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January 30, 2018

VIA FEDERAL EXPRESS AND EMAIL

The Honorable Barry P. Sarkisian, P.J. Ch.
Superior Court of New Jersey
Brennan Courthouse
583 Newark Avenue
Jersey City, New Jersey 07306

Re: **PROGRESS REPORT (July 29, 2017 through the date of this Report):** New Jersey Department of Environmental Protection, et al. v. Honeywell International, Inc. et al. v. City of Jersey City et al., Superior Court of New Jersey, Chancery Division, Hudson County, Civil Action No. HUD-C-77-05; Partial Consent Judgment Concerning the PPG Sites (the “**JCO**”)

Dear Judge Sarkisian:

I respectfully submit this Progress Report pursuant to my responsibilities as independent Site Administrator operating under the JCO. This Report covers the period July 29, 2017 through the date of this Report.

I am submitting this Progress Report pursuant to paragraph 1(b)(i)1 of the “Order Administratively Dismissing This Matter Without Prejudice and Retaining Jurisdiction” entered by Your Honor on May 4, 2016. That Order requires that I submit Progress Reports to the Court twice per year. This is my fourth Progress Report submitted to Your Honor. The prior Progress Reports were dated July 29, 2016, January 27, 2017 and July 28, 2017.

In addition to serving as Site Administrator, I am also serving as a Court-appointed Mediator pursuant to the February 22, 2016 “Order Referring Third-Party Complaint and Referring Certain Matters to Mediation and Entering Stay” (the “**Mediation Order**”). A summary of the progress of the Mediation is included in this Progress Report.

I. New Master Schedule: With the help and cooperation of all the JCO Parties, the Master Schedule dated July 28, 2017 was revised. A copy of the revised Master Schedule dated January 9, 2018 is enclosed.

II. Residential Inspection Program: When I started my tenure in January 2016 there were 47 properties remaining in the Residential Inspection Program that potentially required

inspection, sampling and/or remediation. As of the date of this Progress Report, only 1 of those properties requires further remediation. It is anticipated that field activities in connection with this remaining property will be completed in the first quarter of 2018.

III. IRM Inspection Program: Inspections of the Interim Remedial Measures (“**IRMs**”) in place at all of the PPG Sites are performed at varying frequencies depending upon numerous factors, such as the levels of contamination, the potential for exposures and the type of IRMs being utilized. The IRM inspections for the period covered by this Report confirmed that all of the IRMs remain effective.

IV. Access Settlements:

Site 107 (18 Chapel Avenue; Greenberg Property): As Your Honor is aware, a settlement was reached between PPG and this property owner in 2017. The principal tenant vacated the building in 4Q 2017. PPG is preparing to demolish the building by April 2018 and will commence remediation activities once the building is demolished.

Ten West Apparel Property (800 Garfield Avenue): In April 2017, a settlement, subject to execution of a written settlement agreement, was put on the record. As of January 25, 2018, the parties had not finalized the terms of the written settlement agreement. In the interim, the State of New Jersey, through the NJDEP, intervened to address the deadline for Ten West Apparel to vacate the property. Upon the application of PPG and the property owner, on January 26, 2018, Your Honor heard the arguments of the parties with respect to the unresolved terms and conditions of the settlement agreement and the timing for Ten West to vacate the property. On that date, Your Honor entered an Order directing the parties to execute the form of settlement agreement proposed by PPG within 10 days of the Order and to close the transaction within 30 days of execution of the settlement agreement. Your Honor also ordered that Ten West vacate the property within 2 years of the closing of the transaction.

V. Remediation Progress – Garfield Avenue Group (“GAG”) Sites¹:

I am pleased to report that significant progress has been made at the GAG Sites. Most importantly, excavation and backfilling of impacted soils at the GAG Sites is largely complete and the work at these sites has begun to move from the “dig and haul” phase of contaminated soils and debris to: (i) site restoration activities, and (ii) groundwater cleanup.

Site Restoration Activities: “Site restoration” means that, in those areas where the contaminated soils have been removed, efforts are now focused on backfilling, final grading, stormwater control, installation of engineering controls and other activities designed to “restore” the sites so that redevelopment can commence. In some areas, restoration activities also include installation of a “capillary break,” which is an engineering

¹ For the purpose of this Progress Report, the “GAG Sites” do not include the “GAG Roadways” and the “GAG Offsite Properties.” My July 29, 2016 Progress Report explains the differences between the “GAG Sites,” the “GAG Roadways” and the “GAG Offsite Properties,” including figures showing the locations of these properties/roadways.

control designed to prevent potentially-impacted groundwater from reaching the ground surface via capillary action.

NJDEP has approved PPG's Capillary Break Design Report, which addresses where the capillary break is to be installed at the GAG Sites and the type of material to be used for the break. With the exception of the roadways (such as Carteret Avenue) and those sites where access has not yet been secured (such as the Ten West Apparel property and parcels adjacent to it), the majority of the restoration at the GAG Sites is expected to be completed in the first quarter of 2018.

In the July 28, 2017 Master Schedule, an October 2017 milestone had been established for the completion of these restoration activities. This milestone, unfortunately, had to be delayed until the first quarter of 2018. This delay is reflected in the new Master Schedule. Various technical difficulties contributed to this delay, including the fact that numerous activities were taking place at the GAG Sites at the same time that made site restoration more difficult than expected, such as installation of new groundwater monitoring wells as part of the groundwater remedial investigation and installation of numerous injection wells and extraction wells as part of the new groundwater treatment program. In addition, in order to accommodate the injection and extraction wells and other infrastructure associated with the new groundwater treatment program, an existing above-ground facility located on Site 114 for the treatment of extracted groundwater had to be removed and a completely new facility had to be installed south of Carteret Avenue. This included installation of new piping from the groundwater extraction wells to the new treatment facility.

Groundwater Remedial Investigation and Treatment Program: PPG commenced implementation of an NJDEP-approved groundwater remedial investigation work plan designed to complete delineation of groundwater impacts at the GAG Sites. In addition, the first phase of a groundwater treatment program was commenced at the GAG Sites. This treatment program is intended to target chromium contamination in the water table through the use of, among other things, "biological" treatment agents that will reduce the chromium contamination without harm to the environment. The JCO Parties agreed to milestones for the groundwater remedial investigation and the groundwater remediation program. The milestones are included in the new Master Schedule. PPG expects the groundwater remediation program to achieve meaningful reductions in the total chromium concentrations in groundwater at the GAG Sites.

VI. Remediation Progress – GAG Roadways:

The GAG Roadways include portions of Halladay Street North, Forrest Street, Carteret Avenue and Garfield Avenue.² A summary of the status of each is set forth below.

Halladay Street North: Chromate chemical production waste ("CCPW") has been discovered under this roadway between Carteret Avenue and Forrest Street. PPG plans to excavate this material at the same time it conducts its cleanup at 78 Halladay Street (the former Halsted Bag Company property). The excavation is scheduled to commence in May 2018.

² See Figures 1 and 2 attached to the new Master Schedule (January 9, 2018).

Forrest Street: CCPW was identified in the soil under this roadway. PPG began excavation in March 2017 on both the Forrest Street roadway, as well as the Forrest Street Properties located adjacent to the roadway (see discussion of Forrest Street Properties below). Excavation of all chromium contaminated soils in Forrest Street is not possible at this time due to structural constraints, including but not limited to the presence of utilities and the proximity of buildings located on the Forrest Street Properties, as well as the impact to the businesses located in the buildings resulting from utility re-routing. The JCO Parties have agreed upon the implementation of a restricted use remedy for chromium contaminated soils in Forrest Street. The remedy involves leaving some chromium impacted soils in place with a combination of plastic liners and the use of the asphalt roadway to cap the remaining soils contamination in the roadway. It is understood that excavation of chromium impacted soils could become necessary upon future road construction and/or development of the Forrest Street Properties.

Garfield Avenue: PPG has substantially completed the investigation and delineation of chromium impacts in Garfield Avenue between Carteret Avenue and the Hudson Bergen Light Rail overpass. Garfield Avenue has numerous utilities and a main sewer line beneath it, which will make excavation of all chromium-impacted soils in Garfield Avenue difficult. Therefore, the JCO parties are considering a restricted use remedy for this roadway. This remedy would conceptually involve leaving contaminated soils in place with the asphalt roadway and other impermeable surfaces serving to cap the impacted soils. Like the remedy for Forrest Street, excavation of chromium impacted soils could become necessary upon future road construction and/or development of the Garfield Avenue right of way.

Carteret Avenue: The remediation plan for the Carteret Avenue section of the GAG Roadways is complicated by the presence of a 96 inch steel combined sewer pipe that extends from the intersection of Carteret Avenue and Garfield Avenue to beyond the intersection of Carteret Avenue and Pacific Avenue. The investigation of this roadway shows that soils contaminated by CCPW are in close proximity to large portions of the sewer pipe. Any remediation of the contaminated soils/materials that surround the pipe must be designed to avoid damaging the 100-year old pipe. Further complicating this project is the presence of a siphon in the sewer pipe that dips below the former Morris Canal.

In my last Progress Report, I noted that PPG, the City of Jersey City, the Jersey City Municipal Utilities Authority (“JCMUA”) and the Jersey City Redevelopment Agency (“JCRA”) had entered into a Memorandum of Understanding (“MOU”) in March 2017 with respect to the Carteret Avenue project. The MOU was designed to coordinate sewer pipe rehabilitation work to be undertaken by the City entities with the PPG remediation work in and around the sewer pipe. Attached to the MOU was an Implementation Schedule that called for, among other things, completion by the JCMUA of the design for the new sewer line by July 2017.

I am disappointed that the design for the new sewer line has not yet been finalized. This is a complex project. The City entities and PPG have been working in earnest to select the best path forward for this project. JCMUA and its design engineers have conducted additional

studies of the sewer line during this reporting period to verify the integrity and the precise location of the sewer pipe. Numerous meetings have been held to coordinate the construction/remediation activities and cost sharing issues between PPG and the City entities. In the November/December 2017 timeframe, PPG and the City entities exchanged proposals for the work activities. In addition, the JCO Parties have agreed upon a new Implementation Schedule, which will replace the Implementation Schedule attached to the March 2017 MOU. The new Implementation Schedule calls for the completion of the design for the new sewer in the second quarter of 2018. In addition, if all goes to plan, field work could commence in 4Q 2018 or 1Q 2019.

VII. Remediation Progress - GAG Offsite Properties

For the purpose of this Report, the GAG Offsite Properties include Site 135 North (portion of 51-99 Pacific Avenue), Site 135 South (remainder of 51-99 Pacific Avenue), the Al Smith Moving property located at 33 Pacific Avenue, the former Halsted Bag Company property located at 78-104 Halladay Street (now owned by PPG) and the Forrest Street Properties located at 90 to 98 Forrest Street.

Site 135 North: Excavation of CCPW-contaminated soils and backfilling of this site has been completed. Restoration of this site is expected to be completed in January 2018.

Site 135 South: Excavation of CCPW-contaminated soils and backfilling of this site has been completed. Restoration of this site (with the exception of the former Building 51 area which was done in conjunction with Al Smith Moving Property, see below) is expected to be completed in January 2018.

Al Smith Moving Property: Demolition of the building situated at the Al Smith Moving property was completed in August 2017. Delays were encountered in connection with the excavation of CCPW-contaminated soils at this site resulting from the discovery of an underground storage tank and a greater volume of impacted material than was anticipated. The July 28, 2107 Master Schedule called for an excavation complete milestone of September 2017. All excavation, backfilling and restoration activities at this site are now expected to be completed in March 2018.

