



# NEWS

## Technology Paper on Remediation at Drycleaner Sites Posted on SCRD Web Site

SCRD Members have completed a paper entitled “Technology Assessment for Remediation at Solvent Contaminated Drycleaner Sites.” The paper is intended to provide background information of technologies used in remediating contaminated drycleaning sites. This will aid individuals, states, consultants, and others in evaluating cleanup technologies to use at their contaminated drycleaning sites.

This remediation paper discusses the general drycleaning process, how contaminants can get into the soil and groundwater, assessment methods including the impacts of chlorinated drycleaning solvents in the soil and groundwater, and remediation methods commonly used to clean up the lingering contamination. The remediation methods are based on a snapshot of the remediation technologies that have been used at drycleaning sites under the oversight of SCRD member states as of March 2005.

This paper can be viewed or downloaded at the SCRD web site [www.drycleancoalition.org](http://www.drycleancoalition.org), then click on the publications icon on the left-hand banner. The paper is listed under just released. Please check out the other general, technical, and administrative papers produced by SCRD.

## SCRD Holds 2005 Meeting

The State Coalition for Remediation of Drycleaners (SCRD) met May 2-5 in Raleigh, North Carolina. State representatives from member states Alabama, Connecticut, Florida, Illinois, Kansas, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin attended the meeting. Representatives from California, New York, and Virginia also participated in the meeting.

The meeting featured a question and answer session regarding state reports that were presented prior to the meeting for each member state. These state updates included revenues collected, expenditures of the state funds, number of sites applied to state programs, sites in investigation, sites in remediation, sites completed, changes in legislation, etc.

## SCRD Holds 2005 Meeting (continued)

Case studies were presented detailing cleanup efforts at drycleaner sites in California, North Carolina, Oregon, and Wisconsin. The SCR D also held two panel discussions. These were an Administrative Issues Panel Discussion - **“The Program Maturity Cycle”** and a Technical Issues Panel Discussion: **“Remediation of Drycleaning Sites Using Chemical Oxidation.”** Pat Eriksen (Illinois), Dick De Zeeuw (Oregon), and Steve Goins (Tennessee), gave presentations regarding their drycleaning programs to begin the Program Maturity Cycle Panel Discussion. Jim Harrington (New York), gave a presentation on Chemical Oxidation to begin the second panel discussion. After the presentations, member states posed questions, gave comments, and discussed each issue.

Participants named a new Project Management/Technical Issues chair. Eric Cathcart, South Carolina, will finish out the term of Craig Dukes, South Carolina Drycleaning Restoration Trust Fund, who leaves the South Carolina Drycleaning Program to take a position in the South Carolina Brownfields Program. Ken Koon, Missouri, will chair the Outreach Subgroup for a period of two years. Bill Linn, Florida, will remain the SCR D Chairman until the next meeting.

Meeting participants attended a 1.5 day training session sponsored by National Groundwater Association, titled, “Estimating Times of Remediation Associated with Monitored Natural Attenuation and Contaminant Source Removal.” Frank Chapelle of the U.S.G.S. and Dr. Mark Widdowson, Department of Civil and Environmental Engineering, Virginia Tech, conducted the training.

A complete summary of the May 2005 meeting proceedings, and past meetings and conference calls, including reports on the status of each SCR D member-state’s drycleaner remediation program, are available on the SCR D web site, [www.drycleancoalition.org/members](http://www.drycleancoalition.org/members).



## SCR D Reports Detail Components of State Drycleaner Programs

The newest update of *State Drycleaner Remediation Programs* is now available in the “Publications” section of the SCR D web site, [www.drycleancoalition.org](http://www.drycleancoalition.org). The newly updated *State Drycleaner Remediation Programs* contains three tables that provide current information on the numbers of facilities participating in mandated drycleaner remediation programs in SCR D member states. The tables also include information on program benefits, fee structures, legislative authority, pollution prevention requirements, and program administration. Data for the tables is updated twice yearly.



## **SCRD Members Present at National Conferences**

SCRD members Bruce Giles (Oregon) and Nancy Fraizer (Tennessee) presented the results of the new “Technology Assessment for Remediation at Solvent Contaminated Drycleaner Sites” paper at the Association for Environmental Health & Sciences’ 15th Annual West Coast Conference on Soil, Sediment and Water in San Diego, California, in March 2005, and at the Battelle 8<sup>th</sup> International In-situ and On Site Bioremediation Symposium, Baltimore, Maryland, June 8, 2005.



## **SCRD Fact Sheet Available**

If you are having a meeting or conference relating to drycleaning contamination cleanup, chlorinated solvent cleanup, other environmental cleanup issues, or any issue related to drycleaning, please contact us and let SCRDR know. We would encourage that you request an SCRDR Fact Sheet and hand out for distribution to those attending the meetings and conferences. Requests for fact sheets can be made by sending an electronic mail to [ken.koon@dnr.mo.gov](mailto:ken.koon@dnr.mo.gov), or by phone at 1-573-526-8913.

Additionally, SCRDR members may be available to participate or present at these events. Especially, if those events are being held in states represented by the SCRDR.

The information provided on the SCRDR Web Page is intended to help others by providing resources on cleaning up drycleaning contaminated sites. These resources include site profiles that discuss in detail the cleanup activities and costs of conducting drycleaning remediation including lessons learned during the project. These site profiles can be accessed at [www.drycleancoalition.org/profiles](http://www.drycleancoalition.org/profiles).



## **State Progress on Remediation of Drycleaning Sites Continues**

Currently, eleven of the twelve states with drycleaning solvent cleanup programs have initiated remediation at drycleaning sites. As of the spring meeting of SCRDR, there were 3,274 sites in the coalition state programs. Site assessment work had been initiated at 1,165 of these sites and completed at 551 sites. Remediation has been initiated at 279 of the coalition drycleaning sites and completed at 104 sites. A total of 199 drycleaning sites have been closed in the states with drycleaning solvent cleanup programs.

Remedial technologies that have been utilized to date at SCRDR member sites include: excavation, soil vapor extraction, pump & treat, air sparging, dual-phase extraction, multi-phase extraction, recirculating wells, chemical oxidation (utilizing Fenton's reagent, potassium permanganate, sodium permanganate, and ozone), diffusive oxygen emitters, cosolvent flushing, oxygen-release compounds, bioaugmentation, and biostimulation utilizing: potassium lactate, ethyl lactate, molasses, emulsified soy bean oil, hydrogen release compounds, and dextrose.



**SCRDR Fact** – As of July 5, 2005, there are 289 subscribers to the SCRDR Newsletter

SCRDR members are state governments that have established programs to fund remediation of drycleaner sites. Current member states include Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. California, Louisiana, New York, and Virginia, which do not have formal programs but are active in drycleaner remediation under other authorities, also participate in Coalition activities. SCRDR provides a forum for states to share programmatic, technical, and environmental information to improve the remediation of drycleaner sites. SCRDR was established in 1998 and receives technical, management, and training support from the U.S. EPA Office Superfund Remediation and Technology Innovation (OSRTI) and the National Ground Water Association (NGWA).