



New Jersey Department of Environmental Protection
Site Remediation and Waste Management Program
CLASSIFICATION EXCEPTION AREA / WELL RESTRICTION
AREA (CEA/WRA) FACT SHEET FORM

Date Stamp
(For Department use only)

SECTION A. SITE INFORMATION

Site Name: Hudson County Chromate Site 114

Program Interest (PI) Number(s): G000005480, Activity # RPC000051

Case Tracking Number(s) for this submission: _____

**This form must be attached to the Cover / Certification Form
if not submitted through the Remedial Phase Report Online Service**

1. Indicate the reason for submission of this form (*see instructions*):

- ☐ New CEA ☒ Revise CEA ☐ Reestablish CEA ☐ Existing CEA with no changes
☐ CEA for historic fill ☐ CEA for Historically Applied Pesticides (HAP) ☐ CEA lift/removal

If you are submitting this form for an existing CEA provide the CEA Subject Item ID: CEA100000008

2. Indicate the type of ground water Remedial Action (RA):

- ☐ Natural ☐ Active ☒ Final RA not yet selected

3. Is this form being submitted with a Remedial Action Permit (RAP) Form (for Soil or Ground Water)? ☐ Yes ☒ No

SECTION B. CEA COMPONENT AND VAPOR INTRUSION INFORMATION

Name of document that includes the CEA Fate and Transport Description: Groundwater Remedial Investigation Report

Date of document: 08/31/2021 - Final

1. Ground Water Classification: What is the ground water classification within the CEA as per N.J.A.C. 7:9C?

(Check all that apply)

- ☐ Class I-A ☒ Class II-A
☐ Class I-PL Pinelands Protection Area ☐ Class III-A
☐ Class I-PL Pinelands Preservation Area ☐ Class III-B

2. Contaminant Data: This CEA/WRA applies only to the contaminants listed below with concentrations above, or assumed to be above, numeric values established for the applicable classification area via the [Ground Water Quality Standards](#) (GWQS), N.J.A.C. 7:9C. Except for historic fill CEAs based on assumed ground water contamination, list the maximum contaminant value for all ground water data that could be representative of **current** conditions for any well or sampling point used to establish the CEA. See form instructions before entering data into the below table.

Contaminant	Concentration ⁽¹⁾	GWQS ⁽²⁾	SWQS ⁽³⁾	GWSL ⁽⁴⁾
See Attachment 1				

Notes: ⁽¹⁾ Maximum concentration in Micrograms Per Liter

⁽²⁾ New Jersey Ground Water Quality Standards, N.J.A.C. 7:9C-1.7 and 1.9(c)

⁽³⁾ [Surface Water Quality Standards](#), N.J.A.C. 7:9B - Applicable only where contaminants in the CEA may discharge to a surface water body.

⁽⁴⁾ Current NJDEP Vapor Intrusion (VI) Ground Water Screening Levels (GWSL) available at <http://www.nj.gov/dep/srp/guidance/vaporintrusion/>

☒ Check if attaching the form Addendum to list additional contaminants and associated information.

3. CEA Boundaries and VI Pathway Status:Year of tax map used: 2013

See Note 1

Are there volatile contaminants in the CEA?.....☒ Yes ☐ NoIs there LNAPL currently found in the CEA?.....☐ Yes ☒ No

For CEA revisions only:

☒ Check if CEA Boundary has changed (*See instructions*)☒ Check if Block and Lot numbers have changed (*See instructions*)

Note 1: Source of block/lot information:
Parcels of Hudson County, NJ State Plane NAD83,
Hudson County Dept. of Planning, May 21, 2013, with
updates based on Sheet 215 of the Tax Map accessed
at: [http://hostedfiles.civilsolutions.biz/jersecity/taxmaps/
index.htm](http://hostedfiles.civilsolutions.biz/jersecity/taxmaps/index.htm) (revised 12/2020). Accessed March 2021.

Refer to Attachment 2 for VI statement.

List the block(s) and lot(s) included in the areal extent of the CEA and check the appropriate boxes:

Block	Lot(s)	Check if off-site	Check if VI pathway was evaluated *	Check if VI pathway status is indeterminate *
21404	1, 2, 3, 6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21501	16, 17, 18.01, 18.02, 19.01, 19.02	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21502	8, 9, 10, 11, 12, 13, 14, 15, 16, 17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21502	18	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21503	23, 27	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21509	1, 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21510	1, 2, 3, 4, 5, 11, 39	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☒ Check if attaching an Addendum to list additional Blocks/Lots and associated information. (*see instructions*)

* Follow instructions for parcels where the vapor intrusion (VI) pathway was evaluated and the status is indeterminate.

Direction of ground water flow: multiple zones/
variable (If multiple water bearing zones exist within the CEA and/or there
is no predominant flow direction, see instructions.) Figures 3-5, 3-6, 3-7 of RIR.Vertical depth of CEA: 114 (ft bgs) and < -97.8 (msl). Based on deepest sample with
contamination in bedrock (114-MW66D).Horizontal extent of CEA: 35.1 Indicate units: ☒ acres or ☐ square feet Bedrock not delineated.Name(s) of the affected Geologic Formation(s)/Unit(s) (*see instructions if multiple formations/units affected*):Artificial fill, estuarine & salt marsh deposits, lake bottom deposits, glacial till, bedrock.

Narrative description of proposed CEA boundaries:

Refer to Figures 3-2, 3-3, 5-1 through 5-9 of RIR.

The revised CEA boundary measures 35.1 acres, and encompasses the shallow, intermediate, deep and bedrock zones (Exhibit B-2). The boundary was updated based on the 70 ug/L chromium isopleth in these zones*, which is also inclusive of the other COCs that were determined to be on, or emanating from HCC Site 114**. The CEA extends a maximum distance of 490 ft beyond the Site 114 boundary.

