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To: [Starr, Justin C \(DEC\)](#)
Subject: Irvington Rugs and Cleaners PFAS soil sampling Field Activities Plan
Date: Thursday, September 15, 2022 12:25:34 PM
Attachments: [image001.png](#)
[image002.png](#)
[S6 PFAS Protocols.pdf](#)
[S13 Soil Sampling.pdf](#)

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Justin,

Please see the updated email Field Sampling Plan below for the PFAS soil sampling at the Irvington Rugs and Cleaners Site.

Please review and let me know if you approve or have any questions.

Thanks,

Chuck

Per-and polyfluoroalkyl substances (PFAS) have been detected in groundwater at and downgradient of the Irvington Rugs and Cleaners Site, in Irvington, NY (New York State Department of Environmental Conservation [NYSDEC] Site Number 360175) at concentrations above groundwater standards. Although the source of the PFAS are not known, the highest concentrations were detected in groundwater below the site. As a result, soil sampling is being conducted to identify the potential for PFAS to be present in soil at and near the site at concentrations above New York State guidance values.

The field activities plan (FAP)/scope of work for soil sampling to be conducted at Irvington Rugs and Cleaners is described in the paragraphs below. Additional information, including the Site Specific Health and Safety Plan is included in the original Site FAP (MACTEC, 2021).

Soil samples will be collected for analysis of PFAS from four locations, SB-1 to SB-4, located on and adjacent to the Site (See Figure below). Samples will be collected following the attached Standard Operating Procedure (SOP) S6 - PFAS protocols and SOP S13 - Soil Sampling from the MACTEC Program Quality Assurance Plan and Program Field Activities Plan (MACTEC, 2020). Soil samples collected from each boring will be described on the soil boring field data record included in SOP S6.

At each location, soil will be collected using a combination of stainless-steel spoon, hand auger, and/or slide hammer. Soil samples will be collected at each boring from the following depths:

- 1) 0 to 0.17 feet (0 to 2 inches) (with "0" starting below the duff/grass roots or asphalt)
- 2) 0.17 to 1.0 feet (2 to 12 inches)(this sample will start below the first sample and go to 1.0 feet below grade)
- 3) 1.0 to 2.0 feet (12 to 24 inches below grade)

Soil from 0 to 2 inches and 2 to 6 inches can be collected directly into soil sample containers. Soil from the second two intervals should be placed in a stainless-steel bowl and homogenized prior to placing into sample containers.

In addition to the above depths, one additional soil sample will be collected at SB-3 at a depth of 5 to 6 feet below ground surface (if hand auger or slide hammer sampler cannot reach a depth of 6 feet a shallower sample from 4 to 5 feet will be collected). The soil will also be homogenized in a stainless-steel bowl prior to placing into the sample container.

At one location, the homogenized soil will be split into separate containers for quality control samples, including duplicate, laboratory matrix spike and matrix spike duplicate.

Sampling tools will be decontaminated with deionized water and Alconox and dried after each sample is collected. Decontamination fluids will be released to the ground surface in the vicinity of the soil borings. A sample of the unused rinse water will also be submitted to the laboratory for analysis of PFAS.

Sample bottles will be labeled with the sample ID, date, and type of analysis. Sample IDs will consist of the NYSDEC Site Number, following by the boring ID, followed by the top sample depth in feet. Example 360175-SB001-0.17. Quality control samples will have the following at the end of the sample ID: "D" for duplicate; "MS" for Matrix Spike, and "MD" for matrix spike duplicate.

Samples will be transported to the Pace Laboratory under chain of custody for analysis of PFAS using methodologies based on United States Environmental Protection Agency Method 537.1 with the analyte list as specified in the NYSDEC June 2021 "Sampling, Analysis, and Assessment of PFAS" guidance. The "MS" and "MD" samples will also be noted in the "comment" section of the laboratory chain of custody. Laboratory deliverables will include Category B deliverables.

