

# Cleaning Up Mining Waste Perc

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### **Cleaning Up Mining Waste Perc**

The Clean Water Act and the Superfund law (CERCLA) make current mine owners liable for the costs of cleaning up problems caused by previous owners—as much as a century and a half earlier. These laws apply even to those who want to renew mining (“remine”) at an old site, cleaning it up as they do.

### **Cleaning Up Mining Waste - PERC**

Cleaning Up Mining Waste Political Economy Research Center  
Stuart Buck and David Gerard Research Study 01-1 • November  
2001 9 material was considered waste when it was originally  
mined,” the office observes, “today with modern cleaning and

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processing equipment a large amount of usable coal can be remined and used to produce electricity.”<sup>50</sup>

### **Cleaning Up Mining Waste - perc.org**

This is not the first time mining waste has blown out into the Animas River. In 1975, 50,000 tons of heavy metal-loaded tailings were dumped into the river, causing it to look like aluminum paint. There is also potential for similar damage elsewhere, as an estimated 500,000 old mines in the United States need to be cleaned up.

### **Why it's so hard to clean up abandoned mines - PERC**

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### **Stuart Buck - PERC**

If the waste is designated as RCRA hazardous PERC, land disposal restriction forms must also be provided. For more information about how dry cleaners must properly identify, transport, and dispose of any dry cleaning hazardous waste material (PERC, hydrocarbons, and more), please contact a representative of MCF Environmental Services , a dry cleaner hazardous waste disposal company located in Georgia.

### **How Dry Cleaners Can Dispose of PERC Hazardous Waste and ...**

As all dry cleaners know, the volatile nature of Perc means that it will evaporate from a liquid to a vapor easily, which is one of the characteristics that make it such a good cleaning solvent. However, once PCE is released to the subsurface it also volatilizes as it disperses through the soil.

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### **What makes cleaning up perc spills so expensive?**

December 10, 2004 By some estimates, mining waste has polluted the headwaters of 40 percent of the West's watersheds. Forest Service Chief Dale Bosworth says that cleaning up as many as 38,000 abandoned mines on national forests is a high priority, but certainly not one that his agency can tackle on its own.

### **Mining the Waste - PERC**

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### **David Gerard - perc.org**

Perc can be released into the air during leaks from machine operations, or into the soil and groundwater if solvent-

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contaminated waste or wastewater is improperly handled. There are cases of public and private water wells being significantly impacted by dry cleaning solvent contamination. This has led to the increased regulation of perc use and

### **BEST MANAGEMENT PRACTICES FOR PERCHLOROETHYLENE DRY CLEANERS**

Waste Enforcement. Mining and mineral processing. EPA is taking action to protect communities and the environment from illegal or high risk hazardous waste operations at phosphoric acid and other high risk mineral processing facilities. Reducing pollution from mining and mineral processing operations is one of EPA's national initiatives.

### **Waste, Chemical, and Cleanup Enforcement | US EPA**

PERC has ongoing research on mining and hazardous waste issues, including a current study of abandoned mines. Our

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abandoned mines project is in the process of examining the status of abandoned mine reclamation efforts, identifying issues confounding reclamation (including liability issues), and exploring alternative approaches for encouraging and funding site reclamation.

### **Good Samaritan Abandoned or Inactive Mine Waste ... - PERC**

Mining. Mining operations are often complex undertakings that may be situated in or near diverse and sensitive environments. These operations generate tailings and waste rock for disposal and also create wastewater discharges and air emissions. As a result, mining can affect surface and ground water quality, drinking water supplies and air quality.

### **Industrial Wastewater | National Pollutant Discharge ...**

IDENTIFY WASTE By running tests or using knowledge of the

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waste, identify whether your dry cleaning waste is hazardous. Based on these analyses, you determine that the appropriate RCRA hazardous waste codes for the perc generated by your dry cleaning process are F002 and D039. Dryclean.qxd 6/18/99 2:28 PM Page 7

### **RCRA in Focus: Dry Cleaning - US EPA**

----- Cleaning Up the Nation's Waste Sites: Markets and Technology Trends 1.6.9 Mining Sites The following primary factors influence the market for remediation of mine lands. • The reclamation budgets of the federal and state agencies that manage mine lands are small in comparison to the magnitude of the abandoned mine waste problem.

### **Cleaning Up The Nation's Waste Sites Markets And ...**

The Abandoned Mine Site Characterization and Cleanup Handbook (Handbook) is the result of the collective efforts and



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contributions of a number of individuals. During the earliest days of Handbook development, Mike Bishop of EPA Region 8 lead the effort to develop a Superfund Mine Waste Reference Document for EPA project managers working on mine

### **Abandoned Mine Site Characterization and Cleanup Handbook**

The EPA is generally responsible for cleaning up the messes, a situation that does not produce happiness. Remember, the EPA caused the Gold King spill. Worse, the PERC report says, the EPA gets only a small part of the money needed to have any effect. Yet estimated cleanup costs are in the tens of billions.

### **Private sector Good Samaritans needed to help clean up mines**

Spot cleaning products can contain powerful acids and hazardous organic solvents. The most commonly used dry

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cleaning solvent is perchloroethylene (or "PERC"). PERC is believed to cause cancer and can harm the nervous system, the liver, and the kidneys. Understanding the industry. In 2010, we sent a questionnaire to every dry cleaner in King ...

### **Dry Cleaners - Local Hazardous Waste Management Program in ...**

Use a self-contained recirculating solvent sink. Contract with a solvent service company to take sludges and used solvent and maintain the sink. Substitute aqueous or alkaline cleaners instead of hazardous solvents. Use steam cleaners, heat baths, or high-pressure washing units instead of units using solvents.

### **Typical Wastes Generated by Industry Sectors | Hazardous ...**

When 1,2-dichloroethane is heated to 400 °C with chlorine, tetrachloroethylene is produced by the chemical reaction :  $\text{ClCH}_2\text{CH}_2\text{Cl} + 2\text{Cl}_2 \rightarrow \text{C}_2\text{Cl}_4 + 2\text{HCl}$

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$2 \text{CH}_2\text{Cl} + 3 \text{Cl}_2 \rightarrow \text{Cl}_2\text{C}=\text{CCl}_2 + 4 \text{HCl}$ . This reaction can be catalyzed by a mixture of potassium chloride and aluminium chloride or by activated carbon.

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