

December 20, 2018

Mr. Scott Deyette
New York State Department of Environmental Conservation
Division of Environmental Remediation, BURC
625 Broadway
Albany, New York 12233-7014

Re: National Grid Herkimer Former MGP Site
NYSDEC Site No. V00471-6
Herkimer, New York
2018 Periodic Review Report

Dear Mr. Deyette:

Enclosed for your review is the 2018 Periodic Review Report (PRR) for the National Grid Herkimer MGP Site. The PRR pertains to the period from November 23, 2017 through November 23, 2018 and includes a brief report and Institutional Controls/Engineering Controls (IC/EC) Certification Form.

Please feel free to contact me at 315.428.5652 if you have any questions.

Sincerely,



for SPS
Steven P. Stucker, C.P.G.
Lead Environmental Engineer

I. Introduction

A. Brief Site Summary –

The Herkimer Manufactured Gas Plant (MGP) Site (the Site) is located on an approximate 0.6 acre lot in Herkimer, New York (refer to Figure 1 Site Location Map). The site was owned by Niagara Mohawk (NM) and operated as a MGP facility approximately from 1890 to 1911, upon which time it was consolidated with the NM-owned Ilion MGP.

An investigation of the Site began in 2003 with an Initial Site Characterization/Interim Remedial Measure (IRM) Study performed by TRC. This study was followed by a Supplemental Site Characterization (TRC, 2005) and a Remedial Investigation (TRC, 2009). Pre-design investigations including Pre-design Activities in 2010 and a Groundwater Pumping Test in 2011 were conducted by O'Brien and Gere.

The site investigations identified impacted soils from MGP related activities. Soil samples were collected and analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), metals and cyanide. The constituents of concern that were identified above Site Cleanup Objectives (SCOs) included VOCs (benzene, toluene, ethylbenzene, xylene (BTEX)) and SVOCs (polycyclic aromatic hydrocarbons (PAHs)). Cyanide and metals were not detected in soils at the Site above SCOs. The areas where soil exceeded SCOs also generally contained visual evidence of impacts in the form of non-aqueous phase liquid (NAPL), tar, or blebs of product. Groundwater samples indicated that groundwater in the northern portion of the Site had concentrations of BTEX and PAHs exceeding groundwater standards but did not require remedial action. Additionally, soil vapor and air samples collected at the Site indicated no significant levels of contamination.

The major areas of subsurface contamination were identified as the Holder Area and Petroleum Area. The Holder Area was located on the western side of the parcel in the vicinity of the former sub-grade octagonal brick gas holder (approximately 45 feet across), while the Petroleum Area was located in the center of the Site where the former fuel oil tanks and MGP facility were located. Both areas exhibited impacted soils and NAPL.

Approximately 4,350 cubic yards of MGP-related subsurface soils were excavated to an approximate depth of 12 ft. below ground surface (bgs) in the Holder Area and 16 ft. bgs in the Petroleum Area. These excavated soils were disposed off-site at a permitted facility. Following the excavation, a soil cover was installed to a minimum depth of two feet to allow for restricted-residential use of the Site. All fill material met the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d). Additionally,

the upper six inches of soil was of sufficient quality to maintain a vegetation layer. An Environmental Easement was developed to restrict land use and prevent future exposure to MGP-related residuals remaining at the Site. Lastly, a Site Management Plan (SMP) was developed to outline institutional and engineering controls, monitoring, and reporting at the Site.

- B. Remedial Program Effectiveness** – During the reporting period (November 23, 2017 to November 23, 2018), the long-term remedial objectives were met for the site.
- C. Remedial Program Compliance** - The major elements within the Institutional Control/Engineering Control(s) (IC/EC) Plan are in compliance.
- D. Remedial Program Recommendations** - It is recommended that no changes be made to the IC/EC Plan. It is recommended that an annual Periodic Review Report (PRR) be submitted. The next PRR submittal will cover the period November 24, 2018 to November 23, 2019.

II. Site Overview

A. Site Location and Boundaries –

The Site is located in the City of Herkimer, County of Herkimer, New York (Figure 1 presents the site location map). The Site is an approximate 0.6-acre area bounded by West Smith Street to the north, William Street to the east, and by residential properties to the west and to the south (Figure 2 presents the site plan). Currently, the site is owned by an adjacent resident and is vacant and not fenced.

