



## State of New Jersey

### DEPARTMENT OF ENVIRONMENTAL PROTECTION

Site Remediation and Waste Management Program  
Bureau of Ground Water Pollution Abatement

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PHIL MURPHY  
*Governor*

SHEILA OLIVER  
*Lt. Governor*

CATHERINE R. MCCABE  
*Commissioner*

14 June 2018

Maria Kaouris, Remediation Manager  
Honeywell International, Inc.  
115 Tabor Road  
Morris Plains, NJ 07950

Re: Revised Classification Exception Area/Well Restriction Area  
Study Area 6; Hudson County Chromate Sites 73, 87, 88, 124, 125, 134 and 140  
425, 445 & 465 Route 440  
Jersey City, Hudson County  
Program Interest Number: PI# 008809  
Subject Item ID: CEA100167476

Dear Ms. Kaouris,

The New Jersey Department of Environmental Protection (Department) established a Classification Exception Area/Well Restriction Area (CEA/WRA) for contamination in the ground water at these sites on 16 February 2012. Although contamination in the ground water in this area remains above the Ground Water Quality Standards (N.J.A.C. 7:9C-1.7), additional data has been provided which necessitates a revision to the established CEA to more accurately reflect ground water conditions. The Department has based this determination on environmental data provided by Dennis Nagg of Wood Environment & Infrastructure Solutions, Inc., received by the Department on 15 May 2018. The Department has revised the CEA/WRA for the shallow fill at Study Area 6 to reflect the soil remediation performed there, as described by the enclosed CEA Fact Sheet. Previously approved CEAs for the deep overburden (glacial till) and bedrock (Passaic Formation) remain unchanged.

The shallow ground water contamination is attributed to the emplacement of Chromite Ore Processing Residue (COPR) at the sites referenced above. Subsequent soil remediation at Study Area 6 North and South included excavation and off-site disposal of some of the chromium-impacted soil, and excavation and consolidation of some of the chromium-impacted soil in the contained and capped "Open Space" areas.

Attainment of the Ground Water Quality Standards would need to be confirmed through sampling. Consistent with N.J.A.C. 7:26C-7.3, the CEA/WRA may also be revised or removed at any time based on new relevant data to more accurately reflect ground water conditions.

Thank you for your attention to this matter. If you have any comments or questions regarding this CEA/WRA, please contact David Van Eck at (609) 633-2427.

Sincerely,

A handwritten signature in black ink, appearing to read "Mary Anne Kuserk". The signature is fluid and cursive, with the first name "Mary" and last name "Kuserk" being the most prominent parts.

Mary Anne Kuserk, Chief  
Bureau of Ground Water Pollution Abatement

Enclosure

c: Dennis Nagg, Wood Environment & Infrastructure Solutions  
Rolando R. Lavarro, Jr., Jersey City Redevelopment Agency  
Jeremy Farrell, Jersey City Municipal Utilities Authority  
Carrie Nawrocki, Hudson County Regional Health Commission (CEHA)  
Francesca Giarratana, Hudson County Division of Planning  
Stacey Flanagan, Department of Health & Human Services  
E. Junior Maldonado, Hudson County Clerk  
Robert Byrne, RMC, Jersey City Clerk

# Classification Exception Area/Well Restriction Area

## Case Information

<u>Subject Item</u>	<u>Designation</u>
CEA100167476	G000008789-Shallow
CEA100167477	G000008789-Deep Overburden
CEA100167478	G000008789-Bedrock

**Case ID:** 008809 - RPC050001  
**Case Number:** CR 117 RYERSON STEEL  
**Preferred Id:** 008809  
**Case:** Hudson County Chromate 117  
**Address:** 440 Rte 440  
  
**City:** Jersey City  
**County:** Hudson

### Lot and Block of the Case

<u>Block</u>	<u>Lot</u>
26101	1

**Site Location: Refer to Exhibit A – Site Location Map**

### Lots and Blocks of the CEAs (All in Jersey City, Hudson County) (Shallow CEAs in overburden fill)

Subject Item CEA100167476 [CEA A]		Subject Item CEA100167476 [CEA B]		Subject Item CEA100167476 [CEA C]	
SA-6 North Open Space		SA-6 South Open Space		SA-5 East of Route 440	
BLOCK	LOT	BLOCK	LOT	BLOCK	LOT
21901	5	24601	1	21901	6
21901	9	24601	2	21901	7
21901	10	24601	3	21901	8
		24601	4	21902	1
		24601	5	21902	2.01
		24601	6	21902	2.02
		24601	7	21902	13.01
		24601	8	21902	14.01
				21902	14.02
				21902.01	1
				21902.03	1
				21902.04	1
				22001	4
				24601	8
				24602	1
				26101	1.01
				26101	1.02
				26101	3
				26101	9

