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Annual Report – Butte County Storm Water Management Program

Fourth Year of Five Year Permit Term – Reporting Period July 1, 2006 to June 30, 2007

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ANNUAL REPORT

General Permit for the Discharger of Storm Water from Small Municipal Separate Storm Sewer Systems (General Permit)

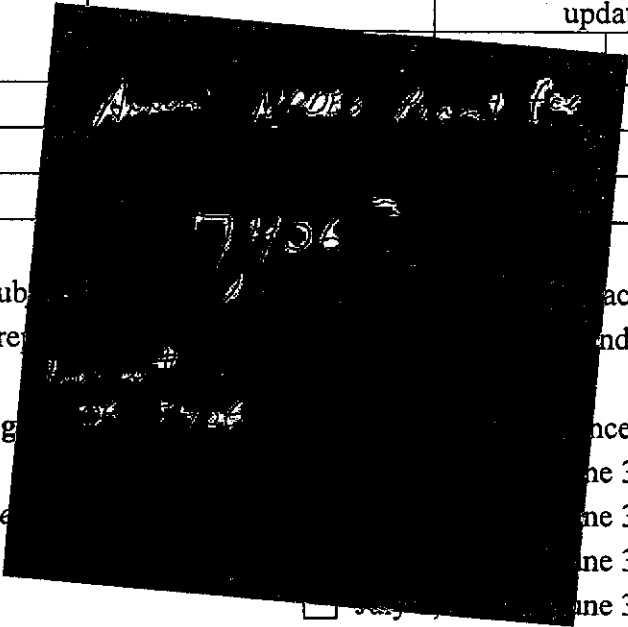
(See Small MS4 Annual Report Guidance for additional guidance on completing this Annual Report Form)

Check box if this is a new name, address, etc.

A. Permittee Information

1. Permittee (Agency Name): Butte County
2. Contact Person: Mike Crump, Director of Public Works
3. Mailing Address: 7 County Center Drive
4. City, State and Zip Code: Oroville, CA 95965
5. Contact Phone Number: (530) 538-7266
6. WDID # 5A04MSW2001
7. Have any areas been added to the MS4 due to annexation or other legal means? YES NO
If YES

Outfall	Has map been updated?	Has SWMP been updated?	Receiving Water Name
		NO	



8. Are you subject to Attachment 4 of the General Permit? YES NO
If yes, report standards in section D.5 of this Annual Report Form.

- ### B. Reporting Period
- Reporting Period: January 7, 2004 to June 30, 2004 -or-
 July 1, 2004 to June 30, 2005
 July 1, 2005 to June 30, 2006
 July 1, 2006 to June 30, 2007
 July 1, 2007 to June 30, 2008
- (Report is due each year)*

C. Executive Summary

The County's fourth year of the permit term has required staff, mainly from the Public Works Department, to continue developing the implementation aspects of the six minimum controls measures outlined in the Butte County Storm Water Management Program. The Best Management Practices implemented within the fourth year of the permit term are described throughout this document. The fifth permit year will continue with activities and specific measurable goals to measure the effectiveness of the County's Storm Water Program in reducing storm water pollution to the permit area's receiving waters to the maximum extent practicable.

Butte County's Phase II permit area covers the urbanized unincorporated areas within and around the City of Chico

city limits. There are areas of the County NPDES permit area that are still completely surrounded by the City of Chico. Many of these islands of the County will be annexed into the City of Chico within the next few years so the population within the County's NPDES permitted area has actually been reduced since 2003. Mapping of county drainage systems within the NPDES MS4 permit area has been performed and entered as a GIS data layer for reference on the County mapping program database. This map data will be used by the county road crews in their annual drain inlet cleaning program, the illicit discharge response procedures that are being developed, as well as the drain inlet marking program.

The County Department of Development Services, Planning and Building Divisions, continues with a development permit process procedure that for every building permit application submitted a signed statement from the owner or contractor agent stating that their project disturbs either less than one acre of land or more than an acre of land must be included in the file before a permit is issued. If a project meets the one acre or more threshold, information on the State Construction Storm Water Permit Program is given to the permit applicant for their use in compliance with the State Construction Storm Water Program. All permit applicants are informed of the Construction Storm Water Program's requirements of reducing storm water pollution during construction activities. The Planning Division of the Department of Development Services reviewed 100% of the pending applications for consideration by the Planning Commission and the Butte County Board of Supervisors in the past year. All applications, including Tentative Parcel Maps, Tentative Subdivision Maps, Use Permits, Variances, and other types of planning applications were conditioned to inform the applicant that their project may need to comply with the State Construction Storm Water Permit Program.

Storm drain inlet marker designs were developed and markers have been purchased. The drain inlet marking program started in year three of the permit term. The marking program began in areas within the permit boundaries that are least likely to be annexed into the City of Chico within the next two years. This will optimize the Storm Water message to County residents that dumping into a County storm drain will affect groundwater or a nearby creek.

Public education and participation activities have been developed and initiated, as well as guidelines for targeted programs within these minimum control measures. Employee and development community educational activities on storm water pollution prevention will continue. Handouts and several brochures continue to be made available at the Building and Public Works Land Development counters and several articles appeared in the County employee publication named The County Voice, stressing the importance of storm water pollution reduction activities. Each issue of The Voice has a distribution of 2,500 copies. A Storm Water related word puzzle contest was distributed in the Spring 2007 issue of the County Voice that required employees to find a missing bolded word in the storm water themed puzzle and to e-mail the Storm Water Program Management coordinator with their contest answers. From the many contestants with the correct answer seventy five were selected at random to receive a prize. The prize was a squeeze ball shaped like a raindrop with a copy of the County's Storm drain inlet marker's message of "No Dumping, drains to Creek"

Butte County has partnered with the City of Chico and the Chico Urban Streams Alliance's Clean Water Business Partner program. The process of sharing information and outreach methods has resulted in several landscape and carpet cleaning businesses signing on to the program. As part of the program those businesses are recognized as a Clean Water Business Partner and have pledged to use best management practices in their business operations to reduce or eliminate storm water pollution.

In regards to the storm water classroom presentations minimum measure within the County's Storm Water Management Program, the Shasta Elementary School was the only school within the County permit area and it was annexed into the City of Chico in 2006. Since there currently are no schools within Butte County's NPDES permit area this minimum measure has been modified to not be in effect until such time as a school within the County's permit area is built.

Storm water pollution related education materials have again been made available at a few well attended community events. Butte County has participated in several community cleanup events during the fourth year of the permit. The annual Bidwell Park & Creek Cleanup hosted by the Butte Environmental Council resulted in a large quantity of trash brought to the County Landfill. Butte County's tire amnesty events continue to recover several tons of tires countywide.

Butte County's agricultural oil recovery program continues to receive thousands of gallons of oil for recycling. The Paradise curbside oil recovery efforts continue to be well received and used. Also the high school shop best management practices oil recycling program continues to make high school auto shop participants aware of the benefits of recycling automobile oil.

Butte County is not subject to Attachment 4 (Supplemental Provisions) of the General Permit so compliance with and progress implementing the Design Standards in that attachment do not apply. On all new development the current County Improvement Standards require projects to have no increase in predevelopment runoff and in some cases a 10 percent reduction in predevelopment runoff is required. A Committee was formed two years ago and continues to meet on a regular basis to revise the County's Grading Ordinance and develop an illicit discharge storm water pollution ordinance. County Public Works, Building and Planning Divisions, and field employees have been made aware to report land disturbance events appearing to be over one acre to the Land Development Department for referral to the Regional Water Quality Control Board (RWQCB). Citizen complaints continue to be investigated for possible referral to the RWQCB. During the period from July 1, 2006 through June 30, 2007 there were numerous sites within the County that were investigated by County staff to determine if land disturbance activities were violating the State Construction Storm Water Permit. Photo documentation and parcel ownership information continue to be forwarded to the RWQCB for follow-up action as appropriate.

The fourth year Storm Water Management Program activities for Butte County have been completed and some modifications in the County's program were necessary. The final year of this first five year permit period will continue with activities to determine the effectiveness of the best management practices used to reduce storm water pollution in the waterways in and around the City of Chico. The fifth and subsequent permit years may see alterations in the proposed storm water pollution reduction activities if measurable results are not obtained. The public opinion survey results obtained in the second year when compared with the fifth year survey results will be a critical tool in determining the effectiveness of the County's Storm Water Management Program. The County's storm water website at <http://www.buttecounty.net/publicworks/stormwater.html> will continue to offer information and references to storm water pollution reduction activities. It continues to be updated to keep the residents of Butte County informed as to the current status of the County's Storm Water Management Program as well as show links to other websites for storm water or water pollution related information.

Attachments to this fourth annual report include copies of materials developed and used during the fourth year of Butte County's Storm Water Management Program. Butte County continues to work in partnership with the City of Chico to implement many of the outlined BMPs in the County's Storm Water Management Program.

D. Minimum Control Measures

Report on the status and effectiveness of BMPs and measurable goals by completely answering the following questions. Include any proposed modifications to the SWMP and anticipated changes to the schedule. You may use the tables provided and use narrative sections to highlight information. Alternatively, you may wish to only provide information in a narrative format. If the "Status of Measurable Goals" question is completely addressed by the table, you may write "see table" in that narrative section.