Former Halsted Bag Company Property: All tenants vacated the building located on this property in 4Q 2017. Building demolition is expected to commence in April 2018. Excavation is expected to commence in May 2018.

Forrest Street Properties: PPG and the property owner reached a conceptual understanding regarding a remedial approach that calls for the excavation and backfilling of impacted soils in phases. This understanding is subject to a restricted area around the perimeter of and within the footprint of the buildings where excavation is currently prohibited so as to avoid structural damage to the buildings. Excavation and backfilling of the agreed upon areas outside of the buildings was completed during the reporting period. In light of the building structural restrictions, some impacted soils will remain under and in the proximity of the buildings located at this site that will be addressed at some future date when the property is

redeveloped or upon agreement between PPG and the property owner. NJDEP, PPG and the property owner are in discussions regarding the proposed restricted use remedy for these portions of the site. In the first quarter of 2018, PPG will submit a draft Remedial Action Work Plan to memorialize the proposed restricted use remedy for these properties. PPG will propose schedule milestones for implementation of the Remedial Action Work Plan within three months of NJDEP and property owner approval of the Remedial Action Work Plan.

VIII. Remediation Progress – The Non-GAG Sites

Site 156, Metropolis Towers:

Parking Lot: Supplemental excavation activities were conducted in 2017. Final approval of the remediation of this area awaits NJDEP review.

Boiler Room: An engineering control was installed in 2017. During routine inspections, minor issues were identified with respect to a floor coating that was applied in the boiler room. PPG will be repairing the issue areas and adding protective mats to the coating so that routine work in the boiler room does not damage the coating in the future.

Site 16, Linden Avenue East: PPG completed excavation and backfilling of the exterior area of this property in June 2015. PPG is to conclude its analysis of remedial alternatives for the warehouse building, secure the property owner's consent and propose a remedy to NJDEP by September 2018 for the areas under the building and outside the building along Linden Avenue East. The milestones for this site are based on the assumption that the remedy for the building includes demolition enabling full removal/excavation of contaminated material within the footprint of the building.

Site 63, Baldwin Oil: Excavation, backfilling and restoration of this site have been completed. In April 2017, NJDEP issued an RAR Determination letter for the on-site soils Area of Concern at this site confirming that the remediation had been performed in compliance with the requirements of applicable NJDEP regulations and guidance. The investigation/delineation of impacted groundwater at this site has commenced and is scheduled for completion in 2018.

Site 65, Burma Road/Morris Pesin Drive: PPG, the City, JCMUA and NJDEP entered into a settlement agreement dated January 9, 2018 that resolved a dispute amongst the parties as to the extent of PPG's responsibility for chromium impacts in this roadway. Pursuant to the settlement agreement, the remedy for this site will consist of institutional and engineering controls until such time as JCMUA undertakes work on a water utility line located within this roadway, at which time such work will be managed pursuant to NJDEP's Linear Construction Guidance.

Sites 107/108, Fashionland/Albanil: The access litigation between PPG and the owner of Site 107 was settled in April 2017. All tenants vacated the building located at this site in 4Q 2017. Demolition of the building located on this property and excavation of impacted

soils are expected to commence in 2Q 2018. A portion of Site 108, along the boundary of Site 107, is impacted by chromium. Remediation of that area will occur concurrently with the remediation of Site 107.

Site 174, Dennis Collins Park (Bayonne): The parties continue to await what has been a delayed response from the City of Bayonne with respect to a proposed Memorandum of Understanding (MOU) between PPG and the City setting forth the parties' understandings concerning the coordination of the City's redevelopment of the Park with the installation of a 2 ft. clean soil cap and other required engineering controls for the remediation of soils.

457 Communipaw Avenue: PPG conducted a site investigation of this site in 3Q and 4Q 2017 and verified CCPW impacts. A cleanup plan will be submitted to NJDEP, likely recommending a small-scale excavation.

Site 147, Weehawken: This site is located at 99 Baldwin Avenue, Weehawken. I am pleased to report that only minor reporting submittals are required to achieve regulatory closure of this site with respect to CCPW impacts.

IX. Mediation Proceedings

Pursuant to the Mediation Order, I was appointed as Mediator with respect to the following principal issues: (i) to attempt to obtain agreement among PPG, JCRA and Hampshire with respect to reimbursement of "incremental costs" that Hampshire and JCRA allege will be incurred during the redevelopment of the GAG Site properties (the "Hampshire-PPG Dispute"), and (ii) to attempt to obtain agreement among PPG, JCRA, and the City of Jersey City with respect to reimbursement of the City and JCRA for costs related to the replacement of City improvements/infrastructure that were damaged or removed during the remediation activities (the "City-PPG Dispute").

I held numerous mediation sessions in 2017 with PPG, JCRA, the City and Hampshire. As a result of those mediation sessions, as well as the remediation progress at the GAG Sites, including the site restoration activities addressed in this Report, many issues relating to both disputes have been either significantly clarified or are no longer in dispute.

As to the Hampshire-PPG dispute, some issues were clarified through mediation. Other issues may be subject to private discussions outside of the mediation process. I am not aware of any current plans for additional mediation between these parties. In addition, while progress was made, the Hampshire-PPG dispute is not resolved.

In the City-PPG Dispute, the City submitted a revised draft settlement agreement to PPG in early January 2018. The City and PPG are currently privately negotiating the terms of that agreement. I remain available to them if they cannot resolve their differences and further mediation is necessary. I anticipate that we will know in the coming months whether the parties can resolve their differences.

I leave it to Your Honor's sound discretion as to whether you want to conduct a case management conference involving any of the issues that I have been mediating.

X. Current and Future Activities

Newsletter: The Chromium Cleanup Partnership published a newsletter in January 2018 that summarized the status of activities at the PPG chromium sites. Copy attached. The newsletter was distributed to a lengthy mailing list consisting of residents, business owners, public officials and other interested parties.

Public Information Session: A public open house/information session will be held on January 30, 2018 at the Mary McLeod Bethune Life Center, 140 Dr. Martin Luther King Jr. Drive. My office, NJDEP, PPG, the City of Jersey City, JCRA and others will participate in the open house and respond to questions from the public about the status of the cleanup of the PPG chromium sites.

PPG Employment Report: Attached is PPG's 3Q 2017 Employment Report in which PPG reports that it has satisfied the JCO goals for the reporting period.

XI. Conclusion

As noted in this Report, much progress was made in the reporting period, as well as since the commencement of my appointment.

On December 22, 2017, Your Honor, with the consent of the JCO parties, appointed me to a new two year term as Site Administrator. I thank Your Honor and the JCO parties for the confidence and trust given to me to fulfill this important assignment. I assure you that, with the help of my counsel (James Ray) and my Administrative Assistant (Nancy Colson), I will continue to do my best to ensure that the remediation and restoration of all PPG chromium sites is done efficiently, effectively, expeditiously, transparently, and above all, safely.

I am available at your convenience to answer any questions you may have.

Respectfully submitted,



Ronald J. Riccio
Site Administrator

Attachments:

- Master Schedule dated January 9, 2018
- Newsletter dated January 2018
- PPG Q3 2017 Employment Report

cc: Via email: PPG Industries; NJDEP; City of Jersey City

Master Schedule for the NJ PPG Chrome Remediation Sites

(Exhibit 2/3)

Revision Date: January 9, 2018

SOILS - GARFIELD AVENUE SITES

Group/Phase or Site (See Figure 1 attached)	Property Description (Owner) (See Figure 2 attached)	Access/Road Closure Plan	Excavation Start Actual OR Required	Excavation Complete Actual OR Required	Backfill Complete Actual OR Required	Restoration Complete Actual OR Required	RAR Determination	Comments
GA Group IRM#1 and Phases 1A, 1B, 1C, 2A, 2B-1, 2B-2, 2B-3, and 2B-4	Site 114 (JCRA /Hampshire)	See Comments	12/31/2013	11/24/2014	1/21/2015	January 2018 (see Comments)	December 2018	Site 114 is the subject of pending litigation between PPG, Hampshire, JCRA and the City, but the Court issued an Order granting PPG access to conduct remediation work at this site. Any remaining issues are the subject of mediation between the mediating parties. If the mediation is unsuccessful, the litigation may again become active. Restoration for all referenced areas is expected to be completed by January 2018, except for the IRM #1 area where active groundwater remediation is being performed. The restoration plan for the IRM #1 area will be further discussed after the receipt of the post-treatment groundwater monitoring results, which are scheduled to be available in April 2018. Discussion is underway with respect to the remedy for a small portion of IRM #1 adjacent to Garfield Avenue (referred to as the "Western Sliver").
GA Group Phase 3A	Site 132 (824 Garfield) (JCRA) Site 143 (846 Garfield) (PPG)	See Comments PPG Owned	3/4/2014	9/5/2014	5/15/2015	January 2018	December 2018	Site 132 is the subject of pending litigation between PPG, Hampshire, JCRA and the City, but the Court issued an Order granting PPG access to conduct remediation work at this site. Any remaining issues are the subject of mediation between the mediating parties. If the mediation is unsuccessful, the litigation may again become active.
GA Group Phase 3B-N (45 Halladay and a portion of 25 Halladay)	A portion of Site 137 (PPG)	PPG Owned	7/9/2014	5/15/2015	8/3/2015	January 2018	December 2018	A portion of Site 137 was not able to be remediated because of its proximity to the Ten West Apparel Building, and is now considered part of Phase 3B-S under this Master Schedule.
GA Group Phase 3B-S (15 Halladay, the remainder of 25 Halladay with 800 and 816 Garfield Avenue added)	Site 133 West (PPG) and the remainder of Site 137 (PPG) Fishbein (816 Garfield Avenue) (PPG) Ten West Apparel (800 Garfield Avenue) (Gadeh)	PPG Owned PPG Owned To be PPG Owned (See Comments)	7 Months After Ten West Vacates 800 Garfield	7 Months After Excavation Start	2 Months After Excavation Complete	3 Months After Backfill Complete	14 Months After Restoration Complete	The access litigation between PPG and Ten West Apparel was settled in April 2017. Pursuant to the terms of settlement, Mid-Newark, L.P., the owner of the 800 Garfield Avenue property, is required to transfer title to the property to PPG and Ten West Apparel is required to vacate the property on or prior to the 24 th month following the date upon which title to the property is transferred to PPG. As a result of delays in the finalization of the settlement agreement between PPG and the property owner and the transfer of title to PPG, in November 2017 the State of New Jersey filed a motion with the court to intervene in this litigation with the intention of requesting that the Court modify the start date of the 24 month period for Ten West Apparel to vacate the property. This Group/Phase also includes remediation of portions of Halladay Street and Site 133 East (adjacent to Caven Point Avenue) used for access to the Ten West Apparel warehouse. The sites included within GA Group Phase 3-B-S were not part of NJDEP's March 30, 2017 capillary break determination letter. Therefore, a separate determination must be made by the Department prior to Restoration Complete as to the need for a capillary break at the sites/partial sites located within this Phase.
GA Group Phase 3C	Site 133 East (22-68 Halladay) (PPG) Halladay Street South (Jersey City) Site 135 North (Portion of 51-99 Pacific) (PPG)	PPG Owned Road Closure In Place PPG Owned	4/21/2015	10/22/2015 (See Comments)	7/29/2016 (See Comments)	January 2018	December 2018	PPG achieved the excavation complete and backfill complete milestones for Phase 3C (Site 133 East, Halladay Street South and Site 135 North) on the dates indicated to Elevation 11 Feet NAVD 88 with the exception of grids adjacent to the Al Smith Moving building and grids in 133 East and Halladay Street South adjacent to Ten West Apparel. The grids adjacent to the Al Smith building and Building 51 along the eastern boundary of Site 133 East were excavated and will be backfilled as part of the remediation activities at the Al Smith Moving property and subject to the Al Smith Moving Master Schedule milestones. The grids in 133 East and Halladay Street South adjacent to Ten West Apparel will be excavated and backfilled with the Phase 3B South remediation activities consistent with the Phase 3B South Master Schedule milestones. Utility reinstallation in Halladay Street South is on hold pending mediation between the City and PPG of issues related to in-kind replacement of utilities and other improvements/infrastructure.