Subject Item CEA100167477		Subject Item CEA100167478	
Deep Overburden		Bedrock	
BLOCK	LOT	BLOCK	LOT
26101	1.01	26101	1.01
26101	1.02	26101	1.02
16001	1	16001	1
16001	4	16001	4
		16001	6
16001	7	16001	7
16001	8	16001	8
21901	1	21901	1
21901	2	21901	2
21901	3	21901	3
21901	4	21901	4
21901	5	21901	5
21901	6	21901	6
21901	7	21901	7
21901	8	21901	8
21901	9	21901	9
21901	10	21901	10
21902	1	21902	1
21902	2.01	21902	2.01
21902	2.02	21902	2.02
21902	13.01	21902	13.01
21902	14.01	21902	14.01
21902	14.02	21902	14.02
21902	14.03	21902	14.03
21902.01	1	21902.01	1
21902.02	1	21902.02	1
21902.03	1	21902.03	1
21902.04	1	21902.04	1
21902.04	2	21902.04	2
22001	4	22001	4
		22002	1
		22003	3
22003	16	22003	16
22004	1	22004	1
		24601	1
		24601	2
		24601	3
		24601	6
24601	7	24601	7
24601	8	24601	8
24601	9		
24601	10		
		24601	11
24601	12		
24602	1		
26102	2		
		26102	17
		26102	20

**Facility Contact(s)**

**Responsible Party(s):** Maria Kaouris, Remediation Manager  
 Honeywell International, Inc.  
 115 Tabor Road  
 Morris Plains, NJ 07950

**NJDEP Contact:** Bureau of Ground Water Pollution Abatement  
 Phone: (609) 292-8427

**CEA Information**

<u>Subject Item</u>	<u>Description</u>
CEA100167476	Shallow Fill Layer
CEA100167477	Deep Overburden below Meadow Mat
CEA100167478	Bedrock Aquifer (Passaic Formation)

<u>Subject Item</u>	<u>Affected Formation</u>	<u>Vertical Depth</u>
CEA100167476	Fill	20
CEA100167477	Glacial Till	20 to 90
CEA100167478	Passaic Formation	90 to 110

<u>Subject Item</u>	<u>Classification</u>
CEA100167476	II-A
CEA100167477	II-A
CEA100167478	II-A

**Contaminant**

This CEA/WRA applies only to the contaminants listed in the table below. The ground water quality criteria / primary drinking water standards for these contaminants are listed in micrograms per liter (µg/L). All constituent standards (N.J.A.C. 7:9C-1.6) apply at the designated boundary.

<u>Subject Item</u>	<u>Contaminant</u>	<u>Concentration (1)</u>	<u>GWQS (2)</u>
CEA100167476	Chromium	229000 Micrograms Per Liter	70 Micrograms Per Liter
CEA100167476	Chromium (VI)	115000 Micrograms Per Liter	70 Micrograms Per Liter
CEA100167477	Chromium	7330 Micrograms Per Liter	70 Micrograms Per Liter
CEA100167477	Chromium (VI)	6920 Micrograms Per Liter	70 Micrograms Per Liter
CEA100167478	Chromium	440000 Micrograms Per Liter	70 Micrograms Per Liter
CEA100167478	Chromium (VI)	446000 Micrograms Per Liter	70 Micrograms Per Liter

Note: (1) Maximum concentration detected at the time of CEA establishment  
 (2) Ground Water Quality Standards

**CEA Boundaries: Refer to Exhibit B –CEA Boundary Maps**

**Projected Term of CEAs:**

<u>Subject Item</u>	<u>Date Established</u>
CEA100167476	1/1/2012
CEA100167477	1/1/2012
CEA100167478	1/1/2012

<u>Subject Item</u>	<u>Duration in Years</u>
CEA100167476	Indeterminate
CEA100167477	Indeterminate
CEA100167478	Indeterminate

<u>Subject Item</u>	<u>Anticipated Expiration Date</u>
CEA100167476	
CEA100167477	
CEA100167478	

