

Katherine Vater
Project Manager
Site Investigation and Remediation

January 27, 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, NY 12233

Re: Former Dangman Park Manufactured Gas Plant Site - Property Redevelopment
Supplemental Remedial Investigation
Locate and Identify Utilities in the Back Alley
Brooklyn, New York
NYSDEC Site No. 224047
Index # A2-0552-0606


Dear Mr. Wu:

This letter transmits the proposed scope and schedule to locate and identify utilities in the back alley of Block 7273, Lot 1 within the former Dangman Park Manufactured Gas Plant (MGP) Site (the Site), as part of the Supplemental Remedial Investigation (SRI).

We anticipate conducting this field work in February 2016, after receiving the New York State Department of Environmental Conservation's approval of this letter and agreement from the Owner to access to the property. I will notify you at least 7 days in advance of the scheduled date for commencement of the field activities.

If you have any questions or require any additional information, please contact me at (608) 826-3663 or at katherine.vater@nationalgrid.com.

Sincerely,



Katherine Vater
Project Manager

Enclosure – Proposed Scope and Schedule to Locate and Identify Utilities in the Back Alley (Arcadis, 2016)

cc: Albert DeMarco, NYSDOH
Linda Sullivan, Esq., National Grid
Bonnie Barnett, Esq., Drinker Biddle and Reath LLP
Megan Miller, P.E., Arcadis
M. Cathy Geraci, Arcadis

Ms. Katherine Vater
Project Manager
National Grid
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Subject:

Former Dangman Park Manufactured Gas Plant Site - Property Redevelopment
Supplemental Remedial Investigation
Locate and Identify Utilities in the Back Alley
Brooklyn, New York
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Index # A2-0552-0606

ENVIRONMENT

Date:

January 27, 2016

Contact:

Megan A. Miller, P.E.

Phone:

315.671.9422

Email:

Megan.Miller@arcadis.com

Our ref:

B0036704.0001

Dear Ms. Vater:

This letter presents the proposed scope and schedule to locate and identify utilities in the back alley of Block 7273, Lot 1 within the former Dangman Park Manufactured Gas Plant (MGP) Site (the Site), as part of the Supplemental Remedial Investigation (SRI). Arcadis is conducting the SRI on behalf of National Grid.

The back alley is behind the Shopping Center Building located within the aforementioned lot. The eastern portion of the back alley is the former location for a number of MGP structures (e.g., tar and oil tanks and gas holder) and the current location for several utilities (e.g., gas, water and sewer). Arcadis understands that utility details (e.g., depth, diameter, material of construction) and location/extent of the subsurface utilities in this area are currently not available from the Property Owner (450 Neptune Associates, LLC). This information is required for National Grid and Arcadis to evaluate potential remedial measures and prepare the remedial design.

PROPOSED UTILITY LOCATE SCOPE

In order to identify, locate, validate, and survey all utilities present in the eastern portion of the back alley, Industry Standard of Care - Subsurface Utility Engineering (SUE) services will be performed by Arcadis, with our subcontractor, Cardno, Inc. (Cardno). The SUE services will be performed in accordance with the current American Society of Civil Engineers (ASCE) Standard 38-02 "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data"; and will include (at minimum) the SUE Levels D, C and B described below.

- **Records Research/Records Collection (Quality Level D):** publicly available records for underground utilities will be researched and collected by Cardno; any utility records/information provided by the Property Owner will also be reviewed.
- **Field Survey (Quality Level C):** Cardno will field survey visible above-ground utility features that are surface appurtenances of existing utilities in the back alley, and correlate findings with the existing records/information (to be collected as described above).
- **Utility Designating/Survey (Quality Level B):** state-of-the-art utility designating equipment will be used in the field by Cardno to evaluate the existence and approximate horizontal location of subsurface utilities within the back alley. The equipment technologies can include electro-magnetic induction, conductive and magnetic equipment to designate conductive utilities (utility capable of carrying an electromagnetic signal), and ground penetrating radar (GPR) to designate non-conductive utilities. Cardno will provide paint marks/flagging at locations of designated underground utilities or anomalies, and will survey these locations.