4. Projected Term of CEA: (*Based on modeling/calculations in the fate and transport description*)

* As depicted on Figures 5-10 through 5-13 of the August 2021 groundwater RIR.

Proposed Duration in Years: _____ Anticipated Expiration Date: _____

or ☒ Indeterminate (*Review instructions before selecting "Indeterminate" for the CEA duration.*)**5. ATTACH AND/OR SUBMIT THE FOLLOWING:** (*see instructions for additional information/requirements*)**Exhibit A: Site Location Maps** – Based on USGS Quadrangle Map;**Exhibit B: CEA Map and Cross Section Figure** – See N.J.A.C 7:26C- 7.3(c)1 and 2 and instructions regarding what is required to be included on the map and the cross-section figure. See Exhibits B-1, B-2A and B-2B**Exhibit C: GIS Deliverables** – CEA Boundary Extent Map. The CEA Boundary Extent Map shall be submitted via email to srpgis_cea@dep.nj.gov. (*See the instructions for detailed GIS deliverable requirements.*)Identify format of CEA Boundary Extent Map being submitted: ☒ Shape File ☐ CAD File ☐ N/AIf there is a CEA map already on NJ-GeoWeb, does it need to be revised? ☒ Yes ☐ No ☐ N/A

SECTION C. CURRENT GROUND WATER USE DOCUMENTATION

Note: Well search is included in the Receptor Evaluation form prepared for the Remedial Investigation Report.

1. Indicate the year of the most recent well search completed per N.J.A.C. 7:26E-1.14: 2021
2. If this Fact Sheet form is for a revised CEA or an existing CEA with no changes, have new wells been installed since the CEA was established? ☒ Yes ☐ No ☐ N/A
3. Are there any pumping wells (e.g., potable, industrial, irrigation or recovery wells) within the foot print of the CEA? ☒ Yes ☐ No

If "Yes" list/attach list of the type and status of any pumping well(s) within CEA:

Refer to Receptor Evaluation, Attachment 2 (well search results), included with the RIR.

SECTION D. WELL RESTRICTION INFORMATION

Certain well restrictions relevant to potable ground water use, such as "Double Case Wells", "Sample Potable Wells", and "Evaluate Production Wells", are consistently set within the boundaries of all CEAs established by the NJDEP in Class I and II-A areas (*see instructions*).

1. Are there any other site-specific well restrictions relevant to potable ground water use that should be set within or near the boundaries of the proposed CEA? ☐ Yes ☒ No

If "Yes", describe below any such site-specific well restrictions proposed for this CEA:

SECTION E. PUBLIC NOTIFICATION REQUIREMENTS

1. Indicate which of the following entities have been notified pursuant to N.J.A.C. 7:26C-7.3(d) and the dates each notification was sent. (*check all that apply*)

- ☒ Municipal and county clerk(s) Dated mailed: _____
- ☒ Local, county or regional health department(s) Dated mailed: _____
- ☒ Designated County Environmental Health Act agency (if applicable) Dated mailed: _____
- ☒ County Planning Board Dated mailed: _____
- ☐ Pinelands Commission (if applicable) Dated mailed: _____
- ☒ Owners of real property overlying CEA foot print Dated mailed: _____

(Notifications will be sent upon approval of the draft CEA)

2. **List of Names and Addresses** – List below and/or in an attachment, the names/addresses of all persons notified pursuant to N.J.A.C. 7:26C-7.3(d) based on the proposed CEA boundaries. If the site property owner differs from the person responsible for conducting the remediation, check here ☒ and enter the site owner's name and address first in the table below. *See instructions for more information regarding the address list.*

[illegible]

ADDENDUM
Classification Exception Area / Well Restriction Area
Fact Sheet Form

Section B. CEA Component and Vapor Intrusion Information

1. **Contaminant Data** (continued): This CEA/WRA applies only to the contaminants listed on page 1 and in the table below with concentrations above, or assumed to be above, numeric values established for the applicable classification area via the GWQS, N.J.A.C. 7:9C. Except for historic fill CEAs based on assumed ground water contamination, list below the maximum contaminant value for all ground water data that could be representative of **current** conditions for any well or sampling point used to establish the CEA. See form Instructions before entering data into the tables below.

Contaminant	Concentration ⁽¹⁾	GWQS ⁽²⁾	SWQS ⁽³⁾	VI GWSL ⁽⁴⁾
See Attachment 1				

Notes: ⁽¹⁾ Maximum concentration in Micrograms Per Liter
⁽²⁾ New Jersey Ground Water Quality Standards, N.J.A.C. 7:9C-1.7 and 1.9(c)
⁽³⁾ Surface Water Quality Standards, N.J.A.C. 7:9B - Applicable only where contaminants in the CEA may discharge to a surface water body.
⁽⁴⁾ Current NJDEP Vapor Intrusion (VI) Ground Water Screening Levels (GWSL)

2. **CEA Boundaries and VI Pathway Status** (continued): List additional parcels included in the CEA. Attach additional Addendum sheets if necessary to list all blocks and lots within the CEA.

For CEA revisions, check here if block and lot numbers have changed: ☒

Block	Lot(s)	Check if off-site	Check if VI pathway was evaluated *	Check if VI pathway status is indeterminate *
21501	1.01, 12, 14.01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21501	20.01, 20.02	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* Follow instructions for parcels where the vapor intrusion (VI) pathway was evaluated and status is indeterminate.