1. Public Education and Outreach

BMP	Description	Status					
		Implemented	Not Applicable	Modified	Effective	Unknown	Not Effective
PE I-A: Storm Drain Inlet Stenciling	Require 100% of new storm drain inlets to be stenciled.	✓					
PE I-A: Storm Drain Inlet Stenciling	Map of existing storm drains developed and sectioned into 3 zones	✓					
PE I-A: Storm Drain Inlet Stenciling	Develop stencil, stenciling guidelines and procedures and develop and update stenciling volunteer lists	✓					
PE I-A: Storm Drain Inlet Stenciling	Stencil existing storm drain inlets each year beginning 7/04 and completing all drain inlets within initial Permit term.	✓					
PE I-B: Clean Water Business Partners	Update listing of businesses that could help promote storm water pollution prevention methods.	✓					
PE I-B: Clean Water Business Partners	Distribution and updates of a brochure for each type of business identified as a targeted business that will help promote storm water pollution prevention activities.	✓					
PE I-B: Clean Water Business Partners	Promotion of targeted businesses with proclamations and website posting of targeted business efforts.	✓					
PE I-C: Community Events	Partner with local community groups and use appropriate brochures on various storm water pollution reduction activities for handout at community events. Brochures to be used in media campaign and made available on the website.	✓					
PE I-C: Community Events	Attend community events to distribute storm water information.	✓					
PE I-D: Storm Water Website	Develop, upgrade and maintain interactive County Storm Water Management Program website.	✓					
PE I-E: Media Campaigns	Researched partnering opportunities and costs for newspaper advertising, radio spots, TV spots, and billboards.	✓					
PE I-E: Media Campaigns	Implement Public Service announcements through radio, television, and printed materials.	✓					
PE I-F: Water Wise Pest Control Program	Partner with Agricultural Commissioner to form partnerships with local businesses to encourage less toxic methods of pest control. Develop and maintain distribution of point of purchase brochures.	✓					
PE I-G: Public Opinion Surveys	Develop and distribute locally appropriate public opinion survey and analyze results – compare results with end of permit year survey results.	✓					
PE II-A: Storm Water Classroom Presentations	Develop and give Storm Water Pollution presentations suitable for third through sixth grade classrooms with support of local School Board. Presentations will tie into science standards and be age appropriate. Materials and concepts will introduce children to the water cycle, streamside communities and aquatic food chain concepts and the types and effects of storm water pollution. (See narrative on page 2)		✓				

<i>BMP</i>	<i>Description</i>	<i>Status</i>					
		<i>Implemented</i>	<i>Not Applicable</i>	<i>Modified</i>	<i>Effective</i>	<i>Unknown</i>	<i>Not Effective</i>
PE III-A: County Officials	Provide opportunities for County officials to participate in environmental education by notifying them of upcoming community events or presentations that promote the County's Storm Water Management Program. Issue proclamations where appropriate.	✓					
PE III-B: County Department Partnerships	Maintain opportunities to work with County departments to promote the storm water message by incorporating public awareness and county responsibilities into staff training and departmental website links.	✓					
PE III-B: County Department Partnerships	Place an article in the County Voice newsletter twice a year that is distributed monthly to all employees.	✓					
PE III-C: Annual Agency and Board of Supervisors Update	Provide copies of the annual Storm Water Management Program report that are submitted to the Regional Water Quality Control Board to all cooperating County departments and the Board of Supervisors.	✓					
PE III-C: Annual Agency and Board of Supervisors Update	Provide periodic updates to the Board of Supervisors as well as other agencies.	✓					

a. BMPs

i. General Summary

Storm water pollution reduction will best be achieved through education of the public. A change in the public's awareness and the role they play in reducing storm water pollution is key to the success of our Program. Storm drain inlet marking, business and community partnerships, a storm water website, and media campaign guidelines will continue to evolve throughout the permit term. Butte County has partnered with the City of Chico and the Chico Urban Streams Alliance's Clean Water Business Partner program. The process of sharing information and outreach methods has resulted in several landscape and carpet cleaning businesses signing on to the program. As part of the program those businesses are recognized as a Clean Water Business Partner and have pledged to use best management practices in their business operations to reduce or eliminate storm water pollution.

ii. Status of Measurable Goals

The fourth year's measurable goals have been achieved with only minor modifications that are discussed below.

iii. Appropriateness

The minimum control measures implemented in the fourth year of the permit term are appropriate to the County's Storm Water Management Program. The first four year's BMP development and implementation will provide a basis for an effective and measurable program for compliance with the Storm Water Permit in the following years.

iv. Effectiveness

The fourth permit year offered no effective way to measure the overall effectiveness of all the control measures implemented in the first four years of the permit term. Subsequent permit years will involve the implementation of measures that will allow for measurable documentation of their effectiveness.

v. Proposed Modifications

Due to recent extensive and continued annexations by the City of Chico of County NPDES permit areas, the originally purposed drain inlet marking program has been revised. The drain inlet marking program began in the fall of 2005 and all drain inlets will be marked by the end of the permit term. Classroom presentations will not be implemented by the County as there are no longer any schools within the County's responsibility area. The only school in the County's permit area was annexed into the City of Chico.

- b. Present results of information collected and analyzed, if any, during the reporting period, including any monitoring data used to assess the success of the program at reducing the discharge of pollutants to the MEP.

The June 2005 initial public opinion survey results are presented in a prior annual report. There were no other measured results obtained during this permit year to be included here.

- c. Briefly summarize the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule). If you propose activities that differ from those originally proposed in the approved SWMP, provide justification.

The chart below outlines the County's next reporting cycle's storm water activities that will be implemented. The Ongoing Implementation column describes activities to be implemented throughout the remainder of the permit term.

BMP	Proposed Measurable Goal	Modified?		Schedule	
		YES	NO	Completed this year	Ongoing Implementation
PE I-A: Storm Drain Inlet Stenciling	Identify, with a round vinyl marker, one third of storm drain inlets each year beginning Fall 2005 and completing all drain inlets within initial Permit term	✓		Mark remaining drain inlets by end of permit term.	Mark remaining drain inlets by end of permit term.
PE I-B: Clean Water Business Partners	Brochure distributed by targeted businesses beginning 7/04 and updated and redistributed as needed		✓	Partner with City of Chico's program.	Partner with City of Chico's program.
PE I-B: Clean Water Business Partners	Help promote targeted businesses that use storm water pollution prevention practices by Supervisor proclamations, web site acknowledgements, etc.		✓	Clean Water Business Partners identified and links to City of Chico's program on webpage.	Ongoing practice.
PE I-C: Community Events	Distribute locally appropriate brochures throughout remainder of permit term		✓	Ongoing practice.	Ongoing practice.
PE I-C: Community Events	Attend community events such as Butte County and Silver Dollar Fairs, to distribute storm water information.		✓	2 events – Silver Dollar and Butte County Fairs.	3 events per year thru 4/08.
PE I-D: Storm Water Website	Add new features to the website such as annual Storm Water Management Program reports and links to other related sites.		✓	Posted third annual report on website. Added links and features as appropriate.	New features added throughout permit term.
PE I-E: Media Campaigns	Research partnering and costs sharing opportunities with community groups, businesses, and other agencies & develop a media campaign.		✓	Continued to partner with City of Chico on their program.	Ongoing throughout remainder of permit term.

BMP	Proposed Measurable Goal	Modified?		Schedule	
		YES	NO	Completed this year	Ongoing Implementation
PE I-E: Media Campaigns	Implement storm water message Public Services Announcements (PSAs) through radio and television media outlets and printed materials.		✓	PSAs sent to Clear Channel Radio.	Continued PSA promotion.
PE I-E: Media Campaigns	Mail brochure with storm water message with any appropriate County mailings as appropriate.		✓	Ongoing practice.	Ongoing practice.
PE I-F: Water Wise Pest Control Program	Develop point of purchase brochures to give to the public on pest management and fertilizer application that explain methods that reduce storm water pollution potential.		✓	Completed.	Update as appropriate.
PE I-F: Water Wise Pest Control Program	Distribute and maintain brochures at local nurseries, retail outlets and community events.		✓	Distributed throughout permit term.	Distributed throughout permit term.
PE I-G: Public Opinion Surveys	Develop locally appropriate public opinion survey and determine most effective method of distribution.		✓	Completed in second permit term.	Second survey to be done by 10/07.
PE I-G: Public Opinion Surveys	Distribute survey to determine level of public knowledge on storm water pollution issues to determine baseline for measuring effectiveness of Public Education and Outreach activities when survey is redistributed towards the end of permit term.		✓	First survey results completed 6/05.	Second survey completed by 10/07.
PE II-A: Storm Water Classroom Presentations	Give classroom presentation on storm water issues to grades three through six in primary schools located within the County permit area.	✓		The one school in County permit area was annexed into the City of Chico.	No longer applicable.
PE III-A: County Officials	Issue proclamations to groups, industries, businesses and individuals that have provided outstanding contributions to water pollution prevention.		✓	To be implemented as appropriate.	Ongoing practice.
PE III-B: County Department Partnerships	Maintain opportunities to work with County departments to promote the storm water message by incorporating public awareness and county responsibilities into staff training.		✓	Ongoing practice.	Ongoing practice.
PE III-B: County Department Partnerships	Place an article in the County Voice newsletter twice a year that is distributed monthly to all employees.		✓	Ongoing practice.	Ongoing practice.
PE III-C: Annual Agency and Board of Supervisors Update	Provide copies of the annual Storm Water Management Program report that are submitted to the Regional Water Quality Control Board to all cooperating County departments and the Board of Supervisors.		✓	Completed.	Annual updates.

