

Site Redevelopment Profile

Mosley Road Sanitary Landfill Superfund Site

330 Mosley Road, Oklahoma City, Oklahoma 73117

Property Overview

Size

72 acres

Current Site Uses

- A renewable biogas and natural gas joint venture project is located on site.

Use Restrictions

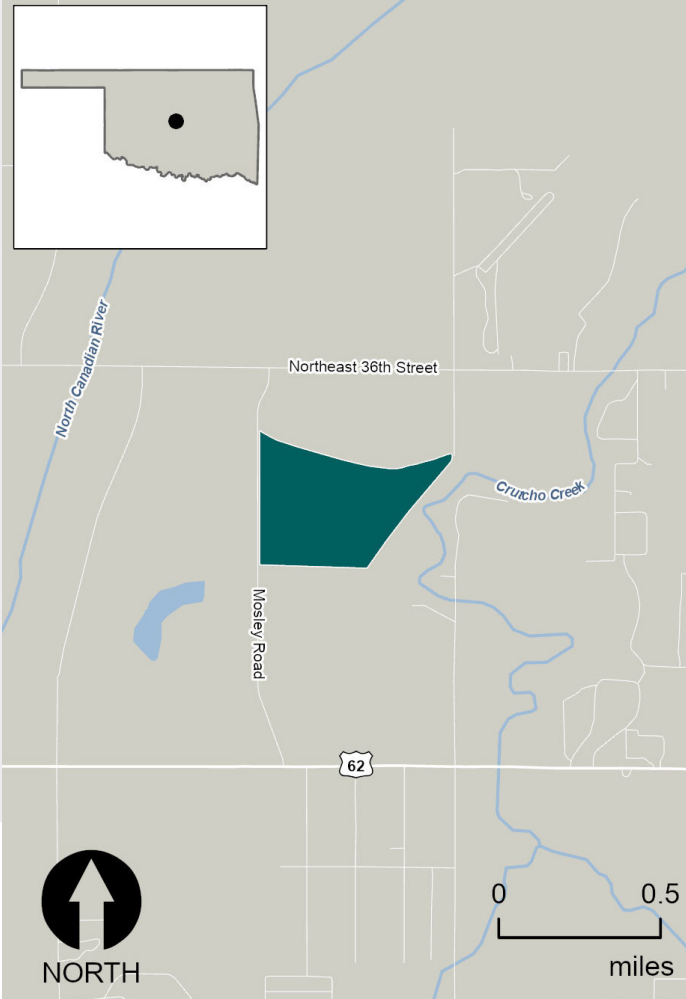
- Residential and agricultural uses are not permitted.
- Groundwater use is prohibited.

Surrounding Population

266
1 MILE

36,187
3 MILES

99,321
5 MILES



A map of the site in Oklahoma.



EPA staff and Greenovations Award recipients including Carl Edlund with EPA, Paula Carboni, Mike Caldwell, Pete Schultze, and Don Smith with Waste Management of Oklahoma, at the Greenovations Award ceremony in 2014.

Site History and Redevelopment Timeline

1971-1984

Landfill operated on site.

1990

EPA placed the site on the NPL.

1995

Waste Management started cleanup.

2004

Waste Management finished cleanup.

2004-2013

Site monitoring and operation and maintenanc activities were performed.

2013

EPA took the site off the National Priorities List.

2014

EPA Region 6 presented Waste Management with its Greenovations Award.

History and Cleanup

The Mosley Road Sanitary Landfill Superfund site covers about 72 acres in a rural area that includes residential, commercial and recreational land uses. The East Oak Recycling and Disposal Facility is located west of the site. From 1971 to 1984, several owners conducted landfill operations at the site; these operations temporarily included receiving hazardous waste. Landfill operation and waste disposal practices contaminated groundwater with benzene and vinyl chloride. EPA placed the site on the Superfund program's National Priorities List (NPL) in 1990.

After site investigations and selection of the final remedy in 1992, Waste Management of Oklahoma (Waste Management) completed cleanup activities in 2004. Waste Management is one of the site's potentially responsible parties and the current owner of the site property. Cleanup included repair and improvement of the existing landfill cover with the addition of a vegetative layer as well as groundwater and landfill gas monitoring. After construction of the site's remedy, EPA took the site off the NPL in 2013. Follow-up reviews of the remedy indicate that it remains protective of public health and the environment.

Redevelopment

During the cleanup, Waste Management worked closely with EPA and the Oklahoma Department of Environmental Quality on plans for the first commercial facility for a renewable biogas and natural gas joint venture project. Working with three joint venture companies, Waste Management is planning to build a new full-scale gas-to-liquid fuel technology facility on site. Waste Management pioneered the use of this kind of technology by building and operating a demonstration unit at the neighboring East Oak Landfill in 2010. The technology converts methane gas from the site into clean-burning diesel fuel and wax. Waste Management anticipates that gas flows for the facility may continue for up to 30 years.

In 2014, EPA Region 6 recognized Waste Management's efforts with its Greenovations Award. The award recognizes innovative efforts and projects that have maximized environmental outcomes and minimized environmental impacts through greener cleanups, sustainability and reuse initiatives, and use of renewable and alternative energy resources. The award acknowledges Waste Management's successful efforts to optimize site redevelopment and enable an innovative gas-to-liquid fuel technology to become a reality.

Building on the success of this project, and with landfill gas a common waste product at many sites, Waste Management of Oklahoma is now working on multiple renewable energy projects using this innovative technology both in the United States and abroad.

"This is a prime example of what can happen when [public and private] entities work together. I think [the technology is] also something we can apply in other areas."

Pete Schultze

Senior District Manager, Waste Management



Contacts

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