B. Regulatory History and Remedy Features –

The site was remediated in accordance with the multi-site Voluntary Consent Order (VCO) (NYSDEC, 2002) Index No. D0-0001-0011 Site #V00471, which was executed in 2002.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness

- A. **Evaluation of Remedy Performance** – Annual visual inspections of the cover system are conducted on the Site. The remedy performance has been effective in protecting the public.

IV. IC/EC Plan Compliance Report

A. IC/EC Requirements and Compliance

1. IC/EC Controls

The ICs/ECs:

- Soil Cover System: Annual site inspection of the cover system includes identification of any damage to the cover.

2. IC/EC Goals - Each goal is being met and/or working effectively.

3. IC/EC Corrective Measures – No deficiencies were noted during the site inspections.

4. IC/EC Conclusions/Recommendations – The EC program is in compliance and there are no recommendations for the program at this time.

5. IC/EC Certification – Refer to PRR Form - Attachment 1 for the certification.

V. Monitoring Plan Compliance Report – The annual inspection of the cover system was conducted on September 17, 2018.

VI. Operation & Maintenance (O&M) Plan Compliance Report – Not Applicable.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with Site Management Plan (SMP)

- 1. Requirements** – All IC/EC Plan requirements were met during this reporting period.

2. **Exposure Pathways** – There are no new completed exposure pathways resulting in unacceptable risk.
 3. **Proposed Plans and Schedule to Meet Compliance** – No plan proposed.
- B. **Performance and Effectiveness of the Remedy** – The remedy as described in the Site Management Plan and executed by National Grid has been effective in meeting the program goals.
- C. **Future PRR Submittals** – The frequency of PRR Submittals should remain annual. Therefore, the next PRR reporting period will cover November 24, 2018 through November 23, 2019.

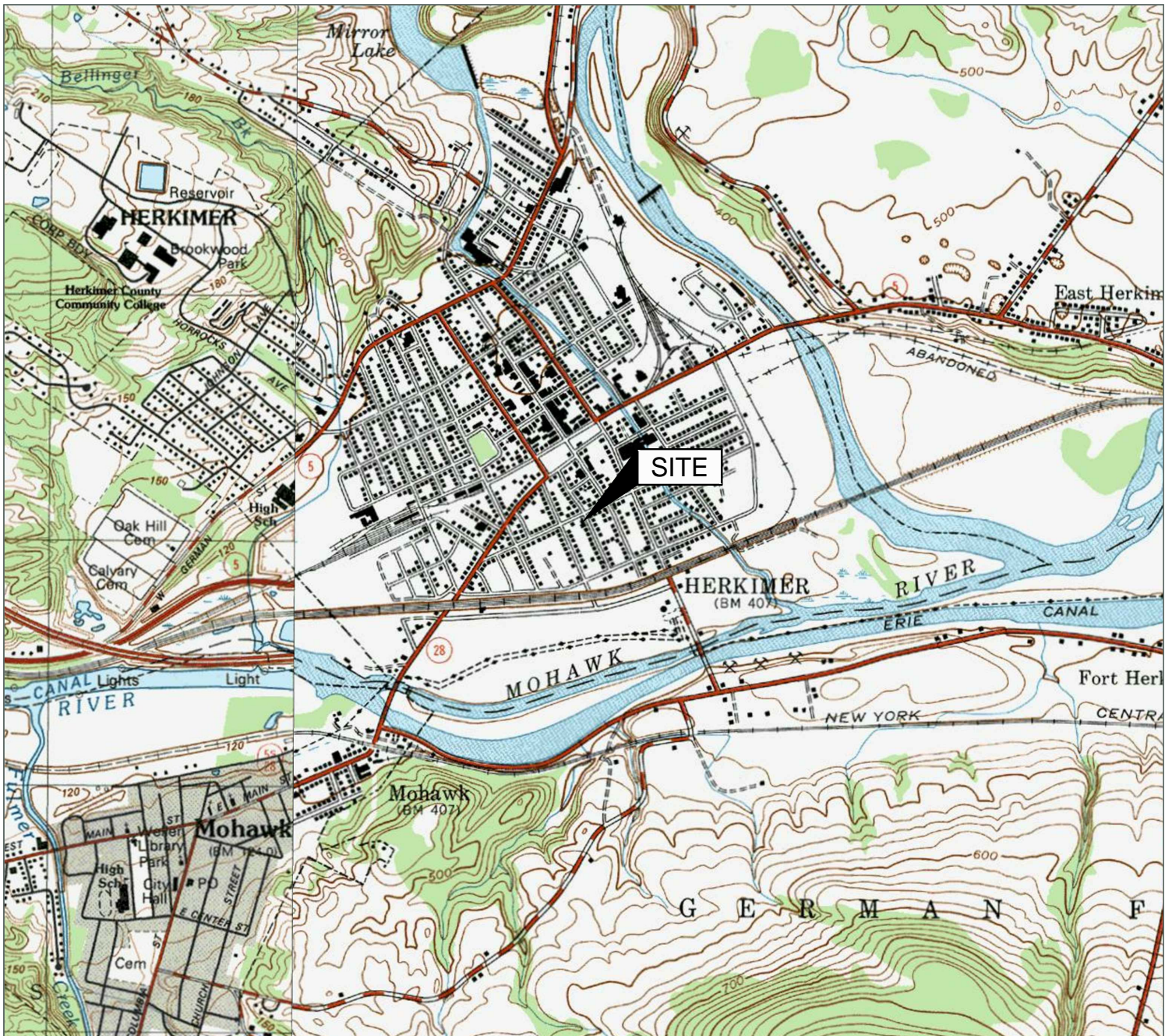
VIII. Additional Guidance – Not needed.