2. Public Involvement and Participation

BMP	Description	Status					
		Implemented	Not Applicable	Modified ¹	Effective	Unknown	Not Effective
PP II-A: Public Meetings	Butte County's Storm Water Management Program has been discussed with the Board of Supervisors in several public meetings on grading issues.	✓					
PP II-A: Public Meetings	Incorporate storm water message and encourage public comment at appropriate public meetings held throughout the permit term.	✓					
PP II-B: Community Waterbody Cleanups	Partner with governmental and citizen's groups, such as school districts, environmental groups and neighborhood associations to encourage local citizens to participate in creek cleanup activities.	✓					
PP II-B: Community Waterbody Cleanups	Develop and maintain an "Adopt a Storm Drain" Program to encourage citizens, schools or community groups to assist in the care of a storm drain in their neighborhood.			✓			

a. BMPs

i. General summary

The Public Participation and Involvement minimum control measure allows the public the opportunity to get involved with the County's Storm Water Management Program. Boards of Supervisor public meetings allow the public an opportunity to voice their concerns about storm water pollution. Butte County participated in several community celebrations and cleanup events during the fourth year of the permit. The annual Bidwell Park & Creek Cleanup hosted by the Butte Environmental Council with Butte County support has eliminated tons of trash from within Bidwell Park.

ii. Status of Measurable Goals

Most of the fourth year's measurable goals were achieved. The storm drain inlet marking program and the "Adopt-A-Storm Drain" Program were modified but will be fully implemented by the end of the permit term.

iii. Appropriateness

The minimum control measures implemented in the fourth year of the permit term are appropriate to the County's Storm Water Management Program. The first four years BMP's will provide a basis for an effective and measurable program for compliance with the Storm Water Permit in the final year of the first five year permit term.

iv. Effectiveness

The first four years of the permit term have no definitive way to measure the overall effectiveness of all the control measures implemented so far. The community clean up events and recycling programs have resulted in substantial amounts of trash, tires, used oil, oil filters, and debris being removed from areas that could have produced storm water pollution. The initial public opinion survey has provided a baseline to measure how the subsequent permit year's implementation of other measures has been effective.

v. Proposed Modifications

The modifications within the Public Involvement and Participation minimum measure is the delay of implementation of the Adopt-A-Storm Drain Program until the last year in the permit term and the elimination of the classroom presentation measure as there is no longer any schools within the County's permit area.

- b. Results of information collected and analyzed, if any, during the reporting period, including any monitoring data used to assess the success of the program at reducing the discharge of pollutants to the MEP.

The community clean up and other community events resulted in substantial amounts of trash, tires, used oil, oil filters, and debris being removed from areas that could have contributed to storm water pollution within the permit area. Butte County's agricultural oil recovery program received thousands of gallons of oil and numerous filters. The Paradise curbside oil recovery efforts continue to be well received. Also the high school shop best management practices oil recycling program continues to make high school auto shop participants aware of the benefits of recycling automobile oil.

- c. Briefly summarize the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule). If you propose activities that differ from those originally proposed in the approved SWMP, provide justification.

During the next reporting cycle the public will continue to have an opportunity to participate at the annual Storm Water Management Program updates for the Board of Supervisors as well as other meetings held by various groups within the permit area, such as environmental group meetings. There are several community clean up events planned by local groups that will provide the public the opportunity to become involved. The chart below outlines the County's next reporting cycle's storm water activities that will be implemented. The Ongoing Implementation column describes activities to be implemented throughout the remainder of the permit term.

BMP	Proposed Measurable Goal	Modified?		Schedule	
		YES	NO	Complete this year	Ongoing Implementation
PP II-A: Public Meetings	Incorporate storm water message and encourage public comment at appropriate public meetings held throughout the permit term.		✓	Ongoing practice.	Ongoing practice.
PP II-B: Community Waterbody Cleanups	Partner with governmental and citizen's groups, such as School Districts, environmental groups and neighborhood associations to encourage local citizens to participate in creek cleanup activities. Advertise events as part of media campaign in Public Education and Outreach Minimum Measure.		✓	Partnered on several events through 7/07.	Ongoing practice.
PP II-B: Community Waterbody Cleanups	Develop an "Adopt a Storm Drain" program to encourage citizens, schools or community groups to assist in the care of a storm drain in their neighborhood.	✓		Program guidelines completed	Full implementation by end of fifth year.

3. Illicit Discharge Detection and Elimination

BMP	Description	Status					
		Implemented	Not Applicable	Modified ¹	Effective	Unknown	Not Effective
IDE I-A: Create Ordinance	Develop storm water ordinance by 4/05 to provide the legal authority for regulating illegal discharges and provide for enforcement activities.			✓			
IDE II-A: Identify Problem Areas	Develop and prioritize a list of outfalls based on the likelihood of illicit discharges.	✓					
IDE II-B: Find the Source	Once an illicit discharge occurs, determine source of discharge by using investigative methods	✓					
IDE II-C: Remove/Correct Illicit Connection or Discharge	Offending discharger will be required to correct problem. Ordinance passage will identify enforcement procedures.	✓					
IDE III-A: Strategy	Coordinate with the Public Education and Outreach Element and with other agencies to educate the public on proper waste disposal alternatives and the elimination of illicit discharges.	✓					
IDE III-B: Storm Drain Stenciling	In conjunction with the Public Education and Outreach drain marking program, develop and maintain a volunteer storm drain marking program and new development inlet marking program.	✓					
IDE III-C: Hazardous Waste Collection	In conjunction with the County's Solid Waste Division, continue to promote, with a storm water message, the availability of the County's household hazardous waste collection facility.	✓					
IDE III-D: Waste Oil Collection	In conjunction with the County's Solid Waste Division, continue to promote, with a storm water message, the availability of the County's used oil collection facilities.	✓					
IDE IV-A: Develop Storm Drain System Map	Develop and continually update the County's storm drain system map to show locations of outfalls, new drains inlets, tributary areas, and receiving waters. This map will be used for the storm drain inlet marking program, illicit discharge, construction and the (municipal) county operations elements of the County's Storm Water Management Program.	✓					

a. BMPs

i. General summary

The Illicit Discharge Detection and Elimination minimum measure requires some activities that have been in place prior to the start of the Storm Water Permit term. Hazardous waste spills and other spills throughout the county have been responded to and cleaned up and responsible parties were identified. A committee was formed and has met several times to discuss the development an ordinance addressing illicit discharges and will outline specific responses and enforcement actions. The county's used oil recycling and household hazardous waste programs continue and the new e-waste disposal program will help to alleviate potential sources of storm water pollution. The County also passed an illegal dumping ordinance that will help keep illegal dumping activities especially near waterways clear of trash. Continued refinement of the permit area's storm drain system map will be a valuable tool in responding to illicit discharges.

ii. Status of Measurable Goals

100% of the fourth year's measurable goals have been achieved except for finalizing the storm water ordinance language. The Stormwater Ordinance will be completed in the final year of the first permit term.

iii. **Appropriateness**

The minimum control measures implemented in the fourth year of the permit term are a combination of existing activities and several new ones. The County's Storm Water Management Program's development of an illicit discharge ordinance will be a tool for making the public aware of the penalties for storm water pollution from negligent or purposeful acts. The permit's BMPs will provide a basis for an effective and measurable program for compliance with the Storm Water Permit in the following years.

iv. **Effectiveness**

The used oil recycling and household hazardous waste programs have seen increased participation in these programs due to the extensive public education activities within those programs. New programs, such as the e-waste program and the illegal dumping ordinance code enforcement will further reduce potential storm water pollution. In subsequent permit years, with the increased emphasis on public education on reducing storm water pollution, measures will be implemented to allow for additional measurable documentation of their effectiveness.

v. **Proposed Modifications**

The only modifications needed is delaying the finalization of the language of the storm water ordinance and establishing a reporting hotline to the final year of the first permit term.

b. Results of information collected and analyzed, if any, during the reporting period, including any monitoring data used to assess the success of the program at reducing the discharge of pollutants to the MEP.

There are 13 locations within the Chico area that residents can bring their used motor oil to for recycling. There is a location within the permit area where household hazardous waste materials can be taken to be disposed of properly. Butte County's agricultural oil recovery program received thousands of gallons of oil and several drum filters. The Paradise curbside oil recovery effort continues to be well received. Also the high school shop best management practices oil recycling program continues to make high school auto shop participants aware of the benefits of recycling automobile oil. The new e-waste recycling program at the Neal Road Sanitary Landfill helps eliminate potential pollution from old computers, television and cell phones. The illegal dumping ordinance also helps reduce storm water pollution.

c. Briefly summarize the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule). If you propose activities that differ from those originally proposed in the approved SWMP, provide justification.

The following chart outlines the County's next reporting cycle's storm water activities that will be implemented within the Illicit Discharge Detection and Elimination measure. The Ongoing Implementation column describes activities to be implemented throughout the remainder of the permit term.

