From: Miller, John Y (DEC) < john.miller@dec.ny.gov >

**Sent:** Friday, February 11, 2022 11:47 AM

To: Campbell, Donald Cc: Douglas MacNeal

Subject: [EXTERNAL] RE: Dangman Park: MW-14 and MW-20 Groundwater Sampling and

Well Abandonment Plan

Hi Donald,

The NYSDEC has reviewed the Groundwater Sampling and Well Abandonment Plan for the Dangman Park Former MGP site. The work plan summarizes a proposal for groundwater sampling and well abandonment activities at the site. This work is being completed as a result of a recent NYSDEC request to obtain current groundwater data from the site's remaining wells prior to the upcoming redevelopment activities. The proposal is consistent with recent discussions and is acceptable. Therefore the work plan is approved.

Please provide the NYSDEC with notification of any changes to the schedule that is outlined

below. Regards,

John B. Miller, P.E. NYSDEC Division of Environmental Remediation 625 Broadway, 12th floor Albany, NY 12233-7014 Phone: (518) 402-9589



# Monitoring Wells MW-14 and MW-20 Groundwater Sampling and Decommissioning Work Plan

Former Dangman Park Manufactured Gas Plant Site Brooklyn, New York
NYSDEC Site No. 224047
Index # A2-0552-0606

February 4, 2022

# Monitoring Wells MW-14 and MW-20 Groundwater Sampling and Decommissioning Work Plan

Former Dangman Park Manufactured Gas Plant Site

Brooklyn, New York

NYSDEC Site No. 224047

Index # A2-0552-0606

February 4, 2022

#### Prepared By:

Arcadis of New York, Inc.
One Lincoln Center, 110 West Fayette Street, Suite 300
Syracuse
New York 13202

Phone: 315 446 9120 Fax: 315 449 0017

# Our Ref: 30003989

#### **Prepared For:**

National Grid 11<sup>th</sup> Floor, 2 Hanson Place Brooklyn New York 11217

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#### Certification

I, Steven M. Feldman, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this *Monitoring Wells MW-14 and MW-20 Groundwater Sampling and Decommissioning Work Plan, Former Dangman Park Manufactured Gas Plant Site, Brooklyn, New York, NYSDEC Site No. 224047, Index # A2-0552-0606* was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation (DER) *Technical Guidance for Site Investigation and Remediation* (DER-10).

Steve Jellman Date: February 4, 2022

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## **Figure**

Figure 1 - Site Plan

#### **Attachment**

#### **Attachment 1**

- National Grid's April 28, 2016 Letter to NYSDEC: Proposed Monitoring Well Decommissioning
- NYSDEC's May 12, 2016 Approval Email

www.arcadis.com

## **Acronyms and Abbreviations**

Arcadis Arcadis of New York, Inc.

ASP Analytical Services Protocol

bls below land surface

DER Division of Environmental Remediation

DOT Department of Transportation

EDDs Electronic Data Deliverables

ELAP Environmental Laboratory Approval Program

ft feet

FSP Field Sampling Plan

HASP Health and Safety Plan

IDW investigation-derived waste

MGP manufactured gas plant

NAPL non-aqueous phase liquid

NYSDEC New York State Department of Environmental Conservation

ORP oxidation-reduction potential

PID photoionization detector

QAPP Quality Assurance Project Plan

RI Remedial Investigation

Site Former Dangman Park Manufactured Gas Plant

SOP Standard Operating Procedure

SVOCs semi-volatile organic compounds

VOCs volatile organic compounds

### **Executive Summary**

This work plan has been prepared by Arcadis of New York, Inc. (Arcadis) on behalf of The Brooklyn Union Gas Company d/b/a National Grid NY (National Grid) to describe the groundwater sampling and decommissioning activities to be conducted at monitoring wells MW-14 and MW-20 (**Figure 1**) in association with the former Dangman Park Manufactured Gas Plant (MGP) site (the Site). As detailed herein, the groundwater sampling and decommissioning of these monitoring wells will be conducted in accordance with procedures previously approved by the New York State Department of Environmental Conservation (NYSDEC) for this project.

