Brunswick, GA Superfund Sites

Environmental Stewardship Concepts, LLC

Environmental Stewardship Concepts, one of a few American professional environmental consulting firms to represent community organizations, was founded in 1996 by Dr. Peter deFur. Based in Richmond, Virginia, ESC provides consulting services that prioritize the public good and sustained environmental quality. As technical experts for community organizations that are concerned with both site contamination and cleanup, our services are often solicited through grants and state and local programs for expertise in hazardous waste and site remediation.

ESC, LLC is looking forward to serving as the Technical Advisor under the EPA Technical Assistance Grant for the Glynn Environmental Coalition at the Brunswick Wood Preserving Site, the LCP Chemicals Superfund Site, and the Terry Creek Site Dredge Spoil Site. We will work with GEC and the community to make sure that the appropriate cleanup actions and other activities are being conducted in the best interest of the community. This includes but is not limited to, analyzing data, attending and presenting at community meetings, reviewing documents, and preparing reports. We look forward to fostering our relationship with GEC and the community of Brunswick, GA.

Aerial Photograph of LCP Chemicals Superfund Site

LCP Chemicals Superfund Site

Background

Many industries formerly occupied this area. The marsh is still receiving toxic runoff from the contaminated upland soils and contaminated seepage water. Therefore, contaminants are still impacting the soil, groundwater, tidal marsh sediment and marsh plants/animals. The site is being managed in 3 parts, called Operable Units (OUs)

Chemicals currently impacting site

- Polychlorinated Biphenyls (PCBs)
- Mercury
- Lead
- Dioxins
- Carcinogenic hydrocarbons

Status and Recent Activities Completed

Operable Unit 1: Marsh Area

- The most recent draft of the Health Risk Assessment was submitted in Dec. 2010 and is under review by EPA and the State.
- The final draft of the baseline ecological risk assessment (BERA) was finalized by EPA in 2011
- A Record of Decision (ROD) is expected to be finalized during 2012.

Operable Unit 2: Groundwater

- A Work Plan for a treatment system to remove metals is currently under review by the EPA since the caustic brine pool (CBP) treatment system is not operating as planned.
- Removal action for the CBP continues.

Operable Unit 3: Contaminated Upland Soil

- EPA approved of the BERA in Aug. 2010.
- A ROD is anticipated to be finalized during 2011.

The **Public Health Assessment**, completed by the **Agency for Toxic Substances and Disease Registry** in Sep. 2010, concluded that if the LCP Site becomes residential, about 30 acres of dry-land will pose a health risk for children and adults because of contamination. If the site becomes commercial or industrial, about 5 acres of dry-land have contamination that poses a health risk for workers.
Full report can be found at: http://www.atsdr.cdc.gov/HAC/PHA/HCPHA.asp?State=GA

Brunswick Wood Preserving

Background

The former wood preserving facility was in business for over 30 years. The chemicals used by the facility left the groundwater and soil contaminated. Some chemicals are still affecting the subsurface at the site.

Chemicals formerly used

- Creosote
- Pentachlorophenol (PCP)
- Copper chromium arsenate

Chemicals currently impacting subsurface

- Non-aqueous phase liquids (NAPL)
- Sediment Chemicals of Concern (COCs): Naphthalene, Benzene, PCP and Semi-volatile Organic Compounds (SVOCs)

Status and Recent Activities Completed

November 2010—April 2011: Chemical testing results were documented in the *Bench Scale Treatability Study Summary Report* and *Pilot Test Treatability Summary Report.*

December 2010—March 2011: An outer barrier wall and cap were installed. Some chemicals still remain outside of the barrier wall and cap.

June 2011: A Work Plan for Groundwater Remediation Services, Chemical Oxidation System was completed. This Work Plan will determine how to treat chemicals in the groundwater.

Overview of Work Plan

- A full-scale in-situ chemical oxidation remediation system is being implemented in order to treat chemicals in the area outside of the existing western barrier.
- Wherever there is pentachlorophenol, this system will break down the chemicals into carbon dioxide, water, and inorganic chloride.

Terry Creek Dredge Spoil Site

Background

The Terry Creek Spoil Area/Hercules Outfall site consists of 3 disposal areas and the Hercules outfall. Toxaphene was produced at the plant for over 30 years. Throughout this time, wastewater containing toxaphene was discharged into Dupree Creek which flows into Terry Creek. Toxaphene contamination is present in the outfall ditch sediments, Terry and Dupree Creek sediments, and the dredge disposal areas.

Status and Recent Activities Completed

An Remedial Investigation was scheduled to be completed in 2011 which will provide information for the completion of a design of the site cleanup plan.

Currently, Fish Consumption Advisories are in place for Dupree and Terry Creeks and a maximum pollution limit applies to both. Additionally, a pollution limit for Polychlorinated Biphenyls applies to Terry Creek (EPA, 2002 Waterbody Report for Terry Creek).