Case Name: Garfield Avenue Group Chrome Sites

PI #: G000005480, G000008749, 629345, 025695, 246332, G000008753, G000008759, 777089, 722429, 775706, 775998, 629388

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AOC ID	AOC Type	AOC Description	Confirmed Contamination	AOC Status	Status Date	Incident #	DEP AOC Number	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
Site 114 - Soil	Environmental media - Media Soil, including soil vapor pore spaces	Hudson County Chrome (HCC) Site 114; NJDEP PI G000005480; Former chromium chemical production facility; hexavalent chromium impacted soil and manufactured gas plant (MGP) impacted soil under Public Service Electric & Gas Company (PSEG)	Yes	RAW	12/31/2017	TMS #: N13-8760, Activity #: UCL130001 under Facility ID # 554479 (Tanks 3 and 4) TMS #: N11-7757, Activity #: UCL110001 under Facility ID # 554479 (Tanks 1 and 2) 16-03-23-1526 (Historic Fill)		Soil	Metals + PCBs	VO + PAHs	Other	AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Excavation	Capping		Yes	The most widespread contaminants of concern (COCs) observed in soil at Site 114 were hexavalent chromium (Cr+6) and chromate chemical production waste (CCPW) metals. Additional COCs include target analyte list (TAL) metals, polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, extractable petroleum hydrocarbons (EPH), and total petrolum hydrocarbons (TPH). The VOCs and SVOCs are mainly related to former PSEG MGP operations at Site 114. For the Garfield Avenue Group (GAG) Sites and adjacent areas, the New Jersey Department of Environmental Protection (NJDEP) has approved an Alternative Remedial Standard (ARS) for vanadium (V) of 390 milligram per kilogram (mg/kg) for use in place of the Residential Direct Contact Soil Remediation Standard (RDCSRS). Site-specific impact to ground water (IGW) soil remediation standards (SRS) have been calculated using the synthetic precipitation leaching procedure (SPLP) method for nickel (Ni) and antimony (Sb). The site specific standard is 62.7 mg/kg for Sb and 170 mg/kg for Ni. Site 114 has been extensively investigated as documented in the 2003 Remedial Investigation Work Plan (RIWP), the 2006 Remedial Investigation Report (RIR), the 2006 RIWP, the September 2006 RIWP, the March 2011 RIWP, and the 2012 RIR. Intermittent supplemental soil remedial investigation was conducted on adjacent properties betweeen August 31, 2011 and January 25, 2017 to complete the remedial investigation phase as documented in the 2018 Supplemental Soil Remedial Investigation Report (SSRIR). Delineation of COCs on and adjacent to Site 114 has been completed. The excavation of chromium-impacted soil was conducted between July 2010 and November 2014. Clean fill for a majority of the Site was amended with FerroBlack-H. This water-based suspension of ferrous iron and sulfide is designed to prevent the backfill from being contaminated by chromium-impacted ground water and to support ground water remediation.
Garfield Avenue Group - Ground water	Environmental media - Media Ground water	NJDEP PI G000005480; Sitewide ground water impacted by CCPW metals including Chromium and other contaminations of concern (COCs) on or emanating from Site 114 associated with historical operations at Site 114	Yes	RI	12/31/2017			Ground Water	Metals	VO	PAHs	Remediation Standards	Ground Water		Hot spot removal	Chemical Reduction	Chemical Injection	Yes	Total chromium (Cr) and Cr+6 are the primary COCs in the area. COCs other than Cr+6 and Cr were reported less frequently than Cr+6 and Cr at concentrations exceeding the NJDEP Groundwater Quality Standards (GWQS). These COCs include: TAL Metals, VOCs and SVOCs. Ground water sampling has been conducted periodically between June 2011 and December 2016. The excavation of chromium-impacted soil conducted between July 2010 and November 2014 was the first phase of ground water remediation. The application of the FerroBlack-H amendment serves as a second phase of ground water remediation. Two in-situ treatment technologies, including a bioprecipitation approach and an abiotic chemical reduction process, were pilot tested at Site 114. Performance monitoring of these pilot tests is ongoing and has shown effectiveness at reducing Cr+6 concentrations. Remedial Investigation of ground water is the next phase of work. Site is located within PSEG Classification Exception Area (CEA) that addresses MGP ground water impacts.
