SITE 114

Block 21501
Lot 18.01

SITE 143

Block 21510
Lot 1

SITE 132

Block 21510
Lot 2

SITE 137A

Block 21510
Lot 3

CARTERET AVENUE

GARFIELD AVENUE

REFER TO FIGURE 5-1B

MATCHLINE

P4-A14A	03/10/2014	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
(-2.7) - (-3.2)	14.0 - 14.5	**31.4 J**
(-4.7) - (-5.2)	16.0 - 16.5	**39.6 J**
(-6.7) - (-7.2)	18.0 - 18.5	**27.9 J**
(-8.7) - (-9.2)	20.0 - 20.5	**25.9 J**

P4-A14A	03/10/2014	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
(-6.1) - (-6.6)	18.0 - 18.5	**64.1 J**

P4-C14A	03/11/2014	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
(-7.4) - (-7.9)	20.0 -20.5	**21.5**

P4-D14A	03/11/2014	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
(-3.4) - (-4.0)	16.0 - 16.5	**106 J**

A4MW4V	10/03/2005	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
(-23.5) - (-24)	36.0 - 36.5	**34.0 J**
(-23.5) - (-24)	36.0 - 36.5	**30.2 J**

MW4B	12/03/2003	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
(-17.3) - (-19.3)	30.0 - 32.0	**360**

P4-E14A	03/13/2014	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
(-7.5) - (-8.0)	20.0 - 20.5	**288 J**

P4-G14A	03/11/2014	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
(-3.6) - (-4.1)	16.0 - 16.5	**53.9 J**

CAR-EX-2+40-15L	08/06/2019	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
3.2 - 2.7	9.2 - 9.7	**49.1 J**

P4-J14A	03/14/2014	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
(-7.9) - (-8.4)	20.0 - 20.5	**674 J**

P4-M14A	03/06/2014	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
(-7.7) - (-8.2)	20.0 - 20.5	**119 J**

P4-N15A	03/13/2014	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
(-7.5) - (-8.0)	20.0 - 20.5	**189 RA**

P4-O16A	03/10/2014	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
(-6.9) - (-7.4)	20.0 - 20.5	**34.9 J**
(-6.9) - (-7.4)	20.0 - 20.5	**174 J**

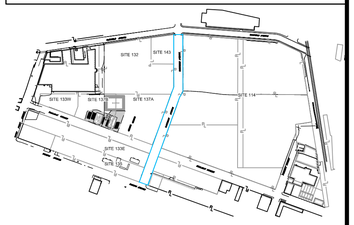
114-MW22B	11/20/2006	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
(-4.9) - (-5.4)	17.5 - 18.0	**26.0 J**

CAR-0+60-SW-N-2	07/01/2019	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
6.4 - 5.9	6.3 - 6.8	**20.1 J**

CAR-0+60-SW-N-1	07/01/2019	
Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
4.4 - 3.9	8.3 - 8.8	**32.4 J-**

Soil Cleanup Criterion (mg/kg)	
Analyte	CrSCC
HEXAVALENT CHROMIUM	20

MAP LOCATION



LEGEND

- PROPERTY LINE
- FENCE
- EDGE OF CONCRETE
- EXISTING SHEET PILE
- CURB
- EXISTING BUILDING
- GAS UTILITY LINE
- WATER UTILITY LINE
- UNDERGROUND ELECTRIC UTILITY LINE
- SEWER UTILITY LINE
- COMMUNICATION UTILITY LINE
- 96" STEEL COMBINED SEWER (APPROXIMATE)
- COMBINED SEWER MANHOLE
- CATCH BASIN INLET
- FIRE HYDRANT
- WATER VALVE
- PRE-EXCAVATION GROUND SURFACE ELEVATION CONTOURS 1' INTERVAL 5' INDEX
- LIMIT OF EXCAVATION
- POST-EXCAVATION ELEVATION CONTOURS 1' INTERVAL 5' INDEX
- STONE
- RESTRICTED-USE AREA (SEE SPECIFIC NOTE 5)
- SITE BOUNDARY
- CENTERLINE
- 0+30 STATION NUMBER (IN FEET)
- SAMPLING LOCATION, REMAINING SAMPLES NOT ANALYZED FOR Cr^{+6} (AS-BUILT TERMINAL EXCAVATION ELEVATION)
- SAMPLING LOCATION, REMAINING SAMPLES (AS-BUILT TERMINAL EXCAVATION ELEVATION)
- SAMPLING LOCATION, REMOVED CONFIRMATION SAMPLES (AS-BUILT TERMINAL EXCAVATION ELEVATION)
- Cr^{+6} RESULT LESS THAN THE CrSCC
- Cr^{+6} RESULT EXCEEDS THE CrSCC, BUT IS IN COMPLIANCE WITH THE REMEDIATION OBJECTIVES

ABBREVIATIONS:

bgs	BELOW PRE-CONSTRUCTION GROUND SURFACE
CCPW	CHROMATE CHEMICAL PRODUCTION WASTE
Cr^{+6}	HEXAVALENT CHROMIUM
Cr	CHROMIUM
CrSCC	CHROMIUM SOIL CLEANUP CRITERION
ft	FEET
mg/kg	MILLIGRAMS PER KILOGRAM
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NJDEP	NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
U.S	UNITED STATES