Master Schedule for the NJ PPG Chrome Remediation Sites

(Exhibit 2/3)

Revision Date: January 9, 2018

SOILS - GARFIELD AVENUE SITES

Group/Phase or Site (See Figure 1 attached)	Property Description (Owner) (See Figure 2 attached)	Access/Road Closure Plan	Excavation Start Actual OR Required	Excavation Complete Actual OR Required	Backfill Complete Actual OR Required	Restoration Complete Actual OR Required	RAR Determination	Comments
GA Group Site 135 South	Site 135 South (Remainder of 51-99 Pacific) (PPG)	PPG Owned	3/16/2016	8/23/2016 (See Comments)	12/29/2016 (See Comments)	January 2018	December 2018	PPG achieved the excavation complete and backfill complete milestones for Site 135 South on the dates indicated, with the exception of grids adjacent to the Al Smith Moving building and Building 51, which have been excavated and will be backfilled as part of the remediation activities at the Al Smith Moving property and subject to the Al Smith Moving Property Master Schedule milestones.
GA Group Phase 5 Off Site Properties	Halsted Corporation (78 Halladay St) (PPG)	PPG Owned	May 2018	June 2019	August 2019	February 2020	April 2021	The Halladay Street North remediation activities are to be completed in conjunction with the remediation of the Halsted Building. The excavation start milestone may be achieved by start of excavation in either Halsted or Halladay Street North. This Site was not part of NJDEP's March 30, 2017 capillary break determination letter. Therefore, a separate determination must be made by the Department prior to Restoration Complete as to the need for a capillary break at this Site.
	Forrest Street Properties 84, 86 and, 90-98 Forrest St and Block 21501, Lot 15 (Caragliano)	Access complete	3/27/2017	7/19/2017	8/9/2017	May 2018	April 2019	Milestone dates are for initial excavation activities in accordance with the Forrest Street and Forrest Street Properties Technical Execution Plan dated March 2017. PPG and the property owner reached a conceptual understanding regarding a remedial approach that calls for the excavation and backfilling of impacted soils in phases, but subject to a restricted area around the perimeter of and within the footprint of the buildings where excavation is currently prohibited so as to avoid structural damage to the buildings. Excavation and backfilling of the agreed upon areas outside of the buildings was completed. In light of the building structural restrictions, some impacted soils will remain under and in the proximity of the buildings located on these properties that will be addressed at some future date when the property is redeveloped or upon agreement between PPG and the property owner. The Department, PPG and the property owner are in discussions regarding the proposed restricted use remedy for these portions of the properties. In the first quarter of 2018, PPG will submit an RAWP to memorialize the restricted use remedy for these properties. PPG will propose schedule milestones for implementation of the RAWP within three months of NJDEP and property owner approval of the RAWP; this new schedule may be included in the next update to the Master Schedule, as a separate line with separate milestones.
	Al Smith Moving (33 Pacific Avenue) (NJEDA c/o Al Smith Moving)	Access Complete	8/16/2017	January 2018	February 2018	March 2018	April 2019	
GA Group Phase 4 Roadways	Carteret Avenue (Jersey City)	See Comments	TBD (See Comments)	TBD (See Comments)	TBD (See Comments)	TBD (See Comments)	TBD (See Comments)	Carteret Avenue area/phase includes Carteret Avenue from the intersection with Garfield Avenue through the intersection with Pacific Avenue. The portion of Carteret Avenue from the intersection with Garfield Avenue through the intersection with Halladay Street is closed and will remain closed pending remediation of this roadway. In March 2017, PPG, the City, JCMUA and JCRA entered into a Memorandum of Understanding (the "MOU"), which was acknowledged by NJDEP and the Site Administrator. The MOU set forth the parties' understandings concerning certain activities and commitments in connection with the removal and replacement of an existing 96" steel combined sewer line within Carteret Avenue and remediation in and around said sewer line. Attached to the MOU was an Implementation Schedule that called for certain activities to be undertaken by the parties with respect to the project. In January 2018, the parties revised the Implementation Schedule that was attached to the March 2017 MOU. This roadway was not part of NJDEP's March 30, 2017 capillary break determination letter. Therefore, a separate determination must be made by the Department prior to Restoration Complete as to the need for a capillary break at this Site.
GA Group Phase 4 Roadways (continued)	Halladay Street North (Jersey City)	See Comments	May 2018	June 2019	August 2019	February 2020	April 2021	This roadway will be closed for the proposed remediation activities. PPG closure notification was provided to the City on November 3, 2017. Halladay Street North is to be completed in conjunction with remediation of the Halsted Building. The excavation start milestone may be achieved by start of excavation in either Halsted or Halladay Street North. This roadway was not part of NJDEP's March 30, 2017 capillary break determination letter. Therefore, a separate determination must be made by the Department prior to Restoration Complete as to the need for a capillary break at this Site.

Master Schedule for the NJ PPG Chrome Remediation Sites

(Exhibit 2/3)

Revision Date: January 9, 2018

SOILS - GARFIELD AVENUE SITES

Group/Phase or Site (See Figure 1 attached)	Property Description (Owner) (See Figure 2 attached)	Access/Road Closure Plan	Excavation Start Actual OR Required	Excavation Complete Actual OR Required	Backfill Complete Actual OR Required	Restoration Complete Actual OR Required	RAR Determination	Comments
	Forrest Street (Jersey City)	See Comments	3/27/2017	8/4/2017	9/1/2017	May 2018	February 2020	<p>Milestone dates are for initial excavation activities in accordance with the <i>Forrest Street and Forrest Street Properties Technical Execution Plan</i>, dated March 2017. If this roadway needs to be closed for additional investigation or remediation activities, PPG will notify the City at least 90 days prior to the date that the roadway needs to be closed.</p> <p>The Principals agreed that Forrest Street and Forrest Street Properties shall be considered one combined site for the purpose of the milestones set forth herein. Therefore, commencement of excavation on the Forrest Street Properties in March 2017 was deemed to satisfy the March 2017 excavation start date for Forrest Street. PPG and the adjacent Forrest Street property owner reached a conceptual understanding regarding a remedial approach that called for a phased approach to the excavation and backfilling of impacted soils located on the Forrest Street Properties and in Forrest Street, but subject to a restricted area around the perimeter of and within the footprint of the buildings located on the Forrest Street Properties where excavation was prohibited so as to avoid structural damage to the buildings. In light of these restrictions, some impacted soils will remain in Forrest Street that will be addressed at some future date when the property is redeveloped or upon agreement between PPG and the property owner, or whenever utility work beneath the roadway is necessary. Until that time, PPG shall utilize the Standard Operating Procedures for Coordinating Utility Work Within Chromium Soil Areas and the Worker Training Manual for Managing Contaminated Soils and Groundwater, in substantially the forms prepared by AMEC Environment & Infrastructure, Inc. for Honeywell.</p> <p>The JCO Parties agreed, as of the date of this Master Schedule revision (January 9, 2018), to extend the restoration milestone for this roadway until May 2018 due to asphalt availability and constructability limitations resulting from the winter weather. PPG has agreed, however, to install gravel or other temporary materials to allow road traffic until asphalt becomes available and can be installed in the roadway.</p>
	Garfield Avenue (Jersey City)	See Comments	See Comments	See Comments	See Comments	See Comments	June 2020	<p>If this roadway needs to be closed for remediation activities, PPG will notify the City at least 90 days prior to the date that the roadway needs to be closed. In consideration of the numerous utilities located in this roadway and traffic issues, the City, PPG and NJDEP are considering a restricted use remedy for this roadway. In the second quarter of 2018, PPG shall submit a RAWP for this roadway. The June 2020 RAR Determination milestone may be subject to change if there is a delay in the selection of a remedy.</p> <p>This roadway was not part of NJDEP's March 30, 2017 capillary break determination letter. Therefore, a separate determination must be made by the Department as to the need for a capillary break at this Site.</p>

Master Schedule for the NJ PPG Chrome Remediation Sites

(Exhibit 2/3)

Revision Date: January 9, 2018

SOILS - NON-GARFIELD AVENUE GROUP SITES

Group/Phase or Site	Property Description (Owner)	Access/Road Closure Plan	Excavation Start Actual OR Required	Excavation Complete Actual OR Required	Backfill Complete Actual OR Required	Restoration Complete Actual OR Required	RAR Determination	Comments
Site 16	45 Linden Ave. East (Etzion)	Access agreement in place	6/16/2014	November 2020	January 2021	September 2021	November 2022	PPG completed excavation and backfilling of the exterior area of this property in June 2015. PPG is to conclude its analysis of remedial alternatives for the warehouse building, secure the property owner's consent and propose a remedy to NJDEP by September 2018 for the areas under the building and outside the building along Linden Avenue East. The milestones for this Site are based on the assumption that the remedy for the building includes demolition enabling full removal/excavation of contaminated material within the footprint of the building. Some remediation will be required in the street. That remediation will be performed concurrent with the remediation of the building. PPG will notify the City at least 90 days prior to the date that the street needs to be closed.
Site 63	Baldwin Oil (Nisan 12)	Access agreement in place	4/28/2014	5/19/2015	5/19/2015	6/13/2015	4/27/2017	All CCPW has been excavated and the Site has been restored. A final Consent Order Compliance Letter (NFA equivalent) is pending settlement of Site 65.
Site 65	Burma Road/Morris Pesin Drive (Jersey City)	See Comments	4/28/2014	See Comments	See Comments	See Comments	See Comments	Pursuant to the Settlement Agreement being negotiated between PPG, the City, JCMUA and NJDEP, the remedy for this site will consist of institutional and engineering controls until JCMUA undertakes Water Line Work (as defined by the Settlement Agreement), at which time the Water Line Work will be managed following the Linear Construction Guidance.
Site 107/Site 108	Fashionland (Site 107 - Greenberg) / Albanil Dyestuff (Site 108 - American Self Storage Liberte, LLC)	107 - Access agreement in place 108 - Access agreement in place with new owner	June 2018	December 2018	January 2019	March 2019	May 2020	The access litigation between PPG and the owner of Site 107 was settled in April 2017. PPG has commenced access negotiations with Conrail. The approved Remedial Investigation Report for Site 108 indicated that the "hotspot" contaminated area on Site 108 was presumed to have emanated from Site 107, and required that remedial action at Site 108 would be performed as part of the Site 107 remedial action. Therefore, Site 108 is to be remediated concurrent with the Site 107 remedial action. In April 2017, PPG entered into an access agreement with the new owner of Site 108.
Site 156	Metro Towers (ALMA)	Access agreement in place	3/18/2013	5/23/2014	5/30/2014	6/30/2014	Boiler Room: July 2018 Parking Lot: July 2018	
Site 174	Dennis Collins Park (City of Bayonne)	Access agreement (See Comments)	4/8/2013	9/30/2016	9/30/2016	9/30/2016	January 2020	On September 13, 2017, City of Bayonne adopted Municipal Resolution 17-09-13-035, which extends the access agreement for investigation and environmental remediation work to June 17, 2019. Focused excavation, backfill, and restoration of a portion of the Park was completed in September 2016. PPG and the City of Bayonne are negotiating a Memorandum of Understanding (MOU) setting forth the parties' understandings concerning the coordination of the installation of a 2 ft. clean soil cap and other required engineering controls for the remediation of soils with the City's redevelopment of the Park. The RAR Determination milestone assumes capping installation starts on or before January 2019.
Site 186	Garfield Avenue #1	Access no longer required; Remediation Complete	8/19/2013	11/1/2013	11/1/2013	11/20/2013	4/16/2014	All CCPW has been excavated and the Site restored. A final Consent Order Compliance Letter (NFA equivalent) was issued July 15, 2015.
457 Communipaw	457 Communipaw Right-of-Way (285 Lincoln Avenue, LLC)	Investigation access only at this time						The portion of this area in the right-of-way has been fully remediated by PPG. It was determined, however, that CCPW impacts extend onto 457 Communipaw Avenue, an adjacent private property. A site investigation was performed in 2017 at 457 Communipaw Avenue. PPG intends to submit an SI/RI Work Plan for this property in January 2018.