Attachment 1
Constituents of Concern for the Groundwater Classification Exception Area
PPG, Jersey City, New Jersey

ANALYTE	MAXIMUM DETECTED RESULT ¹ (ug/L)	NJ CLASS II-A GWQS ² (ug/L)	SWQS (ug/L)	VI GWSL ³ (ug/L)
1,1,2-TRICHLOROETHANE	4.2	3	N/A	8
1,1-DICHLOROETHYLENE	74.8	1	N/A	260
1,2-DICHLOROETHANE	73.3	2	N/A	3
1,4-DIOXANE	2.03	0.4	N/A	N/A
ALUMINUM	181000	200	N/A	N/A
ANTIMONY	912	6	N/A	N/A
BIS(2-ETHYLHEXYL)PHTHALATE	7.8	3	N/A	N/A
CHLORIDE	15400000	250000	N/A	N/A
CHROMIUM	13300000	70	N/A	N/A
CHROMIUM (HEXAVALENT)	7630000	70	N/A	N/A
CIS-1,2-DICHLOROETHENE	2800	70	N/A	N/A
COPPER	1820	1300	N/A	N/A
IRON	317000	300	N/A	N/A
MANGANESE	56400	50	N/A	N/A
NICKEL	863	100	N/A	N/A
PENTACHLOROPHENOL	2.1	0.3	N/A	N/A
SODIUM	7600000	50000	N/A	N/A
STYRENE (MONOMER)	128	100	N/A	180,000
SULFATE	3800000	250000	N/A	N/A
TETRACHLOROETHENE	1900	1	N/A	31
THALLIUM	8.7	2	N/A	N/A
TRICHLOROETHYLENE	650	1	N/A	2
VANADIUM	2800	60	N/A	N/A
VINYL CHLORIDE	38	1	N/A	1

Notes:

¹ - Analytes shown on this table are based on those parameters identified as being on, or emanating from Site 114, at concentrations greater than their respective GWQS, as noted on Table 2 of the January 21, 2021 technical memorandum Constituents of Concern Emanating From Site 114 - Groundwater, filtered down to display the maximum concentrations for each analyte (based on current conditions at each monitoring well within the CEA footprint, as of December 2020).

² - Groundwater Quality Standards (GWQS) sourced from N.J.A.C. 7:9C, last amended June 1, 2020.

³ - Vapor Intrusion (VI) Groundwater Screening Levels (GWSL) based on March 2013 update to VISLs, accessed from:
<http://www.nj.gov/dep/srp/guidance/vaporintrusion/>

N/A = not applicable

NJ = New Jersey

SWQS = Surface Water Quality Standards

ug/L = micrograms per liter

**Attachment 2 - Vapor Intrusion
Responsible Party Statement**

Attachment 2

The following statement regarding vapor intrusion (VI) responsibility is unchanged from the original CEA application.

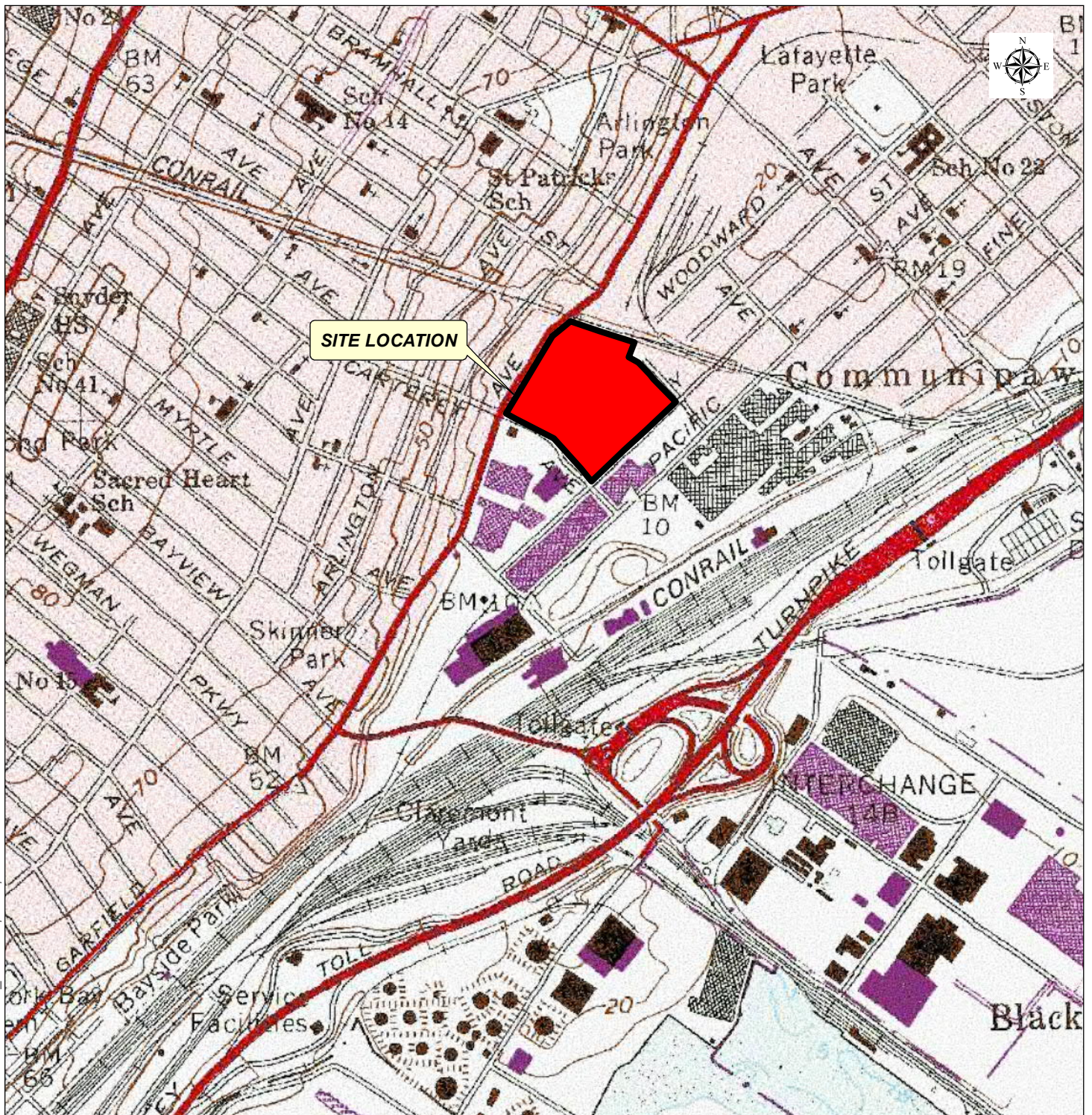
The eastern portion of Site 114 was the former location of a manufactured gas plant (MGP), which was investigated and remediated by Public Service Electric and Gas Company Services Corporation (PSEG SC), who has been named as the Responsible Party for MGP related contamination. PSEG SC maintains responsibility for MGP-related impacts on or emanating from Site 114.

