June 11, 2026

Veronica Kreutzer
NYSDEC
Assistant Engineer (Environmental)
Division of Environmental Remediation
700 Delaware Avenue
Buffalo, NY 14209

**Re: Geophysical Survey Plan – 375 Michigan Avenue (NYSDEC BCP Site No. C915417), Buffalo, Erie County, New York**

Veronica,

This Geophysical Survey Plan has been prepared for the 375 Michigan Avenue New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site (No. C915417) located in the City of Buffalo, Erie County, New York (see **Figure 1**).

Historic maps indicate that an auto repair shop and gas station were located where the current vacant mini mart sits on the northwest corner of the Site from the 1930s to the 1950s. Whether the underground storage tanks (USTs) associated with the historic gas station have been removed is not currently known. To address this data gap, a geophysical survey will be performed by Maddan Geophysics LLC in the area of these historic operations and surrounding area. See **Figure 2** for the proposed survey location.

Reference grids will be installed to facilitate data acquisition along parallel survey lines spaced 3 feet apart. The grids will be marked with spray paint and pin flags with select coordinates labeled to aid in the reoccupation of stations if necessary.

A Geonics EM61 will be used to map the distribution of buried metals at the Site. The EM61 unit is a high sensitivity, high resolution time domain electromagnetic (TDEM) metal detector that can detect both ferrous and nonferrous metallic objects. It has an approximate investigation depth of 10 feet. The processing console is contained in a backpack worn by the operator which is interfaced to a digital data logger. The transmitter and two receiver coils are located on a two-wheeled cart that is pulled by the operator.

The device's transmitter coil generates a pulsed primary EM field at a rate of 150 pulses per second, inducing eddy currents into the subsurface. The decay rates of these eddy currents are measured by two, 3.28 foot by 1.64 foot (1 meter by ½ meter) rectangular receiver coils. By taking the measurements at a relatively long time frame after termination of the primary pulse, the response is practically independent of the survey area's terrain conductivity. Specifically, the decay rates of the eddy currents are much longer for metals than for normal soils allowing the discrimination of the two.

Data will then be collected from the EM61's two receiver coils. One of the receiver coils is located coincident to the transmitter coil. The other receiver coil is located 1.31 feet (0.4 meters) above the transmitter coil. Data from the top receiver coil is stored on Channel 1 of a digital data logger. Data from the bottom receiver coil is stored on Channel 2 of the data logger. Channel 1 and Channel 2 data are simultaneously recorded at each station location. The instrument responses are recorded in units of milliVolts (mV). Data will be recorded digitally by a data logger at a rate of approximately 2 measurements per foot along the survey lines which will be spaced 3 feet apart.

After completion of the survey, a report and corresponding figure will be generated within approximately one week which outlines all identified anomalies and their likely origin. Should an anomaly indicative of a tank be identified, test trenching in the area of the anomaly will be performed during the remedial investigation (RI). Should a tank be found, test trenches will be excavated to carefully remove surface soils to uncover the tank(s) and determine the size, capacity, and condition.

Soil samples may be collected from test trenches depending on what is uncovered and soil conditions. The number of samples collected, if any, will be determined in the field. According to New York Codes, Rules and Regulations (NYCRR) Part 375-1.8(b), any unregistered petroleum tank, which is owned or controlled by the remedial party requires registration in addition to removal. A petroleum Bulk Storage (PBS) registration form will be submitted as soon as possible following the discovery of the tank. Unless the tank is found to be compromised, the removal will occur during the remedial action phase of the project. Removal will be completed in accordance with PBS regulations, including excavation and sampling.

It is important to note that the potential test trenching would not impact the proposed RI sampling locations and would be performed in addition to the already proposed work.