Site 132 - Soil	Environmental media - Media Soil, including soil vapor pore spaces	HCC Site 132 Town & Country Linen NJDEP PI G000008749; 824 Garfield Avenue - Chromate Chemical Production Waste (CCPW)-impacted material likely used as fill	Yes	RAW	12/31/2017			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Excavation	Capping		Yes	Hexavalent chromium and CCPW metals are the primary COCs in the area. Borings advanced during the 2011 Soil Remedial Investigation (RI) completed the delineation of Cr+6 and TAL metals on Site 132. The ARS and site-specific IGW standards applicable to Site 114 also apply at Site 132 and adjacent properties. Excavation of chromium-impacted soil in the Phase 3A portion of Site 132 was conducted between April 2014 and September 2014, while excavation in the Phase 3B North portion of Site 132 was ongoing between May 2014 and April 2015. Clean fill for a portion of the site was amended with FerroBlack-H.
Site 133 East - Soil	Environmental media - Media Soil, including soil vapor pore spaces	HCC Site 133; 22 Halladay Street - NJDEP PI 025695; CCPW-impacted material likely used as fill; soil impacted by constituents emanating from Site 114	Yes	RAW	12/31/2017	91-10-31-1015-10 BUST C1; 15-08-14-1056-26; 91 11-04-1622-52 BUST C-2		Soil	Metals	PAHs		AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Excavation	Capping		Yes	Hexavalent chromium and CCPW metals are the primary COCs in the area. An additional COC at Site 133 is naphthalene. Naphthalene appears to be emanating from Site 114 onto Site 133 East and will be addressed under the Administrative Consent Order/Judicial Consent Order (ACO/JCO). Remedial investigaton of Site 133 and adjacent properties was documented in the 2012 RIR. Additional borings have been advanced since 2012 and delineation is now complete for Cr+6 and CCPW metals. The ARS and site-specific IGW standards applicable to Site 114 also apply at Site 133 East and adjacent properties. On the Site 133 East property (portion of Site 133 east of Halladay Street), the building was demolished in October 2014. Excavation of chromium-impacted soil began in April 2015 and was completed in October 2015. Grids located adjacent to Site 135 and the former Al Smith Moving building were excavated and were backfilled as part of the remediation activites at Site 135 and the former Al Smith Moving property. Backfill placed in the northern portion of the site is amended with FerroBlack-H. The southern portion of the Site requires additional remediation in conjunction with excavation at Ten West Apparel. PPG has retained a Licensed Site Remediation Professional (LSRP) to address non-chromium contamination, including VOCs, SVOCs, PCBs, metals and petroleum, from prior site operations unrelated to PPG.
Site 133 West - Soil	Environmental media - Media Soil, including soil vapor pore spaces	HCC Site 133; 15 Halladay Street - NJDEP PI 629345; CCPW-impacted material likely used as fill	Yes	RAW	12/31/2017	91-10-31-1015-10 BUST C1; 15-08-14-1056-26; 91 11-04-1622-52 BUST C-2		Soil	Metals	Not Applicable		AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Excavation	Capping		Yes	Hexavalent chromium and CCPW metals are the primary COCs in the area. Remedial investigaton of Site 133 and adjacent properties was documented in the 2012 RIR. Delineation is complete for Cr+6 and CCPW metals. The ARS and site-specific IGW standards applicable to Site 114 also apply at Site 133 West and adjacent properties. Remediation on the Site 133 West property (portion of Site 133 west of Halladay Street) is anticipated to begin Fall 2020. PPG has retained a Licensed Site Remediation Professional (LSRP) to address non-chromium contamination, including VOCs, SVOCs, PCBs, metals and petroleum, from prior site operations unrelated to PPG.