BMP	Proposed Measurable Goal	Modified?		Schedule	
		YES	NO	Complete this year	Ongoing Implementation
IDE I-A: Create Ordinance	Develop storm water ordinance to provide the legal authority for regulating illegal discharges and provide for enforcement activities.	✓		Ordinance language completed in the fifth year of the permit.	Ordinance passage and enforcement by end of fifth year.
IDE I-B: Agency Coordination	Develop a system to share information and assistance to facilitate inclusion of the Storm Water Ordinance with enforcement activities among various departments and agencies.		✓		Implementation to begin after ordinance adoption scheduled to be done by end of permit term.
IDE II-A: Identify Problem Areas	Develop a Storm Water Hotline for citizen's to report observed illicit discharge activities.		✓	Committee discussions held to implement.	To be completed by 12/31/07.
IDE II-B: Find the Source	Once an illicit discharge occurs, determine source of discharge by using investigative methods		✓	Ongoing procedures.	Ongoing procedures.

BMP	Proposed Measurable Goal	Modified?		Schedule	
		YES	NO	Complete this year	Ongoing Implementation
IDE II-C: Remove/Correct Illicit Connection or Discharge	Offending discharger will be required to correct problem. Ordinance passage will identify enforcement procedures.	✓		Committee discussions held to implement.	Implement enforcement after ordinance is adopted.
IDE III-A: Strategy	Upon development and passage of a storm water ordinance that deals with illicit discharges, develop guidance and enforcement guidelines for departments involved in illicit discharge elimination procedures.	✓		Committee discussions held to implement.	Full implementation after ordinance is adopted.
IDE III-C: Hazardous Waste Collection	In conjunction with the County's Solid Waste Division, continue to promote, with a storm water message, the availability of the County's household hazardous waste collection facility.		✓	Ongoing procedures.	Ongoing procedures.
IDE III-D: Waste Oil Collection	In conjunction with the County's Solid Waste Division, continue to promote, with a storm water message, the availability of the County's used oil collection facility.		✓	Ongoing procedures.	Ongoing procedures.
IDE IV-A: Develop Storm Drain System Map	Develop and continually update the County's storm drain system map to show locations of outfalls, new drains inlets, tributary areas, and receiving waters. This map will be used for the storm drain inlet marking program, illicit discharge, construction and the (municipal) county operations elements of the County's Storm Water Management Program.		✓	Continued marking of storm drains until completed.	Continued marking of storm drains until completed.

4. Construction Site Storm Water Control

BMP	Description	Status					
		Implemented	Not Applicable	Modified ¹	Effective	Unknown	Not Effective
CE I-A: Developer Outreach	Educate and provide guidance to the construction and developer communities on storm water pollution control construction activities. Outreach may include brochures, workshops, technical papers, etc.	✓					
CE I-B: County Staff Outreach	Educate and provide guidance to County staff on storm water pollution control construction activities. Outreach may include staff meetings, training sessions and seminars.	✓					
CE II-A: Update Ordinance	Develop construction ordinance incorporating storm water pollution controls components for construction activities.	✓					
CE II-A: Update Ordinance	Ordinance in place.			✓			
CE II-B: Update Development Standards	Develop erosion, sediment, and pollution control standards and specifications to provide construction guidelines for reduction in construction activity storm water pollution.			✓			
CE III-A: Plan Review and Approval	Ensure projects adequately address storm water pollution reduction best management practices in the plan review process. Information on the NPDES General Construction Storm Water Permit and compliance requirements are discussed at the time a construction permit is requested.	✓					
CE III-B: Inspection	Inspection and enforcement staff will be trained to ensure that pollution control measures are implemented, properly installed and maintained during construction. SWPPPs will be monitored for compliance.	✓					
CE III-C: Record Keeping	Develop a database for tracking construction activity and BMP usage to measure effectiveness of different designs and practices in various construction projects. BMPs that are ineffective will be discontinued and effective BMPs will be recommended.	✓					

a. BMPs

i. General summary

The fourth year of the Construction Minimum Measure continues with developer and staff related educational processes to stress the importance of reducing storm water pollution potential with sound construction related BMPs during the construction process. The process of creating and passing ordinances that deal with construction storm water pollution reduction, erosion and sediment control, and grading is ongoing. Research was gathered on other community's ordinances and a committee has been regularly meeting to get an ordinance in place by April 2008. Staff training on storm water pollution control measures and database development for tracking construction activity and BMP usage is ongoing. For every building permit application submitted a signed statement from the owner or contractor agent stating that their project disturbs either less than one acre of land or more than an acre of land must be included in the file before permit issuance. If a project meets the one acre or more threshold, information on the State Construction Storm Water Permit Program is given to the permit applicant for their use in compliance with the Program.

ii. Status of Measurable Goals

Most of the fourth year's measurable goals have been achieved.

iii. Appropriateness

The fourth year's construction control minimum measures have been appropriate in reaching the county's goal of being fully implemented by 2008. The process of passing an ordinance is a time consuming process as public acceptance is needed for passage. The requirement of a signed compliance form on each project educates the development community on storm water pollution reduction requirements.

iv. Effectiveness

Measured effectiveness through the fourth year of the county's permit term is difficult to ascertain. The next year of the permit term will offer increased opportunities to more readily measure the construction control measure's effectiveness in reducing storm water pollution.

v. Proposed Modifications

Modifications for the construction minimum measures currently outlined in the Butte County Storm Water Management Program involve pushing back the dates to finalize a construction storm water ordinance, pass the revised development standards and setup the database for BMPs.

- b. Results of information collected and analyzed, if any, during the reporting period, including any monitoring data used to assess the success of the program at reducing the discharge of pollutants to the MEP.

Not applicable this permit year.

- c. Briefly summarize the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule). If you propose activities that differ from those originally proposed in the approved SWMP, provide justification.

The following chart outlines the County's next reporting cycle's storm water activities that will be implemented within the construction control measure. The Ongoing Implementation column describes activities to be implemented throughout the remainder of the permit term.

BMP	Proposed Measurable Goal	Modified?		Schedule	
		YES	NO	Complete this year	Ongoing Implementation
CE I-A: Developer Outreach	Educate and provide guidance to the construction and developer communities on storm water pollution control construction activities. Outreach may include brochures, workshops, technical papers, etc.		✓	Brochures on the Construction Storm Water Permit and storm water pollution reduction activities are made available throughout the year.	Ongoing procedures of making educational materials available.
CE I-B: County Staff Outreach	Educate and provide guidance to County staff on storm water pollution control construction activities. Outreach may include staff meetings, training sessions and seminars.		✓	Educational materials have been made available to County staff.	Minimum of one training session each year, more if opportunities arise.
CE II-A: Update Ordinance	Develop construction ordinance incorporating storm water pollution controls components for construction activities.	✓		Draft ordinance language being developed.	Revised Grading Ordinance adopted by 4/08.
CE II-A: Update Ordinance	Ordinance in place.	✓		Finalize language to be included in the ordinance.	Ordinance in place and enforcement begins by 4/08.

BMP	Proposed Measurable Goal	Modified?		Schedule	
		YES	NO	Complete this year	Ongoing Implementation
CE II-B: Update Development Standards	Develop erosion, sediment, and pollution control standards and specifications to provide construction guidelines for reduction in construction activity storm water pollution.	✓		Finalize language on Development Standards.	Finalized by 4/08.
CE III-A: Plan Review and Approval	Ensure projects adequately address storm water pollution reduction best management practices in the plan review process. Information on the NPDES General Construction Storm Water Permit and compliance requirements are discussed at the time a construction permit is requested.		✓	Continue to provide information on Construction Storm Water Permit rules.	Ongoing procedure.
CE III-B: Inspection	Inspection and enforcement staff will be trained to ensure that pollution control measures are implemented, properly installed and maintained during construction. SWPPPs will be monitored for compliance.		✓	Additional training with ordinance development.	Ongoing training as appropriate.
CE III-C: Record Keeping	Develop a database for tracking construction activity and BMP usage to measure effectiveness of different designs and practices in various construction projects. BMPs that are ineffective will be discontinued and effective BMPs will be recommended.	✓		Construction activity and BMP tracking database usage begins 4/08.	Ongoing procedure.

5. Post-Construction Storm Water Management

If your community is subject to Attachment 4 (Supplemental Provisions) of the General Permit, note your compliance with and progress implementing the Design Standards in this section, if applicable.