Master Schedule for the NJ PPG Chrome Remediation Sites

(Exhibit 2/3)

Revision Date: January 9, 2018

GROUNDWATER

GA GROUP GROUNDWATER MILESTONES							
Group/Phase or Site	Property Description (Owner)	IRM Start	IRM Performance Monitoring Complete	Remedial Investigation Report Submitted	Remedial Action Work Plan Submitted	Remedial Action Report Submitted	Comments
GW IRM Phase I	Site 114 (JCRA/Hampshire)	12/29/2017	December 2020				The IRM will be designed to extract ground water from the areas of highest Cr concentration in the northern portion of Site 114 and make use of the treated water to support bio-precipitation in the southern portion of Site 114. For more detail, see "Groundwater Interim Remedial Measure: Phase I Design and Permit-by-Rule Authorization Request" dated June 2017 (the "PBR"). The IRM Phase I activities also includes active remediation within the shallow zone groundwater to address localized exceedances of the groundwater quality standards. Phase I of the IRM calls for approximately one year of active treatment and two years of performance monitoring with ongoing dialogue and collaboration around IRM performance that may result in a revisiting of these timeframes. Quarterly reporting on IRM progress will be provided by the PPG team.
GW IRM Phase II	Site 114 (JCRA/Hampshire)	June 2019	June 2022				This phase is contingent on PPG Management approval. Conceptually, Phase II of the IRM will implement bio-precipitation in the portions of Site 114 not addressed in Phase I, with the same considerations as noted above for Phase I.
GW IRM Phase III	South of Carteret (PPG & JCRA)	December 2020	December 2023				This phase is contingent on PPG Management approval. Conceptually, Phase III of the IRM will address the area south of Carteret Avenue, with the same considerations as noted above for Phase I.
IRM Phase IV or RAWP	Other Adjacent Properties	TBD	TBD				This phase (if warranted) is contingent on PPG Management approval. Adjacent properties may include but are not limited to roadways adjacent to the GAG Sites (i.e., Forrest Street, Halladay Street, Carteret Avenue and Garfield Avenue), the Forrest Street Properties, the former Halsted Corporation property and the Ten West Apparel property. Other properties/roadways may be identified by the ongoing groundwater remedial investigation. Milestone dates will need to be established at an appropriate point in the future based on information generated by the remedial investigation.
Remedial Investigation	Entire Site Group			January 2020			RIR must address shallow, intermediate, deep and bedrock groundwater zones. Access has been obtained for many of the properties included in the scope of the remedial investigation. However, as full delineation is required, access may be required to other properties. Access to these other properties will need to be obtained at a future date as needed and could impact the dates listed.
Remedial Action Work Plan	Entire Site Group				May 2021		PPG may submit the RAWP in advance of the date presented herein if sufficient information is obtained during IRM Phases I and/or II. Areas with soil remediated after submittal of groundwater RAWP can be addressed through addenda to the groundwater RAWP as an alternate approach.
Remedial Action Report	Entire Site Group					November 2023	Areas with groundwater remediated after submittal of the groundwater RAR can be addressed through addenda to the groundwater RAR.
NON-GA GROUP GROUNDWATER MILESTONES							
Site 16	(see non-GAG Soils table)			RIR/RAWP Submittal: November 2021		TBD	
Site 63	(see non-GAG Soils table)			RIR/RAWP Submittal: April 2018		TBD	Milestone assumes two rounds of groundwater sampling approximately 30 days apart to demonstrate compliance with Groundwater Quality Standards and no additional groundwater monitoring well installation. If additional investigation work is needed, the milestone will need to be revised.
Site 65	(see non-GAG Soils table)			See Comments		TBD	Pursuant to the settlement agreement being negotiated between the PPG, the City, JCMUA and NJDEP, any impacted groundwater at Site 65 will be deemed to have emanated from Site 63. Therefore, no action vis-à-vis groundwater is required for Site 65.
Site 107 & 108	(see non-GAG Soils table)			RIR/RAWP Submittal: September 2019		TBD	
Site 156	(see non-GAG Soils table)			RIR/RAWP Submittal: March 2018		TBD	
Site 174	(see non-GAG Soils table)			RIR/RAWP Submittal: March 2018		TBD	Milestone assumes one round of groundwater monitoring well installation and two rounds of groundwater sampling approximately 30 days apart to demonstrate compliance with Groundwater Quality Standards. If additional investigation work is needed, the milestone will need to be revised.
Site 186	(see non-GAG Soils table)			Site 186 Groundwater Remedial Investigation incorporated into GA Group RI		TBD	Site 186 groundwater investigation/remedial action is considered part of the Garfield Avenue Group groundwater program.

Master Schedule for the NJ PPG Chrome Remediation Sites

(Exhibit 2/3)

Revision Date: January 9, 2018

NOTES

SOILS NOTES:

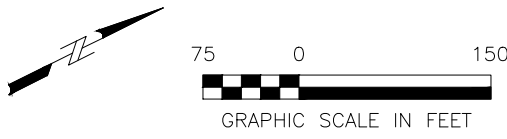
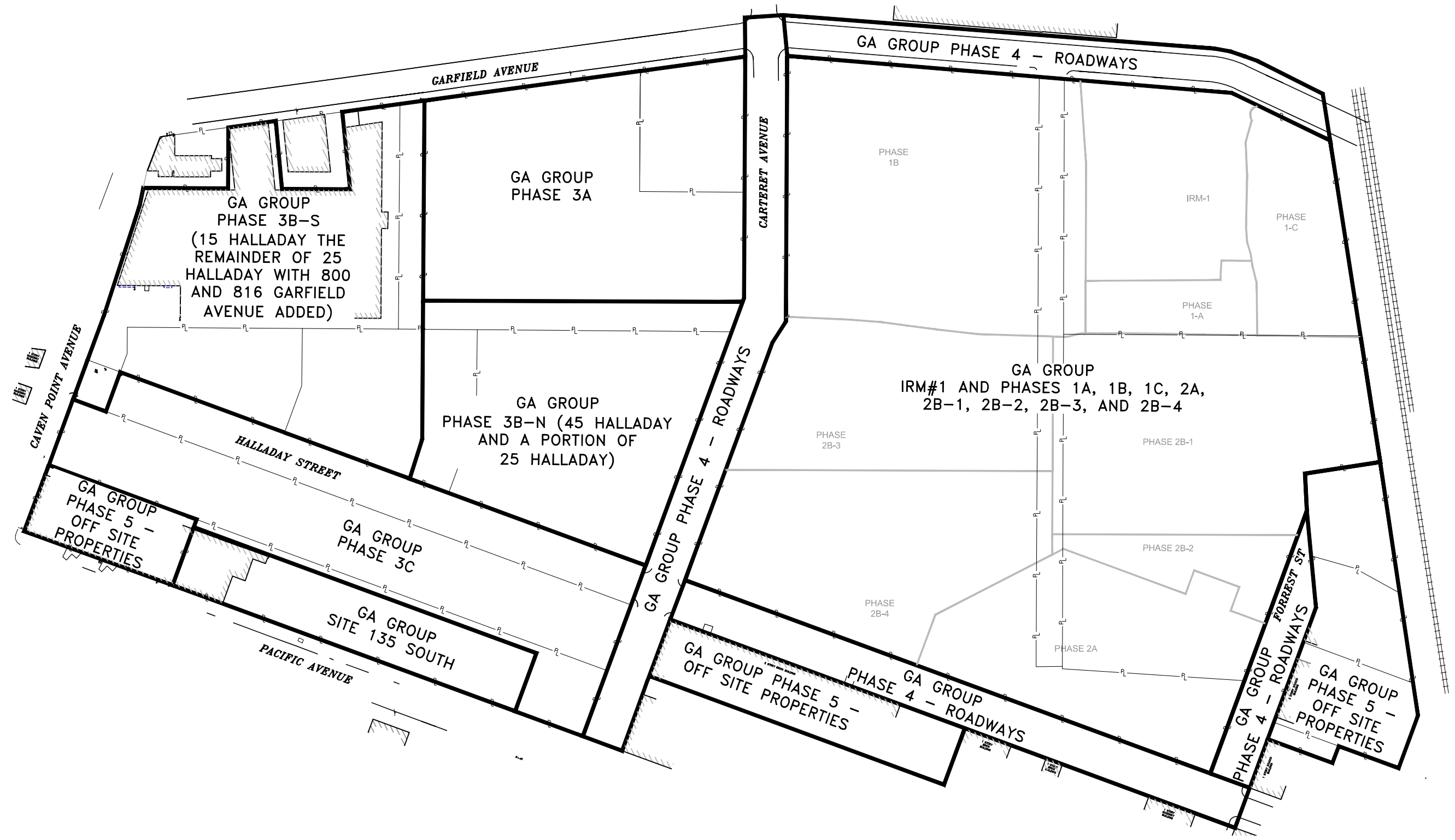
- 1) "Excavation Start" means access has been gained, building demolition and shoring installation, if required, have been completed, there are no known impediments to proceeding with excavation and excavation has actually commenced.
- 2) "Legal remedies will commence" means the initiation of court proceedings.
- 3) Green shading indicates that milestones have been attained.
- 4) For Garfield Avenue Group Sites, "Backfill Complete" means backfill is brought to elevations approved by NJDEP.
- 5) For the purpose of this Master Schedule, "restoration" is defined as capillary break installation (where required) and final remediation grading in accordance with an NJDEP-approved Restoration Technical Execution Plan. In its review of the Restoration TEP, the Department will consider the grades established in the Canal Crossing Redevelopment Plan for the Garfield Avenue Sites. In-kind replacement of existing infrastructure and/or improvements removed to implement the remedy, as well as final redevelopment grading, for the GAG Sites is the subject of pending mediation between the City and PPG.
- 6) Restoration within specific areas under/around infrastructure necessary to support on-going remediation may be delayed if such a delay is acceptable to the Department and property owners.
- 7) For the purpose of this Master Schedule, "RAR Determination" means that the Department will determine whether the Remedial Action Report (RAR) meets the requirements of applicable Department regulations and guidance. The Department will determine whether the milestone identified in the Exhibit is achieved assuming: (i) the RAR Figures/Tables have been submitted by PPG and reviewed/approved by the Department prior to complete RAR submittal, and (ii) the initial submittal of the complete RAR (i.e., text plus figures, tables and other Department-required information) is received 26 weeks prior to the RAR Determination milestone. (The referenced 26 week time period assumes 12 weeks for the Department/Weston and the City of Jersey City to provide comments to the initial complete RAR submittal, 7 weeks thereafter for PPG to review and incorporate such comments and submit the final version of the full RAR and 7 weeks thereafter for the Department to make the RAR Determination). A Draft Consent Judgment Compliance Letter will typically be issued by the Department within 30 business days of the issuance of the RAR Determination.
- 8) This version of the Master Schedule has combined "Exhibit 2" and "Exhibit 3" from the version of the Master Schedule dated October 13, 2015. The term Exhibits 2/3 is used here because prior orders entered by the court in NJDEP, et al. v. Honeywell International, Inc., et al. reference those exhibits as exhibits to the Master Schedule, which Master Schedule remains in effect as modified by these changes to Exhibits 2 and 3.
- 9) NJ Transit Right-of-Way (ROW): CCPW located beneath this ROW will be addressed concurrent with Site 199, as part of remediation requirements specified in the 2011 Consent Order (Orphan Sites Agreement).

