

**United States Environmental Protection Agency**  
**Region V**  
**POLLUTION REPORT**

**Date:** Tuesday, August 19, 2008

**From:** Tom Cook

**Subject:** Peoples Gas Hough Place Station Site  
2500 South Corbett Street, Chicago, IL  
Latitude: 41.8469000  
Longitude: -87.6503000

<b>POLREP No.:</b>	21	<b>Site #:</b>	B5HH
<b>Reporting Period:</b>	7/29/08 to 8/14/08	<b>D.O. #:</b>	Not Applicable
<b>Start Date:</b>	6/18/2007	<b>Response Authority:</b>	CERCLA
<b>Mob Date:</b>	6/18/2007	<b>Response Type:</b>	Time-Critical
<b>Demob Date:</b>		<b>NPL Status:</b>	Non NPL
<b>Completion Date:</b>		<b>Incident Category:</b>	Removal Action
<b>CERCLIS ID #:</b>	ILN000510190	<b>Contract #</b>	EP-S5-06-04
<b>RCRIS ID #:</b>			

#### Site Description

The Hough Place Station Site (Site) is located at 2500 South Corbett Street, Chicago, Cook County, Illinois, in a mixed residential, commercial, and industrial area. The site is approximately 4.5 acres and is bordered to the north by the South Branch of the Chicago River, to the east by a paper storage and distribution facility, to the south by railroad property, and to the west by vacant property. The vacant property to the west and the Site are currently owned by Crowley's Yacht Yard, which previously operated a sailboat storage, sales, and repair facility at the Site.

The Site is a former manufactured gas plant (MGP) that operated as an MGP facility from approximately 1886 to 1934. The Site was built in 1885 by the Equitable Gas Light and Fuel Company and in 1892 began producing "Pintsch gas," a relatively high quality gas produced by an oil gas process, for the Pintsch Compressing Company. Production of Pintsch gas occurred until about the early 1920s. In 1897 Peoples Gas acquired the facility and dismantled the station in 1934. Portions of the property were subsequently leased to other companies who used the property for storage of building materials and the production of asphalt, concrete, and other paving materials until approximately 1950. In 1953, Chicago Title and Trust Company took possession of the property as trustee. From approximately 1953 to 1978, the J.M. Corbett Company operated an asphalt mixing plant on the property. In 1978, Crowley's Yacht Yard bought the property.

From 2000 to November 2006, several investigations were conducted by Peoples Gas at the Site. These investigations included the excavation of test pits, the installation of shallow monitoring wells, the collection of soil borings, the collection of soil and groundwater samples, a geotechnical investigation, and borings into river sediments. Test pits revealed staining and odors, and black asphalt tar at 2 feet below ground surface (bgs). Benzene, toluene, ethylbenzene, and xylene (BTEX); polynuclear aromatic hydrocarbons (PAH); metals, and cyanide were detected in several surface and subsurface soil samples. BTEX, PAHs, and metals were also detected in groundwater samples collected at the Site. Soil borings indicated tar at levels below the water level in the filled-in boat slip. The river investigation revealed sheens, odors, tar coated/stained material, and traces of tar in some of the sediment borings.

Remediation activities by Peoples Gas began in November 2006 under the Illinois Environmental Protection Agency (IEPA) Site Remediation Program. Peoples Gas is the potentially responsible party (PRP) for the site. People's Gas contracted Burns & McDonnell Engineering Company, Inc. (BMcD) to remediate the Site, along with their subcontractors.

Remediation consists of excavation and disposal of contaminated soils. Excavation depths range from approximately 3 feet to 24 feet bgs. Other site activities conducted by the PRP include daily air monitoring, continuous 24-hour perimeter air monitoring and sampling, confirmation soil sampling, and water treatment, sampling, and discharge.

Prior to the U.S. EPA oversight at the Site, BMcD completed excavation of impacted material in excavation cells CF01 to CF58 (see BMcD map of excavation areas under "documents" on the OSC

website). An Administrative Order on Consent was signed by Peoples Gas in early June 2007, prompting the U.S. Environmental Protection Agency (U.S. EPA) to begin PRP oversight activities at the Site.

On June 12, 2007, a kick-off meeting was held at the 22nd Street Site between U.S. EPA, START, Peoples Gas, and BMcD, to discuss future oversight activities, documents required, and logistics for transmitting data and documents. The meeting addressed three MGP sites that U.S. EPA would be overseeing, all located within one mile of each other: 22nd Street Station, Hough Place, and Pitney Court. Note that one START member covers oversight of these three sites, splitting time between each of the three sites. Both Hough Place and Pitney Court remediations are expected to be completed by the middle of 2008, while the 22nd Street Station Site remediation is expected to be completed by March 2009.