<i>BMP</i>	<i>Description</i>	<i>Status</i>					
		<i>Implemented</i>	<i>Not Applicable</i>	<i>Modified</i>	<i>Effective</i>	<i>Unknown</i>	<i>Not Effective</i>
Post-Construction							
PC I-A: Regulatory Mechanism	Establish an Ordinance or other regulatory mechanism requiring the implementation of post-construction runoff controls.			✓			
PC I-A: Regulatory Mechanism	Ordinance in place.			✓			
PC I-B: Review and Approval Procedures	Develop and implement a process to incorporate adequate structural and nonstructural BMPs in development projects to address post-construction storm water management issues to reduce storm water pollution after construction is completed.	✓					
PC II-A: Non-Structural BMP Practices	These practices are intended to prevent or control the sources of pollutants. They include education on proper waste disposal and use of pesticides, herbicides and fertilizers, as well as good construction activity housekeeping. These practices will also be part of the Public Education and Outreach and Construction Developer Outreach elements.	✓					
PC II-B: Structural BMP Practices	These practices are intended to reduce the amount of pollutants that enter state waters. They include storage, infiltration, and vegetative practices for post-construction pollution control.	✓					
PC II-C: Regional BMP Practices	These practices are implemented downstream of a large drainage area. The only regional BMP in the Butte County permit area is within the City of Chico and will be addressed in their SWMP.	✓					
PC III-A: Compliance During Construction	Ensure projects adequately address storm water pollution reduction best management practices in the plan review process. Information on the NPDES General Construction Storm Water Permit and compliance requirements are discussed at the time a construction permit is requested.	✓					
PC IV-A: Long-Term Operation & Maintenance of Post Construction BMPs	Ensure projects adequately address the long-term operation and maintenance of post-construction BMPs. Condition recorded maps to make legal owner responsible for maintaining the post-construction BMPs.	✓					
PC V-A: Long-Term Documentation & Monitoring of BMPs	Develop a database of all new post-construction BMPs to ensure compliance of the requirements for maintaining post-construction BMPs.			✓			
PC V-A: Long-Term Documentation & Monitoring of BMPs	Develop an inspection and enforcement program, in conjunction with the Storm Water Ordinances, to ensure BMPs are maintained in good working order.			✓			
New Development and Redevelopment							
NDE I-A: Developer Assistance	Educate and provide outreach to the construction and developer communities on regional storm water pollution control construction activities. Outreach may include brochures, workshops, technical papers, etc.	✓					
NDE I-B: County Staff Assistance	Provide training and guidance to County staff on regional storm water pollution control construction activities. Outreach may include staff meetings, training sessions and seminars.	✓					

<i>BMP</i>	<i>Description</i>	<i>Status</i>					
		<i>Implemented</i>	<i>Not Applicable</i>	<i>Modified¹</i>	<i>Effective</i>	<i>Unknown</i>	<i>Not Effective</i>
NDE II-A: Update Standards	Develop and adopt development standards for erosion, sediment, and pollution control measures and regional control specifications to provide construction guidelines for reduction in construction activity storm water pollution.			✓			
NDE II-A: Update Standards	Update and revise design standards as appropriate.	✓					
NDE II-B: BMP Research	Identify and evaluate BMP performance and actively seek improved or more efficient BMPs as research or observed effectiveness is demonstrated.	✓					
NDE III-A: Development Review Process	Condition projects to incorporate minimum design standards and comply with post-construction requirements during the entitlement process. Ensure projects incorporate regional control measures where appropriate.	✓					
NDE III-B: Maintenance Protocols	Develop and implement maintenance protocols for watershed control measures.	✓					
NDE III-C: Record Keeping	Develop and maintain record keeping and data management procedures for tracking regional control measures and their maintenance.	✓					
NDE IV-A: Development Review Process	Condition projects to comply with post-construction requirements of incorporating and constructing on-site control measures that meet design standards.	✓					
NDE IV-B: Maintenance Protocols	Develop and implement maintenance and inspection protocols for on-site control measures.			✓			
NDE IV-C: Record Keeping	Develop and maintain record keeping and data management procedures for tracking on-site control measures and their maintenance.			✓			

a. **BMPs**

i. **General summary**

Butte County is not subject to Attachment 4 (Supplemental Provisions) of the General Permit. The Post Construction BMPs will be an integral part of the Storm Water and Grading Ordinances being developed for the county and will be in place and enforced beginning 4/08. The fourth year of the post construction minimum measure control involved using information gathered in the first three years for developing an ordinance that deals with construction and post construction permanent BMPs and the long term maintenance responsibilities to ensure their continued effectiveness.

ii. **Status of Measurable Goals**

Most of the fourth year's measurable goals have been achieved.

iii. **Appropriateness**

The BMPs used in the Post Construction minimum measure are appropriate to Butte County and will help reduce storm water pollution to the maximum extent practicable once they are in place and being enforced through the adoption of a local ordinances.

iv. Effectiveness

The effectiveness of the post construction minimum measure can be more accurately measured after the appropriate ordinances have been developed. This will give the opportunity to direct appropriate post construction measures on development projects and to monitor the effectiveness on the BMPs used.

v. Proposed Modifications

The only modifications for the construction minimum measures currently outlined in the Butte County Storm Water Management Program involve pushing back the dates to finalize the Storm Water and Grading Ordinances, pass the revised development standards and setup the database for BMPs.

- b. Results of information collected and analyzed, if any, during the reporting period, including any monitoring data used to assess the success of the program at reducing the discharge of pollutants to the MEP.

Not applicable this permit year.

- c. Briefly summarize the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule). If you propose activities that differ from those originally proposed in the approved SWMP, provide justification.

The following chart outlines the County's next reporting cycle's storm water activities that will be implemented within the Post Construction control measure. The Ongoing Implementation column describes activities to be implemented throughout the remainder of the permit term.

BMP	Proposed Measurable Goal	Modified?		Schedule	
		YES	NO	Complete this year	Ongoing Implementation
Post-Construction					
PC I-A: Regulatory Mechanism	Establish an Ordinance or other regulatory mechanism requiring the implementation of post-construction runoff controls.	✓		Continued meetings held to develop ordinance language.	Ordinance adoption by 4/08.
PC I-A: Regulatory Mechanism	Ordinance in place.	✓		Continued meetings held to develop ordinance language.	Enforcement of ordinance begins 4/08.
PC I-B: Review and Approval Procedures	Develop and implement a process to incorporate adequate structural and nonstructural BMPs in development projects to address post-construction storm water management issues to reduce storm water pollution after construction is completed.		✓	Development of post construction storm water controls by 4/08.	Revisions and/or additions as appropriate.
PC II-A: Non-Structural BMP Practices	These practices are intended to prevent or control the sources of pollutants. They include education on proper waste disposal and use of pesticides, herbicides and fertilizers, as well as good construction activity housekeeping. These practices will also be part of the Public Education and Outreach and Construction Developer Outreach elements.		✓	Continued usage of information on non-structural BMP practices throughout the permit term.	Revisions and/or additions as appropriate.
PC II-B: Structural BMP Practices	These practices are intended to reduce the amount of pollutants that enter state waters. They include storage, infiltration, and vegetative practices for post-construction pollution control.		✓	Materials for proper structural BMP usage available since 7/04.	Continued usage of information on structural BMP practices throughout the permit term.

BMP	Proposed Measurable Goal	Modified?		Schedule	
		YES	NO	Complete this year	Ongoing Implementation
PC II-C: Regional BMP Practices	These practices are implemented downstream of a large drainage area. The only regional BMP in the Butte County permit area is within the City of Chico and will be addressed in their SWMP.		✓	Consideration of regional BMPs whenever appropriate.	Consideration of regional BMPs whenever appropriate.
PC III-A: Compliance During Construction	Ensure projects adequately address storm water pollution reduction best management practices in the plan review process. Information on the NPDES General Construction Storm Water Permit and compliance requirements are discussed at the time a construction permit is requested.		✓	Ongoing procedures.	Enforcement of proper BMP usage post ordinance passage in 4/08.
PC IV-A: Long-Term Operation & Maintenance of Post Construction BMPs	Ensure projects adequately address the long-term operation and maintenance of post-construction BMPs. Condition recorded maps to make legal owner responsible for maintaining the post-construction BMPs.		✓	Ongoing procedures.	Enforcement of BMP operation and maintenance post ordinance passage 4/08.
PC V-A: Long-Term Documentation & Monitoring of BMPs	Develop a database of all new post-construction BMPs to ensure compliance of the requirements for maintaining post-construction BMPs.	✓		Construction activity and BMP tracking database usage begins 4/08.	Annual mailing to ensure proper BMP maintenance begins 4/08.
PC V-A: Long-Term Documentation & Monitoring of BMPs	Develop an inspection and enforcement program, in conjunction with the Storm Water Ordinances, to ensure BMPs are maintained in good working order.		✓	Being developed during ordinance creation.	Enforcement program begins after ordinance passage 4/08.
New Development and Redevelopment					
NDE I-A: Developer Assistance	Educate and provide outreach to the construction and developer communities on regional storm water pollution control construction activities. Outreach may include brochures, workshops, technical papers, etc.		✓	Informational material on the NPDES Phase II requirements made available at the Public Works counter	Continued availability of materials on Storm Water Construction Permit requirements made available throughout permit term.
NDE I-B: County Staff Assistance	Provide training and guidance to County staff on regional storm water pollution control construction activities. Outreach may include staff meetings, training sessions and seminars.		✓	Training on regional concerns to be utilized by staff as opportunities arise.	Training on regional concerns to be utilized by staff as opportunities arise.
NDE II-A: Update Standards	Develop and adopt development standards for erosion, sediment, and pollution control measures and regional control specifications to provide construction guidelines for reduction in construction activity storm water pollution.	✓		Ongoing committee to finalize language on Development Standards.	To be finalized by 4/08.
NDE II-A: Update Standards	Update and revise design standards as appropriate.		✓	Ongoing committee to finalize language on Development Standards.	Ongoing procedure throughout permit period.
NDE II-B: BMP Research	Identify and evaluate BMP performance and actively seek improved or more efficient BMPs as research or observed effectiveness is demonstrated.		✓	Technical Advisory Committee (TAC) membership with City of Chico for BMP effectiveness study	Ongoing TAC participation.