The parcels on which these two monitoring wells are located are not owned by National Grid. Prior to conducting the field activities identified herein, National Grid will need to obtain written access permission from the current property owners. The schedule for the field activities will be coordinated with the NYSDEC and the property owners, pending receipt of NYSDEC's approval and an agreement from each property owner for access. Field activities associated with monitoring well MW-14 will be completed first and in a separate mobilization from those associated with MW-20. The field activities include the following:

- Collecting one groundwater sample from monitoring wells MW-14 and MW-20 using low-flow sampling techniques and a submersible pump. The groundwater samples will be submitted to a laboratory possessing a current Environmental Laboratory Approval Program (ELAP) certificate from the New York State Department of Health (NYSDOH) for analysis of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). Field parameters including pH, oxidation-reduction potential (ORP), temperature, conductivity, dissolved oxygen, and turbidity will be collected during groundwater sampling and each well will be gauged for the absence/presence of non-aqueous phase liquid (NAPL) prior to purging.
- Decommissioning monitoring wells MW-14 and MW-20 in accordance with NYSDEC CP-43: Groundwater
   Monitoring Well Decommissioning Policy. Specifically, the grouting-in-place method will be used, which will
   involve filling the casing with a cement/bentonite grout from the bottom of the well to 5 feet below land surface
   (ft bls), overdrilling the well casing to 5 ft bls, and removing the upper five feet of the casing and associated
   well materials from the ground.
- Preparing summary letters for MW-14 and MW-20 for submittal to the NYSDEC after completing the field work and validating the groundwater analytical data. Because the field activities associated with monitoring wells MW-14 and MW-20 will be conducted in separate mobilizations, separate summary letters will be submitted to the NYSDEC.

#### Introduction 1

This work plan describes the groundwater sampling and decommissioning activities to be conducted at monitoring wells MW-14 and MW-20 (Figure 1) in association with the former Dangman Park Manufactured Gas Plant (MGP) site (the Site). The Site is identified as New York State Department of Environmental Conservation (NYSDEC) Site No. 224047. This work plan has been prepared by Arcadis of New York, Inc. (Arcadis) on behalf of The Brooklyn Union Gas Company d/b/a National Grid NY (hereinafter National Grid), in accordance with the requirements of a Multi-Site Order on Consent and Administrative Settlement (Consent Order: Index # A2-0552-0606) that was entered into by National Grid and the NYSDEC in February 2007. This work plan has also been prepared in accordance with the NYSDEC's Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10).

MW-14 is the only monitoring well remaining of the fourteen (14) wells installed on Block 7273, Lot 1R1 because it was not accessible in June 2016 when all the other monitoring wells on this lot were decommissioned in accordance with the NYSDEC-approved plan (National Grid letter dated April 28, 2016 and NYSDEC May 12, 2016 approval email; Attachment 1). Decommissioning of the monitoring wells on Lot 1R was necessary in light of redevelopment by the property owner; the decommissioning records are included in the NYSDEC-approved June 2020 Construction Completion Report prepared by Arcadis. National Grid understands from the property owner that MW-14 will be accessible until March 1, 2022.

MW-20 is located north of Neptune Avenue (Block 7250, Lot 1R). The NYSDEC (John Miller) identified during a January 10, 2022 telephone conversation with National Grid (Donald Campbell) that National Grid could plan to also decommission this monitoring well and to collect a groundwater sample from both MW-14 and MW-20, prior to decommissioning. As detailed herein, the groundwater sampling and monitoring well decommissioning will be conducted in accordance with procedures previously approved by the NYSDEC for this project.

The properties on which these two monitoring wells are located are not owned by National Grid. Prior to conducting the field activities identified herein. National Grid will need to obtain written access permission from the current property owners as outlined in Section 2. After obtaining access, the schedule for the field activities will be coordinated with the property owners and National Grid will notify the NYSDEC of the planned schedule. Field activities associated with monitoring well MW-14 will be completed first and in a separate mobilization from those associated with MW-20.