Vapor Intrusion (VI) issues on and emanating from Site 114 are the result of former MGP operations. In 2012 and 2013, PSEG performed a VI investigation in accordance with a VI Investigation Work Plan submitted to the NJDEP in March 2010 (CMX) and preliminary results are included in PSEG SC's October 2015 *Interim Remedial Action Report for On-Site Soils – Area A and Area B* (AMEC).

Attachment 3
Property Owners List for Notification of Groundwater Classification Exception Area
Site 114
PPG, Jersey City, New Jersey

PROPERTY OWNER LIST									
BLOCK	LOT	PROPERTY CLASS	COUNTY	MUNICIPALITY	PROPERTY ADDRESS	OWNER NAME	OWNER STREET ADDRESS	OWNER CITY, STATE	OWNER ZIP CODE
21404	1	15C - EXEMPT PUBLIC	HUDSON	JERSEY CITY	207 RANDOLPH AVE.	JERSEY CITY SEWERAGE AUTHORITY	555 ROUTE 440	JERSEY CITY, NJ	07305
21404	2	15C - EXEMPT PUBLIC	HUDSON	JERSEY CITY	923 GARFIELD AVE.	NEW JERSEY TRANSIT	ONE PENN PLAZA EAST	NEWARK, NJ	07105
21404	3	4B - INDUSTRIAL	HUDSON	JERSEY CITY	855 GARFIELD AVE.	FRENCHPARK WAREHOUSE CO.	P.O BOX 280	KENILWORTH, NJ	07033
21404	6	4A - COMMERCIAL	HUDSON	JERSEY CITY	851 GARFIELD AVE.	851 GARFIELD AVENUE, LLC	54 EDGEWATER RD.	CLIFFSIDE, NJ	07010
21501	1.01	15C - EXEMPT PUBLIC	HUDSON	JERSEY CITY	163 HALLADAY STREET	JERSEY CITY SEWERAGE AUTHORITY	575 STATE HIGHWAY 440	JERSEY CITY, N.J.	07305
21501	12	4B - INDUSTRIAL	HUDSON	JERSEY CITY	86 FORREST ST.	90 FORREST ASSOCIATES, L.L.C.	28 BROMLEIGH RD.	STEWART MANOR, NY	11530
21501	14.01	4B - INDUSTRIAL	HUDSON	JERSEY CITY	100 FORREST ST.	100 FORREST ASSOCIATES, L.L.C.	28 BROMLEIGH RD.	STEWART MANOR, NY	11530
21501	16	15C - EXEMPT PUBLIC	HUDSON	JERSEY CITY	2 DAKOTA ST.	JERSEY CITY REDEVELOPMENT AGENCY	66 YORK ST.	JERSEY CITY, NJ	07302
21501	17	15C - EXEMPT PUBLIC	HUDSON	JERSEY CITY	70 CARTERET AVE.	JERSEY CITY REDEVELOPMENT AGENCY	66 YORK ST.	JERSEY CITY, NJ	07302
21501	18.01	15C - EXEMPT PUBLIC	HUDSON	JERSEY CITY	880 GARFIELD AVE.	JERSEY CITY REDEVELOPMENT AGENCY	66 YORK ST.	JERSEY CITY, NJ	07302
21501	19.01	15C - EXEMPT PUBLIC	HUDSON	JERSEY CITY	884 GARFIELD AVE.	JERSEY CITY REDEVELOPMENT AGENCY	66 YORK ST.	JERSEY CITY, NJ	07302
21501	20.01	1 - VACANT LAND	HUDSON	JERSEY CITY	900 GARFIELD AVE	900 GARFIELD AVE,% RYANN LLC	1735 MARKET ST.,STE A-400	PHILADELPHIA, PA.	19103
21502	8	4B - INDUSTRIAL	HUDSON	JERSEY CITY	133 PACIFIC AVE.	NINE LAWTON ST., INC.	271 ROSLYN COURT	WEST NEW YORK, NJ	07093
21502	9	4A - COMMERCIAL	HUDSON	JERSEY CITY	131 PACIFIC AVE.	107-123 & 127 PACIFIC AVE ASSO,LLC.	130 NORTH MAIN ST.#ST201	NEW CITY, NY.	10956
21502	10	4A - COMMERCIAL	HUDSON	JERSEY CITY	107 PACIFIC AVE.	107-123 & 127 PACIFIC AVE.ASSOC,LLC	130 NORTH MAIN ST.#ST 201	NEW CITY, N.Y.	10956
21502	11	4B - INDUSTRIAL	HUDSON	JERSEY CITY	105-101 PACIFIC AVE.	ONEOONE PACIFIC AVE, LLC	415 NEWARK ST #6B	HOBOKEN, NJ	07030
21502	12	4B - INDUSTRIAL	HUDSON	JERSEY CITY	78 HALLADAY ST.	PPG INDUSTRIES, INC.	ONE PPG PLACE	PITTSBURGH, PA	15272
21502	13	4B - INDUSTRIAL	HUDSON	JERSEY CITY	94 HALLADAY ST.	PPG INDUSTRIES, INC.	ONE PPG PLACE	PITTSBURGH, PA	15272
21502	14	1 - VACANT LAND	HUDSON	JERSEY CITY	98 HALLADAY ST.	PPG INDUSTRIES, INC.	ONE PPG PLACE	PITTSBURGH, PA	15272
21502	15	1 - VACANT LAND	HUDSON	JERSEY CITY	100 HALLADAY ST.	PPG INDUSTRIES, INC.	ONE PPG PLACE	PITTSBURGH, PA	15272
21502	16	1 - VACANT LAND	HUDSON	JERSEY CITY	102 HALLADAY ST.	PPG INDUSTRIES, INC.	ONE PPG PLACE	PITTSBURGH, PA	15272
21502	17	1 - VACANT LAND	HUDSON	JERSEY CITY	104 HALLADAY ST.	PPG INDUSTRIES, INC.	ONE PPG PLACE	PITTSBURGH, PA	15272
21502	18	4B - INDUSTRIAL	HUDSON	JERSEY CITY	106-116 HALLADAY ST.	HALLADAY INVEST.INC.	416 LIBERTY AVE.	JERSEY CITY, N.J.	07307
21503	23	1 - VACANT LAND	HUDSON	JERSEY CITY	33-47 CARTERET AVE.	EDEN WOOD REALTY, LLC	47 PARSIPANNY ROAD	WHIPPANY, N.J.	07981
21503	27	4B - INDUSTRIAL	HUDSON	JERSEY CITY	150 PACIFIC AVE.	EDEN WOOD REALTY, LLC	47 PARSIPANNY ROAD	WHIPPANY, N.J.	07981
21509	1	4B - INDUSTRIAL	HUDSON	JERSEY CITY	22 HALLADAY ST.	PPG INDUSTRIES, INC.	ONE PPG PLACE	PITTSBURGH, PA	15272
21509	2	4A - COMMERCIAL	HUDSON	JERSEY CITY	51-99 PACIFIC AVENUE	PPG INDUSTRIES, INC.	ONE PPG PLACE	PITTSBURGH, PA	15272
21510	1	1 - VACANT LAND	HUDSON	JERSEY CITY	846 GARFIELD AVE.	PPG INDUSTRIES, INC.%TAX ADMIN.DEPT	ONE PPG PLACE	PITTSBURGH, PA	15272
21510	2	15C - EXEMPT PUBLIC	HUDSON	JERSEY CITY	824 GARFIELD AVE.	JERSEY CITY REDEVELOPMENT AGENCY	66 YORK ST.	JERSEY CITY, NJ	07302
21510	3	1 - VACANT LAND	HUDSON	JERSEY CITY	45 HALLADAY ST.	PPG INDUSTRIES, INC.%TAX ADMIN.DEPT	ONE PPG PLACE	PITTSBURGH, PA	15272
21510	4	1 - VACANT LAND	HUDSON	JERSEY CITY	25 HALLADAY ST.	PPG INDUSTRIES, INC.%TAX ADMIN.DEPT	ONE PPG PLACE	PITTSBURGH, PA	15272
21510	5	4A - COMMERCIAL	HUDSON	JERSEY CITY	15 HALLADAY ST.	PPG INDUSTRIES, INC.%TAX ADMIN.DEPT	ONE PPG PLACE	PITTSBURGH, PA	15272
21510	11	4A - COMMERCIAL	HUDSON	JERSEY CITY	816 GARFIELD AVE.	PPG INDUSTRIES, INC.%TAX ADMIN.DEPT	ONE PPG PLACE	PITTSBURGH, PA	15272
21510	39	4B - INDUSTRIAL	HUDSON	JERSEY CITY	800 GARFIELD AVE.	PPG INDUSTRIES INC.	ONE PPG PLACE	PITTSBURG, PA	15272

