



FACT SHEET

Manufactured Gas Plant Program

Receive Site Fact Sheets by **Email**. See "For More Information" to Learn How.

Site Name: O&R - Suffern MGP
DEC Site #: 344045
Address: 3 Pat Malone Drive
Suffern, NY 10901

Have questions?
See
"Who to Contact"
Below

Cleanup Action to Begin at Former Manufactured Gas Plant Site Suffern, New York

**Project Update and Public Information Meeting,
Wednesday, December 9, 2015 at 7:00 PM
Suffern Village Hall, 61 Washington Avenue, Suffern NY**
Orange & Rockland invites you to a public meeting to discuss the planned activities for the site.

Action is about to begin that will address the contamination related to the O&R - Suffern Former Manufactured Gas Plant (MGP) Site ("site") located at 3 Pat Malone Drive, Suffern, Rockland County.

Highlights of the Upcoming Cleanup Activities

The goal of the cleanup action for the site is to achieve cleanup levels that protect public health and the environment. The cleanup actions for the site include:

- Excavation and off-site disposal of approximately 20,000 cubic yards of coal tar contaminated soil to approximate depths of up to 15 feet. Most of the excavation work will be conducted inside a temporary fabric structure to reduce odors and noise.
- In areas with deeper contamination, approximately 17,000 cubic yards of coal tar contaminated soil will be solidified. Solidification will be at depths of up to 35 feet. The contaminated soil will be mixed in-place with solidifying agents (typically Portland cement) using an excavator or augers. The result is a low permeability soil that retards groundwater flow and inhibits the migration of contaminants.
- Cover excavated areas with clean soil and gravel.
- An environmental easement will be placed on the site that will allow the use and development of the property for commercial and industrial uses (subject to local zoning laws) and restrict the use of groundwater as a source of potable or process water.
- A site management plan will be established which will detail the soil management in the event of any future excavations in addition to long-term groundwater monitoring.
- A public water supply protection plan will be established to ensure adequate notification to the Suffern water district in the event that sentinel monitoring wells which are currently clean become contaminated with site-related contaminants, along with an active response plan.

Next Steps

The construction activities at the site are planned to begin in December, 2015. The final remedial design has been approved by the NYSDEC. The construction work is estimated to last for seven to nine months.

Background

The Suffern MGP Site is located on Pat Malone Drive in the Village of Suffern, approximately 0.2 miles north of the Suffern rail station. The site is zoned for manufacturing land use and is currently used as a natural gas regulating and metering station.

A manufactured gas plant operated at the site from 1902 to 1935. During the 1940s and early 1950s an electroplating facility was in operation at this location. The site was also used to manufacture buses until 2008.

Documents related to the cleanup of this site can be found at the locations identified below under "Where to Find Information." The cleanup activities will be performed by a contractor hired by Orange and Rockland Utilities, Inc. (O&R), with oversight provided by the New York State Department of Environmental Conservation (NYSDEC).

Additional site details, including environmental and health assessment summaries, are available on NYSDEC's website at:

<http://www.dec.ny.gov/cfm/external/derexternal/haz/details.cfm?pageid=3&progno=344045>

FOR MORE INFORMATION

Where to Find Information

Project documents are available at the following location(s) to help the public stay informed.

Suffern Free Library
210 Lafayette Ave
Suffern, NY 10901
Phone: (845) 357-1237

NYSDEC
21 South Putt Corners Road
New Paltz, NY 12561
Phone: (845) 256-3154

Who to Contact

Comments and questions are always welcome and should be directed as follows:

Project Related Questions

John Spellman
Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7014
518-402-9662
john.spellman@dec.ny.gov

Site-Related Health Questions

Anthony Perretta
New York State Department of Health
Bureau Environmental Exposure Investigation
ESP Corning Tower, Room 1787
Albany, NY 12237
(518) 402-7880
BEEI@health.state.ny.us

To direct questions to O&R please contact:

Trish Austin
Public Affairs Manager
845-577-2459
austint@oru.com

Maribeth McCormick
Manager - Environmental Services - Remediation
845-294-1757
mccormickm@oru.com

We encourage you to share this fact sheet with neighbors and tenants, and/or post this fact sheet in a prominent area of your building for others to see.