The remainder of this work plan is organized as follows:

- Section 2 Access Permission outlines the need for National Grid to obtain written permission from the current property owner of Block 7273, Lot 1R (MW-14) and the current property owner of Block 7250, Lot 1R (MW-20) prior to conducting any field activities on the respective properties.
- Section 3 Groundwater Sampling and Well Decommissioning identifies the requirements and procedures for collecting groundwater samples, decommissioning monitoring wells MW-14 and MW-20, and managing investigation-derived waste (IDW).
- Section 4 Schedule and Reporting provides schedule information for sampling and decommissioning monitoring wells MW-14 and MW-20, and identifies the summary letters to be provided to NYSDEC.

<sup>&</sup>lt;sup>1</sup> Note that Block 7273, Lot 1R has been subdivided but for the purpose of consistency with reference to past reports and workplans for MW-14, the property is referred to as Block 7273, Lot 1R in this work plan.

#### 2 Access Permission

As previously identified, the properties on which monitoring wells MW-14 and MW-20 are located (**Figure 1**) are not owned by National Grid. Accordingly, National Grid will need to obtain written permission from the following:

- Current property owner to access the property located at 486 Neptune Avenue, Brooklyn, New York, designated as Block 7273, Lot 1R on the Tax Map of Kings County to sample and decommission monitoring well MW-14; and
- Current property owner to access the property located at 2800 West 5<sup>th</sup> Street, Brooklyn, New York, designated as Block 7250, Lot 1R on the Tax Map of Kings County to sample and decommission monitoring well MW-20.

### 3 Groundwater Sampling and Well Decommissioning

#### 3.1 General

This section identifies the requirements and procedures for collecting groundwater samples, decommissioning monitoring wells MW-14 and MW-20 and managing IDW. As noted in Section 1, field activities associated with monitoring well MW-14 will be completed first and in a separate mobilization from those associated with MW-20. The field work will be conducted in accordance with Arcadis' current health and safety plan (HASP) for the Site which addresses COVID-19 health and safety procedures.

#### 3.2 Groundwater Sampling

Arcadis will collect one groundwater sample from monitoring wells MW-14 and MW-20. Prior to sampling, each well will be gauged for the absence/presence of NAPL and then purged. The wells will be purged using low-flow methods as described in the Low-Flow Groundwater Purging and Sampling Procedures for Monitoring Wells Standard Operating Procedure (Appendix B [Field Sampling Plan] of the NYSDEC-approved September 2011 Remedial Investigation Work Plan [RI Work Plan]).

Following gauging and purging, one groundwater sample will be collected from each monitoring well using low-flow sampling techniques and a submersible pump. The groundwater samples will be submitted to a laboratory possessing a current ELAP certificate from the NYSDOH for the analysis of VOCs and SVOCs. Field parameters including pH, ORP, temperature, conductivity, dissolved oxygen, and turbidity will be collected during groundwater sampling using the procedures outlined in aforementioned *Low-Flow Groundwater Purging and Sampling Procedures for Monitoring Wells Standard Operating Procedure*.

The groundwater samples will be analyzed under a standard turnaround time in accordance with the analytical methods listed in the *Quality Assurance Project Plan* (QAPP) (Appendix C of the RI Work Plan). The chemistry data will be transferred from the laboratory and maintained in a database format. The laboratory will provide Electronic Data Deliverables (EDDs), which will be uploaded directly into the project database.

The laboratory will produce NYSDEC Analytical Services Protocol (ASP) Category B deliverable packages and will produce Contract Laboratory Program-type data packages that will contain all information needed for formal validation of the data. Data validation will be performed by Arcadis in accordance with applicable requirements and guidelines, including analytical method performance criteria, laboratory control limits, and NYSDEC ASP requirements. These procedures are specific with regard to evaluation of holding time, surrogate and spike recoveries, precision of duplicate measurements, instrument performance, blank contamination, compound identification, and compound quantification. Additional information is provided in the QAPP (Appendix C of the RI Work Plan). Following completion of the validation, a data usability summary report (DUSR) will be prepared by Arcadis in accordance with DER-10 and appended to the summary letters to be submitted to the NYSDEC as outlined in Section 4.

#### 3.3 Well Decommissioning

The monitoring well decommissioning activities will be performed by an Arcadis drilling subcontractor and will be observed/documented by an on-site Arcadis representative. Monitoring wells MW-14 and MW-20 were

installed to total depths of 93 and 97 ft bls, respectively, using sonic drilling techniques. The monitoring well construction details and well construction logs are provided in the NYSDEC-approved July 2014 RI Report; a copy of Table 2 (Monitoring Well Construction Details) from the RI Report is part of the NYSDEC-approved monitoring well decommissioning plan for the Site (Attachment 1).

