

Exhibit H

Rubicon Trail
Automotive Fluid Spill Prevention
and Control Program
Progress Report
3/1/04-3/23/09

Prepared by:
El Dorado County
Environmental Management Department
3/23/2009

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1) INTRODUCTION

This report summarizes the activities undertaken by the El Dorado County Environmental Management Department (EMD) to prevent and control automotive fluid spills on the Rubicon Trail 3/1/04 through 3/23/09. State of California used oil recycling grant funds were utilized to implement this project.

2) WORK COMPLETED

a) PERMANENT COLLECTION FACILITIES

- (1) Install three used oil collection buildings to be placed at designated entry points to the Rubicon Trail. Secure bids, order equipment, install equipment and signage.

Work Completed: For the temporary storage of saturated oil absorbent materials, six-drum hazardous materials storage buildings were needed at the access points to the Rubicon Trail. With USFS staff, storage building locations were selected at Ellis Creek/Loon Lake, McKinney Rubicon Springs and Wentworth Springs trailheads. EMD staff constructed concrete pads at Ellis Creek and McKinney Rubicon Springs. Volunteers constructed a pad at the Wentworth Springs trailhead. Bids were solicited from several storage building manufacturers. The units selected complied with all NFPA and Uniform Fire Code requirements. The units were delivered to the Ellis Creek and McKinney Rubicon Springs sites and set on the pads. A storage unit for Wentworth Springs will be purchased during the 2009 season. Since the facilities are often unmanned, drop slots were installed in the units to allow the public to deposit saturated absorbent at any time. The drop slots were installed at a height just above the top of 55 gallon drums. Signs stating the purpose of the storage units were obtained and affixed to the storage units. The units were grounded to reduce the threat of electrostatic discharge.



Storage Unit McKinney Rubicon Springs Trailhead



Storage Building Ellis Creek Trailhead

ABSORBENT PAD COLLECTION FACILITY Deposit Saturated Oil Absorbent into Slot

**No Other Hazardous or Solid Wastes Accepted
EDC Ordinance Code Chapter 8.38. Facility Operated by
EDC ENVIRONMENTAL MANAGEMENT DEPARTMENT
530-621-5300 www.co.el-dorado.ca.us/emd**



Funded by a grant from California Integrated Waste Management Board

Sign Text and Graphic

(2) Install dry-chemical fire protection systems inside of the used oil collection buildings.

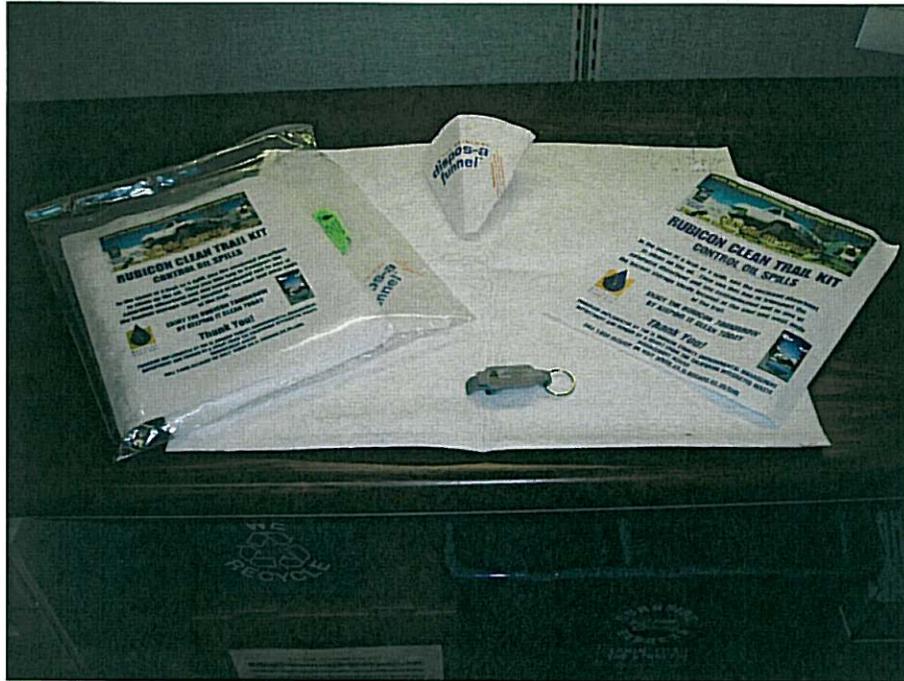
USFS staff were consulted to determine the NFPA/UFC requirements for fire suppression of drums of saturated absorbent. Fire protection systems were installed on the units. After winter snow caused the system at Ellis Creek to discharge, protective covers were installed on the units.

