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TECHNICAL ASSISTANCE SERVICES FOR COMMUNITIES

Quanta Resources Corporation, Edgewater, NJ

Factsheet: Quanta Resources (QRC) Proposed Plan, Remedial Investigation and Feasibility Study

November 4 & 9, 2010

This factsheet is a resource for communities living adjacent to or near the QRC site and is provided by EPA's Technical Assistance Services for Communities (TASC) program, which is implemented by independent technical and environmental consultants. This document highlights the areas of concern raised by the community in the Remedial Investigation (RI) and Feasibility Study (FS) and the Proposed Plan. A more detailed technical summary discussing these issues is also available.

Introduction

The QRC site was added to the National Priorities List September 5, 2002. Ground water underneath the QRC site and adjacent properties is contaminated with arsenic, chromium, lead, polycyclic aromatic hydrocarbons (PAHs), non-aqueous phase liquid (NAPL) and volatile organic compounds (VOCs). Soils at the site are predominantly contaminated with NAPL, arsenic, chromium, lead, and PAHs. EPA's Proposed Plan based on the RI and FS can be found at (http://www.epa.gov/region2/superfund/npl/quanta/quanta_prap.pdf). Quanta Community Advisory Group of Edgewater (QCAGE) has asked for assistance in understanding the issues outlined below.

Issue: Are capping and institutional controls viable options?

Comment: The Proposed Plan relies on capping and institutional controls throughout the possible alternatives. To prevent human and ecological risk exposure, soil capping requires indefinite, long-term maintenance and institutional controls. Maintenance insures the operation of the caps and institutional controls restrict future construction and land use.

Issue: Is excavation a viable option?

Comment: Excavation, or soil removal, is often the most permanent solution and does not need long-term upkeep and maintenance or require institutional controls. Some contaminants may be so deep that effective removal is not possible.

Issue: Are the clean up remedies permanent?

Comment: Some methods are known to be permanent. The long term viability of ISS is unclear for the combined contaminants at Quanta. Natural events may lead to deterioration and leaking of the contaminants.

Issue: Is the Screening-level ecological risk assessment (SLERA) adequate?

Comment: The SLERA found that direct exposure to contamination was limited to small mammals but deer have been seen on the site, indicating larger mammals are exposed.

Issue: The Cross-section data are confusing

Comment: The data used to create the cross-sections came from soil samples, wells and a modern technique using lasers. The system has various degrees of effectiveness in estimating different forms of NAPLs. The cross-sectional images are explained more in the report and in the QCAGE meetings.

Issue: How effective is In-Situ Solidification/Stabilization (ISS)?

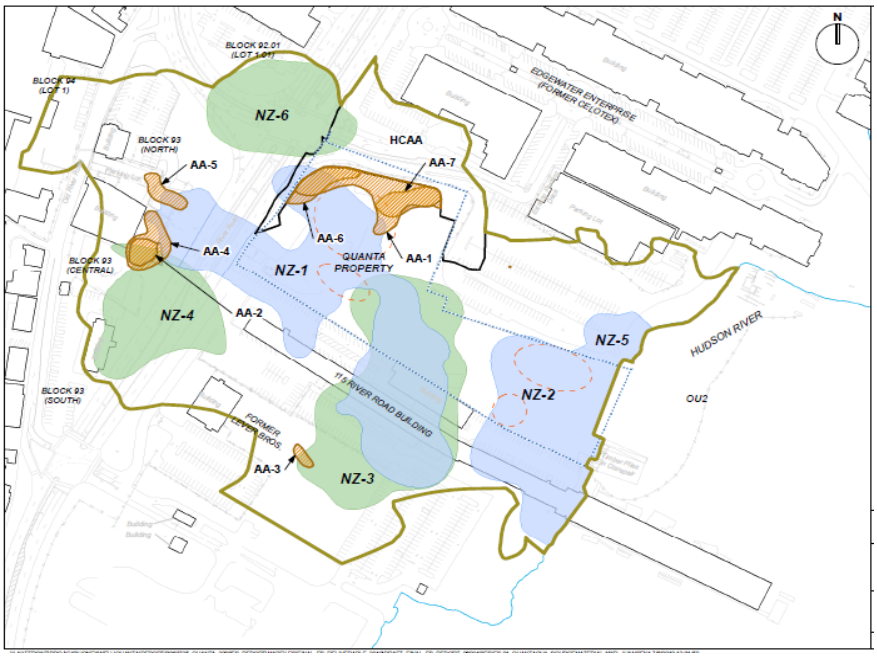
Comment: ISS has been most commonly used for inorganic contaminants, such as metals, but seldom for the organic contaminants found at this site. The IIS process would have to be tested on the combination of contaminants at Quanta.

Issue: How effective are subaqueous reactive barriers (SRB)?

Comment: SRBs, also called reactive barriers, have had problems at other sites, including reduced absorption of arsenic and NAPLs. The remediation alternatives described in the documents would have to be modified if the SRB does not work as planned to capture the contaminants.

Issue: Do the contaminants interaction?

Comment: There are no known and described chemical reactions between arsenic and the organic chemicals, NAPL, but the organic chemicals probably coat the arsenic and prevent some processes. Removing NAPL may not have predictable outcomes for the arsenic cleanup process.



Submit comments to:

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Comments are due:
5 pm November 17, 2010

U.S. Environmental Protection Agency (EPA), Draft Final Feasibility Study Report Operable Unit 1 Quanta. July, 2010\\LAKEFRONT\PROJ\GIS\HONEYWELL\QUANTA\REPORTS\363725_QUANTA_2008FS_REPORT\MAPFILES\FINAL_FS_DELIVERABLE_2010\DRAFT_FINAL_FS_REPORT_060910\ES\ES-01_QUANTAOU1_SOURCEMATERIAL.MXD JHANSEN1 7/6/2010 12:31:50 .