GROUNDWATER NOTES:

- 1) For purposes of this schedule, the Garfield Avenue Group Access date is assumed to be March 2017 and would continue without interruption although litigation between JCRA and PPG is ongoing for JCRA owned properties.
- 2) Figure 3, attached, depicts the conceptual overlap of groundwater treatment and redevelopment at the Garfield Avenue Group, including timeframe considerations as currently envisioned. This figure does not represent a commitment by PPG to complete all IRM phases.

FIGURES 1, 2 AND 3 ATTACHED

Piscataway on uspsw2\fp001\Data_uspsw2\fp001\Environment(J)
 User: bossaliniid Plotted: Jul 28, 2016 - 3:35pm
 File: P:\Jobs\Rem_Eng\Project Files\PPG Industries\Garfield Avenue\30% Design\CADD\MEETING FIGURES\2016-07-28 GAG Vicinity Ref Figure.dwg Layout: FIGURE 1

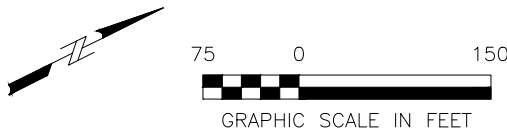
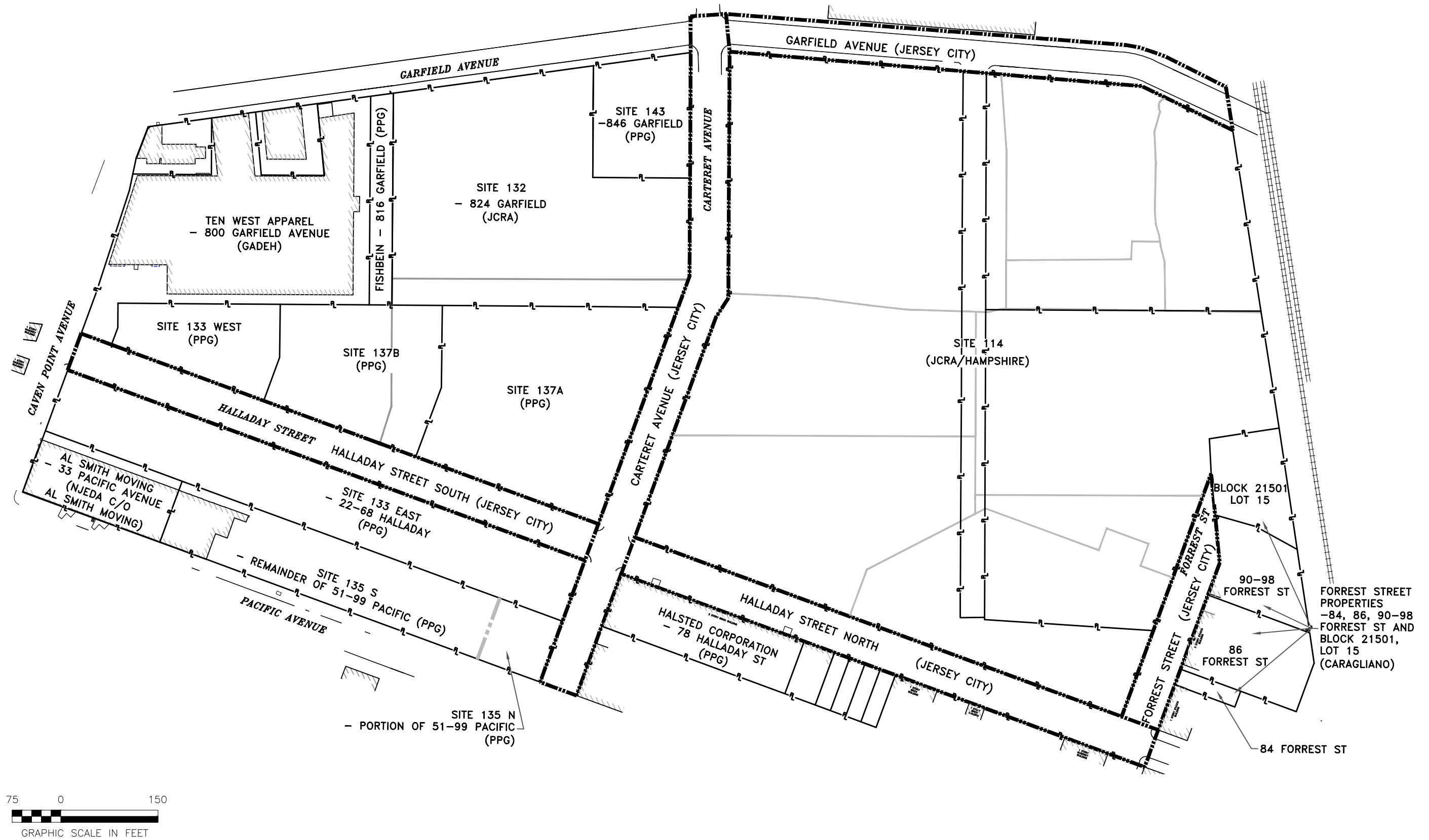


- NOTES:
1. FOR OFF SITE PROPERTIES AND ROADWAYS, PROPERTY LINES ARE ESTIMATED BASED ON TAX MAPS. LIMITS ARE INTENDED TO EXTEND TO ACTUAL PROPERTY LINES, TO BE CONFIRMED BY PROFESSIONAL SURVEY PRIOR TO START OF WORK.



PPG GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY		GROUP/PHASE OR SITE PLAN
DATE: 07/19/2016	DRWN: DCB	FIGURE 1

Piscataway on uspsw2\fp001\Data_uspsw2\fp001\Environment(J)
 User: bossalimid Plotted: Jul 28, 2016 - 3:33pm
 File: P:\Jobs\Rem_Eng\Project Files\PPG Industries\Garfield Avenue\30% Design\CADD\MEETING FIGURES\2016-07-28 GAG Vicinity Ref Figure 2.dwg Layout: FIGURE 2



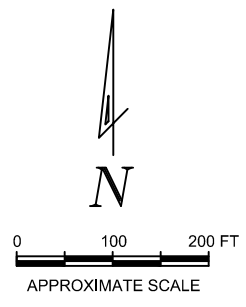
LEGEND
 SITE DESCRIPTION
 - ADDRESS
 (OWNER)

NOTES:
 1. FOR OFF SITE PROPERTIES AND ROADWAYS, PROPERTY LINES ARE ESTIMATED BASED ON TAX MAPS. LIMITS ARE INTENDED TO EXTEND TO ACTUAL PROPERTY LINES, TO BE CONFIRMED BY PROFESSIONAL SURVEY PRIOR TO START OF WORK.



PPG GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY		PROPERTY DESCRIPTION (OWNER) PLAN
DATE: 07/19/2016	DRWN: DCB	FIGURE 2

CITY(COLUMBUS, OHIO) DIV(GROUP, (MIDV)) DR (R, SMITH) LD (OH) PIC (OH) PM (P, JN) TM (OH) LVL (OH)N (OFF) REF: PPG GARFIELD AVENUE GROUP OF SITES - GROUNDWATER INTERIM REMEDIAL MEASURE CONCEPTUAL PHASES AND TIMELINE - FIGURE 3 - NP000684.0010.dwg
 G:\EN\CAD\Columbus-CHACT\NP000773-PPG JERSEY CITY\00100001\NP000684-010-2017-01.dwg LAYOUT: FIG 1-V3 SAVED: 5/22/2017 1:57 PM ACADVER: 1.1S (LMS TECH) PAGES: 10 PAGES: 10 PLOTSTYLETABLE: ACAD.CTB PLOTTED: 5/22/2017 2:08 PM BY: SMITH, BOB



LEGEND

- SHEET PILE
- EXTENT OF HIGH HEXAVALENT CHROMIUM CONCENTRATIONS (GREATER THAN 1,000,000 MICROGRAMS PER LITER)
- IRM PHASE I EXTRACTION ONLY AREA
- IRM PHASE I RECIRCULATION/IN-SITU TREATMENT AREA
- IRM PHASE II RECIRCULATION/IN-SITU TREATMENT AREA
- IRM PHASE III RECIRCULATION/IN-SITU TREATMENT AREA

- Notes:**
- This figure graphically shows the conceptual overlap of the interim remedial measure (IRM) treatment and site redevelopment, including timeframe considerations as currently envisioned (see table below). Adjustment of the proposed redevelopment schedules will be needed to align with the IRM schedules.
 - This figure does not represent a commitment by PPG to complete all IRM phases.
 - The IRM does not represent a final remedy, and thus the number, orientation, and schedule of phases may be modified over time, with the operational logic and performance considerations established in the design and the Permit-By-Rule (PBR). The schedule is contingent on New Jersey Department of Environmental Protection (NJDEP) approval of the PBR application, with acknowledgement that there will be ongoing dialogue and collaboration around IRM performance, which may result in modifications.
 - Development plan taken from concept site plan prepared by Minno Wasco Architects and Planners, dated May 11, 2017.

Redevelopment Phase	Proposed Redevelopment Schedule ¹		IRM Phase Schedule ²	
	Start	Finish	Start	Finish
Phase 1			Phase I	
Retail	--	--	December 2017	December 2020
Residential (Building 16)	--	--	December 2017	December 2020
Phase 2			Phase II	
Retail	--	--	June 2019	June 2022
Phase 3			Phase II	
Residential (Building 17)	--	--	June 2019	June 2022
Phase 4			Phase III	
Retail	--	--	N/A	N/A
Residential (Building 18)	--	--	December 2020	December 2023
Residential (Building 19)	--	--	N/A	N/A
Phase 5			Phase II	
Residential (Building 14)	--	--	June 2019	June 2022
Residential (Building 15)	--	--	N/A	N/A

- 1 - Proposed redevelopment schedule is to be provided by the developer.
- 2 - IRM schedule represents initiation of active operations throughout end of performance monitoring.

