

Via regular mail & e-mail
sfpriore@gw.dec.state.ny.us

November 19, 2018

Mr. Salvatore F. Priore, P.E.
Project Manager
NYSDEC
Division of Environmental Remediation
Remedial Bureau C
625 Broadway, 11th Floor
Albany, NY 12233-7014

Re: Former Swivelier Site
33 Route 304, Village of Nanuet, Rockland County, New York
Site # V00520-3
EWMA Case No. 205548

Dear Mr. Priore:

EWMA is pleased to submit the following groundwater and offsite soil gas sampling plan regarding the above referenced property. This plan has been designed in response to the September 5, 2018 NYSDEC letter outlying a statewide initiative to identify Per- and Polyfluoroalkyl Substances (PFAs) and 1,4-Dioxane to evaluate possible health risks in drinking water.

A representative from EWMA will arrive on site to sample wells MW-3N (up gradient), MW-11D (source area), and MW-8DI (down gradient). Samples will be collected from these wells via low-flow purge methods and analyzed for PFAs (Modified EPA Method 537) and 1,4-Dioxane (EPA Method 8270 SIM), in accordance with NYSDEC groundwater sampling guidelines and protocols.

In addition to the contaminants of emerging concern, EWMA is planning to collect an offsite soil gas sample to address the potential vapor intrusion concern the NYSDEC has raised regarding the MW-9 cluster located to the southwest of the Site. The soil gas sample will be collected from approximately two feet below grade and subjected to analysis by TO-15 to evaluate if contaminants are migrating to the depth of the building foundation.

An AMS Manual Soil Gas Vapor Probe (SGVP), which is a hollow, all-stainless steel probe with a penetrable tip, will be hammered into the ground to a minimum depth of three (3) feet bgs within the vadose zone, and at least one (1) foot above the capillary fringe. A barbed adapter will be attached to a Teflon sampling tube through its threaded end and the other end of the barbed adapter, attached to the Teflon tubing will be inserted to the bottom of the AMS SGVP,

and rotated in order to thread the barbed adapter into the bottom of the AMS SGVP. An extra two (2) feet of extension Teflon tubing will be cut above the probe in order to connect to an evacuated Six (6)-Liter Summa® Canister used for air sampling. The AMS SGVP probe will be pulled upward, thereby exposing a screen within the probe tip from which the soil-gas sample will pass through. Prior to collecting the soil gas sample, a leak test will be performed on the soil gas probe and all fittings on the sample train.

After confirmation that there are no leaks, the valve on the Summa® Canister will be opened in order to collect a soil-gas sample. The soil gas sample will be collected over a period of five minutes. The air samples collected in the Summa® Canisters will be analyzed for VOCs using USEPA Method TO-15 through a NYSDEC certified analytical laboratory. The results of the laboratory analyses will be compared to the NYSDEC guidance criteria in order to evaluate the potential for vapor intrusion.

Upon completion of the sampling, the results and analysis will be presented in a summary report.

Should you have any questions or comments, please do not hesitate to contact Kevin Seise at (973) 560-1400, Ext. 177 or at kevin.seise@ewma.com or Al Moffit at 973-560-1400 Ext 144 or at al.moffit@ewma.com.