MW-14 and MW-20 will be decommissioned in accordance with NYSDEC *CP-43: Groundwater Monitoring Well Decommissioning Policy* (CP-43) and the NYSDEC-approved monitoring well decommissioning plan for the Site (Attachment 1). Specifically, the grouting-in-place method will be used, which involves filling the casing with a cement/bentonite grout from the bottom of the well to 5 ft bls, overdrilling the well casing to 5 ft bls, and removing the upper five feet of the casing and associated well materials from the ground. The grout mixture will be approximately 7.8 gallons of potable water, one 94-pound bag of Type I Portland cement, and 3.9 pounds of powdered bentonite. The upper five feet of the boreholes will be backfilled to land surface with clean sand and the surface will be restored consistent with the surrounding surface material (e.g., cold asphalt patch). NYSDEC's Well Decommissioning Record (CP-43, Figure 3) will be completed for each well, signed by the driller, and appended to the summary letters to be submitted to NYSDEC as outlined in Section 4.

#### 3.4 Investigation-Derived Waste Management

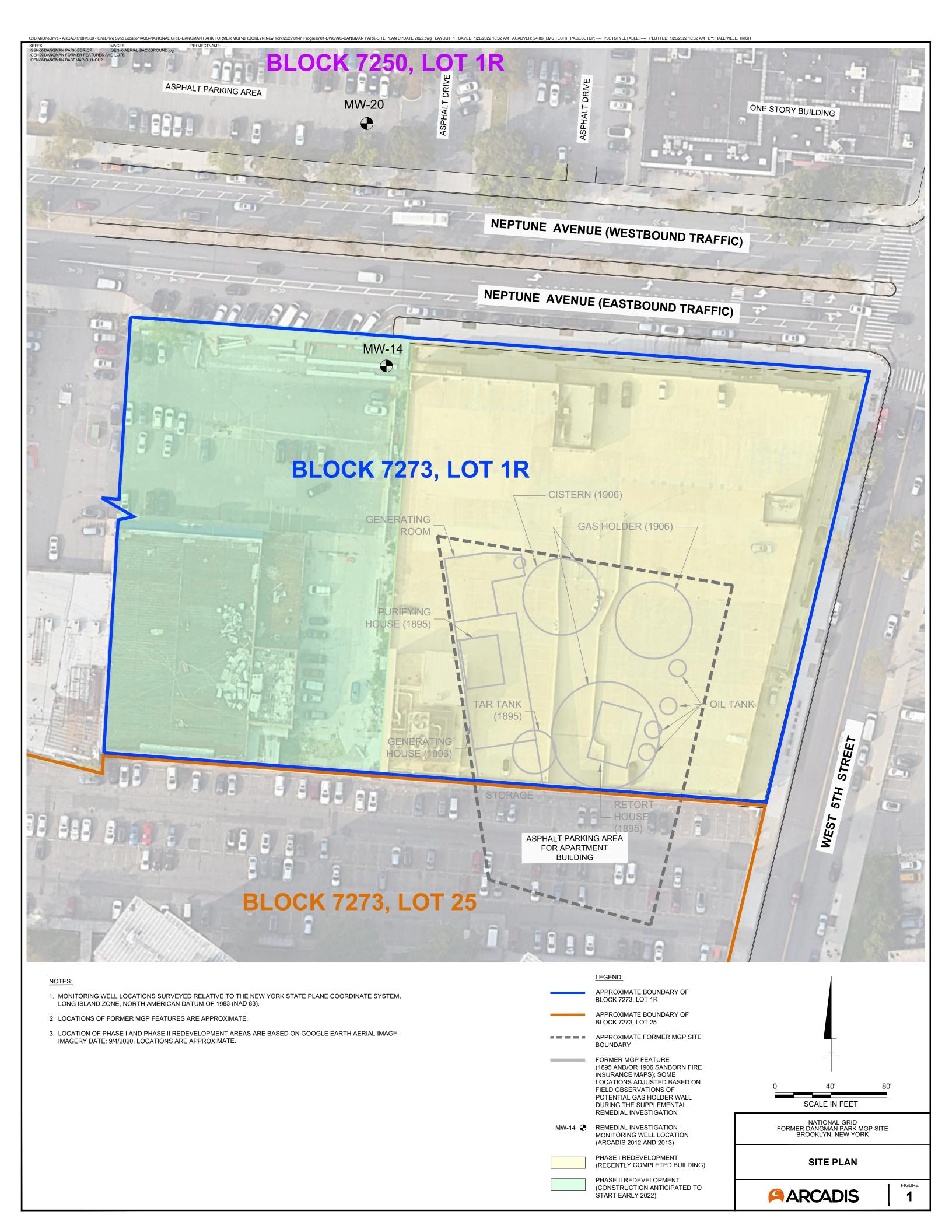
Upon completion of the groundwater sampling and monitoring well decommissioning field work at each property, IDW (e.g., groundwater, upper 5 ft of well casing, plastic sheeting, decontamination water, etc.) will be containerized and transported for off-site treatment/disposal in accordance with applicable rules and regulations. All IDW will be containerized in Department of Transportation (DOT)-approved 55-gallon steel drums that will be properly labeled by Arcadis with the contents, generator, location, and date. The containerized wastes will be temporarily stored at a location determined in conjunction with each property owner, pending transportation for appropriate off-site treatment/disposal by National Grid in accordance with applicable rules and regulations.