N/A - Not Applicable

PPG
 GARFIELD AVENUE GROUP OF SITES
 JERSEY CITY, NEW JERSEY
 NP000684.0010

**GROUNDWATER INTERIM REMEDIAL MEASURE
 CONCEPTUAL PHASES AND TIMELINE**

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3

Chromium Cleanup Partnership

SUPERIOR COURT OF NEW JERSEY
 CITY OF JERSEY CITY
 N.J. DEPARTMENT OF ENVIRONMENTAL PROTECTION
 PPG



Getting the treatment
 Onsite plant begins groundwater cleanup at Garfield Avenue sites. See Page 2.

Letter from Site Administrator

From 'dig and haul' to restoration and groundwater cleanup



Ronald Riccio

By Ronald J. Riccio

I am pleased to report that significant progress was made at the PPG chromium cleanup sites in 2017. The key accomplishments are set forth at right. Most importantly, the work at the Garfield Avenue sites began to move from the “dig and haul” phase of contaminated soils and debris to groundwater cleanup and “site restoration” activities. Site restoration means that, in those areas where the contaminated soils have been removed, efforts are now focused on backfilling, final grading, stormwater control, installation of engineering controls and other activities designed to “restore” the sites so that redevelopment can commence.

PPG has commenced a groundwater treatment program at the Garfield Avenue sites. This is intended to target chromium contamination in the water table through the use of, among other things, “biological” treatment agents that will reduce the chromium contamination without harm to the environment.

Key 2017 accomplishments include:

- An additional 40,000 tons (estimated) of contaminated soil and debris were removed from the Garfield Avenue sites.
- Demolition of the Al Smith Moving building (corner of Pacific Avenue and Caven Point Avenue) and other buildings along Pacific Avenue was completed. Excavation of contaminated soils under these buildings was commenced and is nearly complete.
- Restoration of the Garfield Avenue sites commenced in 2017. With the exception of the roadways (such as Carteret Avenue) and those sites where access has not yet been secured (such as the Ten West Apparel property and parcels adjacent to it), the majority of the restoration is expected to be completed in the first quarter of 2018.
- PPG commenced implementation of an NJDEP-approved groundwater remedial investigation work plan designed to complete delineation of groundwater impacts at the Garfield Avenue sites.
- A groundwater treatment program has begun at the Garfield Avenue sites. This

- program will include active remediation of chromium impacted groundwater.
- Remediation of accessible chromium impacted soils located around buildings situated on Forrest Street (west of Halladay Street) was completed.
- Remediation of Forrest Street itself (west of Halladay Street) commenced in 2017. It is expected that remediation of accessible soils in this roadway will be completed in 2018.
- The former Halsted Corporation building (corner of Carteret Avenue and Halladay Street) is now vacant. Pre-demolition activities commenced in 2017. Demolition and excavation are scheduled to commence in 2018.

continued on page 2

PUBLIC OPEN HOUSE
 DATE: Jan. 30
 TIME: 6:30 p.m. - 8:30 p.m.
 PLACE: Mary McLeod Bethune Life Center,
 140 Dr. Martin Luther King Jr. Drive,
 Jersey City
 The site administrator and a variety of experts will be available to meet one-on-one with residents and interested parties.

Site Administrator

continued from page 1

- PPG and the owners of the Ten West Apparel property (near the corner of Garfield Avenue and Caven Point Avenue) have agreed in principle on the terms of access for remediation purposes.
- The remediation at Site 156, Metro Towers, has been substantially completed and is awaiting final review by NJDEP.
- PPG has secured access to Site 107 (18 Chapel Avenue). Demolition of the building and remediation of the underlying chromium contamination is expected to commence in 2018.
- PPG, the City of Jersey City, the Jersey City Municipal Utilities Authority and the NJDEP have agreed in principle to the terms of a settlement agreement to remedy contaminants beneath portions of Burma Road and Morris Pesin Drive.
- A total of 79 properties were enrolled in the residential inspection program since its inception in 2010. With one property still under investigation, the final outcome for the 78 remaining properties is as follows:

- 2: Number of owners who asked if their properties were eligible for the program but did not pursue further action.
- 43: Number of owners who requested and received a historical records search of their properties but did not pursue further action.
- 6: Number of owners who had their properties undergo site or visual inspections but did not pursue further action.
- 21: Number of properties in which hexavalent chromium (the source was not chromate chemical production waste [CCPW]) was below 20 parts per million (ppm) in soil samples collected. As a result, no further action was required.
- 6: Number of properties where soil samples exceeded 20 ppm of hexavalent chromium. With respect to these 6 properties, the source of hexavalent chromium was not CCPW. Nonetheless, PPG has conducted soil removals at these properties voluntarily.
- Interim remedial measures in place at the PPG cleanup sites that have yet to undergo final remediation continue to

be regularly inspected and monitored to ensure against potential exposure risk to hexavalent chromium.

- Results from air monitoring at all the cleanup sites show air quality remained well within strict safety limits established by NJDEP.
- A public information session in 2017 provided residents with an update on cleanup activities and an opportunity for the public to get their questions answered.
- The Chromium Cleanup Partnership published and circulated to the community a newsletter informing recipients of the status of the PPG cleanup sites.

I have agreed to accept re-appointment to serve for another two year term as independent Site Administrator for PPG's chromium cleanup sites. For this, I am appreciative of the parties' and the Court's confidence in me and my team. I will continue to do my best to make sure that the remediation and restoration of the PPG sites is done efficiently, effectively, expeditiously, transparently, and above all, safely.

Groundwater cleanup is under way

PPG isn't wasting any time addressing chromium's impact on groundwater at the Garfield Avenue cleanup sites. The collection of data to define groundwater conditions in and near the former chromium manufacturing plant site is in progress, and yet the cleanup is already under way.

Based on an investigation plan approved by the New Jersey Department of Environmental Protection, contractors for PPG installed 10 additional monitoring wells last fall to determine the extent of chromium in groundwater. Additional wells are being installed early this year.

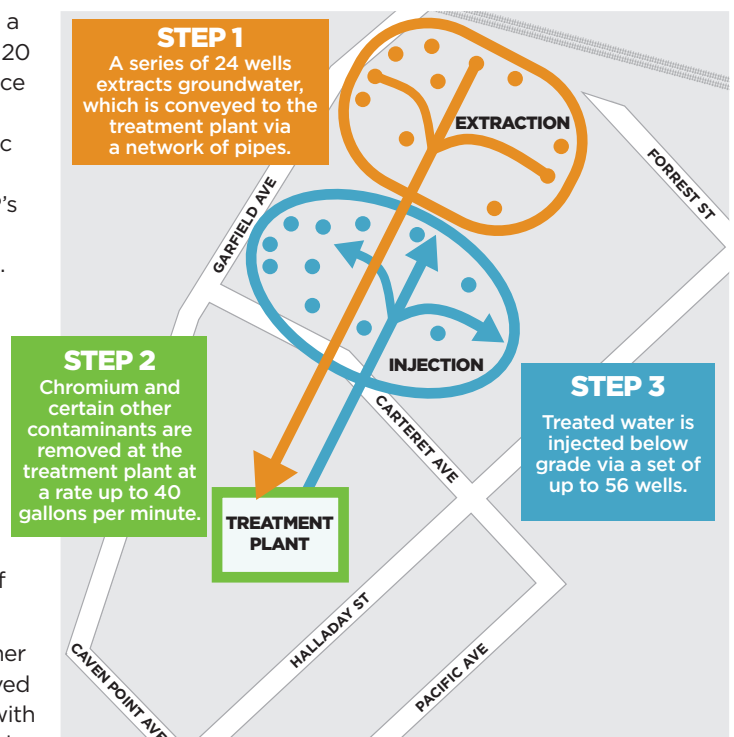
Samples from this network of wells will be collected early this year. This investigation is a supplement to previous, extensive groundwater investigations conducted before the excavation and removal of impacted soils.

Though a report on the results from the wells isn't expected until midyear, officials already know the digging up and hauling away of nearly 1 million tons of chromium-impacted soil and debris at the sites has had a positive impact on groundwater.

Shallow groundwater to a depth of approximately 20 feet below ground surface at the Garfield Avenue sites has shown dramatic improvement and is approaching the NJDEP's groundwater quality standards for chromium.

Meanwhile, PPG has installed 24 wells that will be used as part of a phased cleanup measure to extract groundwater and a network of pipes that is continuously conveying it to a treatment plant south of Carteret Avenue.

Once chromium and other contaminants are removed at the plant, the water, with the addition of biological agents, such as molasses, is being injected below grade via a set of up to 56 wells. The molasses will continue the treatment of impacted groundwater through the stimulation of biological activity that converts hexavalent chromium to its much less toxic trivalent form.



Technicians for PPG will continue to monitor groundwater quality into 2020 and beyond to be assured it continues to meet compliance requirements.

No groundwater in Jersey City is used for drinking water.

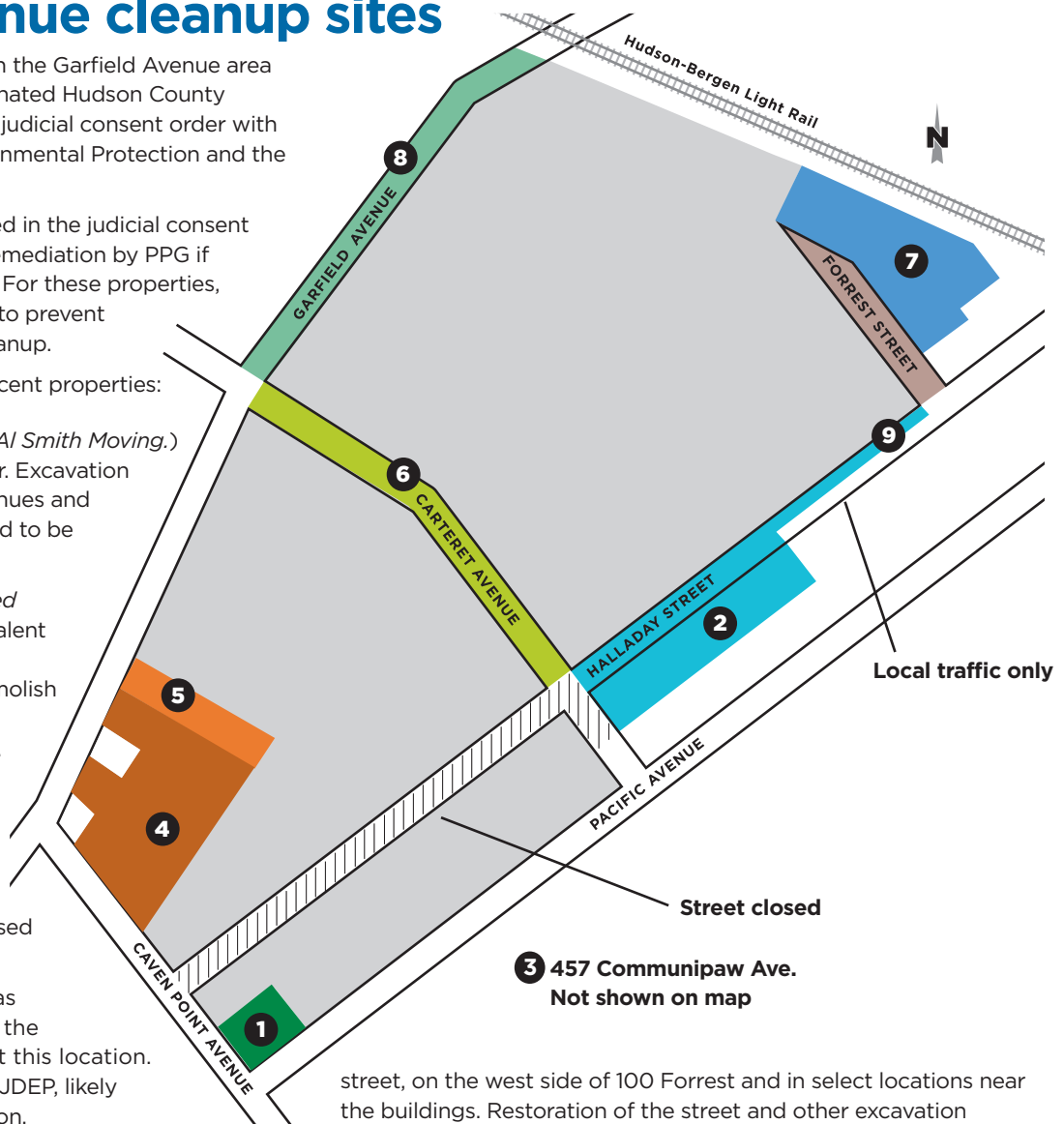
PPG makes progress at properties adjacent to Garfield Avenue cleanup sites

PPG’s environmental responsibilities in the Garfield Avenue area may extend beyond the NJDEP designated Hudson County Chromate sites identified in the 2009 judicial consent order with the New Jersey Department of Environmental Protection and the City of Jersey City.

