is a co-permittee with the City of Lakeport and
the City of Clearlake under the National Pollutant Discharge Elimination System
Program (NPDES) under General Permit No. CAS000004, issued by the Regional Water
Board; and

WHEREAS, the County of Lake is a participant in the Lake County Clean Water
Program and has adopted the Lake County Clean Water Program Stormwater
Management Plan (SWMP); and

WHEREAS, the Lake County Board of Supervisors adopted Ordinance 2772,
adding Chapter 29 to the Lake County Code regarding Storm Water Management; and

WHEREAS, Section 29-20.1 of the Lake County Code requires that the County
shall adopt by Resolution requirements identifying BMPs for any activity, operation, or
facility, which may cause or contribute to pollution or contamination of storm water, the
storm drain system, or waters of the State or of the United States; and

WHEREAS, Section 29-20.2 of the Lake County Code requires that the County
shall adopt by Resolution requirements identifying appropriate BMPs to control the
volume, rate, flow-duration and potential pollutant load of storm water runoff from new
development and redevelopment projects that disturb one acre (43,560 square feet) or
more, including projects less than one acre that are part of a larger common plan of
development or sale, as may be appropriate to minimize the generation, transport and
discharge of pollutants or that may be needed to comply with any successor permit or
amendment to the Municipal Storm Water Permit; and
WHEREAS, Section 29-25.1 of the Lake County Code requires that the County
shall adopt by Resolution rules and regulations that establish performance requirements
and requirements for BMPs to prevent or minimize the long term, post construction
discharge of storm water pollutants and water quality impacts from new development or
significant redevelopment projects that create one or more acres of new impervious
surface, including projects less than one acre that are part of a larger common plan of
development or sale, and

WHEREAS, the Board of Supervisors now desire to adopt such requirements to
minimize to the Maximum Extent Practicable the unauthorized discharge of pollutants
into the storm water, the storm drain system, or waters of the State or of the United
States.

NOW, THEREFORE, THE BOARD OF SUPERVISORS FINDS, DETERMINES,
ORDERS AND HEREBY DECLARES AS FOLLOWS:

Section 1 The following Stormwater Best Management Practice Handbooks are
hereby adopted for the implementation of appropriate BMPs for any activity, operation,
or facility, which may cause or contribute to pollution or contamination of storm water,
the storm drain system, or waters of the State or of the United States; and to control the
volume, rate, flow-duration, and potential pollutant load of stormwater runoff from any
new development or significant redevelopment project disturbing one acre or more, or
creating one acre or more of new impervious surface, including projects less than one
acre that are part of a larger common plan of development or sale.

1 Stormwater Best Management Practice Handbook – Municipal; California
   Stormwater Quality Association- January 2003;
2 Stormwater Best Management Practice Handbook – Industrial and
   Commercial; California Stormwater Quality Association- January 2003;
3 Stormwater Best Management Practice Handbook – New Development and Redevelopment; California Stormwater Quality Association- January 2003; and

4 Stormwater Best Management Practice Handbook – Construction;
California Stormwater Quality Association- January 2003;

THIS RESOLUTION, was passed and adopted by the Board of Supervisors of County of Lake, State of California, at a regular meeting thereof on ________, 2007, by the following vote:

AYES:
NOES:
ABSENT OR NOT VOTING:

ATTEST: KELLY F. COX
Clerk of the Board

Chair, Board of Supervisors

By:__________________

APPROVED AS TO FORM:
ANITA L. GRANT
County Counsel
# Section 9. Best Management Practices

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embankment. Temporary down-drains, drainage structures, and other devices shall be provided to channel storm runoff water into the respective permanent storm drain systems during construction. Mud and silt shall be settled out of the storm runoff before said runoff enters the storm drain system.