Equipment to include:

Chisel

Hammer

Shovel

Hand auger

Slide hammer

Acetate liners

Stainless steel spoons (2)

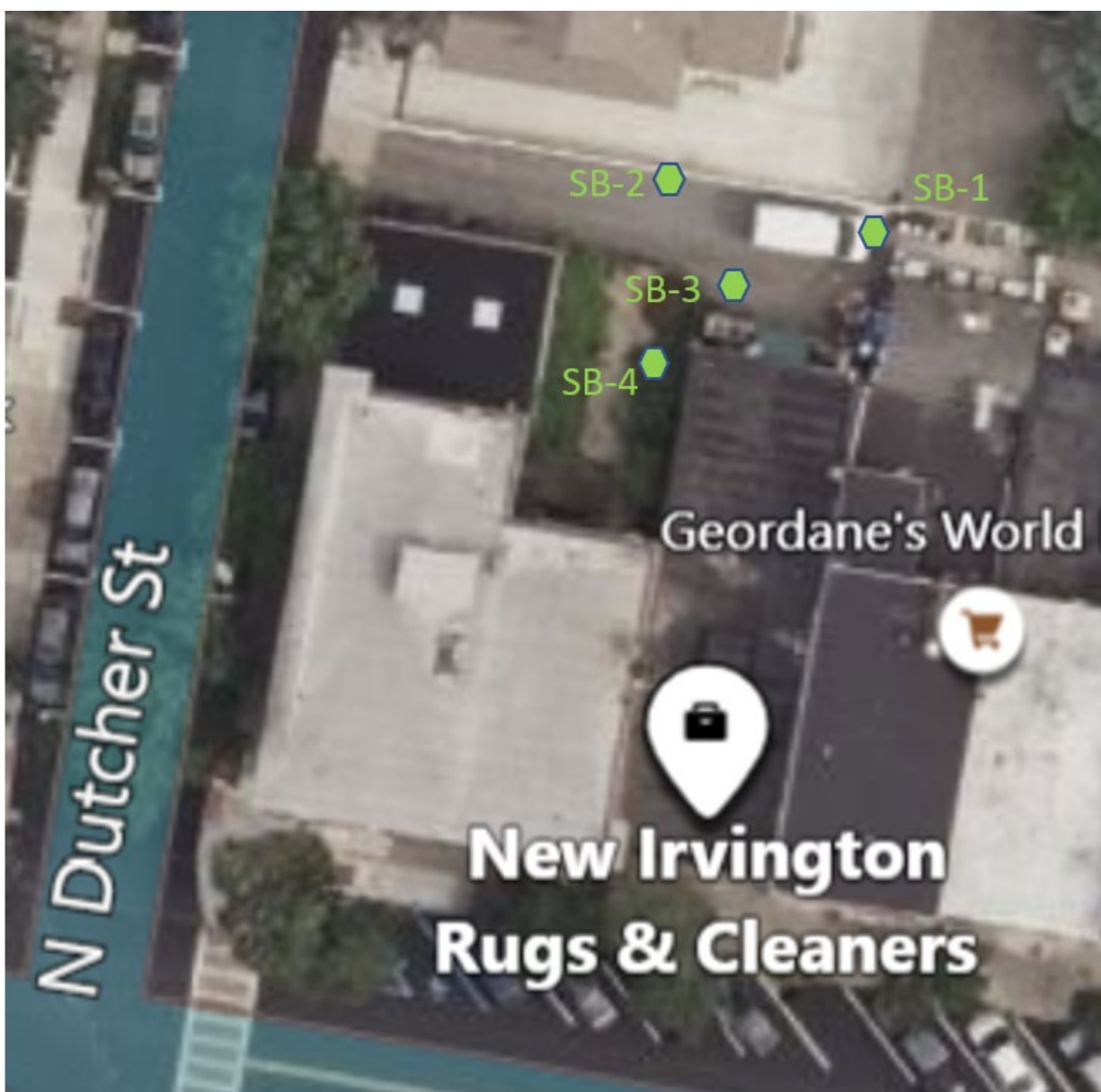
Stainless steel bowls (2)

Alconox (small container)

Nitrile gloves (size)

Safety glasses

Purchase distilled water (2 gallons).



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