

## PROJECT OBJECTIVE

To conduct a Removal Site Evaluation to further investigate dioxin/furans identified at the Solo Street Greenspace, near the Julia C. Hester House, during an investigation into potential off-site contamination associated with the former Houston Wood Preserving Works, now owned by Union Pacific Railroad.

## PROJECT BASIS

Initial soil-sampling results from two grids at 2020 Solo Street, Houston, Texas, showed levels of dioxin/furans above EPA screening levels. Based on these results, EPA Region 6 Superfund and Emergency Management Division, Response and Removal Branch (RRB) will conduct a Removal Site Evaluation (RSE) at the site. During the RSE, EPA will gather more information to investigate the nature and extent of the contamination, as outlined in the draft Quality Assurance Sampling Plan (QASP). The information from the RSE will help determine whether dioxin/furan contaminated soil from the Site presents a potential threat to public health or the welfare of the United States or the environment in accordance with 40 Code of Federal Regulations (CFR) 300.415. The final QASP will be posted on the public webpage for the Site after a technical and procedural review.

## SITE LOCATION AND DESCRIPTION

The Solo Street Greenspace Site is located at 2020 Solo Street, Houston, Harris County, Texas. It is commonly known as the Julia C. Hester House Community Center. The approximate geographic coordinates of the facility are Latitude 29.779017° North and Longitude 95.320011° West. The property is owned by Julia Hester House Inc. The study area is composed of publicly accessible greenspace east of the Julia Hester House Community Center, north of the Head Start School, west of Boyce-Dorian Park, and south of the Julia Hester House Recreation Center Building.

## OVERVIEW OF SAMPLING ACTIVITIES

EPA developed a sampling strategy to collect data to complete the RSE. Soil samples will be collected from 16 grids using a 50-by-50-foot grid system, which was plotted using Visual Sampling Plan (VSP) program (Pacific Northwest National Laboratory, Version 7.0). VSP is a standard EPA geospatial assessment tool that generates preliminary sampling grids with a 95% confidence interval for the probability of accurately representing the level of contamination across the defined boundary of the site.

Approximately 53 soil samples (including 5 QA/Quality Control [QC] duplicate samples) will be collected to a depth not exceeding 12-inches below ground surface (bgs). Five-point composite samples will be collected from the following depth intervals: 0 to 2-inches, 2 to 6 inches and 6 to 12 inches. Soil samples will be composited per depth interval from the five aliquots within each grid. For example, the 2-to-6-inch depth sample taken from each of the five sample aliquots will be placed in a 1-gallon bag, thoroughly homogenized, and placed in the appropriate sample containers.

## ANALYTICAL METHODS

Soil samples collected as part of this RSE will be submitted to a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory. The following methods of analysis will be conducted:

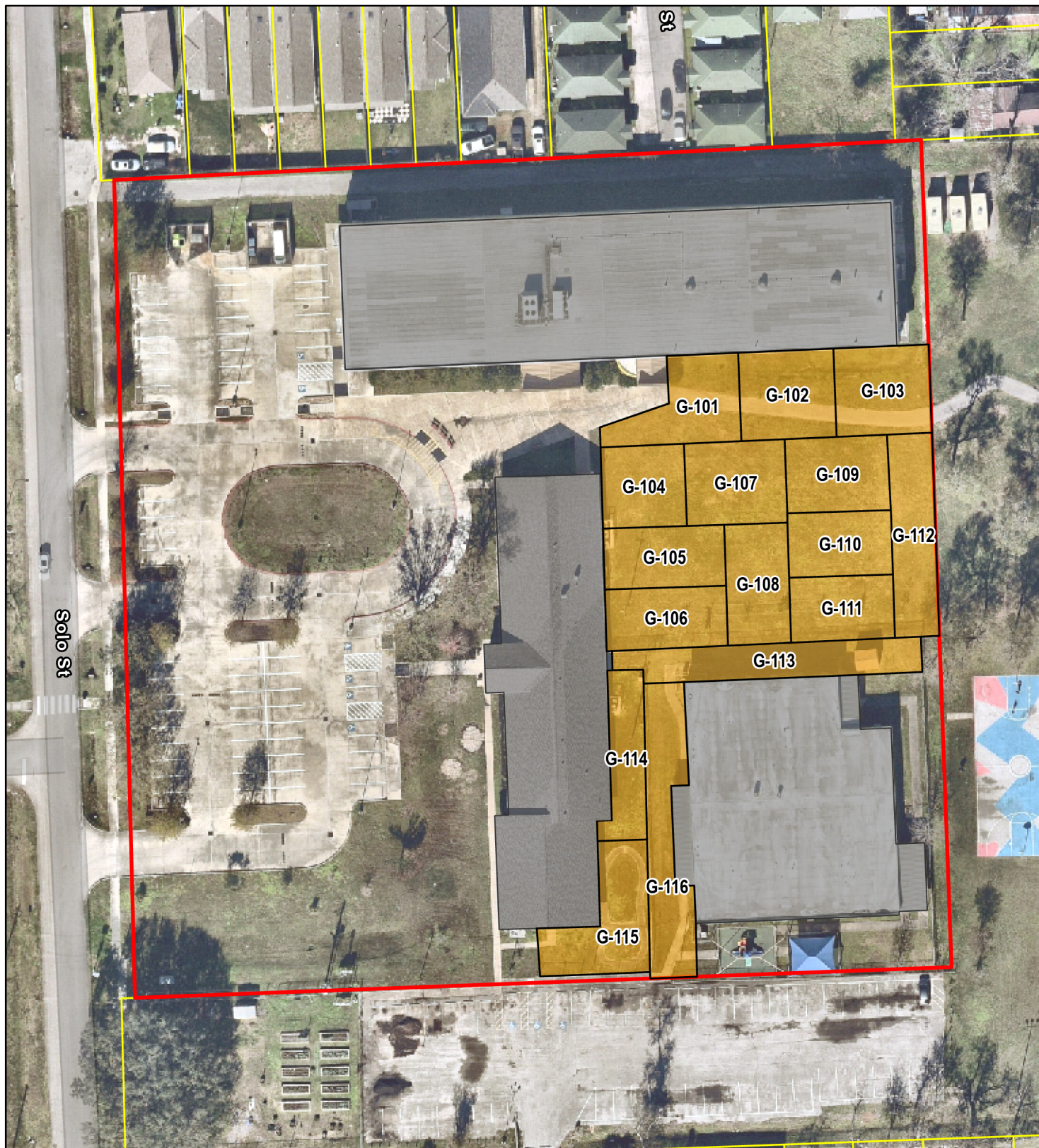
- Dioxin/Furans – EPA Method 1613B

Following analysis, the laboratory will provide preliminary data results by email in a PDF file. The final Electronic Data Deliverable (EDD) will include a full CLP-like data package (Level IV with QC and raw data) in a PDF file and in Microsoft® Excel® format.

## SAMPLE PRESERVATION, CONTAINERS, AND HOLDING TIMES

Sample preservation, containers, and holding times used during this RSE will be consistent with analytical methods and laboratory volume requirements, as provided in the table below:

Analyte	Analytical Method	Matrix	Container	Preservation	Minimum Volume or Weight	Maximum Holding Time
Dioxin/Furans	1613B	Soil/Composite	8-ounce glass jar	Cool to <6 °C	30 grams	365 Days to Extraction 40 Days to Analysis



## LEGEND

- Building Footprint
- Parcel Boundary
- Property Boundary
- Proposed Sample Grid (n = 16)



0 75 150

SCALE IN FEET



US EPA REGION 6

## FIGURE 3-1

PROPOSED SAMPLE LOCATION MAP  
SOLO STREET GREENSPACE  
2020 SOLO STREET  
HOUSTON, HARRIS COUNTY, TEXAS

DATE  
FEBRUARY 2025

PROJECT NO  
26500.012.001.0124

SCALE  
AS SHOWN

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