Properties adjacent to those sites listed in the judicial consent order also require investigation and remediation by PPG if contamination had migrated to them. For these properties, interim measures have been installed to prevent exposure until PPG can conduct a cleanup.

Here is the status of the affected adjacent properties:

- 1 33 Pacific Ave.** - (Also known as *Al Smith Moving.*) PPG demolished this building last year. Excavation of chromium-impacted material continues and restoration of this property is expected to be completed early this year.
- 2 78 Halladay St.** - (Formerly *Halsted Corporation.*) Elevated levels of hexavalent chromium were detected beneath the building foundation. PPG plans to demolish the building early this year and begin excavating soil and debris by midyear. To accommodate the demolition and excavation, a portion of Carteret Avenue between Halladay Street and Pacific Avenue, and a portion of Halladay Street between Carteret Avenue and Forrest Street, will be closed early this year.
- 3 457 Communipaw Ave.** - PPG has conducted further investigation into the chromium waste discovered in soil at this location. A cleanup plan will be submitted to NJDEP, likely recommending a small-scale excavation.
- 4 800 Garfield Ave.** - (Also known as *Ten West Apparel.*) PPG is negotiating for access to and the purchase of this building. Once the sale is complete, PPG plans to demolish the building so it can excavate the chromium-impacted soil that was placed in the former Morris Canal beneath it.
- 5 816 Garfield Ave.** - Initial plans for the excavation of chromium-impacted material on this property have been developed but further work is on hold until PPG gains access to 800 Garfield Ave.
- 6 Carteret Avenue** - Soil surrounding the 96-inch sewer line beneath this street between Garfield Avenue and Halladay Street contains elevated levels of chromium. PPG, NJDEP and the City of Jersey City are discussing the best method for excavating the impacted material while maintaining sewer service.
- 7 Forrest Street** - Chromium-impacted material was identified in a portion of this roadway from the intersection with Halladay Street to its dead end within the Garfield Avenue site. In addition, material was identified next to and under some of the buildings on this street. As a result, last year PPG excavated material in the



street, on the west side of 100 Forrest and in select locations near the buildings. Restoration of the street and other excavation locations is expected to be complete early this year. PPG is evaluating the remedial alternatives to remove the balance of the chromium-impacted soil and debris within Forrest Street and under the Forrest Street buildings.

- 8 Garfield Avenue** - PPG has completed the horizontal and vertical delineation of chromium-impacted material in the soil under the street. This delineation indicates that these impacts occur in portions of Garfield Avenue between the Hudson-Bergen Light Rail overpass and Carteret Avenue. NJDEP, PPG and City of Jersey City officials are considering deferring remediation of this material until the street is widened or opened to repair or replace the utilities underneath it, including the gas, water, electric and sewer lines.
- 9 Halladay Street North** - Workers will dig up and haul away chromium-impacted material under portions of Halladay Street between Carteret Avenue and Forrest Street at the same time the excavation at 78 Halladay Street is conducted. As a result, a portion of Halladay Street will be closed to all but local traffic beginning this month. The excavation is expected to begin by midyear.

Metropolis Towers remediation substantially complete



PPG completed in mid-November a supplemental excavation of chromium-impacted soil and debris in the south parking lot at Metropolis Towers, substantially completing the remediation at the apartment building complex.

From March 2013 through June 2014, PPG excavated nearly 60,000 tons of material from Metropolis Towers, but an investigation conducted in the fall of 2016 determined more had to be dug up and hauled away.

Under a plan approved by the New Jersey Department of Environmental Protection, approximately 5,700 tons of material was excavated beginning in September. Cars had to be removed from 90 parking spaces to accommodate the excavation.

While the excavation was under way, workers also installed a protective coating on the floor in the boiler room in the basement of Building No. 2. This coating is designed to provide a durable barrier to the chromium in and under the concrete. Regular inspections of the coating are being conducted by PPG and representatives from NJDEP to confirm it prevents human and environmental exposure.

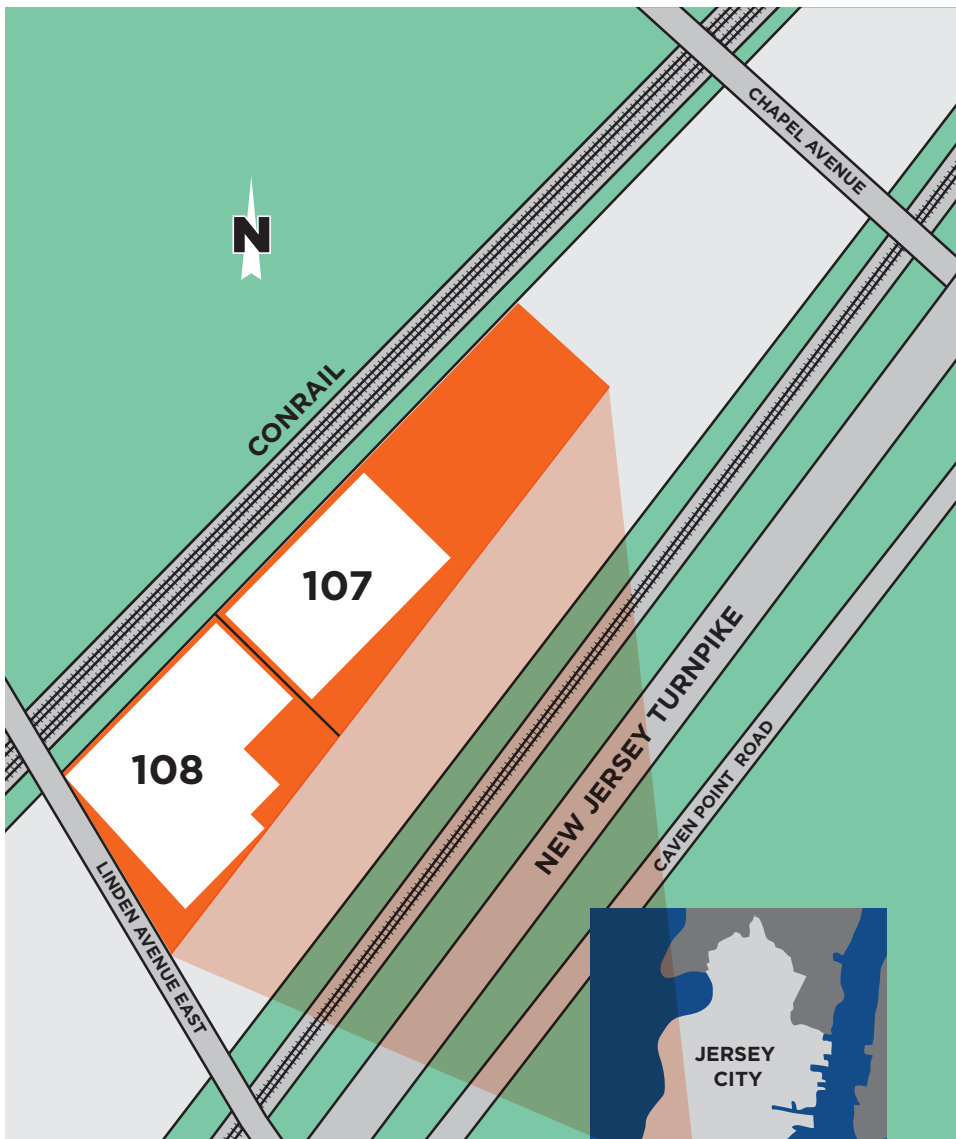
Chromium Cleanup Partnership

One Hovchild Plaza
4000 Route 66
4th Floor (MDMC)
Tinton Falls, N.J. 07753

Telephone: 201-777-2099

E-mail: info@chromecleanup.com

Website: www.chromecleanup.com



Cleanup at Site 107 begins this year

Cleanup work at Site 107, which is between Linden Avenue East and Chapel Avenue in Jersey City, is scheduled to begin later this year.

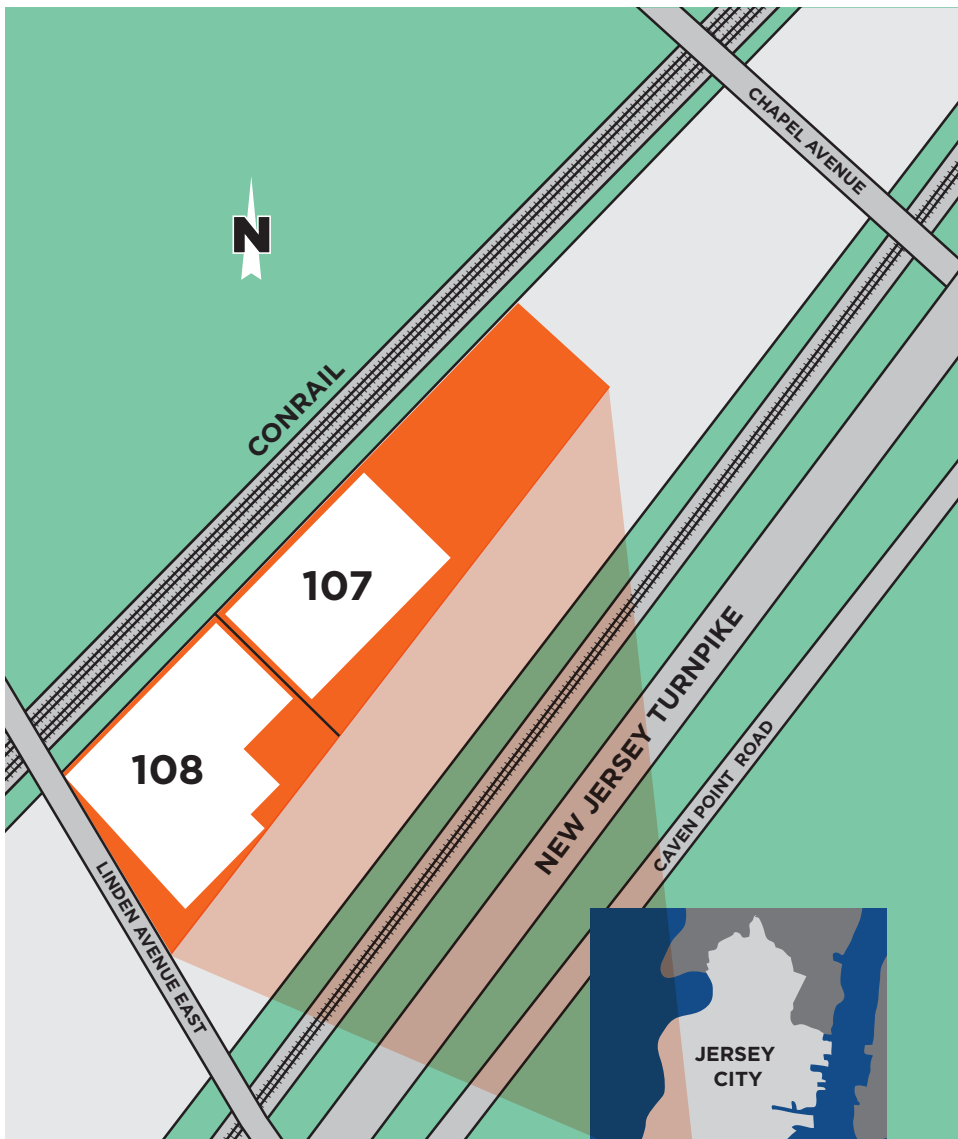
PPG gained access to the building at 18 Chapel Ave., late last month and plans to demolish it by April. The excavation of chromium-impacted soil and debris is expected to begin in June.