Receive Site Fact Sheets by Email

Have site information such as this fact sheet, sent right to your email inbox. NYSDEC invites you to sign up with one or more contaminated sites county email listservs available at the following web page: <http://www.dec.ny.gov/chemical/61092.html>. It's quick, it's free, and it will help keep you *better informed*.



As a listserv member, you will periodically receive site-related information/announcements for all contaminated sites in the county(ies) you select.

Note: Please disregard if you already have signed up and received this fact sheet electronically.

NYSDEC has one of the most aggressive Manufactured Gas Plant (MGP) site investigation and remediation programs in the country. Since the problems associated with the former MGP sites were identified, NYSDEC has been working with all the utilities on a state-wide basis to identify and address the issue of MGP sites for which they may have responsibility. This effort has resulted in approximately 220 sites identified for action by the eight utilities operating in New York State. Currently we have individual site or multi-site orders or agreements with all eight utilities, including Orange & Rockland, and several other individual site volunteers, to address 216 of these MGP sites.

In addition, there are 28 MGP sites that NYS is addressing or evaluating for action under the State Superfund. NYSDEC continues to seek to identify any other possible MGP sites throughout the State.

For more information about the NYSDEC's MGP Program, visit: www.dec.ny.gov/chemical/8430.html

State Superfund Program: New York's State Superfund Program (SSF) identifies and characterizes suspected inactive hazardous waste disposal sites. Sites that pose a significant threat to public health and/or the environment go through a process of investigation, evaluation, cleanup and monitoring.

NYSDEC attempts to identify parties responsible for site contamination and require cleanup before committing State funds.

For more information about the SSF, visit: <http://www.dec.ny.gov/chemical/8439.html>

REMEDIATION AREAS AND VOLUMES

LOCATION	RESERVE	GRACE	APPROXIMATE	EXCAVATION	ESTIMATE	EST. DEPTH TO	EST. DEPTH TO	EST. DEPTH TO
	(FT)	AREA	STARTING	END	(CY)	GROUNDWATER	GROUNDWATER	GROUNDWATER
		(SQ FT)	ELEVATION	ELEVATION		BELOW	BELOW	BELOW
AREA A	602	21,700	220	200	2,020	1.0	1.0	1.0
AREA B	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA C	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA D	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA E	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA F	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA G	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA H	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA I	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA J	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA K	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA L	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA M	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA N	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA O	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA P	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA Q	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA R	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA S	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA T	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA U	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA V	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA W	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA X	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA Y	490	5,817	210	200	4,840	1.0	1.0	1.0
AREA Z	490	5,817	210	200	4,840	1.0	1.0	1.0

