

Sunoco, Inc. - Girard Point

3144 Passyunk Avenue
Philadelphia, PA 19145
Congressional District 1
EPA ID #: PAD049791098
Facility Property Area: 350 acres
Last Updated: 12/23/2011

Status

****NOTE – The EPA is aware of the current status and plans regarding closure of this refinery. As described below, the EPA, PADEP, and Sunoco are committed to completing all necessary environmental investigations and, if necessary, remedial activities to ensure protection of human health and the environment.****

RCRA Corrective Action activities at the Facility are being conducted under the direction of EPA Region 3 with assistance from the State.

In September 1989, EPA issued a RCRA Corrective Action permit to Sun Company, Inc. - Girard Point ("Facility"). Since then, the Facility has completed the RCRA Facility Investigation (RFI) Phase I Report and concluded that additional investigation and a site-specific risk assessment was warranted with regard to hazardous waste and constituents in soil. In April 1998, the Facility submitted RFI Phase II Work Plan to EPA for approval.

EPA determines that the Facility's Pennsylvania Department of Environmental Protection (PADEP) Clean Stream Law Storage Tank Groundwater Monitoring Program has satisfied and met the RCRA corrective action groundwater monitoring requirements. The PADEP's Ground Water Monitoring Program requires the Facility to evaluate for the presence of free hydrocarbon (NAPL), determine groundwater flow patterns, remove the NAPL to the greatest extent practicable from subsurface beneath the refinery and off-site, evaluate contamination concentration trends at the Facility perimeter and determine the need for additional investigation of dissolved hazardous waste and constituents.

The RFI Phase II Work Plan was proposed to detail the interpretation of release characterization data against established health and environmental criteria. The RFI Phase II Work Plan determines whether a Corrective Measures Study (CMS) is necessary.

Based on RFI and toxicological data, lead, beryllium, benzo(a)pyrene, benzo(a)anthracene, benzo(b,j,k)flouranthene, and dibenz(a,h)anthracene are the main contaminants.

In 2000, Sunoco and Florida Power and Light negotiated the construction of a 515-megawatt gas-fired co-generation facility located between Second Street and Schuylkill River at the site (approximately 25 acres). The co-generation plant would use natural gas as a fuel source and thus would reduce overall nitrogen oxide (NO_x) and sulfur oxide (SO_x) emissions. At the same time, electric power generated by the power plant would be sold to the regional grid. In January 2001, Sunoco submitted a Site Characterization Plan for the plant construction site to PADEP. The scope of the site characterization, risk assessment and cleanup plan was consistent with the intent and requirements of Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2). In February, the Facility submitted the Notice of Intent to Remediate (NIR) to PADEP and started the 30-day Public Comment Period.

In 2003, Sunoco conducted a feasibility study and decided to put the co-gen project on hold.

In 2003, Sunoco replaced the 1993 PADEP Point Breeze Processing Area Consent Order and Agreement (CO&A) to include the Girard Point Processing Area, the West Yard, and the Schuylkill River Tank Farm.

In 2005, Sunoco was interested in the applicability of the One-Clean-UP Program to streamline the remediation program at its Philadelphia Refinery under the EPA RCRA program, the PADEP Act 2 program, and the indicated PADEP Consent Order.

In 2006, Sunoco submitted a NIR in accordance with the Act 2. The NIR was submitted with the intent to enter the Sunoco Philadelphia Refinery into the One Cleanup Program with PADEP and the USEPA. All remediation work at the Philadelphia refinery would be completed under the 2003 CO&A, however, RCRA Corrective Action measures would be addressed concurrently with the work performed under the CO&A and within the Act 2 program.

In 2007, Sunoco submitted PADEP for approval a copy of the request for "Consolidation of EPA Facility ID Numbers" for its Girard Pt, Pt Breeze and Schuylkill River Tank Farm facilities.

For further site characterization and remedial activities information, please refer to Sunoco Philadelphia Refinery PAD 002 289 700 Fact Sheet.

According to the Facility's Community Relations Plan, the Facility will provide press releases and other information for public review and comment if requested. In addition, the Facility will issue press releases in the event of unanticipated and/or significant occurrences that warrant public notice.

There are no institutional controls at this time.

Facility Description

Sun Company, Inc.- Girard Point (the "Facility") is located approximately 5 miles southwest of the center of Philadelphia, Pennsylvania. The Facility is located in a heavily industrialized area adjoining the Schuylkill River.

The Facility occupies approximately 350 acres along Schuylkill River. The Facility is a cracking petroleum refinery consisting of basic processes, including crude processing, fluid catalytic cracking, hydrofluoric alkylation, catalytic reforming, catalytic desulfurization, gasoline treating, sulfur recovery, aromatic extraction, thermal hydro alkylation, and benzene and cumene petrochemical operations.

Government Contacts

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For more information about EPA's corrective action webpage, including Environmental Indicators, please visit our site at: www.epa.gov/reg3wcmd/correctiveaction.htm