Site 135 - Soil	Environmental media - Media Soil, including soil vapor pore spaces	HCC Site 135; 51-99 Pacific Avenue - NJDEP PI 246332; CCPW-impacted material likely used as fill Excludes Magnets (EAM Distribution Inc.) E20150188 Activity # LSR150001 under PI #032733	Yes	RAW	12/31/2017	198-12-02-1612-59 BUST C1; 16-07-14-1244-45; 16-04-13-1350-52; 16-12-06-1600-24		Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Excavation	Capping		Yes	Hexavalent chromium and CCPW metals are the primary COCs in the area. Remedial investigaton of Site 135 and adjacent properties was documented in the 2012 RIR. Additional borings have been advanced since 2012 as documented in the 2018 SSRIR. Delineation of Cr+6 and CCPW metals at Site 135 and adjacent properties is now complete. The ARS and site-specific IGW standards applicable to Site 114 also apply at Site 135 and adjacent properties. Six of the seven buildings were demolished between January 2016 and April 2016. Excavation of chromium-impacted soil and the placement of clean backfill in the northern portion of Site 135 began in February 2016 and was completed in July 2016. The final building (Building 51) was demolished between October 2016 and November 2016. Excavation of chromium-impacted soil in the southern portion of Site 135 (excluding Building 51) began in March 2016 and was completed in August 2016, while the excavation of the Building 51 portion of Site 135 began in November 2016 and was completed in February 2017. It should be noted that the grids in Site 135 South located adjacent to the former Al Smith Moving building and Building 51 have been excavated and were backfilled as part of the remediation activites at the former Al Smith Moving property. PPG has retained an LSRP to address non-chromium contamination, including VOCs, SVOCs, PCBs, metals and petroleum, from prior site operations unrelated to PPG.

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Site 137 - Soil	Environmental media - Media Soil, including soil vapor pore spaces	HCC Site 137; 25 and 45 Halladay - NJDEP PI G000008753; CCPW stockpiled onsite from processing plant; CCPW-impacted soil; soil impacted by constituents emanating from Site 114	Yes	RAW	12/31/2017			Soil	Metals	VO + PAHs		AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Excavation	Capping		Yes	Hexavalent chromium and CCPW metals are the primary COCs in the area. Additional COCs at Site 137 include naphthalene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, and benzene. These additional COCs appear to be emanating from Site 114 onto the northern portion of Site 137 and will be addressed under the ACO/JCO. Remedial investigaton of Site 137 and adjacent properties was documented in the 2012 RIR. Additional borings have been advanced since 2012 on adjacent properties as documented in the 2018 SSRIR. Delineation of Cr+6 and CCPW metals at Site 137 and adjacent properties is now complete. The ARS and site-specific impact to ground water standards described above also apply at Site 137 and adjacent properties. PPG demolished the building at 25 Halladay Street between August and September 2013 and the building at 45 Halladay Street between March and April 2014. Excavation of chromium-impacted soils was conducted between July 2014 and May 2015 for 45 Halladay Street and a portion of 25 Halladay Street. Clean fill for a majority of the site was amended with FerroBlack-H. Remediation of the southern portion of the 25 Halladay Street property is anticipated to begin Fall 2020. PPG has retained an LSRP to address non-chromium contamination, including VOCs, SVOCs, PCBs, metals and petroleum, from prior site operations unrelated to PPG.
Site 143 - Soil	Environmental media - Media Soil, including soil vapor pore spaces	HCC Site 143; 846 Garfield Avenue - NJDEP PI G000008759; CCPW-impacted material likely used as fill	Yes	RAW	12/31/2017			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Excavation	Capping		Yes	Hexavalent chromium and CCPW metals are the primary COCs in the area. Remedial investigaton of Site 143 and adjacent properties was documented in the 2012 RIR. Additional borings have been advanced since 2012 as documented in the 2018 SSRIR. Delineation of Cr+6 and CCPW metals at Site 143 and adjacent properties is now complete. The ARS and site-specific impact to ground water standards described above also apply at Site 143 and adjacent properties. The building at Site 143 was demolished between June and July 2013. Excavation of chromium-impacted soil at Site 143 was conducted between March 2014 and July 2014. Clean fill for a majority of the Site was amended with FerroBlack-H. Additional excavation of chromium-impacted soil was conducted at the Site between October 2017 and November 2017. PPG has retained an LSRP to address non-chromium contamination, including VOCs, SVOCs, PCBs, metals and petroleum, from prior site operations unrelated to PPG.