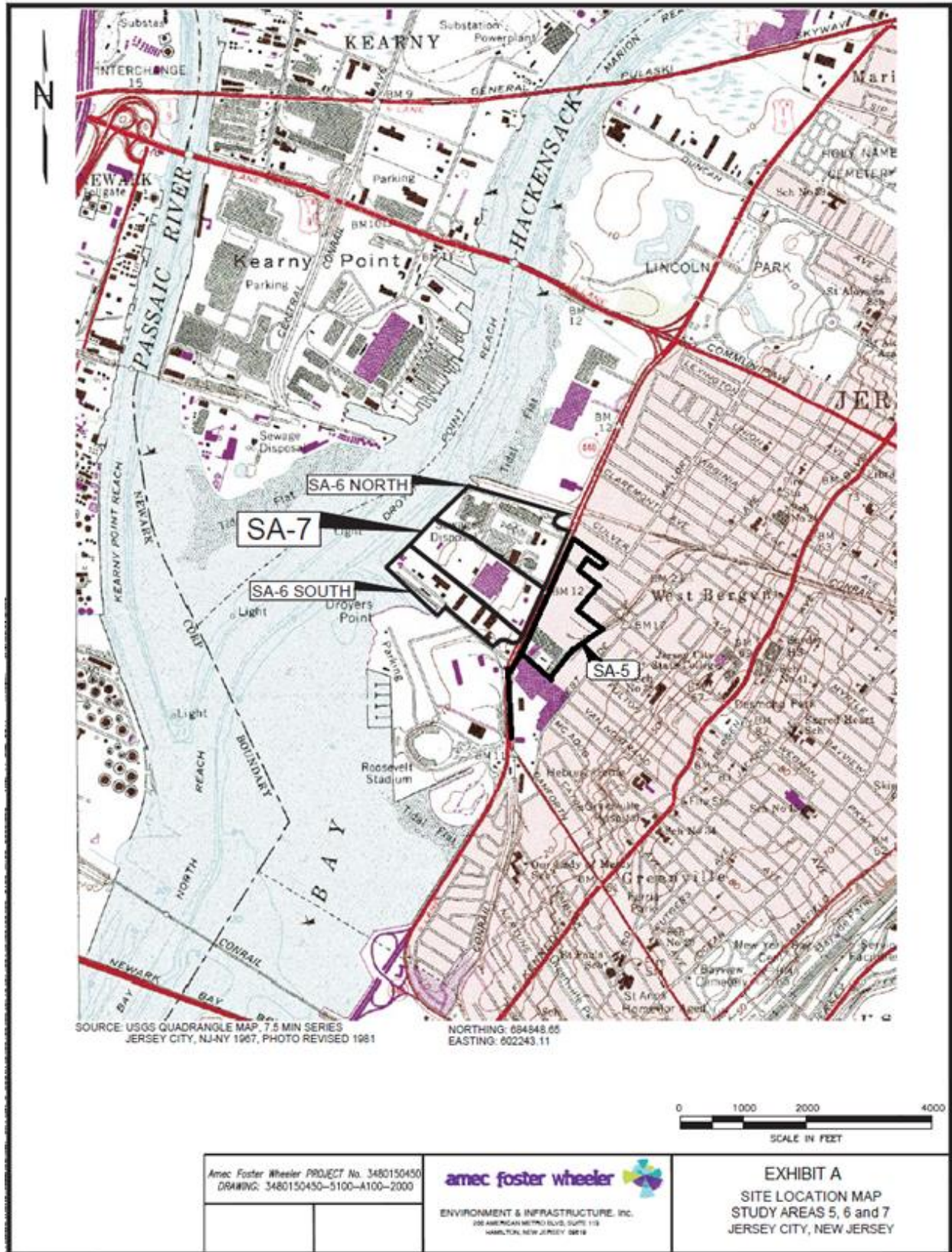
**Comment:** The shallow groundwater contamination is attributed to the emplacement of Chromite Ore Processing Residue (COPR) at several contiguous Chrome Sites near the former Mutual Chemical Plant (HCC Site 117), collectively known as Study Areas 5, 6 and 7. COPR at Study Area 7 (HCC Sites 115, 120 and 157) was excavated and disposed off-site. The CEA was originally established in 2012. Subsequent soil remediation at Study Areas 6 North and 6 South included excavation and off-site disposal of some of the chromium-impacted soil, and excavation and consolidation of some of the chromium-impacted soil in the contained and capped “Open Space” areas, which are not to be developed. The shallow CEA has been revised accordingly.

**Note:** Since groundwater quality data indicates exceedance of contaminants above the Primary Drinking Water Standards, and the designated uses of Class II-A aquifers include potable use, the CEA established for this site is also a Well Restriction Area. The extent of Well Restriction shall coincide with the boundaries of the CEA.

