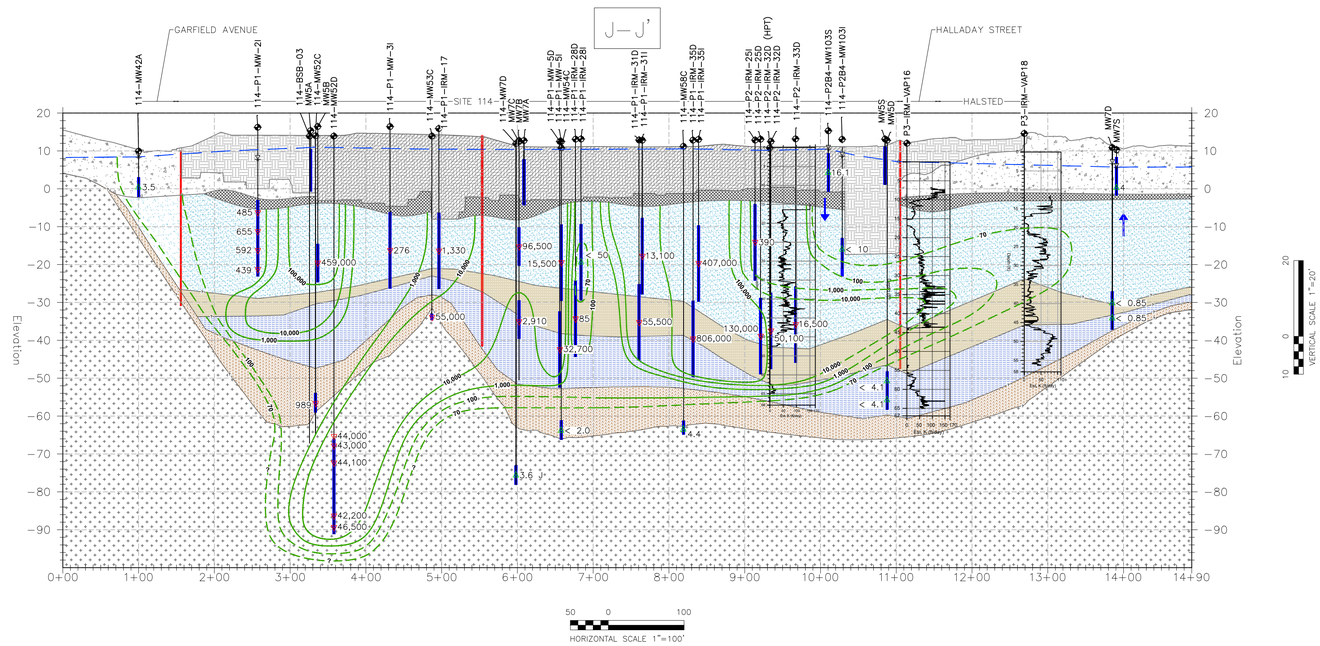

LEGEND

- EXISTING GROUND SURFACE
- GROUNDWATER SURFACE, SHALLOW WELLS (MAY/JUNE 2018)
- STRUCTURE
- 114–MW25C GROUNDWATER MONITORING WELL
- EXISTING SHEETPILE
- WELL RISER
- WELL SCREEN
- SHALLOW WATER-BEARING ZONE WELL POTENTIOMETRIC HEAD (MAY/JUNE 2018)
- INTERMEDIATE WATER-BEARING ZONE WELL POTENTIOMETRIC HEAD (MAY/JUNE 2018)
- DEEP WATER-BEARING ZONE WELL POTENTIOMETRIC HEAD (MAY/JUNE 2018)
- DIRECTION OF VERTICAL HYDRAULIC GRADIENT (MAY/JUNE 2018)
- 3.5 — Cr CONCENTRATION <70 ug/L
- 485 — Cr CONCENTRATION >70 ug/L
- 70 — Cr ISOCONTOUR 70 ug/L
- 100 — Cr ISCONTOUR 100 ug/L
- 1,000 — Cr ISOCONTOUR 1,000 ug/L
- 10,000 — Cr ISOCONTOUR 10,000 ug/L
- 100,000 — Cr ISOCONTOUR 100,000 ug/L
- 1,000,000 — Cr ISOCONTOUR 1,000,000 ug/L
- ? — INFERRED Cr ISOCONTOUR
- ESTIMATED HYDRAULIC CONDUCTIVITY LOG FROM HYDRAULIC PROFILE TOOL (HPT), FEET/DAY