b) OUTREACH AND EDUCATION

- i) Develop and implement a Spill Kit distribution and saturated absorbent collection program for the users.

- (1) Select, design and obtain kit components including key chains, absorbent pads, paper funnels and plastic zip-lock bags:

Work Completed: Staff selected, ordered and obtained components.



Components of Clean Off Road Kit

- (2) Create and print brochure educating users of the Crystal Basin recreation area about the importance of preventing spills and cleaning up fluid leakage on the trail.

Work Completed: Staff created, printed and distributed a two-page brochure for the four wheel drive enthusiasts. The brochure contains the following information:



RUBICON CLEAN TRAIL KIT CONTROL OIL SPILLS

In the event of a leak or a spill, use the enclosed absorbent to clean up the oil. Then use this bag to transport the saturated absorbent and any contaminated soil to one of the hazmat storage sheds located at the east and west ends of the trail.



**ENJOY THE RUBICON TOMORROW
BY KEEPING IT CLEAN TODAY**



Thank You!

PROGRAM IMPLEMENTED BY THE EL DORADO COUNTY ENVIRONMENTAL MANAGEMENT DEPARTMENT AND FUNDED BY A GRANT FROM THE CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

CALL 1-800-CLEANUP OR VISIT WWW.CO.EL-DORADO.CA.US/EMD

SPILL PREVENTION, RESPONSE AND RECYCLING

Before You Go

Prior to heading out on the trail, perform your pre-trip maintenance to prevent leaks and minimize the chances of breaking down. Small leaks at home can turn into major leaks under extreme conditions. Small leaks from hundreds of vehicles result in a huge impact on the trail.

Clean your engine, transmission, transfer case and driveline to check for oil leaks. Repair or replace leaking gaskets and seals. Check the fuel, cooling, brake, power steering and other systems as well. Repair or replace lines, hoses, reservoirs and other components. Install skid plates to protect critical areas from damage. Make sure your battery is firmly secured.

While Wheeling

Drive cautiously to prevent damage to your vehicle. Don't straddle large rocks that can puncture vulnerable components. Cross obstacles at an angle, one wheel at a time, raising vehicle clearance. Know where the low points on your vehicle are; the differential, transmission, transfer case, etc.

Use a spotter in front of your vehicle to let you know what's going on underneath. Know what's ahead of you. Stop frequently, get out, walk ahead and observe. Evaluate the options and select the least damaging route.

Spill Response

If you do experience a spill on the trail, the first step is to control the leak. Use whatever means available to stop or slow the leak at its source. Hoses can be clamped and in some cases small holes can be plugged.

Secondly, contain what has spilled. Use the absorbent provided to soak up any petroleum based liquid. The absorbent will float on water and skim oil off the top. You can also carry rags, kitty litter or other absorbents. Leaks can be captured in containers. After use, absorbents can be placed in the plastic bag provided for transport out of the forest. If the spill soaks into the soil, the soil can also be placed in the bag and packed out. Additional absorbent material can often be obtained at auto supply stores.

Recycling and Disposal

Saturated absorbent, rags, kitty litter, soil, etc. can be dropped off on your way out at one of the hazardous material storage sheds located at each end of the trail. The storage shed on the west end is next to the kiosk at Loon Lake. On the east end, the shed is located next to the restrooms in the parking lot.

Saturated materials can also be taken to the household hazardous waste collection facilities in your area. For facilities in El Dorado County and the hours of operation, please check our website at

www.co.el-dorado.ca.us/emd . For the nearest oil recycling facility call **1-800-CLEANUP**.