OTHER ENTITIES FOR CEA NOTIFICATION	
ENTITY NAME	MAILING ADDRESS (STREET)
1) Office of the City Clerk	280 Grove Street, Jersey City, NJ 07302
2) Register of Hudson County	257 Cornelison Avenue, 2nd Floor, Jersey City, NJ 07302
3) Hudson Regional Health Commission	595 County Avenue, Building 1, Secaucus NJ 07094
4) Department of Health and Human Services	City Hall Annex, 1 Jackson Square, Jersey City, NJ 07305
5) Jersey City Environmental Commission	280 Grove Street, Jersey City, NJ 07302
6) Hudson County Division of Planning	Bergen Square Center, 830 Bergen Avenue Suite 6A, Jersey City, NJ 07306



Legend

SITE 114 (BLOCK 21501, LOTS 16, 17, 18, 19, 20)

Notes:

1. Image Source: USGS Topographic Quadrangle: Jersey City, NJ, 1967 - Photorevised 1981.
2. New Jersey State Plane North American Datum 1983 Coordinates, U.S. Survey Feet.
3. Source of Block/Lot Information: Jersey City Parcel Data from New Jersey Geographic Information Network, Last Updated December 14, 2018. Available at: <https://data.jerseycitynj.gov/explore/dataset/jersey-city-parcels/information/>