National Grid- Herkimer MGP Site (NYSDEC Site No. V00471-6)

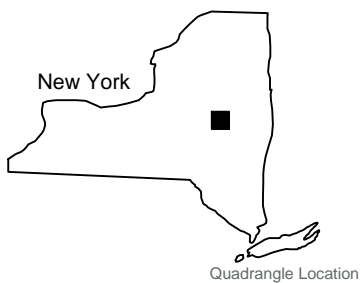
Reporting Period – November 23, 2017 through November 23, 2018

REFERENCES

O'Brien & Gere, 2016. "NM – Herkimer Smith St. MGP Site, Site Management Plan", April 2016.



Source:
 USGS 7.5 Minute Series
 Topographic Quadrangle, 1943
 Herkimer, New York
 Contour Interval = 20'



Site Location Map

National Grid
 Former MGP Site
 Smith Street
 Herkimer, New York

Drawn
 W.G.S.
 Designed
 Approved



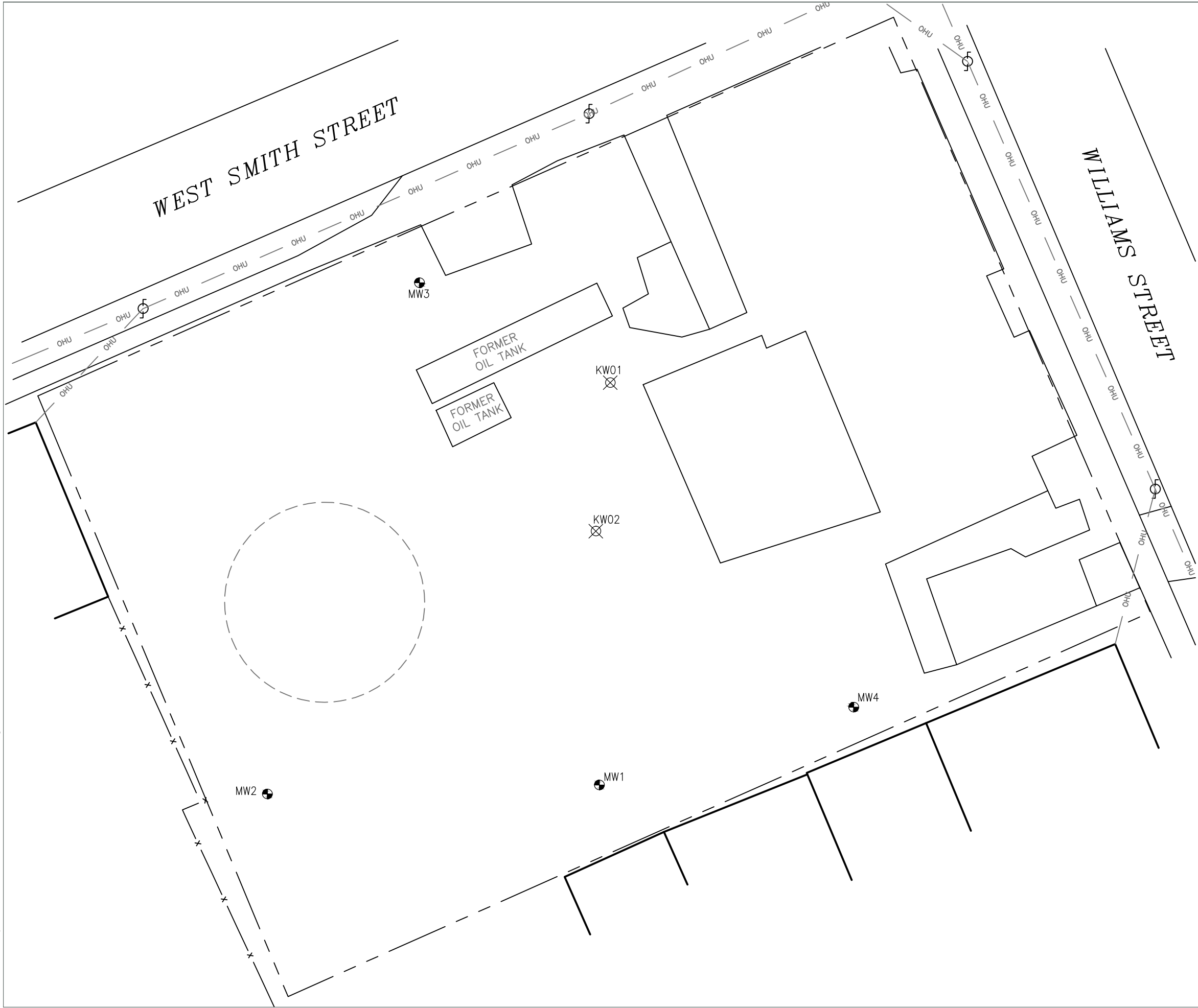
Scale In Feet

0 2000



Date
 12-21-17
 Figure
 1

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LEGEND

- PROPERTY BOUNDARY
- x — FENCE
- UTILITY POLE
- MONITORING WELL
- ⊗ K-TEST WELL

Site Map

National Grid
Former MGP Site
Smith Street
Herkimer, New York

Drawn
W.G.S.
Designed
Approved

Date
12-21-17
Figure



Scale In Feet
0 20



Field Inspection Report
Smith Street Former MGP Site
Herkimer, New York

Date: 12/6/2018
Technician: TB

Time: 11:30
Weather: Cloudy 35

Vegetated Cover Areas				
Soil Above Geotextile	GOOD	FAIR	DAMAGED	COMMENTS:
Signs of Burrowing Animals?	YES		NO	COMMENTS:
Signs of Erosion?	YES		NO	COMMENTS:
Vegetative Growth	GOOD	FAIR	POOR	COMMENTS:
Vegetative Coverage	Established >80%		Established <80%	COMMENTS:
Agricultural or Vegetable Gardens	YES		NO	COMMENTS:
Site Been Mowed	YES		NO	COMMENTS:
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

Drainage Facilities				
Ponding or Standing Water?	YES		NO	COMMENTS:
Sediment or debris within the site?	NONE	MINOR	SIGNIFICANT	COMMENTS:
Evidence of Sediment Release from Site?	YES		NO	COMMENTS:
Condition of Erosion Controls?	GOOD	FAIR	POOR	COMMENTS:

General Comments:

Raised Bed Gardens SW Corner are okay.

FIELD INSPECTION REPORT

Smith Street Former MGP Site

Herkimer, New York

Date: 9/17/2018

Technician: KL

Time: 14:15

Weather: PC 82

Vegetated Cover Areas				
Soil Above Geotextile	GOOD	FAIR	DAMAGED	COMMENTS:
Signs of Burrowing Animals?	YES	NO		COMMENTS:
Signs of Erosion?	YES	NO		COMMENTS:
Vegetative Growth	GOOD	FAIR	POOR	COMMENTS:
Vegetative Coverage	Established >80%		Established <80%	COMMENTS:
Agricultural or Vegetable Gardens	YES	NO		COMMENTS:
Site Been Mowed	YES	NO		COMMENTS:
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

Drainage Facilities				
Ponding or Standing Water?	YES	NO		COMMENTS:
Sediment or debris within the site?	NONE	MINOR	SIGNIFICANT	COMMENTS:
Evidence of Sediment Release from Site?	YES	NO		COMMENTS:
Condition of Erosion Controls?	GOOD	FAIR	POOR	COMMENTS:

General Comments:

Raised Bed Gardens SW Corner are okay.