This program is being implemented by the El Dorado County Environmental Management Department and funded by a grant from the California Integrated Waste Management Board. Thanks for doing your part.

(3) Draft survey for user education.

Work Completed 3/1/04-2/28/07: Staff drafted survey/pledge to interact with and collect information from users during spill kit distribution. Individual responses were examined and used by staff to initiate discussions. The survey consists of questions and an invitation to sign a pledge. The pledge and survey incorporate proven community based social marketing techniques. Specifically, users that complete a survey and sign a pledge stating they will act responsibly are statistically more likely to do so in the future, even if they had not done so in the past.

CLEAN WHEELING SURVEY

PREPARATION

Before your trip did you

Check for fluid leaks and repair as necessary?	Y	N
Install or check skid plates protecting critical parts?	Y	N
Make sure battery is secured?	Y	N

WHILE WHEELING

When off road, do you...

Avoid straddling rocks to prevent undercarriage damage?	Y	N
Cross obstacles at an angle, raising vehicle clearance?	Y	N
Know where the undercarriage low points are?	Y	N
Use a spotter?	Y	N

SPILL RESPONSE

In the event of a spill or leak do you...

Attempt to stop the leak with clamps, plugs or hoses?	Y	N
Try to catch the liquid with a container?	Y	N
Use absorbent to soak up the liquid?	Y	N
Scoop up any contaminated soil?	Y	N
Transport contaminated materials to a disposal site?	Y	N

Thanks for your time and enjoy your trip! We appreciate your help in keeping the trail clean and open. Please join us by signing this pledge....

"I pledge to help keep the Rubicon Trail clean
by preventing and controlling fluid spills"

Signature

Print

Would you like us to add your name to a published list of supporters?

Y N

Date / /

(4) Assemble and distribute spill kits. Conduct surveys

Work Completed: EMD staff assembled spill kits. The number of days kits were distributed by EMD staff are

2004	4 days
2005	7 days
2006	10 days
2007	23 days
2008	14 days

In addition El Dorado County Sheriff's Deputies, Rubicon Oversight Committee, Friends of the Rubicon and other volunteers also distributed thousands of clean off road kits while patrolling the trail and staffing the Kiosk.

(5) Advertising

Work Completed: The program was advertised during 2005 and 2006 on a billboard located alongside Highway 50 in Camino. A majority of users traveled past this location on the way to the Ellis Creek trailhead. This advertising method was determined to be superior to local newspaper advertisements in getting the message out to the users. The billboard artwork is shown below:



Billboard Artwork

(6) Collect saturated absorbents at used oil collection cabinets.

Work Completed: Saturated absorbents collected from storage units at the end of the seasons:

2006	250 lbs
2007	200 lbs
2008	200 lbs

The majority of users do not experience vehicle damage and resulting fluid spills while using the trail. Of those that do, some may carry saturated absorbent home with them for disposal through their local household hazardous waste collection program.

3) SUMMARY

The Trail was used by thousands off-roaders during reporting period. Many of these users likely noticed the collection facilities, saw the billboard and read the informational signs, even when staff were not at the site. The EMD staff have devoted hundreds of hours to this effort, spending 68 days at the trailhead distributing spill kits. Approximately 3,000 kits have been distributed by County staff and volunteers so far. Approximately 650 lbs of saturated absorbent has been collected for proper disposal. Some used absorbent may have been taken home from the trail and disposed of through local HHW collection programs.

Direct contact with users at the point of entry was deemed to be most effective in reaching the target audience, because of the opportunity to explain the program in detail. The billboard was determined to be the most effective advertising method for reaching the population in general, because of the high traffic counts. Thousands of California residents passed by the billboard site each day.

The Rubicon survey/pledge shown above utilized proven community based social marketing techniques to positively influence user behavior. To our knowledge, this is the first time an

agency promoting oil spill prevention and control has implemented directly targeted four wheel drive enthusiasts.

4) SUPPORTING DOCUMENTATION

See attached spreadsheet of survey data gathered during 2004-2006 used oil recycling grant period.