BMP	Proposed Measurable Goal	Modified?		Schedule	
		YES	NO	Complete this year	Ongoing Implementation
NDE III-A: Development Review Process	Condition projects to incorporate minimum design standards and comply with post-construction requirements during the entitlement process. Ensure projects incorporate regional control measures where appropriate.		✓	In process during the development of ordinance language.	To be implemented following ordinance adoption in 4/08.
NDE III-B: Maintenance Protocols	Develop and implement maintenance protocols for watershed control measures.	✓		In process during the development of ordinance language.	Implementation of protocols in 4/08.
NDE III-C: Record Keeping	Develop and maintain record keeping and data management procedures for tracking regional control measures and their maintenance.	✓		Maintain record keeping and data management procedures.	Ongoing procedures.
NDE IV-A: Development Review Process	Condition projects to comply with post-construction requirements of incorporating and constructing on-site control measures that meet design standards.		✓	In process during the development of ordinance language.	Ongoing process after ordinance passage 4/08.
NDE IV-B: Maintenance Protocols	Develop and implement maintenance and inspection protocols for on-site control measures.		✓	In process during the development of ordinance language.	Ongoing process after guidelines developed 4/08.
NDE IV-C: Record Keeping	Develop and maintain record keeping and data management procedures for tracking on-site control measures and their maintenance.	✓		In process during the development of ordinance language.	Ongoing process after guidelines developed 4/08.

6. Pollution Prevention and Good Housekeeping for Municipal Operations

<i>BMP</i>	<i>Description</i>	<i>Status</i>					
		<i>Implemented</i>	<i>Not Applicable</i>	<i>Modified¹</i>	<i>Effective</i>	<i>Unknown</i>	<i>Not Effective</i>
(M)CE I-A: County Facility SWPPPs	Conduct inspections of County facilities within permit area to determine if work activities have the potential for storm water pollution.	✓					
(M)CE I-A: County Facility SWPPPs	Prepare SWPPPs for County facilities that have storm water pollution potential.	✓					
(M)CE I-B: County Activity Training	Provide training for County departmental personnel on how various departments within the County may contribute to storm water pollution and what can be done to reduce the potential of storm water pollution.	✓					
(M)CE I-C: New Facility BMPs	Review design plans for proposed new County facilities and incorporate pollutant control measures in the design as appropriate.	✓					
(M)CE I-D: Non-Storm Water Discharges	Any discharges of non-storm water from County facilities will be identified and control measures will be implemented to eliminate or reduce pollutants. If necessary, the County will obtain RWQCB approval for authorized discharges.	✓					
(M)CE II-A: Sweeping	Assess the feasibility of implementing a sweeping program. The County's road areas are mostly without curb and gutter so a sweeping will not be implemented.	✓					
(M)CE II-B: Drainage System Maintenance	The County has a current program to clean out all storm drain inlets prior to the rain season each year. The frequency of inlet cleaning of some inlets may be modified as the adopt-a-drain and illicit discharge hotline programs are in place and the public makes the County aware of problem areas. Documentation of maintenance activities will be developed and included in the annual reports to the RWQCB.	✓					
(M)CE II-C: Structural Control Operation and Maintenance	The County currently maintains structural control devices in settling and treatment facilities at detention basins, along with low-flow control measures to ensure the effective removal of pollutants. Documentation of maintenance activities will be developed and included in the annual reports to the RWQCB.	✓					
(M)CE II-D: Waste Recycling	The County currently has an ongoing public waste recycling, used oil recycling and household hazardous waste collection/disposal programs. These programs will include elements of the storm water pollution message. Documentation of activities will be developed and included in the annual reports to the RWQCB.	✓					
(M)CE III-A: Employee Training Program	Conduct training sessions for County employees on their specific departmental activities that can reduce storm water pollution from County operations.	✓					
(M)CE III-B: Employee Feedback Program	Develop a program to gather information on County activities and suggestions for improvement from County employees.	✓					

a. BMPs

i. General summary

The Pollution Prevention/Good Housekeeping for Municipal (County Operations), referred to as the (Municipal) County Element minimum measures, requires the County to evaluate the various departments to determine the potential for storm water pollution and to modify the work site or use BMPs to reduce storm water pollution. Upon inspection of county facilities within the permit area it was determined there was no need to develop a storm water pollution prevention plan for any County Departments within the permit area as the facilities are mostly offices performing clerical operations. This measure ensures the County does not contribute to storm water pollution by employing effective BMPs. A county wide employee storm water puzzle contest was done in the Spring issue of the County Voice newsletter and was well received. 75 winners picked at random from all the contest participants were given a raindrop shaped squeeze ball that had a printed copy of Butte County's storm drain inlet marker's message of "No Dumping, Drains to Creek". The County's Solid Waste Department oversees the recycling efforts within the County. The used oil, household hazardous waste and e-waste programs will contain a storm water pollution reduction message. County employees will receive information and training in ways to reduce storm water pollution in the performance of their job. County road crews are responsible for drain inlet cleaning and structural control maintenance to ensure that they work properly.

ii. Status of Measurable Goals

100% of the fourth year's measurable goals have been achieved.

iii. Appropriateness

The current control measures being implemented for County operations appear appropriate in reducing potential storm water pollution. The County, through its employees and operational work methods, will strive to be model for the community in proper storm water pollution reduction activities.

iv. Effectiveness

The fourth year of the County's five year permit term does not have enough measurable elements to quantify its effectiveness. In the final year of the permit term there will be an evaluation of employee's storm water awareness to better quantify the effectiveness of the BMPs used.

v. Proposed Modifications

There are no modifications proposed for this measure at this time.

b. Results of information collected and analyzed, if any, during the reporting period, including any monitoring data used to assess the success of the program at reducing the discharge of pollutants to the MEP.

There is no monitoring data to analyze and report on for the fourth year within this minimum measure.

c. Briefly summarize the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule). If you propose activities that differ from those originally proposed in the approved SWMP, provide justification.

During the last four years of the County's Storm Water Management Program training of County employees will continue to focus on storm water pollution reduction practices. Continued maintenance of storm drainage systems will be documented and tracked. The County's recycling programs will emphasize storm water pollution reduction methods and employee feedback processes will be in place to better quantify the measurable results of this minimum control measure.

BMP	Proposed Measurable Goal	Modified?		Schedule	
		YES	NO	Complete this year	Ongoing Implementation
(M)CE I-A: County Facility SWPPPs	Conduct inspections of County facilities within permit area to determine if work activities have the potential for storm water pollution.		✓	Done in second permit year.	Revisions made if operations change.
(M)CE I-A: County Facility SWPPPs	Prepare SWPPPs for County facilities that have storm water pollution potential.		✓	None needed.	Revisions made if operations change
(M)CE I-B: County Activity Training	Provide training for County departmental personnel on how various departments within the County may contribute to storm water pollution and what can be done to reduce the potential of storm water pollution.		✓	Continue training sessions for County personnel.	Continued training throughout permit term.
(M)CE I-C: New Facility BMPs	Review design plans for proposed new County facilities and incorporate pollutant control measures in the design as appropriate.		✓	Ongoing requirement for new County buildings.	Ongoing requirement for new County buildings throughout permit term.
(M)CE I-D: Non-Storm Water Discharges	Any discharges of non-storm water from County facilities will be identified and control measures will be implemented to eliminate or reduce pollutants. If necessary, the County will obtain RWQCB approval for authorized discharges.		✓	Discharges are not anticipated but the County will obtain RWQCB prior to a discharge.	Discharges are not anticipated but the County will obtain RWQCB prior to a discharge.
(M)CE II-A: Sweeping	Assess the feasibility of implementing a sweeping program. The County's road areas are mostly without curb and gutter so sweeping is not feasible.		✓	Completed.	Re-evaluate sweeping program if design and construction changes make it appropriate.
(M)CE II-B: Drainage System Maintenance	The County has a current program to clean out all storm drain inlets prior to the rain season each year. The frequency of inlet cleaning of some inlets may be modified as the adopt-a-drain and illicit discharge hotline programs are in place and the public makes the County aware of problem areas. Documentation of maintenance activities will be developed and included in the annual reports to the RWQCB.		✓	Continue program to clean out all storm drain inlets prior to the rain season each year.	Continue program to clean out all storm drain inlets prior to the rain season each year. Track inlets cleaned on database.
(M)CE II-C: Structural Control Operation and Maintenance	The County currently maintains structural control devices in settling and treatment facilities at detention basins, along with low-flow control measures to ensure the effective removal of pollutants. Documentation of maintenance activities will be developed and included in the annual reports to the RWQCB.		✓	Continue program to maintain structural controls throughout the year.	Continue program to maintain structural controls throughout the year.
(M)CE II-D: Waste Recycling	The County currently has an ongoing public waste recycling, used oil recycling and household hazardous waste collection/disposal programs. These programs will include elements of the storm water pollution message. Documentation of activities will be developed and included in the annual reports to the RWQCB.		✓	Continue ongoing public waste recycling, used oil recycling and household hazardous waste collection / disposal programs	Continue ongoing public waste recycling, used oil recycling and household hazardous waste collection / disposal programs
(M)CE III-A: Employee Training Program	Conduct training sessions for County employees on their specific departmental activities that can reduce storm water pollution from County operations.		✓	Continue training.	Continue training
(M)CE III-B: Employee Feedback Program	Develop a program to gather information on County activities and suggestions for improvement from County employees.		✓	Implementation of feedback program.	Ongoing procedure.