On June 18, 2007, U.S. EPA began PRP oversight activities at the three Peoples Gas MGP sites: Hough Place Station, Pitney Court, and 22nd Street Station. The U.S. EPA Superfund Technical and Response Team (START) contractor is performing PRP oversight during the removal activities at the sites.

As part of the removal activities, START collects or observes the collection of soil confirmation samples to confirm that the PRP cleanup objectives are being met. Site contaminants of concern are:

- BTEX;
- PAHs;
- Synthetic precipitation leaching procedure (SPLP) lead, chromium, and selenium.

Cleanup objectives for the Hough Place Station Site are as follows:

1. Remove all source material.
2. For the 0 to 3.5 foot depth interval, remove all soil that exceeds IEPA TACO Tier 1 residential standards for soil ingestion and install a 3 foot engineered barrier.
3. For the 0 to 10 foot depth interval, remove all soil that exceeds IEPA TACO Tier 1 residential standards for soil inhalation and where necessary, install a 10 foot engineered barrier to prevent exposure via inhalation.
4. Invoke a construction worker notice and the City of Chicago Ordinance prohibiting installation of potable wells on the Site to eliminate the construction worker and groundwater exposure pathways.

In August 2007, Metropolitan Water Reclamation District of Greater Chicago (MWRD) finalized the discharge permit that authorizes treatment and discharge of treated Site water to an onsite MWRD sanitary sewer. START collects or observes the collection of treatment water samples to confirm that the MWRD objectives are being met. Samples are being collected to identify the potential presence of the following site contaminants of concern:

- Target Compound List (TCL) VOC;
- PAH; and
- Target Analyte List (TAL) Metals.

Treated water objectives for the Site are established by MWRD in the discharge permit issued for the site.

### **Current Activities**

During the reporting period, the PRP completed all soil excavation and sampling activities. The water treatment system was demobilized from the site. The PRP collected the final confirmation soil sample in cell 135.

PRP activities currently consist of backfilling Evans Slip and along the river and doing final grading. This includes the installation of three catch basins across the site. The PRP also conducted an investigation along the river and dock wall system at the west end of the site.

A summary of the remediation activities performed during the reporting period are as follows:

- Transported 127 loads of soil and debris to CID landfill
- Discharged 47,110 gallons of treated water to the MWRD system
- Demobilizing equipment and mobilizing materials and equipment barges to the site
- Performed perimeter air sampling and air monitoring on a continuous basis (24-hour air samples and air monitoring is conducted around the perimeter). On July 30-31 and August 1, 5, 11 and 13, 2008, elevated dust in air levels were detected: dust control measures were taken or the re-sample was below action levels.
- Performed health and safety air monitoring during site activities.

- Performed street sweeping activities in front of the Site and along Senour Street.
- Performed daily de-watering activities in excavation areas.
- Transported 7 loads of impacted water to the Ortek facility in McCook, Illinois
- Collected confirmation soil sample from cell 135

On July 29, 2008, BMcD collected one floor sample from excavation cell 135 (near the MWRD well at the river bank). The sample results have not yet been received by START.

Analytical results for following previous sampling events have been received and evaluated by START:

On July 18, 2008, BMcD collected one soil sample each from the floor and east wall of excavation cell 129 (located in Evans Slip). BMcD collected two soil samples from the west wall of cell 129 (depths 0-10 ft bgs and 10 – 19 ft bgs). The samples were analyzed for BTEX and PAH. The shallow west wall sample was also analyzed for SPLP. The samples met the remediation objectives, with the exception of the floor sample. Detected PAH levels exceeded the TACO SROs in the floor sample. The floor sample was collected at 19 ft bgs. Therefore, with the use of an engineered barrier, this area should meet the remediation objectives as stated in the Remedial Action Plan (RAP).

### **Planned Removal Actions**

Planned removal actions at the Hough Place Station Site are as follows:

- De-water excavation areas
- Dispose water offsite at Ortek
- Backfill completed excavation areas
- Final grading and demobilization

### **Next Steps**

The next steps to be carried out by the PRP are as follows:

- Continue to de-water excavation areas as required
- Continue dust control activities
- Continue 24-hour perimeter air monitoring and sampling
- Continue air monitoring in work zones
- Continue street sweeping activities
- Continue to decontaminate trucks prior to trucks leaving site
- Backfill completed excavation cells with clean fill when confirmation results are received

### **Key Issues**

None.

[response.epa.gov/HoughPlace](https://response.epa.gov/HoughPlace)