

**ABBREVIATIONS:**

bgs – below ground surface  
 CCPW – Chromate Chemical Production Waste  
 Cr – chromium  
 Cr<sup>3+</sup> – trivalent chromium  
 Cr<sup>6+</sup> – hexavalent chromium  
 CrSCC – Chromium Soil Cleanup Criteria  
 FD – field duplicate  
 ft – feet  
 mg/kg – milligrams per kilogram  
 NAVD88 – North American Vertical Datum of 1988  
 NJDEP – New Jersey Department of Environmental Protection  
 SCC – Soil Cleanup Criteria  
 SRS – Soil Remediation Standard

**QUALIFIERS:**

J – The result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.  
 RA – The result was rejected due to deficiencies but is considered usable for decision making purposes.

**GENERAL NOTES:**

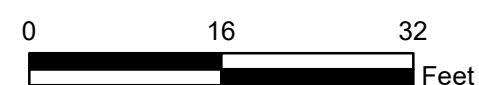
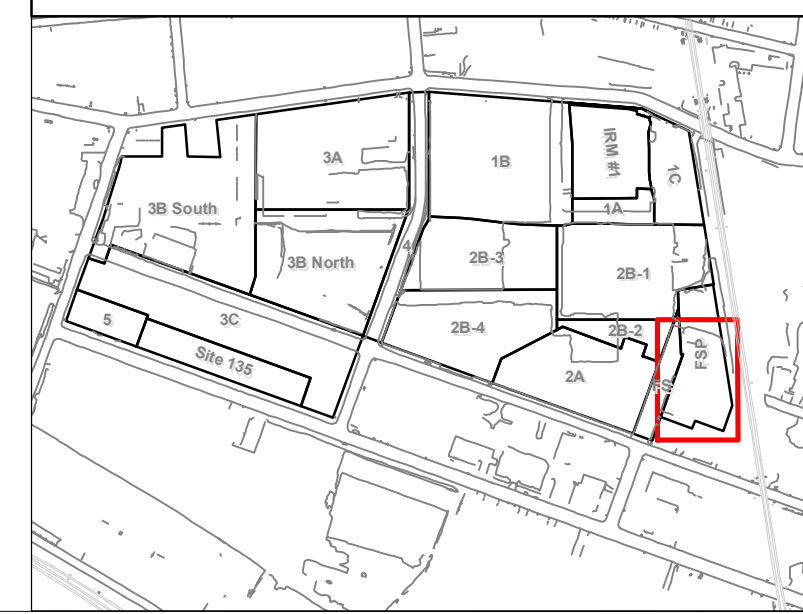
- G1. The hexavalent chromium data associated with the sample locations shown on this figure are provided in Table 2-3. Data presented in call out boxes on this figure are outliers (i.e., data points that require further explanation). Specific notes on how the NJDEP's remedial standards are being met and/or how remedial completion is being achieved/completed for each outlier sample are provided in the Specific Notes in Table 2-3.
- G2. "Elevation" refers to the sample elevation based on the pre-remediation surface elevation for samples collected from the pit bottom, and the surface elevation of the sample location when the sample was collected via boring or test pit.
- G3. Elevation vertical datum is NAVD88, in U.S. survey ft.
- G4. Results are reported in mg/kg.
- G5. Source of block/lot information is Jersey City Parcel Data from New Jersey Geographic Information Network (NJGIN), last updated 10/6/2015 (available at: <http://data.jerseycitynj.gov/dataset/jersey-city-parcel-polygon>).
- G6. There are no Cr cleanup criteria or remediation standards for concrete, so results are being compared to the CrSCC.
- G7. There is currently no NJDEP SRS and no NJDEP SCC for Cr. Therefore, total Cr results are compared to the NJDEP Residential SCC for Cr<sup>3+</sup> of 120,000 mg/kg as the cleanup criteria for soil at the Garfield Avenue Group Sites. There is no non-residential SCC for Cr<sup>3+</sup>.

**SPECIFIC NOTES:**

- S1. Property lines and pre-construction topographical contours are sourced from the "Boundary and Topographic Survey, PPG Industries Site 114, Lots 11, 12, 14 and 15, Block 21501, City of Jersey City, Hudson County, New Jersey" prepared by Borbas Surveying and Mapping, LLC, dated January 8, 2019.
- S2. Conceptual post-excavation elevation contours were generated using professional judgement based on post-excavation survey points and knowledge of excavation practices utilized during the remedial excavation (i.e., excavation conducted on a 30-foot by 30-foot basis). Post excavation survey points were sourced from the "Post Excavation Elevation Plan for ENTACT, LLC; PPG Site 133 & 135 Skyways," prepared by Maser Consulting P.A., dated June 30, 2017.

Soil Cleanup Criteria (mg/kg)	
Analyte	CrSCC
CHROMIUM (HEXAVALENT)	20
CHROMIUM	120,000

**MAP LOCATION**



PPG  
 FORREST CURRENT-USE REMEDIATION AREAS  
 GARFIELD AVENUE GROUP  
 JERSEY CITY, NEW JERSEY

**REMEDIAL ACTION WORK PLAN  
 SAMPLE MAP FOR HEXAVALENT CHROMIUM  
 AND CHROMIUM IN CONCRETE  
 COMPARED TO CHROMIUM SOIL CLEANUP CRITERIA**

Date: 3/19/2019

Drawn by: ALC

FIGURE 4-3