E. Certification

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

Signature of Permittee (legally responsible person)

Date Signed

Mike Crump

9/4/07

Mike Crump, Director of Butte County Public Works

Article for the next 2007 Issue of "The County Voice"

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Article:

The Butte County Storm Water Management Program is a requirement of the Clean Water Act and the National Pollutant Discharge Elimination System (NPDES) Phase II Permit for Municipal Separate Storm Sewer Systems (MS4s). Education is a key component of Butte County's Program. Please read the following paragraph and then find the words in bold in the word scramble below. Words can be in any direction, (up, down, forward, backwards or in any direction diagonally) and some words are found more than once. *There is one bolded word that cannot be found.* If you send an e-mail to stormwater@buttecounty.net and give the correct word that cannot be located in the word scramble you will be entered into a drawing for several prizes. Please only one e-mail response per The County Voice reader. Contest ends 3 weeks after publication of this issue.

Everybody should be concerned **about** the **environment**. **Oil** and **sediment** flowing into a **drain inlet** can be **toxic** and **pollute** **streams, rivers** and **groundwater**. Aquatic animals and **fish** need our **help** to **keep** their water clean. Using proper Best Management Practices (**BMPs**) such as **no dumping oil** into **storm** drains can **reduce storm water pollution**. The **Butte County Storm Water Management Program** will help. Learn more about it at www.buttecounty.net/publicworks/stormwater.html.

P	O	L	L	U	T	I	O	N	D	O	C	P
L	R	S	T	R	E	A	M	S	R	I	L	D
Y	A	B	O	U	T	J	A	W	A	T	E	R
H	M	Q	X	Y	P	E	H	S	I	S	A	E
E	N	V	I	R	O	N	M	E	N	T	N	D
V	O	L	C	I	L	F	C	D	V	O	H	U
E	P	K	L	V	L	I	L	I	I	R	E	C
R	D	E	I	E	U	S	Z	M	N	M	L	E
Y	U	E	O	R	T	W	S	E	L	D	Q	A
B	M	P	S	O	E	R	A	N	E	A	W	F
O	P	F	R	A	E	B	U	T	T	E	A	I
D	I	M	K	V	H	W	A	T	E	R	T	S
Y	N	A	I	C	O	U	N	T	Y	R	E	H
X	G	R	O	U	N	D	W	A	T	E	R	F

Storm Water Management Program—Tom Blixt

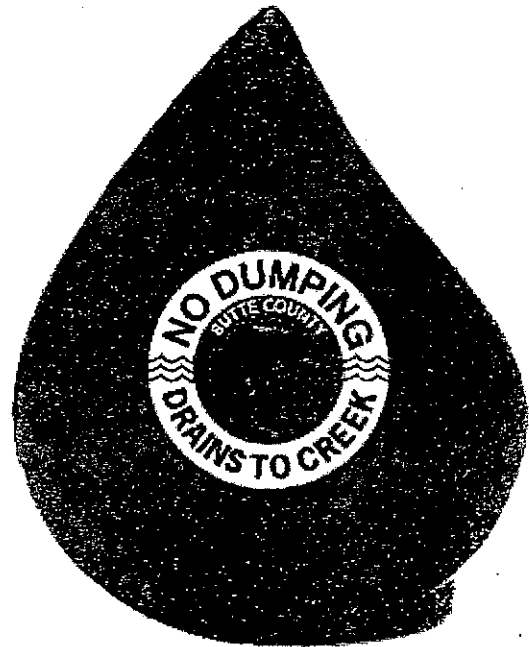
The Butte County Storm Water Management Program's employee education measure is just one of six requirements of the County's national Pollutant Discharge Elimination System (NPDES) Phase II Permit for Municipal Separate Storm Sewer Systems (MS4s). In the last issue of The County VOICE, a storm water puzzle contest had contestants find the missing bolded word for entry into a drawing for a storm water related prize.

The correct answer was the word—HELP. Out of all the correct entries, 75 winners were chosen at random to win a prize. Some of the comments received when contestants entered the contest, were notified they had won a prize, or after they received their prize, were a lot of comments about the puzzle being fun, as well as a lot of thank you(s) and:

Yippee!!! Thank you! / Look forward to getting my prize, Thank you / How in the world are you going to fit my new car in one of those interdepartmental envelopes? / Hehehe!! ☺ / Hurray / Very cool! / Thanks so much! I'm not usually a winner, so this is fun! / WOOHOO! / Cool! / Yeah, I'm a winner!!! / Wow! I forgot all about that. / Wow, I'm thrilled. / Oh boy! / Thank you very much! / Oh, goodie. / Too cool! / It was a fun contest / Thanks for the

drip-drop. I love it! / I think it is cool. Thanks again and have a groovy day.

Hopefully, the storm water puzzle contest made a few more Butte County employees aware of Butte County's Storm Water Management program and their roles in reducing storm water pollution in our local waterways. I thank all of you that participated in the contest.



New Building at #82 Table Mountain Blvd.—Steve Wallenburg

Several County Offices have relocated to #82 Table Mountain Blvd. They are: the Children's and Families Commission (Prop 10), Women, Infants and Children (WIC), and Child Health Disability Prevention (CHDP). These programs and their staff were previously located at 202 Mira Loma. A new program for the Public Health called Senior Health Improvement Program (SHIP) will also move into #82. SHIP is designed to assess seniors who are at risk of chronic disease and injury due to poor nutrition and inactivity. In total Public Health will have about 25 staff at their new office. This move will now allow for the consolidation of the Environmental Health program and staff from Chico and County Center Drive into 202 Mira Loma.

"What's really wonderful about this project is the way the community came together to support our City in its efforts to keep Chico's creeks clean."

—Susan Strachan
BCCWA Project Manager



WHAT IS URBAN RUNOFF?

URBAN RUNOFF is harmful, and even lethal to our creeks. Storm drains in our gutters flow to the creek. Whenever cars are being washed, and when driveways and sidewalks are hosed down, fertilizers, pesticides, litter, and pet waste, end up in the creek, as urban runoff.

Butte County Public Works Department
Solid Waste and Recycling Division
www.team.recycle.com
530.538.7681



Chico USA Clean Creeks Project is a coalition of the City and local environmental and professional groups concerned with the water quality of Chico's creeks. Chico USA includes a public awareness campaign on urban runoff pollution, citizen monitoring of our local creeks and streams, and a study of urban runoff pollution control structures and

**Landscaper
Business
Partners**

for

CHICO USA

**Chico Urban
Streams Alliance**



**Support Our
Community**

**Help Keep Chico's
Creeks Clean**

Partners:
The City of Chico
Project Sponsor



**The Butte
Environmental
Council (BEC)**
Public Education
Community Outreach

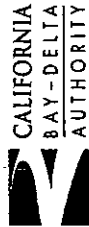


**The Big Chico Creek
Watershed Alliance
(BCCWA)**
Project Management
Citizen Monitoring



**Kennedy/Jenks
Consultants**
Best Management
Practices (BMP)
Performance Evaluation

Kennedy/Jenks Consultants
Engineers & Scientists



**Chico Urban
Streams Alliance
(Chico USA)**
Is funded by
Proposition 13
Watershed
Protection Grant
Program and the
California Bay-
Delta Program
(CALFED) which
has as an objec-
tive to restore
ecological health
and improve
water manage-
ment by working
with the commu-
nity at a water-
shed level.
CALFED is
managed by the
State Water
Resources
Control Board.

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Clean Water Business Partners receive recognition and advertising as a company that cares about Chico's water quality. Clean Water Business Partners commit to implementing Best Management Practices and educating customers.



Upper Bidwell Park

Landscaping Clean Water Business Partners prevent runoff pollution from fertilizer and pesticides. Participating Partners have made a commitment to avoid excessive applications, and take care not to scatter pellets onto sidewalks or parking areas, where during the next rainfall, the chemicals will be washed into the creeks. By doing this, they help to ensure that future generations can use and enjoy our most valuable natural resource...water!

Join the Chico Urban Streams Alliance as a Clean Water Business Partner Today

Program Guidelines

Clean Water Business Partnerships are based on incentives. Landscape Contractors have helped to develop the partnership guidelines and benefits. The guidelines emphasize the implementation of Best Management Practices, employee training, and customer involvement.

- Reducing the amount of pollutants and chemicals that enter the stormdrain system by implementing Best Management Practices (BMPs).
- Educating customers about how they can help.
- Installing and setting irrigation systems to reduce excess irrigation.
- Maintaining landscapes so that soil erosion is limited.

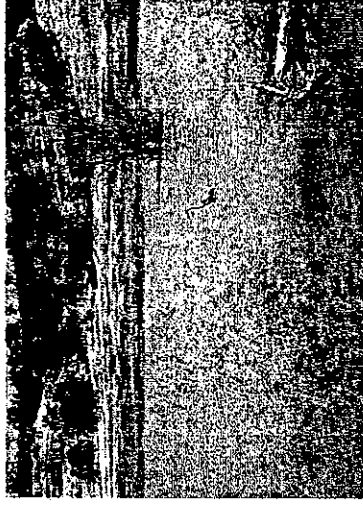
Visit the BEC WEBSITE and click on the CHICO USA logo www.becnet.org

Minimize Urban Run-Off

Reduce the use of pesticides by using Integrated Pest Management: www.ipm.ucdavis.edu

- Reduce the amount of sediment discharged into the stormdrain system.
- Utilize proper disposal methods for waste materials.

