

Update Number 4



HERCULANEUM LEAD SMELTER SITE Lead Removal

Herculaneum, Missouri

February 2003

The U.S. Environmental Protection Agency (EPA) has produced this Update to keep you abreast of site activities, cleanup progress and address your concerns. Our goal is to provide an overview of the site, the problems found, the actions we have taken to address your concerns, as well as future plans.

Residential Cleanup Progress

Contaminated yard soil has been replaced at 162 residents and 83 home interiors have been cleaned. Wet winter weather has slowed work. EPA has provided 94 residences with HEPA vacuum cleaners. Free HEPA vacuum cleaners remain available for households that have not received one from EPA or Doe Run and that have lead-contaminated yard soil exceeding 400 parts per million (ppm).

EPA continues to request that all Herculaneum residents provide access to allow for sampling of your yards and homes and if necessary the replacement of contaminated soil and the cleaning of your home interior. EPA provides oversight of all these activities to ensure that they are performed correctly and courteously.

Lawn Maintenance

Guidance information sheets for maintaining and watering lawns are available at the EPA office trailer located at 351 Station Street.

Mr. Dean Wilson, a soil scientist from the Jefferson County Agricultural Extension Office is

What's New?



Proposed Interim Slag Pile Plan

EPA is soliciting community feedback on the Proposed Interim Slag Pile Plan and would like to address questions and feedback at the February 18, 2003 community advisory group meeting. The plan is described in this Update.



Herculaneum Community Advisory Group

The Herculaneum Community Advisory Group's November 2002 meeting minutes are included with this Update. The CAG did not meet in December 2002.

The Herculaneum Community Advisory Group's will provide information that will be included with all upcoming Herculaneum Lead Smelter Site Updates.

providing his expertise on the yard replacement soils for the community. He has already provided sampling results and recommendations for several deficient yards and is available for additional consulting on a case-by-case need. He can be reached at 636-797-5391.

Home Interior Focus Group

Drs. Scott Clark and David Sterling have met with the focus group on three occasions to address interior lead dust cleanup standards, sampling protocol, and cleanup procedures. Their preliminary recommendations suggested changes to sampling frequency and the reduction of the cleanup standards. The focus group is going to meet several more times before selecting the final actions to be taken.

The focus group includes community representatives, the Missouri Department of Natural Resources, the health agencies, Doe Run, and EPA.

Phosphate Treatment Proposal

Doe Run has requested that EPA consider using phosphate treatment of yard soils instead of replacing lead-contaminated yard soils. EPA is evaluating current research on this treatment technology to determine what additional studies need to be conducted to confirm this technology as an effective alternative to soil replacement.

Once this work is completed, and if it shows that phosphate treatment can be an effective alternative to soil replacement, the community would receive all the background information and be asked for their input on the proposed treatment technology.

Truck Wash

Doe Run completed construction of an enclosed truck wash capable of washing trucks during below freezing weather periods.

Slag Pile Fence

Doe Run completed construction of a six-foot fence around the north and west sides of the slag pile.

Proposed Interim Slag Pile Plan

EPA and the Missouri Department of Natural Resources are recommending that Doe Run implement one of two measures to control surface run-on and runoff, and isolate the slag pile from a 10-year flood event. The two main objectives of the interim slag pile measures are to

- ! reduce the slag material from migrating offsite, and
- ! secure the site from public access

Although the control measures differ, both are designed for flood protection. One measure proposes building a berm or dike around the slag pile, while the other proposes capping the base of the pile. Both of the proposed options would:

- ! provide storm water protection up to an elevation of 406 feet, the designated ten-year flood elevation
- ! prevent surface water run-on to the slag pile
- ! require the storm water runoff to be treated before it is discharged, or seek appropriate discharge permits

Storm Water Options

The first option is to construct a storm water collection trench near the toe of the pile on the west, south, and east sides of the pile.

Under the first option, a perforated pipe will be installed in this trench. The pipe will transfer storm water to a settling pond at the low point on the southeast side of the pile. The

perforated pipe will be covered with gravel and/or slag. The pile will need to be graded so that the toe of the pile will cover this trench. The pile will then need to be covered up to an elevation of 406 feet with an impermeable membrane, plus at least a foot of clay, with a rock/soil covering. The impermeable membrane shall extend into the ground at least two feet below the base of the pile.

The second option is to construct a free-standing berm up to an elevation of 406 feet. This berm would be installed as close as possible to the toe of the pile in order to minimize additional natural resource damages. Inside the berm, storm water collection trenches would be installed to transfer run-off to a settling pond at the low point on the southeast side of the pile. Slag may be used as the core of the berm, provided it is covered with an impermeable membrane extending into the ground at least two feet below the base of the berm on both sides and is covered with at least one foot of clay/soil/vegetation.

For both options, storm water collected in the settling pond would be transferred to the facility's wastewater treatment plant before it's discharged to the Mississippi River. This is providing the facility's wastewater treatment plant has the capacity to handle the volume of water projected during a 10-year rain event. If the facility's wastewater treatment plant does not have sufficient capacity, Doe Run shall seek appropriate discharge permits.

Herculaneum Community Revitalization Initiative

EPA has contracted with the Marasco Newton Group of Arlington, Virginia to work with the Herculaneum community to develop a strategy for improving the environment, economy and quality of life for residents of the community.

Marasco Newton will be working with the Herculaneum community to design an inclusive

visioning process. This process is expected to include community members, community groups and civic organizations, local businesses, local utilities, city officials and state and federal environmental and economic development agencies.

Marasco Newton Group will conduct interviews and hold public meetings as part of this process.

Contacts for the Revitalization Initiative:

Doug Sarno (Marasco Newton) at 1-703-837-1197 or email djsarno@theperspectivesgroup.com

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HERCULANEUM LEAD SMELTER SITE CONTACT LIST

If you have questions, please contact:

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Jefferson County Health Department 636-789-3372

Herculaneum Lead Smelter Site Community Advisory Group

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Herculaneum Community Revitalization Initiative

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