Forrest Street and Forrest Street Properties - Soil	Environmental media - Media Soil, including soil vapor pore spaces	NJDEP PI 775706; 78, 84, 86, 90, 98, and 100 Forrest Street - CCP)-impacted material likely used as fill; soil impacted by constituents emanating from Site 114	Yes	RAW	12/31/2017			Soil	Metals	VO + PAHs		AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Excavation	Capping			Hexavalent chromium and CCPW metals are the primary COCs in the area. Additional COCs at Forrest Street and Forrest Street Properties (FSP) include benzene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and naphthalene. These additional COCs appear to be emanating from Site 114 onto FS and FSP and will be addressed under the ACO/JCO. Remedial investigaton of FS, FSP and adjacent properties was documented in the 2012 RIR. Additional borings have been advanced since 2012 as documented in the 2018 SSRIR. Delineation is now complete for Cr+6 and CCPW metals. Naphthalene and PAHs at one location require additional delineation. Any further data deemed necessary to address delineation will be captured through remedial action activities and related reporting. The ARS and site-specific IGW standards applicable to Site 114 also apply at FSP and adjacent properties. Excavation in the accessible areas of Forrest Street and Forrest Syreet Properties for chromium-impacted soils. Clean fill for a majority of the Site was amended with FerroBlack-H. Portions of Forrest Street and Forrest Street Properties known as the deferred remediation area are currently inaccessible and are being addressed through a Remedial Action Work Plan.
Fishbein - Soil	Environmental media - Media Soil, including soil vapor pore spaces	NJDEP PI 629388; 816 Garfield Avenue - CCPW-impacted material likely used as fill	Yes	RI	12/31/2017			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation					Hexavalent chromium and CCPW metals are the primary COCs in the area. Remedial investigaton of the former Fishbein property and adjacent properties was documented in the 2012 RIR. Additional borings have been advanced since 2012 as documented in the 2018 SSRIR. Delineation is now complete for Cr+6 and CCPW metals. The ARS and site-specific IGW standards applicable to Site 114 also apply at the former Fishbein property and adjacent properties. Remediation of the former Fishbein property is anticipated to begin Fall 2020. PPG has retained a LSRP to address non-chromium contamination, including VOCs, SVOCs, PCBs, metals and petroleum, from prior site operations unrelated to PPG.
Ten West Apparel - Soil	Environmental media - Media Soil, including soil vapor pore spaces	NJDEP PI 777089; 800 Garfield Avenue - CCPW-impacted material likely used as fill	Yes	RI	12/31/2017			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation					Hexavalent chromium and CCPW metals are the primary COCs in the area. Remedial investigaton of the former Ten West Apparel property and adjacent properties was documented in the 2012 RIR. Additional borings have been advanced since 2012 as documented in the 2018 SSRIR. Delineation is complete for CCPW metals. During PDI sampling instances of hexavalent chromium greater than the CrSCC were encountered outside the area delineated as part of the SSRIR. Any further data deemed necessary to address delineation will be captured through remedial action activities and related reporting The ARS and site-specific IGW standards applicable to Site 114 also apply at the former Ten West Apparel property and adjacent properties. Remediation of the former Ten West Apparel property is anticipated to begin Fall 2020. PPG has retained a LSRP to address non-chromium contamination, including VOCs, SVOCs, PCBs, metals and petroleum, from prior site operations unrelated to PPG.
Halladay Street South - Soil	Environmental media - Media Soil, including soil vapor pore spaces	Halladay Street South Between Carteret Ave and Caven Point Ave; Chromate Chemical Production Waste (CCPW)-impacted material likely used as fill; soil impacted by constituents emanating from Site 114	Yes	RAW	12/31/2017			Soil	Metals	VO + PAHs		AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Excavation	Capping			Hexavalent chromium and CCPW metals are the primary COCs in the area. Additional COCs at Halladay Street South (HSS) include benzene, ethylbenzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, and 2-methylnaphthalene. These additional COCs appear to be emanating from Site 114 onto HSS and will be addressed under the ACO/JCO. Remedial investigaton of HSS and adjacent properties was documented in the 2012 RIR. Additional borings have been advanced since 2012 on adjacent properties as documented in the 2018 SSRIR. Delineation is now complete for Cr+6 and CCPW metals. The ARS and site-specific IGW standards applicable to Site 114 also apply at HSS and adjacent properties. The excavation of chromium-impacted soil and the placement of clean backfill for the majority of HSS (Grid Columns 20A through 41A) began in April 2015 and was completed in July 2016. Clean fill for a majority of the site was amended with FerroBlack-H. The grids in HSS adjacent to Ten West Apparel (Grid Columns 42A through 47A) will be excavated and backfilled with the Phase 3B South remediation activities anticipated to begin Fall 2020.