Promote urban runoff prevention with contractors and customers.



Horseshoe Lake, Bidwell Park

Keep Chico Businesses Healthy

If it's in your gutter, it's in your creek!



Artwork and Photography by Gregg Payne
Brochure Design by Page One 530.343.9204

To Become a Clean Water Business Partner Contact:

City of Chico

Stormwater Management Program
Richard Burgi, Associate Civil Engineer
530-879-6950

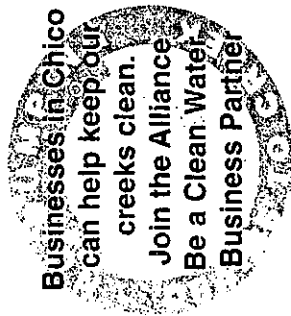
RBURGI@ci.chico.ca.us

Butte Environmental Council

Jennifer Oman, Public Education/
Community Outreach
530-891-6424 office

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BCCWA Project Manager



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Butte County Public Works Department
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Chico USA Clean Creeks Project is a coalition of city and local environmental and professional groups concerned with the water quality of Chico's creeks. Chico USA includes a public awareness campaign on urban runoff pollution, citizen monitoring of our local creeks and streams, a study of urban runoff pollution control structure, and best management practices for the City of Chico.

Partners:
The City of Chico
Project Sponsor



The Butte Environmental Council (BEC)
Public Education
Community Outreach



The Big Chico Creek Watershed Alliance (BCCWA)
Project Management
Citizen Monitoring



Kennedy/Jenks Consultants
Best Management Practices (BMP)
Performance Evaluation

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Engineers & Scientists



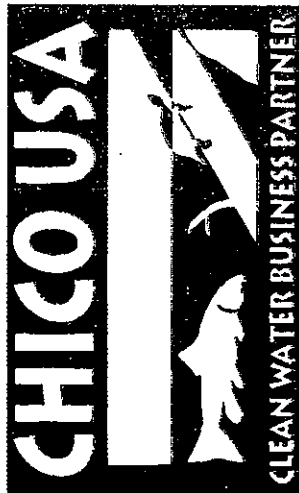
Chico Urban Streams Alliance (Chico USA)

is funded by Proposition 13 Watershed Protection Grant Program and the California Bay-Delta Program (CALFED) which has as an objective to restore ecological health and improve water management by working with the community at a watershed level. CHICO USA is managed by the State Water Resources Control Board.

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**Carpet
Cleaner
Business
Partners
CHICO USA**

**Chico Urban
Streams Alliance**



**Support Our
Community**

**Help Keep Chico's
Creeks Clean**

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Upper Bidwell Park

Clean Water Business Partners have made a commitment to properly dispose of their waste water. By doing this, they help to ensure that future generations can use and enjoy our most valuable natural resource ...water!

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Minimize

Urban Run-Off by:

Reducing the use of pesticides by using Integrated Pest Management: www.ipm.ucdavis.edu

Promoting urban runoff pollution prevention with contractors and customers.

Reducing the amount of sediment discharged into the stormdrain system.

Utilizing proper disposal methods for waste materials.



Horseshoe Lake, Bidwell Park

To Become a Clean Water Business Partner Contact: City of Chico

Storm Water Management Program
Richard Burgi, Associate Civil Engineer
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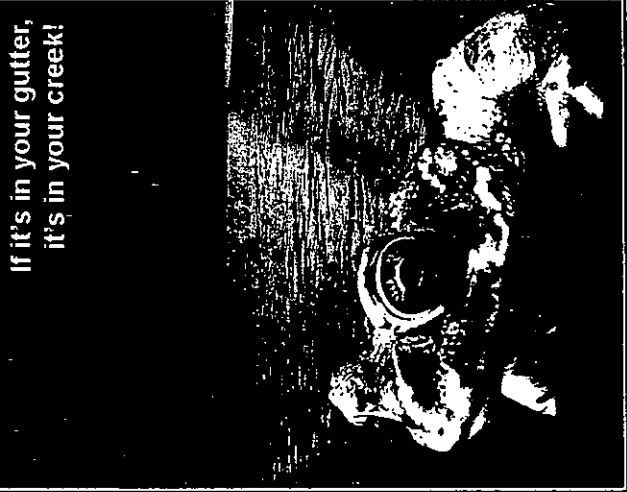
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Program Guidelines

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- Reducing the amount of pollutants and chemicals that enter the stormdrain system by implementing Best Management Practices (BMPs).
- Educating customers about how they can help.
- Use non-toxic carpet cleaners.
- Dump waste water into sinks, showers, bath tubs, toilets, and floor drains.

Keep Chico Businesses Healthy



*If it's in your gutter,
it's in your creek!*

Artwork and Photography by Gregg Payne
Brochure Design by Page One 530.343.9204

Stormwater Program - Contacts

Listed below is contact information for key people within the Storm Water Management Program of the Public Works Department.

Tom Bixt

Program Coordinator

Phone: 530.538.7266 Ext 2009

Fax: 530.538.7171

Questions or comments regarding the Storm Water Management Program can be directed to Stormwater@ButteCounty.net

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August 30, 2006

Butte County Department of Public Works

Stormwater Program - Related Links

The following links may prove useful to you.

Clicking on the link will take you to a site that is outside of the control of Butte County Public Works, and we are not responsible for the content of these sites.

[City of Chico - Stormwater Program](#) - Butte County and the City of Chico work closely together on common stormwater issues.

[Butte County Water and Resource webpage](#) - We work on common Storm Water and watershed issues.

[Butte Environmental Council webpage](#) - The Chico Urban Streams Alliance (Chico USA) is a coalition of the City and local environmental and professional groups concerned with the water quality of Chico's creeks. The coalition has formed with funding from various grants.

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April 9, 2007

Butte County Department of Public Works

Stormwater Program - Documents

Listed below are various documents related to the Storm Water Management plan and program in Butte County.

Click on the file names listed below to view or download the pdf version
Butte County's Storm Water Management Program - 9/05/03 Revised - pdf version (file size 1,296 kb)
Initial submittal of Butte County's Storm Water Management Program - pdf version (file size 799kb)
Department Flow Chart - Appendix B - pdf version (file size 16kb)
BMP Implementation by Department - Responsibility Chart (12KB)
1st Annual Report - Filed 9/15/04 (118KB)
2nd Annual Report - Filed 9/15/05 (185KB)
3rd Annual Report - Filed 9/15/06 (741KB)
Click on the text below to view web pages with additional information on the program.
View examples of the decals used in the Storm Water Management Program to identify where water drains to.

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Butte County Department of Public Works

Stormwater Program - Best Management Practices

Below are photo examples of Best Management Practices (BMP) and examples of lack of BMP which could result in NPDES violations. Clicking on photo allow you to view a larger version in a new browser window.

Examples of Best Management Practices



Straw wattles and erosion control blankets protect cut slopes from erosion



Silt fences and straw mulch distributed over disturbed soils reduce erosion



Roadway cut areas protected by silt fencing, straw wattles, and erosion control blankets



Silt fencing and straw mulch

Examples of lack of any Best Management Practices

Drain inlet needs protection from sediment and trash



Poor location of sanitary facility. Sediment allowed to run off site into gutter. No BMP installed to reduce storm water pollution.

Poor site management -- site needs trash cleanup and check dams in gutter to stop sediment and trash transport into drain inlet

Sediment on street allowed to transport pollutants to unprotected drain inlet -- NPDES violation

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CITY OF CHICO
BUTTE COUNTY
RECYCLING

**Recycling Tip
of the Week!**



**Q. WHEN I CHANGE MY OWN OIL, WHAT CAN I
DO WITH THE USED OIL?**

A. Used oil can contain such contaminants as lead, chromium, arsenic, chlorides, cadmium, and chlorinated compounds. Oil poured down drains or onto the ground can work its way into our ground and surface waters and cause serious pollution. One gallon of used oil can foul a million gallons of drinking water. Federal reports indicate that used motor oil accounts for more than 40 percent of the total oil pollution of our nation's harbors and waterways.

There are several locations throughout the County to take your used oil. Those displaying this Oil Drop symbol will pay you 4¢ per quart for your used oil. It's easy. Here's what you do.

Drain your used oil into a clean container.

Do not mix any other materials, including water, with used oil.

Take your used oil to a household hazardous waste collection facility or a used oil collection site. To find the collection center nearest you, call 1-800-CLEANUP or go on line at www.1800cleanup.org or www.recycebutte.net

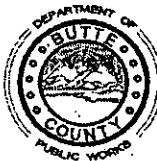
Many locations will also take your used oil filters for recycling. A drained oil filter still contains up to 8 ounces of used oil and is not allowed to thrown away in your regular garbage.



**RECYCLE
USED OIL**

**Let's do the environment a favor
(especially the fish)
and recycle your used oil**

Look on the following websites for more information on recycling and other programs sponsored by the City of Chico and the County of Butte:



Butte County Public Works

www.recyclebutte.net

538-7492

A guide to recycling in Butte County

City of Chico
www.ci.chico.ca.us

or call 896-7220.

Learn first hand what you can do to make a difference at home and support your community in its recycling efforts.