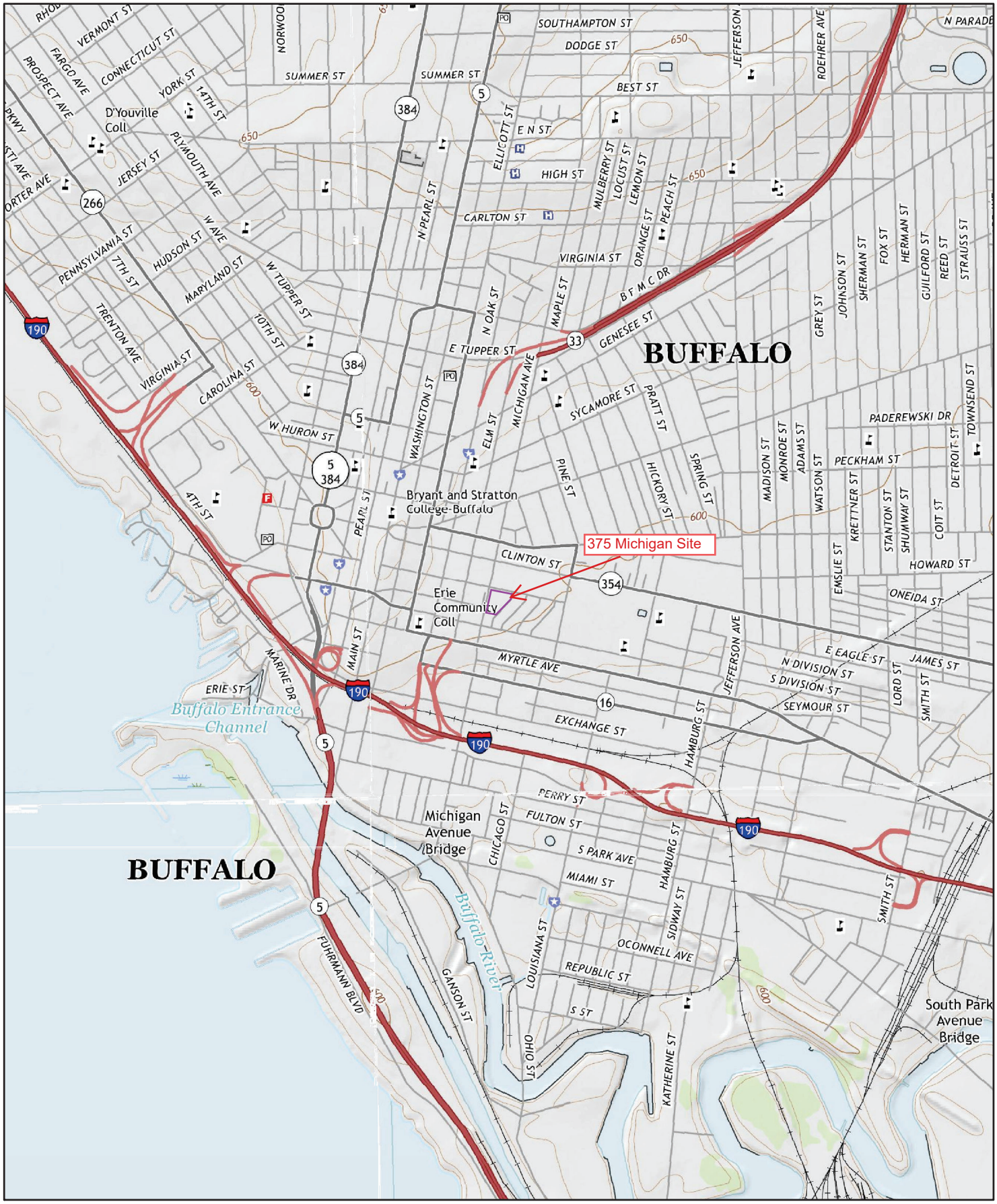
Mobilization is anticipated to occur on June 17, 2026, and span one day.