QUALIFIERS:

- J — THE RESULT IS AN ESTIMATED VALUE; THE ASSOCIATED NUMERICAL VALUE IS AN APPROXIMATE CONCENTRATION OF THE ANALYTE IN THE SAMPLE.
- J- — THE ANALYTE WAS POSITIVELY IDENTIFIED; THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED QUANTITY WITH A POTENTIAL LOW BIAS.
- RA — THE RESULT WAS REJECTED DUE TO DEFICIENCIES BUT IS CONSIDERED USEABLE FOR DECISION-MAKING PURPOSES.

GENERAL NOTES:

G1. THE HEXAVALENT CHROMIUM DATA ASSOCIATED WITH THE SAMPLE LOCATIONS SHOWN ON THIS FIGURE ARE PROVIDED IN TABLE 5-1. DATA PRESENTED IN CALLOUT 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 FOR EACH OUTLIER SAMPLE ARE PROVIDED IN THE SPECIFIC NOTES IN TABLE 5-1.

G2. "DEPTH" REFERS TO THE DIFFERENCE BETWEEN THE SAMPLE ELEVATION AND THE PRE-REMEDIATION SURFACE ELEVATION FOR SAMPLES COLLECTED FROM THE EXCAVATION PIT BOTTOM, OR THE SAMPLE DEPTH FROM THE SURFACE AT 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. THIS FIGURE PRESENTS DATA FOR LOCATIONS WITHIN THE SITE BOUNDARY THAT HAVE SAMPLES REMAINING IN PLACE OR THAT HAVE REMOVED SAMPLES THAT SERVE AS CONFIRMATION SAMPLES. SELECT OFF-SITE LOCATIONS ARE PRESENTED IN THIS FIGURE TO DOCUMENT COMPLIANCE WITH THE REMEDIATION OBJECTIVES OR TO DOCUMENT DELINEATION. SPECIFIC NOTES ON TABLE 5-1 INCLUDE DISCUSSION OF THESE SITUATIONS, IF NECESSARY.

G6. "STATION" REFERS TO A SAMPLE'S LOCATION ALONG THE EXCAVATION'S CENTERLINE, WHICH RUNS THE LENGTH OF CARTERET AVENUE STARTING FROM THE WESTERNMOST EDGE OF CARTERET AVENUE.

SPECIFIC NOTES:

S1. PRE-CONSTRUCTION TOPOGRAPHIC CONTOURS, PROPERTY LINES, BUILDING EXTENTS, AND SITE FEATURES ARE SOURCED FROM SURVEYS CONDUCTED BETWEEN NOVEMBER 2006 AND JULY 2014 BY BORBAS SURVEYING AND MAPPING, LLC.

S2. UNDERGROUND UTILITIES SHOWN ARE BASED ON THE CATCH BASIN-RECEPTOR EVALUATION SURVEY, PPG SITE 114, THE CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY, CONDUCTED BY BORBAS SURVEYING AND MAPPING, LLC, DATED APRIL 15, 2011, AND ON PLANS PROVIDED BY THE CITY OF JERSEY CITY.

S3. POST-EXCAVATION ELEVATION SURVEY POINTS WERE SOURCED FROM "AS-BUILT EXCAVATION SURVEY, CARTERET AVE SITE EXCAVATION, CITY OF JERSEY CITY, HUDSON COUNTY, N.J." CONDUCTED BY BORBAS SURVEYING AND MAPPING, LLC, DATED JANUARY 27, 2021.

S4. SAMPLE LOCATIONS ARE ADJACENT TO EACH OTHER AT STATION 3+08, OFFSET 18L; STATION 3+87, OFFSET 30L; STATION 3+95, OFFSET 20R, STATION 4+15, OFFSET 18L; AND STATION 4+28, OFFSET 16L. THEREFORE, THE SAMPLE LOCATION SYMBOLS OVERLAP ON THE FIGURE.

S5. AREA RESTRICTED TO NON-RESIDENTIAL USE VIA INSTITUTIONAL CONTROLS (NOTICE IN LIEU OF DEED NOTICE) BASED ON ATTAINMENT OF THE CrSCC USING COMPLIANCE AVERAGING.

AECOM

10 0 20
GRAPHIC SCALE IN FEET

PPG
GARFIELD AVENUE GROUP SITES
JERSEY CITY, NEW JERSEY

DATE: 02/22/2021 | DRWN: JJA

SAMPLE MAP FOR HEXAVALENT CHROMIUM COMPARED TO CrSCC

FIGURE 5-1A

File: C:\Users\amtorres\AECOM Directory\PPG - 60513910 GGS\30 SITE\CAD\Carteret\Figures 5-1, 5-2, & 5-3\2021-02-22 Carteret HSR Figures.dwg Layout: 5-1-1 User: amtorres Plotted: Mar 01, 2021 - 8:48am