3. Post Construction Stormwater Management: New development and significant redevelopment\(^1\) projects can adversely affect receiving water bodies for decades if post-construction storm water management elements are not implemented and maintained over the life span of the project. New and redevelopment projects can cause an increase in the type and quantity of pollutants in storm water runoff and alter the timing and quantity of peak flows. The effects of these processes include increased pollutant loading, stream bank scouring, bank erosion and downstream flooding, which result in loss of aquatic habitat, damage to property and are a public nuisance.

The contractor shall install long term storm water runoff controls for 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 by ensuring that controls are in place that would mitigate for increases in peak flows and prevent or minimize water quality impacts.

The County Engineer will notify the Contractor of the acceptance or rejection of any submitted or revised water management and/or erosion control programs not more than 5 working days before the startup of operations.

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\(^1\) The term “significant redevelopment” refers to alterations of a property that change the “footprint” of a site or building in such a way that there is a disturbance of equal to or greater than 1 acre of land, including projects less than one acre that are part of a larger common plan of development or sale. The term does not include such activities as exterior remodeling. Because redevelopment projects may have site constraints not found on new development sites, the rule provides flexibility for implementing post-construction controls on redevelopment sites that consider these constraints.
APPENDIX 4-3

Grading and Stormwater Permit and Permit Violation Tracking Log
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APPENDIX 4-4

Online Stormwater Complaint Form
Lake County Clean Water Program

Storm Water Issue Report Form

Please complete this form to report a storm water issue.

Contact Information

Name: 
Email: 
Phone: 

Best time to call: 
- Morning
- Early Afternoon
- Late Afternoon

Storm Water Issue Location

In what part of the county is this storm water issue located?

Jurisdiction: 
- County (unincorporated)
- City of Lakeport
- City of Clearlake

Street Location or Address: 

Nearest Cross Street: 

Please describe the storm water issue you're reporting:

Submit Report
Notice a storm drain that looks backed up? Do you see water running into a storm drain, creek, or stream that looks oily, murky, or contaminated? Is there a strong odor coming from the storm sewer or nearby storm drain? Have you observed a business or resident dumping liquid or material into a storm drain? If so, we would like to hear from you.

Please fill out this form and submit it to the Community Development Department at City Hall. It can be completed electronically by filling it out on your computer, or you can print it out and complete it by hand.

Send in this form via US mail or deliver it in person by clicking the 'Print Form' button. Our mailing address is:
225 Park Street
Lakeport, CA
95453
You may also contact the City’s storm water coordinator at 263-5615 ext. 28 or compliance@cityoflakeport.com to report a storm water issue.

Stormwater Issue Description and Location
*Fields with an asterisk are required. You do not have to provide your name or contact information.

1. Location of Stormwater issue* (Please describe the location of the stormwater issue here, e.g. 11th and Main, Hartley and 20th, etc.)

2. Please describe the stormwater issue here.*

3. If issue was observed on more than one occasion, please provide detail here.*

Name
Phone (999-9999)
E-mail Address
Report a Storm Water Issue

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Have you observed a business or resident dumping liquid or material into a storm drain?

If so, we would like to hear from you.

Please click here to complete a storm water issue report form and let us know of your storm water concern. Once complete, click the "submit report" button at the bottom and the form will be automatically emailed to the City of Lakeport.

Together, we can help keep Clear Lake healthy and beautiful.

You can also fill out, print, and mail in a hard copy form if preferred. Just click the link below. This form is designed to be filled out, printed and submitted to the City in hard copy form. It can not be emailed or saved electronically.

Storm Water Issue Report Form

You can also report an illicit discharge, illegal dumping or noticeable changes in water quality via telephone. All complaints will be investigated.

City of Lakeport: 707.263.5613 ext. 28

Unincorporated areas in Lake County: 707.263.2309

City of Clearlake: 707.994.8201

press zero for the operator and report the issue of concern.

Please contact our office if you have any trouble filling out, printing or submitting the report form. Send all related emails to compliance@cityoflakeport.com.