

Ms. Sarah Saucier
NYSDEC
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, New York 12233-7014

Subject:
Sub-Slab Soil Vapor Sampling
RG&E/112 Riverside Drive Former MGP Site
Geneseo, New York
NYSDEC Site #V00730

Dear Ms. Saucier:

On behalf of RG&E, Arcadis of New York, Inc. (Arcadis) is pleased to submit this scope of work to collect sub-slab soil vapor samples within the FTT Manufacturing facility located at RG&E's Riverside Drive former manufactured gas plant (MGP) site. The FTT Manufacturing facility is located at 112 Riverside Drive, Geneseo, New York, and is currently vacant.

This letter provides descriptions of the soil vapor sampling objectives, sampling locations, analytical requirements and reporting requirements. Soil vapor sampling was conducted at six locations around the perimeter of the FTT Manufacturing building in July 2016 during the site characterization. The New York State Department of Environment Conservation- (NYSDEC-) approved *Site Characterization Work Plan* (Arcadis 2016) (SCWP) provides sample collection methods, descriptions of the laboratory analyses, quality control/quality assurance (QA/QC) requirements, and field protocols. The SCWP also includes a site- and task-specific Health and Safety Plan (HASP), a Field Sampling Plan (FSP), and a Quality Assurance Project Plan (QAPP). The sub-slab soil vapor sampling described in this letter will be performed in conformance with each of these documents, as appropriate. Due to the limited scope of the indoor sub-slab soil vapor sampling, tasks associated with community air monitoring and citizen participation are not proposed.

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Environment

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April 26, 2017

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Our ref:
66ENERGE.EN00

1. SUB-SLAB SOIL VAPOR SAMPLING

1.1 Project Planning

Soil vapor sampling points will be located within the FTT Manufacturing facility footprint. A geophysical survey (GPR/EM) and One Call (811) were completed during the site characterization field program to locate public utilities; however, consistent with RG&E's and Arcadis' utility clearance protocols, One Call (811) will again be called to mark utilities outside the building adjacent to the proposed work area to confirm locations.

In addition, Arcadis will attend a site kick-off meeting with RG&E and a knowledgeable representative from FTT Manufacturing to select sampling locations where the FTT representative confirms that no private utilities exist beneath the floor slab. It is anticipated that this meeting will occur the morning that the sub-slab soil vapor sampling will be conducted.

1.2 Soil Gas Sampling

Sub-slab soil vapor samples will be collected from three points located above the suspected area of the former gas holder (SV-7), between the suspected area of the former holder and the former purifier house area (SV-8), and adjacent to the east side of the holder (SV-9). Soil vapor sampling locations are shown on **Figure 1**. Actual location may vary based on the configuration of the building and/or obstructions/private utilities encountered during the site kick-off meeting. The methodology for installing the temporary soil vapor sampling points is described in the SCWP (Section 2.8.1). A 2 to 3-inch diameter hole will be cored into the concrete floor to access the subsurface at each location. A 12-inch long, 1½-inch diameter, expendable stainless steel point will be installed 2 to 3-feet below the bottom of the floor slab. If sufficient unsaturated overburden does not exist, the NYSDEC will be contacted to discuss the relevance of collecting soil vapor samples.

Soil vapor samples will be collected using batch-certified clean SUMMA canisters from the three locations. Each SUMMA canister will be equipped with a flow regulator pre-set by the laboratory to provide uniform sample collection over a 6-hour sampling period. A sampling and analysis summary is provided in **Table 1**.

Two Arcadis field personnel will require one day to install the three stainless steel sampling points and complete the sampling. Sampling will be compliant with New York State Department of Health guidance. Site restoration will be performed on the same day. The concrete floor will be replaced in kind. SUMMA canisters will be shipped in one batch via overnight courier to the contract laboratory for analysis of the project-specific compound list (TO-15 plus indicator compounds) described in the SCWP. Laboratory analyses will be completed within 10 business days for preliminary results; 15 business days for delivery of full data packages).

Following completion of the soil vapor sampling activities the locations of the sampling points will be triangulated from permanent structures (e.g., walls, dock door, etc.) using a tape measure.

1.3 Waste Management

Based on the anticipated nature (non-impacted concrete, gravel sub-slab material, etc.) and limited volume of investigation derived waste to be generated, it is anticipated that materials can be disposed as general construction refuse. Arcadis will bring one Department of Transportation- (DOT-) approved 55-gallon drum in the unlikely event MGP impacted material is encountered.

2. REPORTING

2.1 Data Review/Data Usability Summary Report (DUSR) Preparation

The analytical data packages and associated QA/QC information will be reviewed to determine if they meet the project-specific criteria for data quality and use as identified in the approved SCWP QAPP. A DUSR summarizing the review results will be prepared as described in the SCWP.

2.2 Soil Vapor Sampling Report

Arcadis will prepare a summary letter report (2 to 3 pages). The letter summary will present:

- A brief (i.e., 1 to 2 paragraph) summary of the field activities completed
- Tables summarizing the data collected
- One Site Map depicting sampling locations

The draft letter report will be submitted to the RG&E within 5 business days after receipt and validation of the soil vapor data.

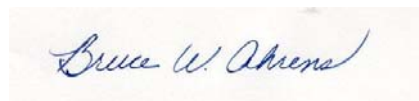
3. SCHEDULE

Arcadis will schedule the soil vapor sampling to be conducted between May 8 through May 11, 2017 pending approval from NYSDEC by May 3, 2017.

Please feel free to contact either Chris Keipper at 585.771.4560 or me at 585.662.4034 with any questions you may have.

Sincerely,

Arcadis of New York, Inc.



Bruce W. Ahrens

Associate Vice President

Ms. Sarah Saucier
April 26, 2017

Copies:

Chris Keipper, RG&E
Keith White, Arcadis of New York, Inc.
Nicholas (Klaus) Beyrle, Arcadis of New York, Inc.

Enclosures:

Tables

- 1 Sampling and Analysis Summary

Figures

- 1 Soil Vapor Sampling Locations

Table 1
Sampling and Analysis Summary

Sample	Media	Laboratory Analysis	Quantity of Samples	Field QA/QC Samples			Laboratory QA/QC Samples		Total
				Trip Blanks	Field Blind Dups ²	Equip Rinse Blanks ¹	MS/MSD	MSB/LCS	
SV-7, SV-8, SV-9	Sub-Slab Soil Vapor	TO-15 ³	3	0	1	0	0 / 0	0	4

Notes:

1. Equipment rinse blanks will be collected at a frequency of one per 20 if re-use equipment; not required if using disposable equipment (table assumes disposable equipment will be used)
2. Blind duplicate will be collected at a frequency of one per 20 and sent to the laboratory for analysis
3. TO-15 Target Analyte List plus project-specific analyte list included in Site Characterization Work Plan (Arcadis, 2016)