0 500 1,000 2,000 Feet

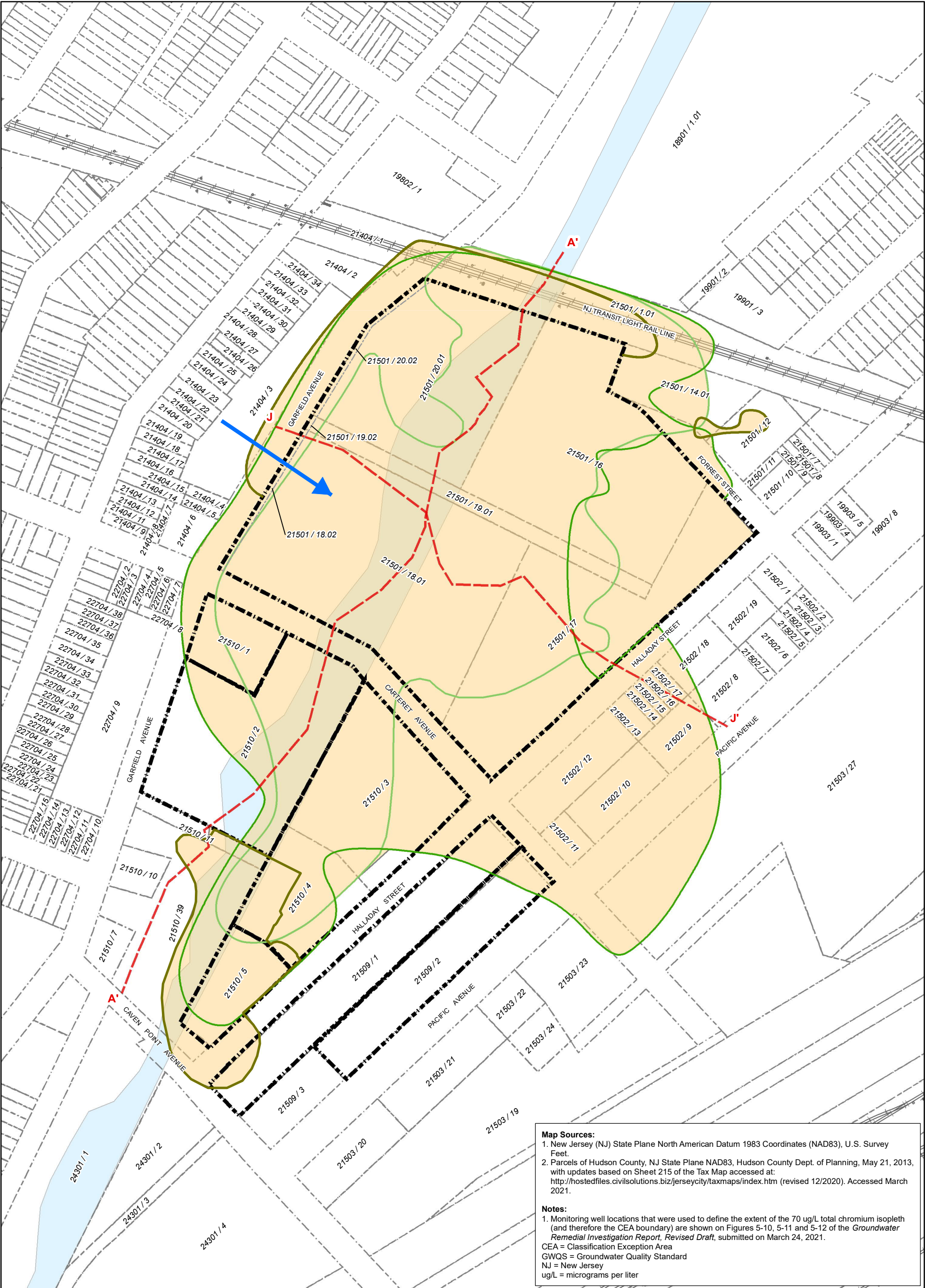
PPG GARFIELD AVENUE GROUP
SITE 114
JERSEY CITY, NEW JERSEY
PROJECT # 60550261

EXHIBIT A
SITE LOCATION MAP

AECOM

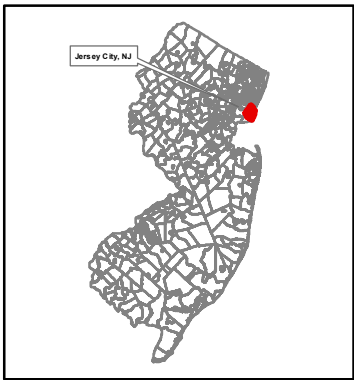
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Last Saved By: ravis
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Map Sources:
1. New Jersey (NJ) State Plane North American Datum 1983 Coordinates (NAD83), U.S. Survey Feet.
2. Parcels of Hudson County, NJ State Plane NAD83, Hudson County Dept. of Planning, May 21, 2013, with updates based on Sheet 215 of the Tax Map accessed at: <http://hostedfiles.civilsolutions.biz/jerseycity/taxmaps/index.htm> (revised 12/2020). Accessed March 2021.

Notes:
1. Monitoring well locations that were used to define the extent of the 70 ug/L total chromium isopleth (and therefore the CEA boundary) are shown on Figures 5-10, 5-11 and 5-12 of the *Groundwater Remedial Investigation Report, Revised Draft*, submitted on March 24, 2021.
CEA = Classification Exception Area
GWQS = Groundwater Quality Standard
NJ = New Jersey
ug/L = micrograms per liter



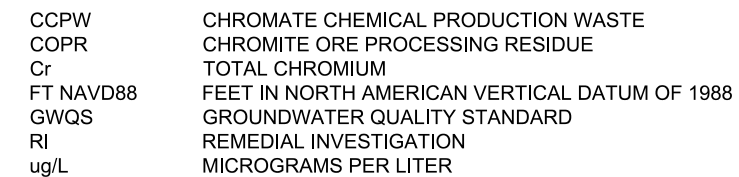
LEGEND

- GARFIELD AVENUE GROUP SITES
- HUDSON COUNTY PARCELS
- FORMER MORRIS CANAL
- REVISED EXTENT OF CEA
- RAILROAD TRACKS
- TOTAL CHROMIUM IN THE SHALLOW WATER-BEARING ZONE (GREATER THAN NJ GWQS OF 70 ug/L)
- TOTAL CHROMIUM IN THE INTERMEDIATE WATER-BEARING ZONE (GREATER THAN NJ GWQS OF 70 ug/L)
- TOTAL CHROMIUM IN THE DEEP WATER-BEARING ZONE (GREATER THAN NJ GWQS OF 70 ug/L)
- FENCE DIAGRAM ALIGNMENTS
- GROUNDWATER FLOW DIRECTION

