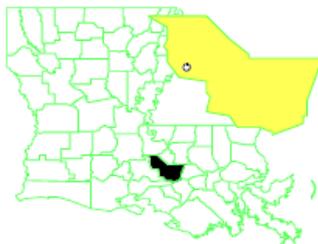


Bayou Sorrel Site (Iberville Parish) Louisiana

EPA ID# LAD980745541
Site ID: 0600573



EPA REGION 6 CONGRESSIONAL DISTRICT 06

Contact:
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Updated: July 2015

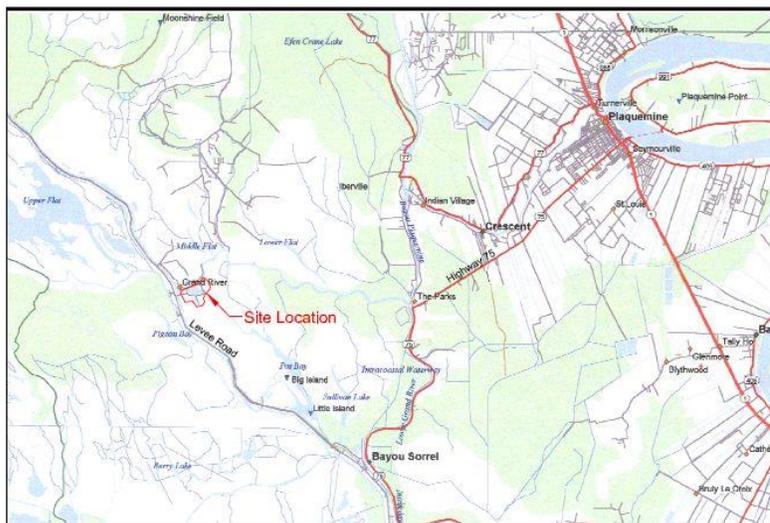
Note: This Site has been deleted from the NPL and this Fact Sheet will be updated annually, or as needed. No new updates as of: June 2015)

Current Status

- Five-Year Review status – The process for the fifth Five-Year Review has been completed. The EPA and the Louisiana Department of Environmental Quality conducted a site inspection on January 24, 2013, to evaluate the protectiveness of the remedy. The fifth Five-Year Review was signed final on August 13, 2013; at that time the remedy remained protective of human health and the environment.
- The site is currently in operation & maintenance status. The routine annual ground water monitoring will continue to ensure protectiveness of the EPA cleanup actions. Additionally, annual inspections of the cap are conducted to ensure integrity. Because waste is contained in a clay cap system, the site is not suitable for general reuse.

Background

The Bayou Sorrel Site is located in Iberville Parish, Louisiana. The site is approximately 20 miles southwest of Baton Rouge, and about six miles northwest of the town of Bayou Sorrel. The western border of the Site is bound by the Borrow River, a man-made drainage feature. The north and east sides of the Site are bordered by the Upper Grand River and Pats Bayou, respectively. Undeveloped swamp land is adjacent to the Site to the south. Access to the Site from the north is along an unpaved levee road, 17 miles south of its intersection with Interstate 10 in Ramah, Louisiana. Access to the Site from the south is along the same unpaved levee road, and is approximately six miles north of the town of Bayou Sorrel. The site (particularly the south end) and surrounding areas can best be described as having marshy bayou-type environment and are prone to periodic flooding and poor drainage.



The site began operation as a hazardous waste landfill operated by the Environmental Purification Advancement Cooperation (EPAC) in early 1977. Approximately 50 of the 265 acres were actually used for waste disposal. Wastes were disposed in two sludge pits, four liquid waste ponds, two drum burial cells, and one landfarm area. In the summer of 1978, State and Federal regulatory officials inspected the site following an incident occurring at the site. The investigation revealed the presence of large open, unpermitted ponds containing unknown materials. As a result of the governmental investigation, the 18th Judicial District Court ordered the closure of the site to eliminate all health hazards.

During this closure, conducted under the oversight of the State of Louisiana, the contents of Ponds 1, 2, and 3 (South Area Cap) were reportedly pumped to Pond 4 (North Area Cap) where solids were concentrated by enhancing evaporation and landfarming pond supernatant. These ponds were then filled and covered with soil. Pond 4 was closed by the use of enhanced evaporation within the pond. The remaining Pond 4 contents were then covered with native soils. Sampling activities were performed concurrent with the closure which resulted in the detection in onsite soils of various organic compounds, and other inorganics. During the transfer of material to Pond 4 from Ponds 1-3, there may have been some spill-over of material to the periphery of Pond 4. Closure activities were completed in the spring of 1979. After closure, the State received complaints about odor and surface contamination in the south of the site. The site was placed on the National Priorities List (NPL) on December 20, 1982. Unauthorized access and use of the site and surrounding property is severely restricted. The Site is not currently being utilized for any purposes other than activities associated with ongoing, post-construction O&M monitoring.

The contaminants of concern were process wastes from chemical manufacture, sulfide-containing wastes (scrubber blowdown and spent caustic) from hydrocarbon processing and exploration activities, and spent wash solutions from boiler-cleaning and equipment-cleaning contractors.

There are approximately 30 seasonal fishing camps located across the Upper Grand River from the North Area Cap. The Borrow River lies between the site and the Atchafalaya River Basin levee. The population of the City of Plaquemine, which lies 13 miles to the northeast of the site, is 7,064. The town of Bayou Sorrel is six miles south of the site and due north of the Bayou Sorrel waterway. Approximately 1,000 residents live along the bayou and within the town of Bayou Sorrel.