Sincerely,
EWMA

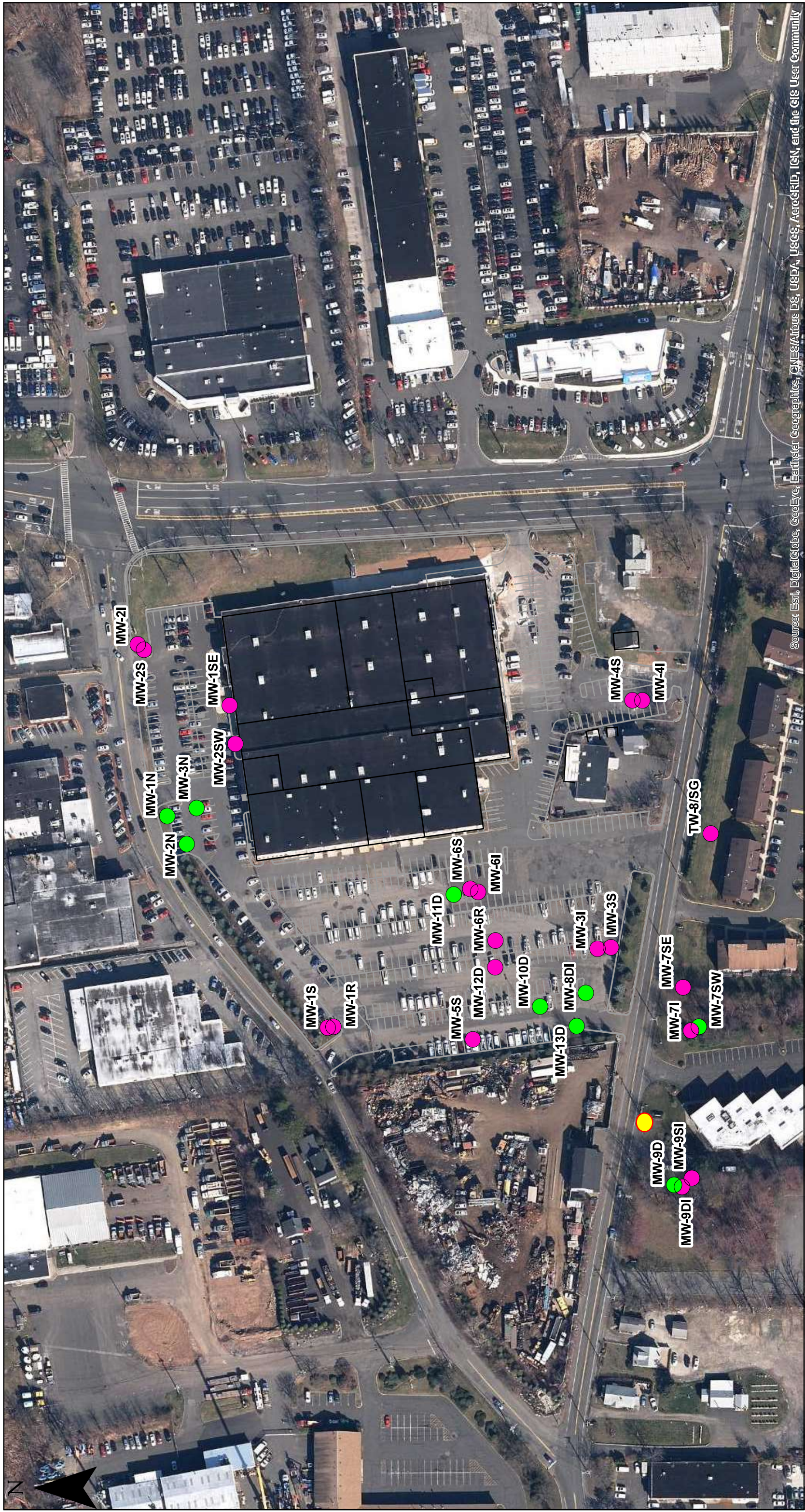


Kevin Seise
Senior Project Manager

cc: Mr. Patrick MaGee, MBC Contractors Inc.

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

November 2018 Sampling Event

- Gauge Only
- Sample
- Soil Gas Sample Location



100 MISTY LANE
P.O. BOX 5430
PARSIPPANY, NEW JERSEY

DATE:
11/19/18

PROJECT #
205548

DRAWN BY: KS
CHECKED BY: KS

Document Path: G:\Job Data\205000205548\Drawings\2018\November 2018 GW Sampling Plan.mxd

NOVEMBER 2018 SAMPLING PLAN

FORMER SWIVELIER COMPANY SITE

ROUTE 304

NANUET, NEW YORK

Figure#

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