1. ESTIMATE SURFACE AREA AND VOLUME DOES NOT INCLUDE CURBSIDE OR SIDEWALK.

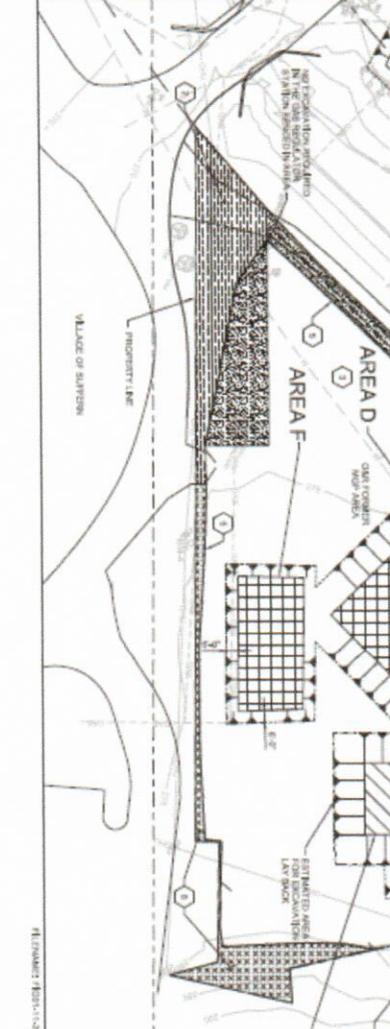
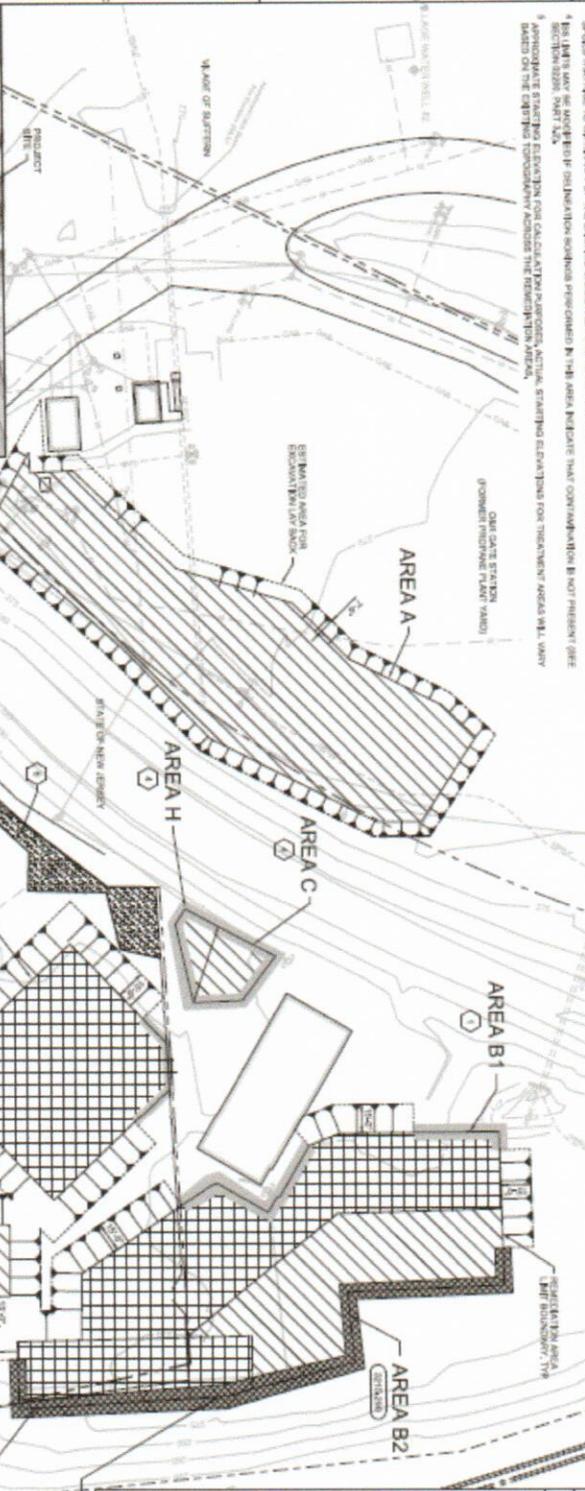
2. A TOTAL GROUNDWATER VOLUME OF 111,000 GALLONS AT THE TIME OF REMEDIATION IS ASSUMED TO BE THE ASSUMED GROUNDWATER ELEVATION. THIS IS BASED ON THE ASSUMPTION THAT THE GROUNDWATER ELEVATION IS THE SAME AS THE SURFACE ELEVATION.

3. AREA VOLUMES ARE BASED ON THE ASSUMPTION THAT THE GROUNDWATER ELEVATION IS THE SAME AS THE SURFACE ELEVATION.

4. THIS AREA WILL BE EXCAVATED TO A DEPTH OF 1.0 FEET BELOW THE ASSUMED GROUNDWATER ELEVATION. THIS IS BASED ON THE ASSUMPTION THAT THE GROUNDWATER ELEVATION IS THE SAME AS THE SURFACE ELEVATION.

5. APPROXIMATE SURFACE ELEVATION FOR GROUNDWATER PROTECTION IN THE AREA INDICATES THAT CONSTRUCTION IS NOT NEARLY GREATER THAN THE ASSUMED GROUNDWATER ELEVATION.

6. THIS AREA WILL BE EXCAVATED TO A DEPTH OF 1.0 FEET BELOW THE ASSUMED GROUNDWATER ELEVATION. THIS IS BASED ON THE ASSUMPTION THAT THE GROUNDWATER ELEVATION IS THE SAME AS THE SURFACE ELEVATION.