Halsted Corporation - Soil	Environmental media - Media Soil, including soil vapor pore spaces	NJDEP PI 722429; 78, 94, 98, 100, 102, and 104 Halladay Street - CCPW-impacted material likely used as fill; soil impacted from Site 114 emanating from contaminants	Yes	RI	12/31/2017			Soil	Metals	VO + PAHs		AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation					Hexavalent chromium and CCPW metals are the primary COCs in the area. Additional COCs at the former Halsted property include benzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, naphthalene, and 2-methylnaphthalene. These additional COCs appear to be emanating from Site 114 onto the former Halsted property and will be addressed under the ACO/JCO. Remedial investigaton of the former Halsted property and adjacent properties was documented in the 2012 RIR. Additional borings have been advanced since 2012 as documented in the 2018 SSRIR. Additional delineation is required for Cr+6 and CCPW metals. Any further data deemed necessary to address delineation will be captured through remedial action activities and related reporting The ARS and site-specific IGW standards applicable to Site 114 also apply at the former Halsted property and adjacent properties. PPG has retained a LSRP to address non-chromium contamination, including VOCs, SVOCs, PCBs, metals and petroleum, from prior site operations unrelated to PPG.
Al Smith Moving - Soil	Environmental media - Media Soil, including soil vapor pore spaces	NJDEP PI 775998; 33 Pacific Avenue - CCPW-impacted material likely used as fill	Yes	RAW	12/31/2017			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Excavation				Hexavalent chromium and CCPW metals are the primary COCs in the area. Remedial investigaton of the former Al Smith Moving (ASM) property and adjacent properties was documented in the 2012 RIR. Additional delineation of Cr+6 and CCPW metals is required adjacent to ASM in Pacific Avenue and Caven Point Avenue and will be documented in a future submittal. The ARS and site-specific IGW standards applicable to Site 114 also apply at the former ASM property and adjacent properties. The former ASM building demolition was complete in August 2017. The excavation of chromium-impacted soils and the placement of clean backfill at the former ASM property began in August 2017 and was completed in February 2018.
Carteret Avenue - Soil	Environmental media - Media Soil, including soil vapor pore spaces	Carteret Avenue between Garfield Avenue and Pacific Avenue; CCPW-impacted material likely used as fill	Yes	RI	12/31/2017			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation					Hexavalent chromium and CCPW metals are the primary COCs in the area. Remedial investigaton of Carteret Avenue and adjacent properties was documented in the 2012 RIR. Additional borings have been advanced since 2012 and delineation is now complete for Cr+6 and CCPW metals. As per the ACO/JCO, an "emanating from" memorandum for Carteret Avenue will be prepared and submitted prior to remediation to discuss any additional potential COCs emanating from Site 114. The ARS and site-specific IGW standards applicable to Site 114 also apply at Carteret Avenue and adjacent properties. Remediation of Carteret Avenue is anticipated to begin Winter 2018.

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Halladay Street North - Soil	Environmental media - Media Soil, including soil vapor pore spaces	Halladay Street between Carteret Avenue and Forrest Street; CCPW-impacted material likely used as fill; soil impacted from Site 114 emanating from contaminants	Yes	RI	12/31/2017			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation					Hexavalent chromium and CCPW metals are the primary COCs in the area. Remedial investigaton of the Halladay Street North (HSN) Site and adjacent properties was documented in the 2012 RIR. Additional borings have been advanced since 2012 and delineation is now complete for Cr+6 and CCPW metals. As per the ACO/JCO, an "emanating from" memorandum for HSN will be prepared and submitted prior to remediation to discuss any additional potential COCs emanating from Site 114. The ARS and site-specific IGW standards applicable to Site 114 also apply at HSN and adjacent properties. Remediation of HSN is anticipated to begin Spring 2018.
Garfield Avenue - Soil	Environmental media - Media Soil, including soil vapor pore spaces	Garfield Avenue between Carteret Avenue and the light rail; CCPW-impacted material likely used as fill	Yes	RI	12/31/2017			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation					Hexavalent chromium and CCPW metals are the primary COCs in the area. Remedial investigaton of Garfield Avenue and adjacent properties was documented in the 2012 RIR. Additional borings have been advanced since 2012 as documented in the 2018 SSRIR and delineation is now complete for Cr+6 and CCPW metals. As per the ACO/JCO, an "emanating from" memorandum for Garfield Avenue will be prepared and submitted prior to remediation to discuss any additional potential COCs. The ARS and site-specific IGW standards applicable to Site 114 also apply at Garfield Avenue and adjacent properties.