FIELD INSPECTION REPORT

Smith Street Former MGP Site

Herkimer, New York

Date: 6/22/2018

Technician: KL

Time: 11:15

Weather: Sunny 70

Vegetated Cover Areas				
Soil Above Geotextile	GOOD	FAIR	DAMAGED	COMMENTS:
Signs of Burrowing Animals?	YES	NO		COMMENTS:
Signs of Erosion?	YES	NO		COMMENTS:
Vegetative Growth	GOOD	FAIR	POOR	COMMENTS:
Vegetative Coverage	Established >80%		Established <80%	COMMENTS:
Agricultural or Vegetable Gardens	YES	NO		COMMENTS:
Site Been Mowed	YES	NO		COMMENTS:
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

Drainage Facilities				
Ponding or Standing Water?	YES	NO		COMMENTS:
Sediment or debris within the site?	NONE	MINOR	SIGNIFICANT	COMMENTS:
Evidence of Sediment Release from Site?	YES	NO		COMMENTS:
Condition of Erosion Controls?	GOOD	FAIR	POOR	COMMENTS:

General Comments:

Raised Bed Gardens SW Corner are okay.

FIELD INSPECTION REPORT

Smith Street Former MGP Site

Herkimer, New York

Date: 3/22/2018

Technician: KL

Time: 12:30

Weather: Sunny 39

Vegetated Cover Areas				
Soil Above Geotextile	GOOD	FAIR	DAMAGED	COMMENTS:
Signs of Burrowing Animals?	YES	NO		COMMENTS:
Signs of Erosion?	YES	NO		COMMENTS:
Vegetative Growth	GOOD	FAIR	POOR	COMMENTS:
Vegetative Coverage	Established >80%	Established <80%		COMMENTS:
Agricultural or Vegetable Gardens	YES	NO		COMMENTS:
Site Been Mowed	YES	NO		COMMENTS: snow covered
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

Drainage Facilities				
Ponding or Standing Water?	YES	NO		COMMENTS:
Sediment or debris within the site?	NONE	MINOR	SIGNIFICANT	COMMENTS:
Evidence of Sediment Release from Site?	YES	NO		COMMENTS:
Condition of Erosion Controls?	GOOD	FAIR	POOR	COMMENTS:

General Comments:

Raised Bed Gardens SW Corner are okay.



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details

Box 1

Site No. V00471

Site Name NM - Herkimer Smith St. MGP

Site Address: Smith & William **Zip Code:** 13350

City/Town: Herkimer

County: Herkimer

Site Acreage: 0.6

Reporting Period: November 23, 2017 to
November 23, 2018

YES NO

1. Is the information above correct?

☒ ☐

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?

☐ ☒

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?

☐ ☒

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

☐ ☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?

☐ ☒

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?
Restricted-Residential, Commercial, and Industrial

☒ ☐

7. Are all ICs/ECs in place and functioning as designed?

☒ ☐

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Description of Institutional ControlsParcel**120.33-3-3**Owner

Mark Netti

Institutional Control

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Building Use Restriction
Site Management Plan
IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property that:

1. requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls;
2. allows the use and development of the controlled property for restricted-residential, commercial, and industrial uses (subject to local zoning laws);
3. restricts the use of groundwater as a source of potable or process water without necessary water quality treatment as determined by NYSDOH or County DOH;
4. prohibits agriculture or vegetable gardens on the controlled property; and
5. requires compliance with the Site Management Plan.

Box 4**Description of Engineering Controls**Parcel**120.33-3-3**Engineering Control**Cover System**

A site cover is required to allow for restricted-residential use of the site. The site cover consists of either structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer.

IC CERTIFICATIONS
SITE NO. V00471

Box 6

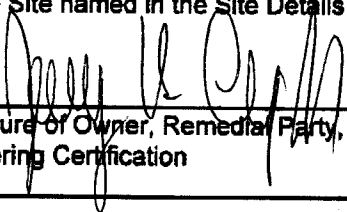
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

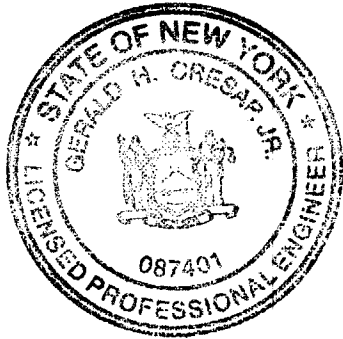
I Gerald H. Cresap, PE at 5 Technology Place, Suite 4, East Syracuse, NY
print name print business address

am certifying as agent for National Grid (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

12-20-18
Date




12/20/18

agent for National Grid