GENERAL SHEET NOTES

1. ACTIVE DRAINAGE, REMEDIATION, AND EXCAVATION TO BE CONDUCTED IN ACCORDANCE WITH THE REMEDIATION PLAN.
2. WHERE SHUT OFF VALVES ARE INDICATED AT THE BASE OF EXCAVATION, BE AWARE IN AFTERSHOTS AS SHOWN ON SHEET 'G1'.
3. REMEDIATION IN ACCORDANCE WITH SHEET 'G1' IS TO BE PERFORMED.

LEGEND

- EXCAVATION ONLY
- EXCAVATION AND B1 BELOW
- CONTRACTOR DESIGNED SUPPORT OR EXCAVATION REQUIRED
- NEW ARRIER TRAILER SUPPORT OR EXCAVATION REQUIRED
- SLOPE MARK ON LAY BACK

SHEET KEYNOTES

1. AREA A1 TO BE SOLIDIFIED USING SACKET MIXTURE METHOD.
2. IF GROUNDWATER ELEVATION AT THE END OF REMEDIATION IS HIGHER THAN THE ASSUMED GROUNDWATER ELEVATION, THE ASSUMED GROUNDWATER ELEVATION WILL BE USED FOR THE REMEDIATION PLAN. THIS WILL BE REPERFORMED UNDER AREA H.
3. AREAS OF THE AREA C AND D WHICH ARE NOT MARKED WITH A 'C' OR 'D' WILL BE EXCAVATED TO A DEPTH OF 1.0 FEET BELOW THE ASSUMED GROUNDWATER ELEVATION. THIS IS BASED ON THE ASSUMPTION THAT THE GROUNDWATER ELEVATION IS THE SAME AS THE SURFACE ELEVATION.
4. AREAS C AND D TO BE REPERFORMED FIRST.
5. EXCAVATION OF SURFACE SOIL WITHIN THE PROPERTY LINE OUTSIDE OF REMEDIATION AREAS AND OLD REGULATORY STATION, EITHER OF WHICH WILL BE PERFORMED.
6. THE AREA OUTSIDE OF THE OLD FURNACE WAP AREA WILL BE EXCAVATED TO A DEPTH OF 1.0 FEET BELOW THE ASSUMED GROUNDWATER ELEVATION. THIS IS BASED ON THE ASSUMPTION THAT THE GROUNDWATER ELEVATION IS THE SAME AS THE SURFACE ELEVATION.
7. THIS AREA OUTSIDE OF THE OLD FURNACE WAP AREA WILL BE EXCAVATED TO A DEPTH OF 1.0 FEET BELOW THE ASSUMED GROUNDWATER ELEVATION. THIS IS BASED ON THE ASSUMPTION THAT THE GROUNDWATER ELEVATION IS THE SAME AS THE SURFACE ELEVATION.
8. THIS AREA OUTSIDE OF THE OLD FURNACE WAP AREA WILL BE EXCAVATED TO A DEPTH OF 1.0 FEET BELOW THE ASSUMED GROUNDWATER ELEVATION. THIS IS BASED ON THE ASSUMPTION THAT THE GROUNDWATER ELEVATION IS THE SAME AS THE SURFACE ELEVATION.
9. THIS AREA OUTSIDE OF THE OLD FURNACE WAP AREA WILL BE EXCAVATED TO A DEPTH OF 1.0 FEET BELOW THE ASSUMED GROUNDWATER ELEVATION. THIS IS BASED ON THE ASSUMPTION THAT THE GROUNDWATER ELEVATION IS THE SAME AS THE SURFACE ELEVATION.
10. THIS AREA OUTSIDE OF THE OLD FURNACE WAP AREA WILL BE EXCAVATED TO A DEPTH OF 1.0 FEET BELOW THE ASSUMED GROUNDWATER ELEVATION. THIS IS BASED ON THE ASSUMPTION THAT THE GROUNDWATER ELEVATION IS THE SAME AS THE SURFACE ELEVATION.