### 4 Schedule and Reporting

After obtaining access to each property, the schedule for sampling and decommissioning monitoring wells MW-14 and MW-20 will be coordinated with the respective property owner. As identified in Section 1, field activities associated with monitoring well MW-14 will be completed first and in a separate mobilization from those associated with MW-20. National Grid understands from the property owner that MW-14 will be accessible until March 1, 2022, after which date the property owner is planning to do construction in the area of MW-14. Accordingly, National Grid has planned to perform the sampling and decommissioning of MW-14 in February 2022. A tentative schedule for the MW-20 field activities has not yet been identified, pending written access permission discussions with the property owner. For both MW-14 and MW-20, the groundwater sample will be collected and then the well decommissioning will be conducted.

The NYSDEC will be notified at least 7 days in advance of the date for commencement of the field activities for MW-14 and MW-20. Upon completion of the field activities and validation of the groundwater analytical data, summary letters for MW-14 and MW-20 will be provided to the NYSDEC documenting the work completed. Separate summary letters for each well will be prepared and submitted. Each summary letter will include a Low-Flow Groundwater Sampling Log, Well Decommissioning Record, and DUSR for the groundwater analytical data.

# **Figure**



# **Attachment 1**

 National Grid's April 28, 2016 Letter to NYSDEC: Proposed Monitoring Well Decommissioning

NYSDEC's May 12, 2016 Approval Email



April 28, 2016

Mr. William Wu Environmental Engineer New York State Department of Environmental Conservation Division of Environmental Remediation Remedial Bureau C, 11th Floor 625 Broadway Albany, New York 12233

Re: Proposed Monitoring Well Decommissioning Former Dangman Park Manufactured Gas Plant Site Brooklyn, New York NYSDEC Site No. 224047 Index # A2-0552-0606

Dear Mr. Wu:

This letter presents the proposed monitoring well decommissioning that is planned at the Former Dangman Park Manufactured Gas Plant (MGP) Site (the Site) in Brooklyn, New York. As discussed during our April 8, 2016 meeting, decommissioning of the monitoring wells located on Block 7273, Lot 1R is necessary in light of the redevelopment plans by the property owner (450 Neptune Associates, LLC; Owner). Note that six monitoring wells (MW-6 through MW-9, MW-12, and MW-20) associated with the Site will remain at present because they are located on other properties surrounding Lot 1R.

The monitoring wells proposed to be decommissioned are listed below and the locations are shown on the attached Site Plan.

- Four (4) shallow monitoring wells (monitoring wells MW-1 through MW-4); and
- Ten (10) deeper monitoring wells (monitoring wells MW-5, MW-10, MW-11, and MW-13 through MW-19).