**Well Restrictions set within the boundaries of the CEAs**

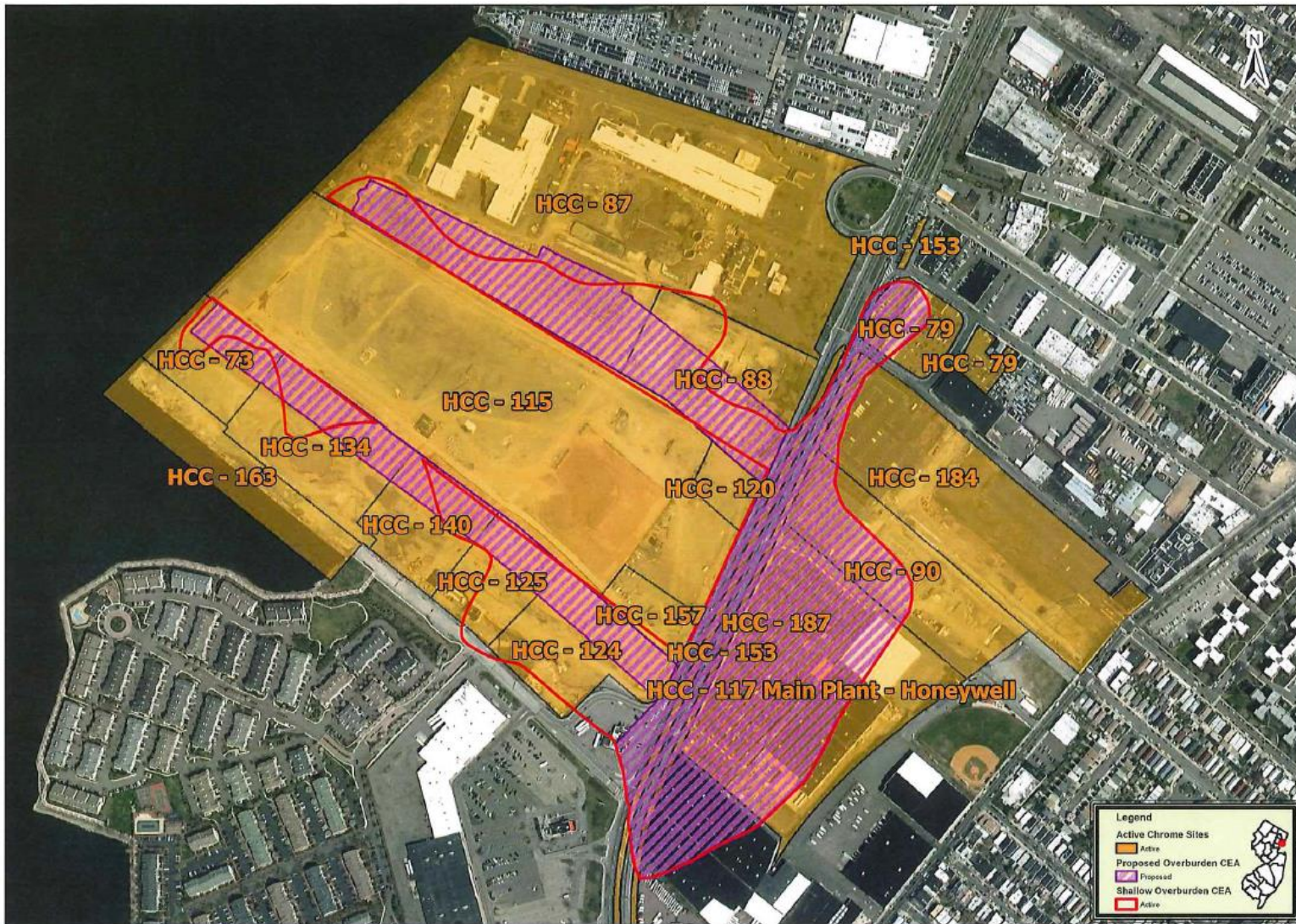
<u>Subject Item</u>	<u>Restriction</u>
CEA100167476	Double Case Wells: With the exception of monitoring wells installed into the first water bearing zone, any proposed well to be installed within the CEA/WRA boundary shall be double cased to an appropriate depth in order to prevent any vertical contaminant migration pathways. This depth is either into a confining layer or 50 feet below the vertical extent of the CEA.
CEA100167477	Double Case Wells: With the exception of monitoring wells installed into the first water bearing zone, any proposed well to be installed within the CEA/WRA boundary shall be double cased to an appropriate depth in order to prevent any vertical contaminant migration pathways. This depth is either into a confining layer or 50 feet below the vertical extent of the CEA.
CEA100167478	Double Case Wells: With the exception of monitoring wells installed into the first water bearing zone, any proposed well to be installed within the CEA/WRA boundary shall be double cased to an appropriate depth in order to prevent any vertical contaminant migration pathways. This depth is either into a confining layer or 50 feet below the vertical extent of the CEA.

Exhibit A – Site Location Map





# Honeywell Main Facility Shallow Overburden Aquifer - PI #008809; Subject Item ID 167476







# Honeywell Main Facility Deep Overburden Aquifer - PI #008809; Subject Item ID 167477





# Honeywell Main Facility Bedrock Aquifer - PI #008809; Subject Item ID 167478