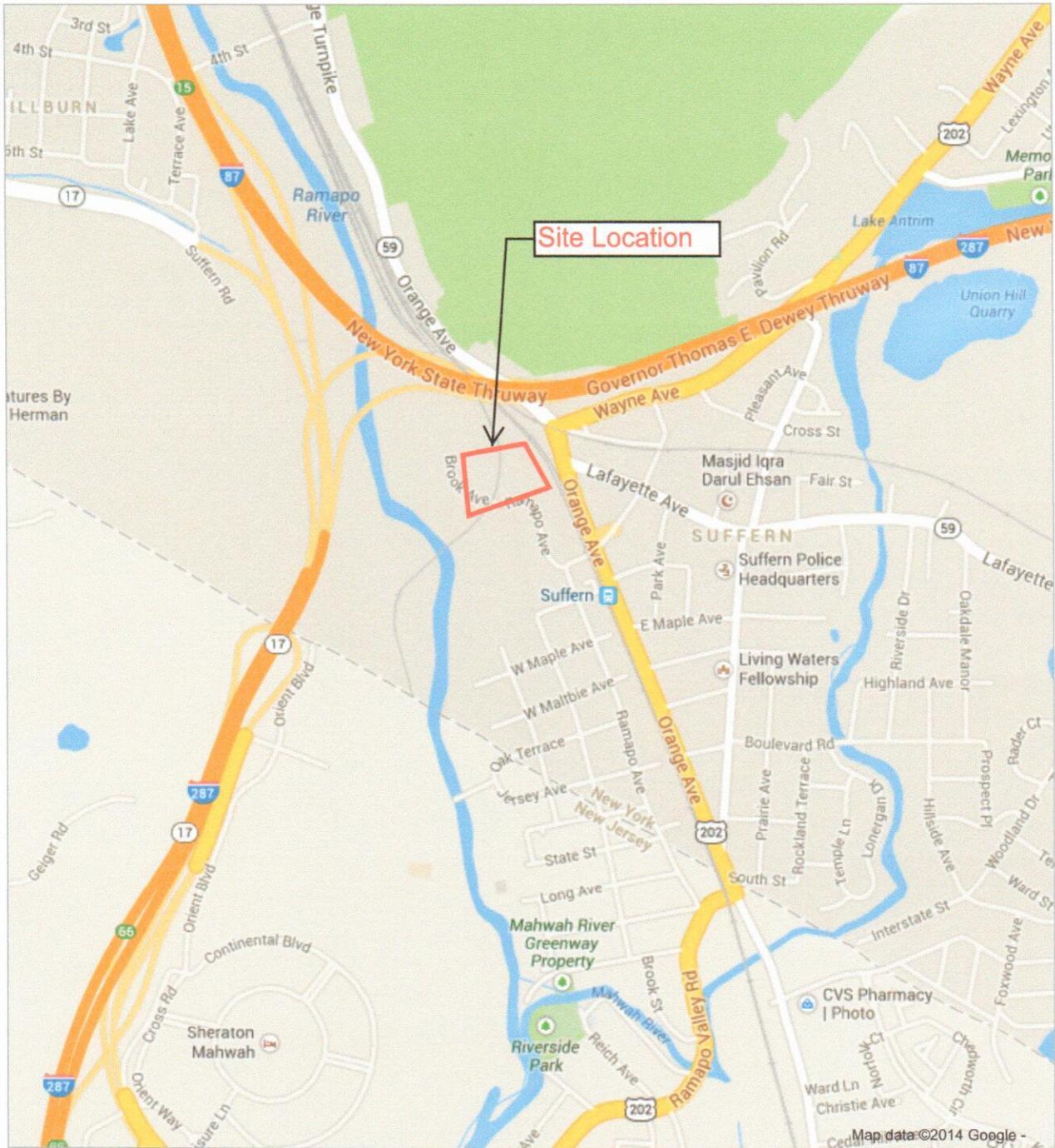
FIGURE 1
REMEDIATION APPROACH PLAN

SUFFERN FORMER WAP SITE
GRANITE & ROCK AND UTILITIES, INC.
SUFFERN, NEW YORK

NO.	DATE	BY	REVISED

APPROVED: SA MCKENNA

DESIGNED: PA KARAGAN



Suffern MGP Site

Site Number 344045

Village of Suffern, Rockland County