STRATIGRAPHY

SHALLOW WATER-BEARING ZONE

- FILL: FINE TO COARSE SAND WITH SILT AND GRAVEL, MAY INCLUDE VARIOUS MATERIALS ASSOCIATED WITH HISTORICAL FILL SUCH AS: CONSTRUCTION SPOILS, DEMOLITION DEBRIS, GARBAGE, INCINERATOR ASH, COAL ASH, SHIP BALLAST, AND INDUSTRIAL WASTE
- DENSE-GRADE AGGREGATE FILL: FINE TO COARSE SAND WITH FINE GRAVEL AND SILT
- FINE TO MEDIUM SAND WITH LENSES OF SILT, TRACE FINE GRAVEL

INTERMEDIATE WATER-BEARING ZONE

- MEADOW MAT: ESTUARINE AND SALT MARSH DEPOSITS
- SAND AND SILTY SAND WITH LENSES OF GRAVEL, SILT, OR CLAY
- TRANSITION ZONE: INTERBEDDED FINE TO VERY FINE SAND, SILT, AND CLAY

DEEP WATER-BEARING ZONE

- SAND WITH LENSES OF GRAVEL, SILT, OR CLAY
- SILT AND CLAY, WITH LENSES OF INTERBEDDED VERY FINE SAND
- BASAL TILL (LOWER FACIES OF RAHWAY TILL) REDDISH-BROWN SILTY CLAYS, SANDY SILTS, AND SILTY SANDS WITH SUBROUNDED TO SUBANGULAR FINE TO COARSE GRAVEL AND COBBLES, AND OCCASIONAL INTERBEDDED LENSES OF CLAY, SILT, OR FINE SAND. HARD, DENSE, COMPACT, AND TYPICALLY DRY.
- BEDROCK: STOCKTON FORMATION, LOCKATONG FORMATION, OR DIABASE
- AREA WITH VISUAL OBSERVATIONS OF CCPW, CONSISTING OF COPR, GREEN-GRAY MUD, OR FILL MIXED WITH COPR OR GREEN-GRAY MUD
- ? DENOTES INFERRED STRATIGRAPHIC CONTACT
- FERROBLACK-H AMENDED BACKFILL AREA

NOTES:

1. ELEVATIONS ARE SHOWN IN FT NAVD88.
2. THE GWQS FOR Cr IS 70 ug/L.
3. DATA PRESENTED ON THIS FIGURE ARE FROM SAMPLES COLLECTED FROM MONITORING WELLS BETWEEN JUNE 15, 2011 AND FEBRUARY 2021, FOR VARIOUS GROUNDWATER PROGRAMS, INCLUDING BUT NOT LIMITED TO: GROUNDWATER RI (HISTORICAL AND RECENTLY COMPLETED), GROUNDWATER PILOT TESTING AND INTERIM REMEDIAL MEASURES (IRM) ON SITE 114, CAPILLARY RISE GROUNDWATER MONITORING AND SITE-WIDE FERROBLACK-H PERMIT-BY-RULE (PBR) COMPLIANCE MONITORING.
4. DATA FROM SAMPLES COLLECTED FROM HISTORICAL MONITORING WELLS LOCATED IN REMEDIAL AREAS (E.G., SITE 114) ARE SUPERCEDED BY MORE RECENT DATA COLLECTION PROGRAMS THAT WERE IMPLEMENTED AFTER THE COMPLETION OF SOIL REMEDIATION ACTIVITIES.
5. RESULTS PRESENTED ARE FROM THE ANALYSIS OF UNFILTERED GROUNDWATER SAMPLES.
6. CHROMIUM CONCENTRATIONS ARE PRESENTED IN UNITS OF MICROGRAMS PER LITER.

QUALIFIERS:

J	RESULT IS AN ESTIMATED VALUE
U	ANALYTE WAS NOT DETECTED ABOVE THE METHOD DETECTION LIMIT OR REPORTING LIMIT

DEFINITIONS:

CCPW	CHROMATE CHEMICAL PRODUCTION WASTE
COPR	CHROMITE ORE PROCESSING RESIDUE
Cr	TOTAL CHROMIUM
FT NAVD88	FEET IN NORTH AMERICAN VERTICAL DATUM OF 1988
GWQS	GROUNDWATER QUALITY STANDARD
RI	REMEDIAL INVESTIGATION
ug/L	MICROGRAMS PER LITER

AECOM

PPG
GARFIELD AVENUE GROUP SITES
JERSEY CITY, HUDSON COUNTY NEW JERSEY

DATE: 8/13/2021 | DRWN: GDS

FENCE DIAGRAM J-J'

FIGURE 5-9

File: C:\310 CAD\20 SHEETS\Cell\2021 CW RIPI\Fence Diagrams_08-2021\20210203 Fence Diagram_J-J'.dwg Layout: J-J' ANSI D User: frederik.schuch Plotted: Aug 13, 2021 - 2:16pm