These monitoring wells were installed to total depths ranging from 16 to 103 feet below land surface (ft bls) using hollow-stem auger or sonic drilling techniques. The monitoring well construction details and well construction logs are provided in the New York State Department of Environmental Conservation (NYSDEC)-approved July 2014 Remedial Investigation (RI) Report; a copy of Table 2 (Monitoring Well Construction Details) from the RI Report is attached. Based on the planned redevelopment activities on Block 7273, Lot 1R presented by the Owner at our April 8, 2016 meeting with NYSDEC, these 14 monitoring wells will not be accessible due to the redevelopment activities. In addition, two (2) exterior soil vapor points (SV-1 and SV-2) also installed on Block 7273, Lot 1R during the RI are proposed to be decommissioned. These exterior soil vapor points were installed to a total depth 5 ft bls.

The monitoring well decommissioning will be performed in accordance with NYSDEC *CP-43: Groundwater Monitoring Well Decommissioning Policy.* Specifically, the grouting-in-place method is proposed, which will involve filling the casing with a cement/bentonite grout from the bottom of the well to 5 ft bls, overdrilling the well casing to 5 ft bls, and removing the upper five feet of the casing and associated well materials from the ground. The grout mixture will be approximately 7.8 gallons of potable water, one 94-pound bag of Type I Portland cement, and 3.9 pounds of powdered bentonite. The upper five feet of the boreholes will be backfilled to land surface with clean sand and the surface will be restored consistent with the surrounding surface material (e.g., asphalt). The two

Mr. William Wu April 28, 2016 Page 2



exterior soil vapor points on Lot 1R will be decommissioned consistent with applicable portions of these procedures (i.e., the casing and associated soil vapor point materials will be removed from the ground, the locations backfilled to land surface with clean sand, and the ground surface restored).

The monitoring well and soil vapor point decommissioning activities will be performed by an Arcadis drilling subcontractor and will be observed/documented by an on-site Arcadis representative. The field work will be conducted in accordance with Community Air Monitoring Plan (CAMP) included in the NYSDEC-approved Supplemental Remedial Investigation Work Plan (dated September 14, 2015). Consistent with the CAMP requirements, odor and dust control measures will be available and used when (if) necessary. The work will also be conducted in accordance with the current Arcadis project-specific Health and Safety Plan (HASP).

Waste generated during the decommissioning activities (e.g., upper 5 ft of casing and disposable equipment) will be containerized in steel 55-gallon drums. The containerized wastes will be temporarily stored on site at a location determined in conjunction with the Owner, pending appropriate off-site disposal by National Grid in accordance with applicable rules and regulations.

National Grid has tentatively planned to perform the monitoring well and soil vapor point decommissioning activities beginning at the end of May 2016, pending receipt of NYSDEC's approval and agreement from the Owner for access to the property. The decommissioning activities are anticipated to take approximately three weeks to complete, and may need to be completed in at least two separate mobilizations dependent upon the Owner's redevelopment plans and associated accessibility to the monitoring well and soil vapor point locations on Lot 1R. I will notify you at least 7 days in advance of the date for commencement of field activities. Upon completion of the monitoring well and soil vapor point decommissioning activities, a summary letter documenting the work completed will be provided to NYSDEC.

If you have any questions or require any additional information, please contact me at (608) 826-3663 or at <a href="mailto:katherine.vater@nationalgrid.com">katherine.vater@nationalgrid.com</a>.

Sincerely,

Katherine Vater Project Manager

Enclosures:

Figure 1

Proposed Monitoring Well Decommissioning

Attachment 1 Monitoring Well Construction Details

CC:

Albert DeMarco, NYSDOH Linda Sullivan, Esq., National Grid

Bonnie Barnett, Esq., Drinker Biddle and Reath LLP

M. Cathy Geraci, Arcadis

# **FIGURE**

**Proposed Monitoring Well Decommissioning** 

6. THE PROPERTY OWNER DRILLED AND CPT BORING LOCATIONS ARE APPROXIMATE BASED ON A LANGAN DRAWING DATED OCTOBER 15, 2015.

ARCADIS To Trackered and built assets

# **ATTACHMENT 1**

**Monitoring Well Construction Details** 



Table 2. Monitoring Well Construction Details, Former Dangman Park MGP Site, Brooklyn, New York.