Depending on the collective results from the SUE services described above, Quality Level A services may be required to obtain the utility information and accuracy required for evaluating potential remedial measures and preparing the remedial design (i.e., precise horizontal and vertical location of subsurface utilities, material of construction, diameter, condition). This information would be obtained by daylighting the utilities via vacuum excavation/test holes at specific points, and subsequently measuring and observing the subsurface utilities. The general scope of work for Quality Level A services is provided herein; specific details (e.g., proposed number and locations of test holes) will be provided in a follow-up submittal to the New York State Department of Environmental Conservation (NYSDEC) and Property Owner that will include a summary of the SUE information obtained to date and an updated Site CAD drawing. If Quality Level A services are required, the field work would commence after receiving concurrence from the Property Owner regarding the test holes and approval from NYSDEC to proceed.

The utility daylighting would be performed by Arcadis subcontractor ZEBRA Technical Services, LLC (a wholly-owned subsidiary of Cascade Drilling, L.P.; Zebra), in coordination with Cardno and the Property Owner. Cardno would be onsite during the daylighting activities to document, collect data and survey the test holes. This work would be conducted in accordance with the NYSDEC-approved SRI Work Plan (dated September 14, 2015), which includes a Community Air Monitoring Plan (CAMP). Consistent with the CAMP requirements, odor and dust control measures would be available and used when (if)

necessary. The work would also be conducted in accordance with the Arcadis project-specific Health and Safety Plan (HASP).

After completing a test hole, removed materials would be placed back into the test hole with visually clean soils used to cover impacted materials (if present). Additionally, the ground surface cover (e.g., asphalt) would be repaired as appropriate. The test hole locations will be marked in the field with spray paint for subsequent surveying.

Investigation-derived wastes (IDW) generated during these field activities will be temporarily stored onsite in 55-gallon drum(s) at a location to be determined with the Property Owner. The IDW will be transported offsite for treatment/disposal by National Grid's contractor, Environmental Strategies & Applications, Inc. (ESA).

After completing the above SUE services, a report will be prepared by Cardno summarizing the information obtained, including descriptions of results and methodologies used. Surveyed locations and any additional pertinent information will be shown on a Site plan (CAD drawing).

PROPOSED UTILITY LOCATE SCHEDULE

We anticipate conducting the field work associated with Quality Levels D, C and B in early February 2016, after receiving NYSDEC's approval of this letter and agreement from the Owner to access to the property. This field work is expected to take two to three days.

If Quality Level A services are required, the general scope of work for these services described above will be supplemented with specific details regarding the number and locations for the test holes in a follow-up submittal to the NYSDEC and Property Owner. That submittal, which will include a summary of the SUE information obtained to date and an updated Site CAD drawing, will be provided approximately one week after completing Quality Levels D, C, and B. The field work for Quality Level A services will commence after receiving concurrence from the Property Owner regarding the test holes and approval from NYSDEC to proceed, and is expected take two days.

A complete summary of the SUE results, including updated Site figure, is planned to be presented in the SRI Report. That report is anticipated to be submitted to NYSDEC in March 2016, approximately 6 to 8 weeks after completing the SRI hydrogeologic field activities.

Please do not hesitate to contact me or Cathy Geraci if you have any questions or require additional information.

Ms. Katherine Vater
January 27, 2016

Sincerely,

Arcadis of New York, Inc.

A handwritten signature in black ink that reads "Megan Miller". The signature is written in a cursive, flowing style.

Megan A. Miller, P.E.
Vice President

Copies:

Steven Feldman, Arcadis
Christopher Keen, Arcadis
Cathy Geraci, Arcadis
Bonnie Barnett, Esq., Drinker, Biddle and Reath
Leigh Bausinger, Esq, Drinker, Biddle and Reath
Linda Sullivan, Esq., National Grid

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EXT || RE: Dangman Park - SRI - Utility Location

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

To: [Vater, Katherine](#)

Thursday, January 28, 2016 3:12 PM

Hello Katherine,

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

I've reviewed the site utilities locate scope document and I have no comments.

All the best,

William Wu

Environmental Engineer 1, Division of Environmental Remediation

New York State Department of Environmental Conservation

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