

MANVILLE FOREST PRODUCTS PLANT 94 SHREVEPORT, LA

The former Manville Forest Products Plant 94 site is located near the intersection of Line Avenue and Inner Loop (LA 3132) in southern Shreveport, Louisiana. The 37-acre site is a former wood treating facility, which operated from approximately 1928 to 1981. Rail crossties, bridge timbers, pilings, and telephone poles were treated and stockpiled on the property. Creosote, water-soluble salts [i.e., chromated copper arsenate (CCA)] and pentachlorophenol were used to treat lumber at the site. The plant was dismantled and substantially cleaned of sludges and heavily impacted soils in the impoundments and former process area in 1984.

Riverwood International Corporation and Olin Corporation entered into cooperative agreements with the LDEQ to investigate and subsequently perform a cleanup at the site. A remedial investigation (environmental assessment) of soil and ground water at the site began under LDEQ supervision in 1997. The Site Investigation Report was completed on March 21, 2000.

A RECAP Management Option 2 assessment of the remedial investigation results was completed in June 2001. Results of this assessment indicated that wood treating constituents in soils on some portions of the site exceeded RECAP standards for unrestricted development/use and a limited area of shallow ground water beneath the former process area is impacted with wood treating constituents above RECAP standards. Compounds most frequently exceeding these standards are polycyclic aromatic hydrocarbons (PAHs) and arsenic.

A Corrective Action Study (CAS) was also completed in June 2001. The purpose of the CAS was to identify and evaluate remedial (cleanup) alternatives for the portions of the site exceeding RECAP standards. For more information regarding RECAP standards visit the RECAP website at <http://www.deq.state.la.us/technology/recap/index.htm>.

LDEQ approved Remedial Action cleanup activities commenced in August 2002. Contaminated soil was excavated from nine areas within thirty-one acres of the site. Soil samples were collected and analyzed to confirm that the remaining soil in each excavation area met the required RECAP standards for industrial land use. A total of 46,391 cubic yards of excavated soil was placed and contained on six acres located at the western end of the property abutting the KCS and T & P railroad tracks. Excavated areas were backfilled with clean soil from offsite and regraded. The site was then seeded with a mixture of grasses. Excavated contaminated soils consolidated onto the western six-acre parcel were capped with 3 feet of clean clay and topsoil after placement had been completed.

Future development of the 31 acre cleaned area will be limited to commercial or industrial development, consistent with local current zoning limitations and RECAP (See RECAP 2.9.11). Use of the capped area will be subject to LDEQ restrictions and post closure monitoring to assure continued integrity of the cap. Institutional controls such, as a conveyance record notice and a fence were required for the capped area.

The remedy selected for the groundwater was long-term monitoring to demonstrate that there is no migration of groundwater impacts and that the constituents in groundwater are naturally degrading. This remedial approach for groundwater is referred to as natural attenuation. If monitoring indicates the impacted groundwater may migrate offsite, the LDEQ will enforce evaluation and implementation of alternate groundwater remedies. A notice has been recorded in the parish conveyance records for the site prohibiting the use of on-site groundwater.

The photos on the following pages show the site immediately after, as well as ten months following, the remediation process:



Looking northeast at the site from the Inner Loop ramp to I-49
[Area in the middle is the location of excavated soil]
(9/28/02)



Looking northeast at the site from the Inner Loop ramp to I-49
[Area in the middle is the location of excavated soil]
(7/28/03)



**Looking east at the site from the Inner Loop ramp to I-49
(9/28/02)**



**Looking east at the site from the Inner Loop ramp to I-49
(7/28/03)**



**Looking west towards the Inner Loop ramp from the Trailer
(9/28/02)**



**Looking west towards the inner loop ramp from the area of the trailers
(7/28/03)**