0 100 200 Feet

PPG GARFIELD AVENUE GROUP SITES JERSEY CITY, NEW JERSEY			EXHIBIT B-1 REVISED CEA BOUNDARY	
DATE: 2021-08-19	DRAWN BY: SR	CHECKED BY: SG		

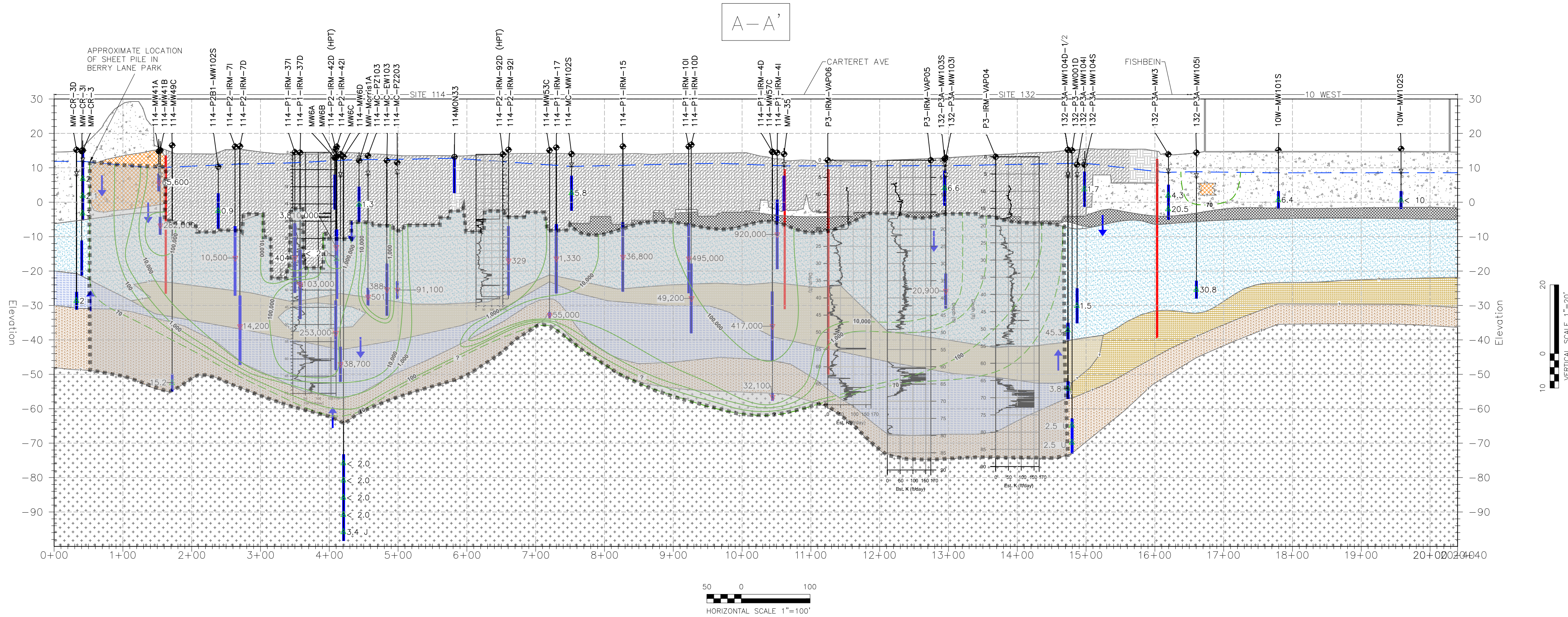
AECOM



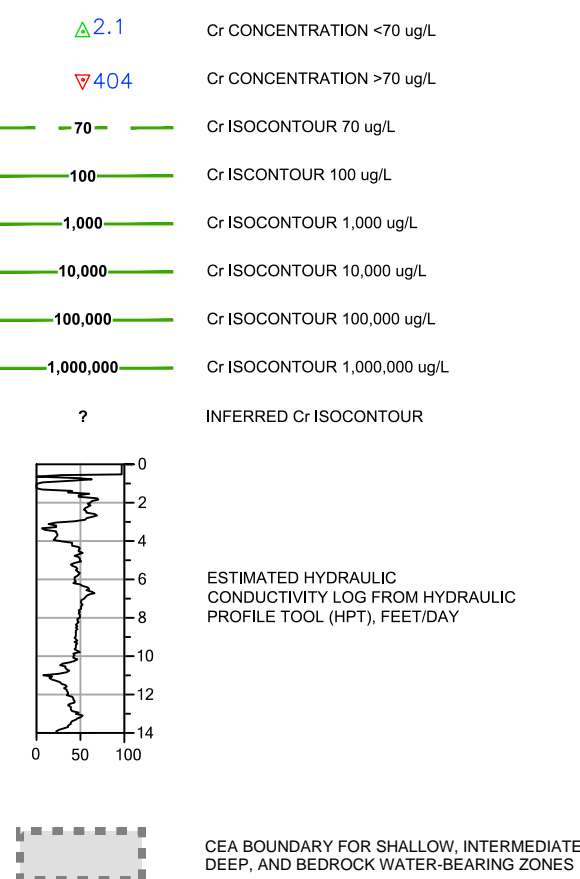
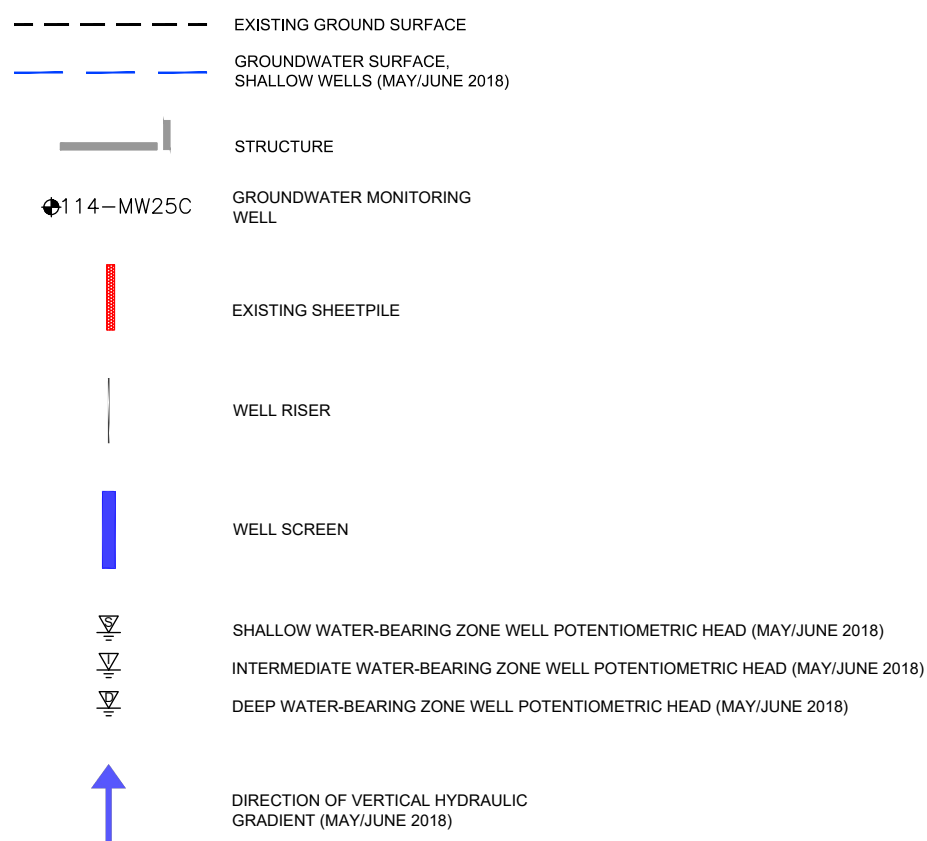
DRWN: GDS

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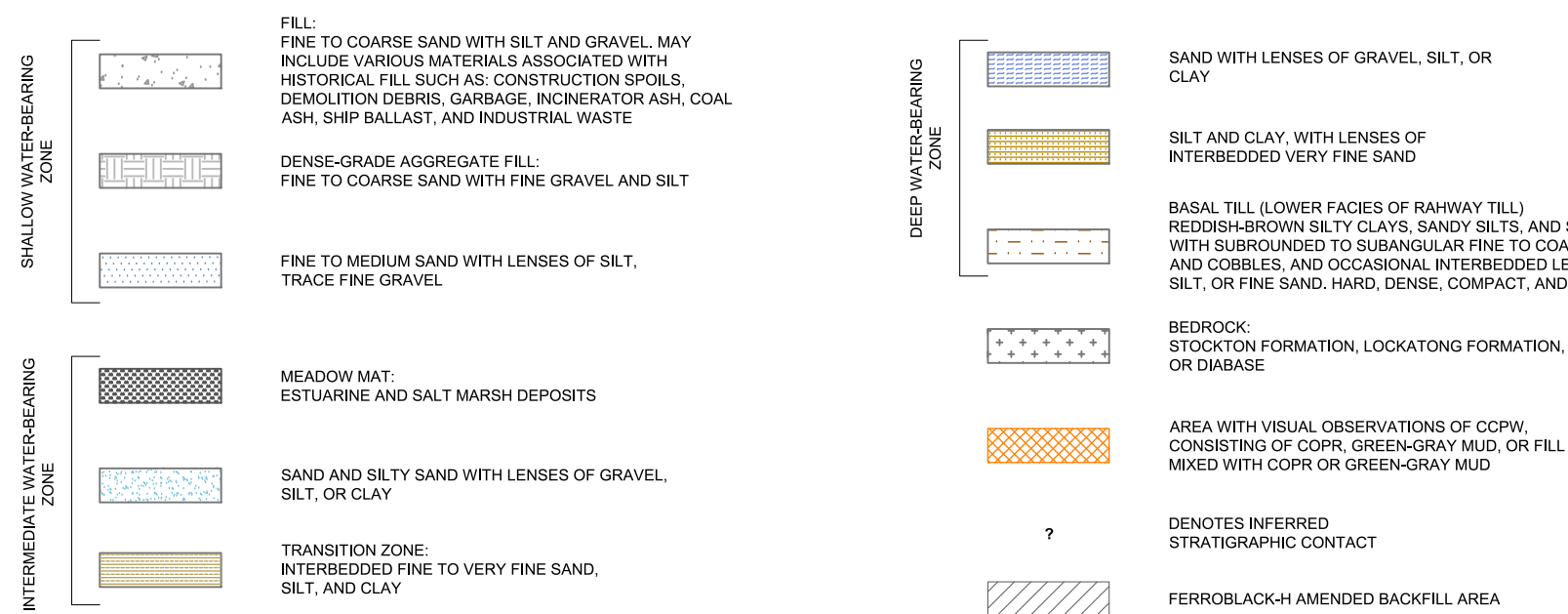
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LEGEND



STRATIGRAPHY



NOTES:

- ELEVATIONS ARE SHOWN IN FT NAVD88.
- THE GWQS FOR Cr IS 70 ug/L.
- 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.
- 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.
- RESULTS PRESENTED ARE FROM THE ANALYSIS OF UNFILTERED GROUNDWATER SAMPLES.
- 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

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

EXHIBIT B-2B

DATE: 8/16/2021

DRWN: GDS