The Record of Decision (ROD) was signed on November 16, 1986 and called for the following: regrading of the Site to control runoff, covering former waste disposal areas with topsoil/geomembrane/clay caps, installing a sand/geofabric porewater drainage, installing a slurry wall, and installing a ground water monitoring system. Site cleanup was completed and the site was deleted from the NPL on September 29, 1997.

Benefits

- Over 1 million cubic feet of waste have been contained in a slurry-walled, multi-layered clay cap system. All contaminants have been contained and exposure potential has been eliminated.
- The remedy ensures protection of nearby sensitive environmental areas as well as protection of underlying aquifer used by thousands of people in the Parish.
- The remedy includes extensive monitoring to ensure protectiveness is maintained.
- The EPA continues to monitor the site to ensure that the site is safe and no longer poses a threat to public health or the environment.

National Priorities Listing (NPL) History

NPL Inclusion Proposal Date:	December 30, 1982
NPL Inclusion Final Date:	September 8, 1983
NPL Deletion Proposal Date:	June 4, 1997
NPL Deletion Final Date:	September 29, 1997

Site Description

Location: 20 miles SW of Baton Rouge, six miles north of the Town of Bayou Sorrel. Section 40-43, Township 10 South, Range 10 East, in Iberville Parish, Louisiana.

Population: Approximately 100 year round residents within 5 miles of site.

Setting: 50 acres of the 256 total site acreage used for wastes dumping. Site is surrounded by remote back swamp environment.

Hydrology: 75-125 feet of clays & silts beneath site. Below clays - sand, gravels & silts possibly to 700 ft. below land surface. This sand, silt and gravel layer is the Plaquemine aquifer. Ground water withdrawal from the Plaquemine aquifer is minimal, due to low population density and poor ground water quality.

Wastes And Volumes

Primary Contaminants:

Process wastes from pesticide/herbicide manufacturing.

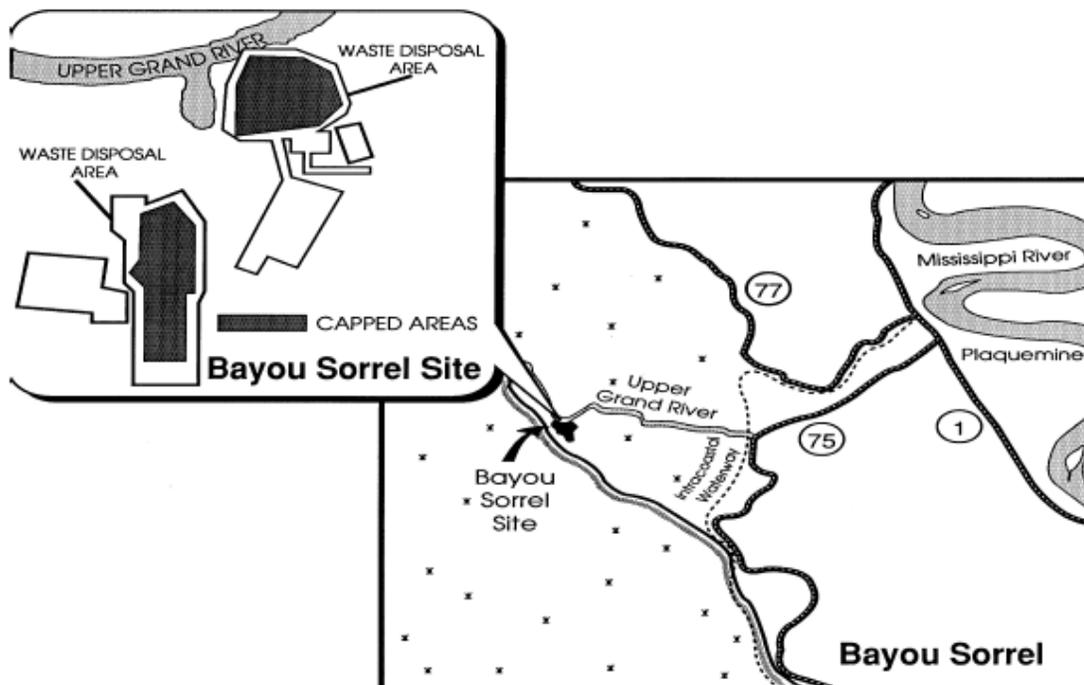
Sulfide containing wastes from hydrocarbon processing and exploration.

Spent wash from boiler and process-equipment cleaning.

Volume:

Approximately 1,000,000 cubic feet of contaminated soil and sediments.

Site Map



Health Considerations

Direct Contact: Human exposure to contaminated soil/sediment.

Ground Water: Human ingestion of contaminated source.
Surface Water: Human ingestion of contaminated source.
Same risks as above with respect to aquatic organisms and on site game animals.

Record of Decision (ROD)

EPA signed the Record of Decision on November 16, 1986.

The ROD's remedy called for Geomembrane cap with slurry walls, gas venting systems, and ground water monitoring.

Remedy cost estimate: \$28,700,000.

The EPA will inspect the site at least once every five years.

Site Contacts

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EPA Site Attorney:	Edwin Quinones	214-665-8035 or 800-533-3508
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