Best,

Alexis P-C

Alexis Palumbo-Compton, E.I.T.
Environmental Engineer
BE3

# FIGURE 1 - Site Location Map




**2016**

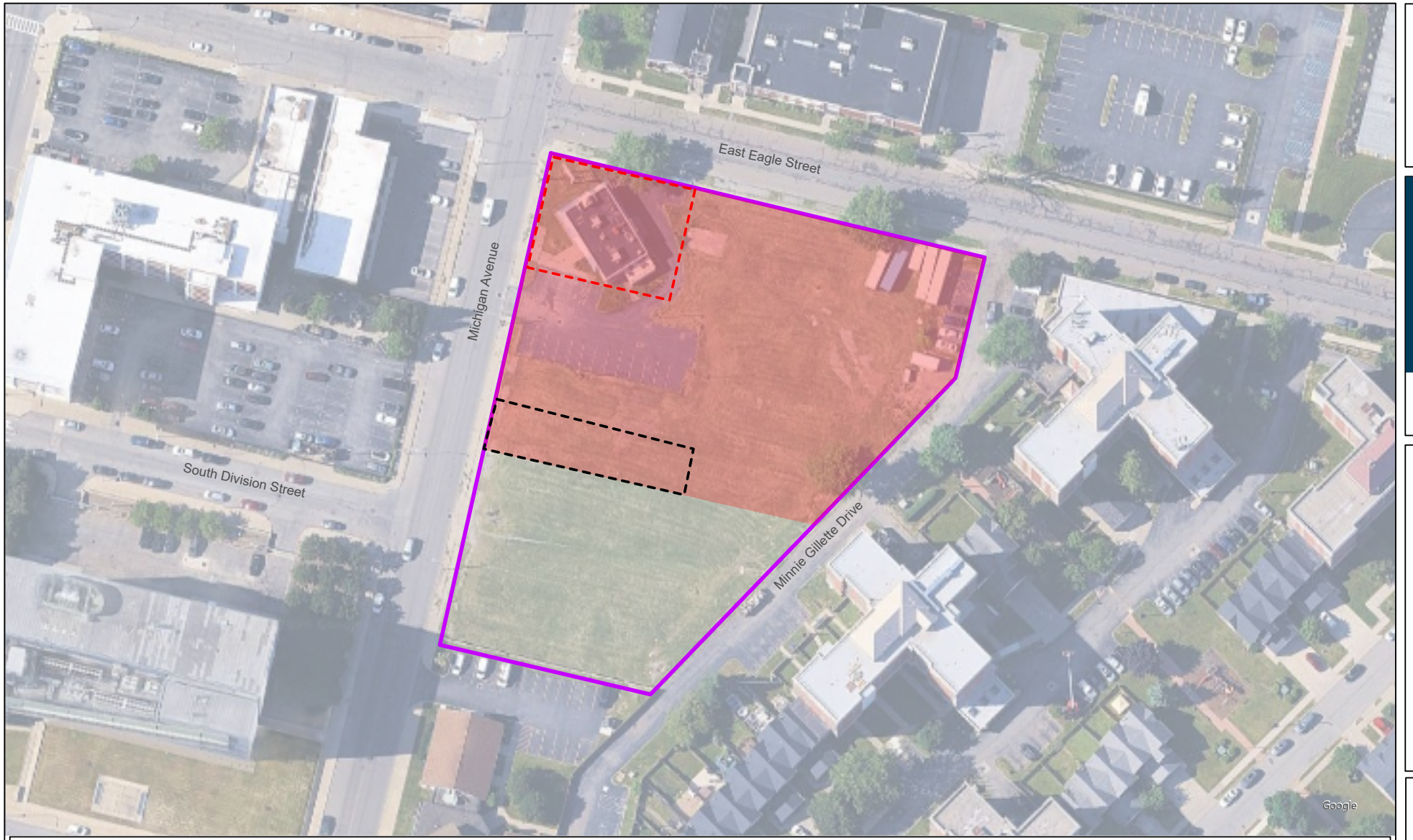
0 0.2 0.4 0.8 Miles

Order No. 20200513022

**Quadrangle(s): Buffalo NE,NY**

Source: USGS 7.5 Minute Topographic Map

ENVIRONMENTAL RISK INFORMATION SERVICES




LEGEND

- BCP Site Boundary
- Location of Historic Auto Repair Shop and Gas Station
- Location of Historic Dry Cleaner
- Geophysical Survey Location

NOTES

1. Basemap adopted from Google Maps

BE3
BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

960 Busti Avenue
Buffalo, NY 14213
716.249.6880
jbrydges@be3corp.com

CLIENT - BEACON COMMUNITIES

**Figure 2**
**Geophysical Survey Plan**

375 Michigan Avenue
Buffalo, NY 14203

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DATE ISSUED:
June 11, 2026

Scale: 1:1,146