Monitoring Well Designation	Well Diameter (inches)	Screened Interval (ft bls)	Total Depth (ft bls)
MW-1	2	6 - 16	16
MW-2	2	6 - 16	16
MW-3	2	6 - 16	16
MW-4	2	6 - 16	16
MW-5 <sup>1</sup>	2	30 - 40	42
MW-6	2	6 - 16	16
MW-7	2	6 - 16	16
MW-8	2	6 - 16	16
MW-9	2	5 - 15	15
MW-10 <sup>2</sup>	2	90 - 100	103
MW-11 <sup>2</sup>	2	30 - 40	43
MW-12 <sup>2</sup>	2	30 - 40	43
MW-13 <sup>2</sup>	2	75 - 85	88
MW-14 <sup>2</sup>	2	80 - 90	93
MW-15	2	6 - 16	16
MW-16 <sup>2</sup>	2	30 - 40	43
MW-17 <sup>2</sup>	2	85 - 95	98
MW-18 <sup>2</sup>	2	70 - 80	83
MW-19 <sup>2</sup>	2	65 - 75	78
MW-20 <sup>1</sup>	2	80 - 95	97

ft bls Feet below land surface.

#### Notes:

- 1 Well is constructed with a 2-foot sump at the bottom of the well.
- 2 Well is constructed with a 3-foot sump at the bottom of the well.

From: Wu, William (DEC) [william.wu@dec.ny.gov]

**Sent:** Thursday, May 12, 2016 3:47 PM

To: Vater, Katherine

Subject: EXT | RE: Dangman Park - Proposed Monitoring Well Decommissioning

Hello Katherine.

Re: K - Dangman Park MGP, site no. 224047

I've reviewed the well decommissioning plan that I've received on 04/29/2016. It is approved, with the following modifications:

Based upon CP-43:Groundwater Monitoring Well Decommissioning Policy, the grout shall be placed in the well from the bottom to the top by means of a "tremie."

and

Four (4) shallow monitoring wells (monitoring wells MW-1 through MW-4); and Ten(10) deeper monitoring wells (monitoring wells MW-5, MW-10, MW-11, and MW-13 through MW-19).

shall be changed to:

Five (5) shallow monitoring wells (monitoring wells MW-1 through MW-4, and MW-15); and Nine (9) deeper monitoring wells (monitoring wells MW-5, MW-10, MW-11, MW-13, MW-14, and MW-16 through MW-19).

All the best.

#### William Wu

Environmental Engineer 1. Division of Environmental Remediation

**New York State Department of Environmental Conservation** 625 Broadway Floor 11, Albany, NY 12233-7014 P: (518) 402-9662 | F: (518) 402-9679 | william.wu@dec.ny.gov

www.dec.ny.gov | f |

**From:** Vater, Katherine [mailto:Katherine.Vater@nationalgrid.com]

**Sent:** Friday, April 29, 2016 9:51 AM

To: Wu, William (DEC)

Cc: DeMarco, Albert J (HEALTH); Sullivan, Linda D.; bonnie.barnett@dbr.com; catherine.geraci@arcadis-

Subject: Dangman Park - Proposed Monitoring Well Decommissioning

William -

As you are aware at Dangman Park, the property owner plans to redevelop the entire footprint of Lot 1R. As such, we are proposing to abandon the monitoring wells that are located on that property.

The owner has already initiated activities on the site in preparation for the demolition, and we would like to move forward as soon as possible with the well abandonment so that we are off-site when they actually want to demolish the building structure.

Please let me know if you have any questions.

Thanks, Katherine

Katherine Vater, PE (WI)
Project Manager
Site Investigation and Remediation

national **grid** 

Fleet Services Building/Administrative Office 287 Maspeth Avenue Brooklyn, NY 11211 O: 608-826-3663

C: 608-826-3663

katherine.vater@nationalgrid.com

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Arcadis of New York, Inc.
One Lincoln Center, 110 West Fayette Street, Suite 300
Syracuse
New York 13202

Phone: 315 446 9120 Fax: 315 449 0017 www.arcadis.com