The owner of Site 107 will take possession of its property when PPG completes restoration, which is scheduled for March 2019. An investigation will follow to determine whether a groundwater cleanup is required.

Chromate chemical production waste, or CCPW, a byproduct from the chromium manufacturing process, was distributed as

fill at the property, which is referred to as Hudson County Chromate Site 107 by the New Jersey Department of Environmental Protection. Concentrations of hexavalent chromium – a component of CCPW – exceed soil cleanup criteria and total chromium concentrations exceed groundwater quality standards.

Chromium impacts associated with Site 107 extend onto an adjacent property to the south, also known as Site 108, and the Conrail property to the west. These offsite impacts will be excavated during the Site 107 remediation. The CCPW at Site 108 is isolated to the northwest corner of the property and is beneath a paved parking lot. Impacts on the Conrail property are isolated to the western property boundary of Sites 107 and 108.



Termina una parte considerable del saneamiento de Metropolis Towers



A mediados de noviembre, PPG finalizó una excavación complementaria del suelo y los escombros contaminados con cromo del estacionamiento sur de Metropolis Towers, con lo cual terminó una parte considerable del saneamiento de este complejo de apartamentos.

De marzo de 2013 a junio de 2014, PPG excavó casi 60 000 toneladas de material de Metropolis Towers, pero en una investigación realizada en otoño de 2016 se determinó que había más material por excavar y retirar.

Conforme a un plan aprobado por el Departamento de Protección Ambiental de Nueva Jersey, desde septiembre se excavaron más de 5 700 toneladas de material. Se tuvieron que retirar los automóviles de 90 puestos de estacionamiento para realizar la excavación.

Durante la excavación, los trabajadores también instalaron un revestimiento protector en el suelo del cuarto de calderas en el sótano del Edificio N° 2. Este revestimiento brinda una barrera duradera contra el cromo en y debajo del concreto. PPG y representantes del NJDEP llevan a cabo inspecciones periódicas para confirmar que previene la exposición de las personas y del medio ambiente.

Chromium Cleanup Partnership

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4000 Route 66
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La limpieza del Sitio 107 comienza este año

El inicio de las obras de limpieza del Sitio 107, que se encuentra entre Linden Avenue East y Chapel Avenue en la ciudad de Jersey City, está programado para este año.

A finales del mes pasado, PPG obtuvo acceso al edificio de 18 Chapel Ave. y planea demolerlo en abril. Se prevé que la excavación de suelos y escombros contaminados con cromo comenzará en junio.

El propietario del Sitio 107 tomará posesión del predio cuando PPG finalice la restauración, que está programada para marzo de 2019. Luego, se realizará una investigación para determinar si se necesita una limpieza de las aguas subterráneas.

Los residuos de la producción química de cromatos, o CCPW, que son un subproducto del proceso de fabricación del cromo, se distribuyeron como relleno en el predio,

denominado Sitio 107 de cromatos del condado de Hudson por el Departamento de Protección Ambiental de Nueva Jersey. Las concentraciones de cromo hexavalente, un componente de los CCPW, superan los criterios de limpieza de suelo y las concentraciones de cromo totales superan las normas de calidad de las aguas subterráneas.

La contaminación por cromo en el Sitio 107 se extiende hacia el Sitio 108 y el predio colindante de Conrail hacia el oeste. Estos lugares externos se excavarán durante el saneamiento del Sitio 107. Los CCPW del Sitio 108 se aislaron hacia la esquina noroccidental de la propiedad y están debajo de un estacionamiento pavimentado. La contaminación en los predios de Conrail se aísla hacia el límite occidental de los predios de los Sitios 107 y 108.

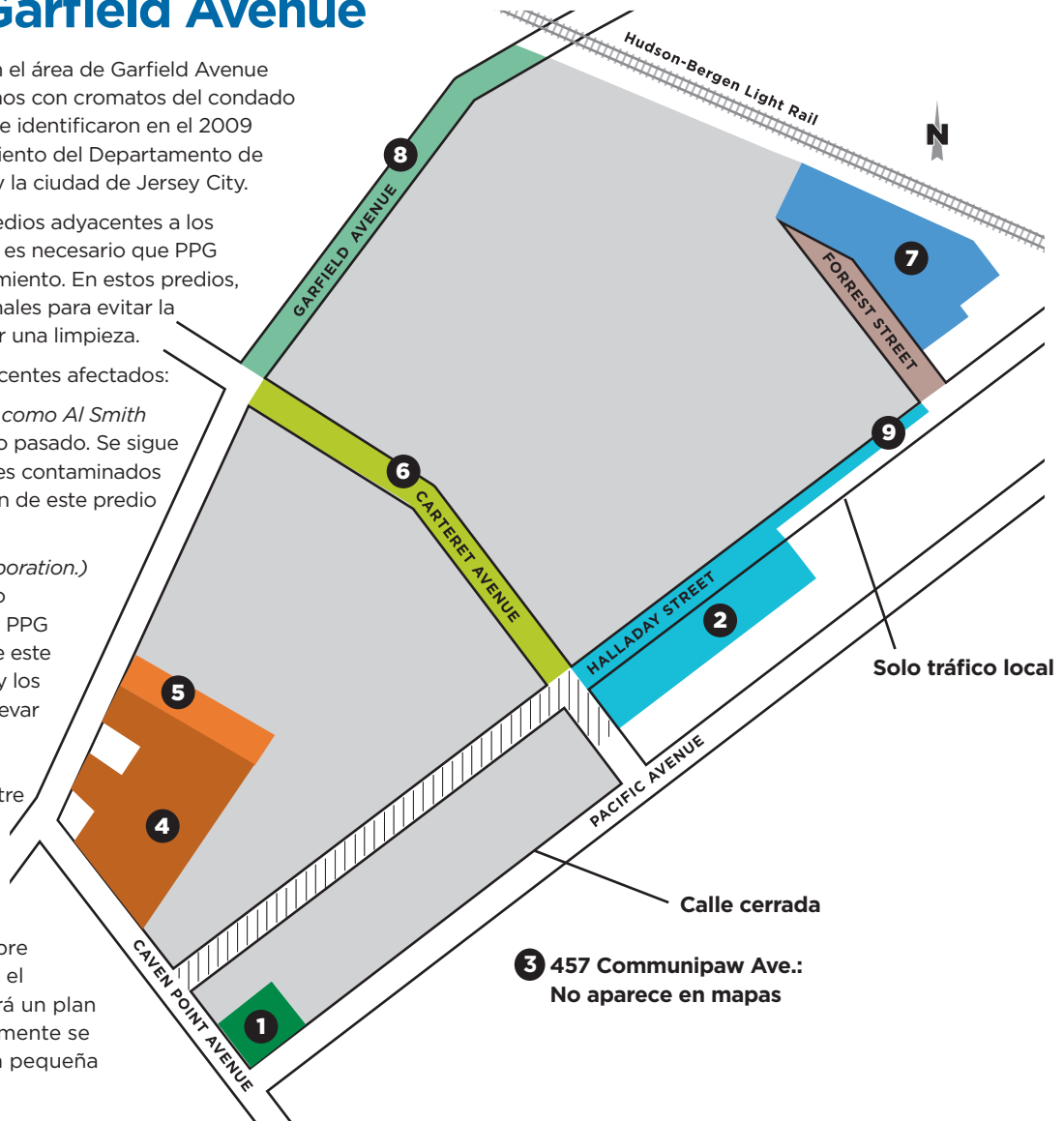
PPG logra avanzar en los predios adyacentes a los terrenos de limpieza de Garfield Avenue

La responsabilidad ambiental de PPG en el área de Garfield Avenue se puede extender más allá de los terrenos con cromatos del condado Hudson designados por el NJDEP, que se identificaron en el 2009 mediante la orden judicial de consentimiento del Departamento de Protección Ambiental de Nueva Jersey y la ciudad de Jersey City.

Si la contaminación ha migrado a los predios adyacentes a los terrenos señalados en la orden, también es necesario que PPG realice labores de investigación y saneamiento. En estos predios, se han implementado medidas provisionales para evitar la exposición hasta que PPG pueda realizar una limpieza.

Esta es la condición de los predios adyacentes afectados:

- 1 33 Pacific Ave.:** (También conocido como *Al Smith Moving*). PPG demolió este edificio el año pasado. Se sigue realizando la excavación de los materiales contaminados con cromo y se prevé que la restauración de este predio finalice a comienzos de este año.
- 2 78 Halladay St.:** (Antes *Halsted Corporation*). Se detectaron niveles elevados de cromo hexavalente en los cimientos del edificio. PPG planea demoler el edificio a principios de este año y comenzar la excavación del suelo y los escombros a mitad de año. Para poder llevar a cabo las labores de demolición y excavación, a comienzos de este año se cerrará una parte de Carteret Avenue entre Halladay Street y Pacific Avenue y una parte de Halladay Street entre Carteret Avenue y Forrest Street.
- 3 457 Communipaw Ave.:** PPG ha llevado a cabo más investigaciones sobre los residuos de cromo descubiertos en el suelo en esta ubicación. Se le entregará un plan de limpieza al NJDEP, donde probablemente se recomendarán labores de excavación a pequeña escala.
- 4 800 Garfield Ave.:** (También conocido como *Ten West Apparel*.) PPG está negociando el acceso y la adquisición de este edificio. Una vez que finalice la venta, PPG planea demolerlo para poder excavar el suelo contaminado con cromo que se ha depositado en el antiguo canal Morris, que está debajo.
- 5 816 Garfield Ave.:** Se han redactado los primeros planes para la excavación de los materiales contaminados con cromo en este predio, pero hay otros trabajos en espera una vez que PPG obtenga acceso a 800 Garfield Ave.
- 6 Carteret Avenue:** El suelo que rodea la línea de alcantarillado de 96 pulgadas (2.5 m) debajo de esta calle entre Garfield Avenue y Halladay Street contiene niveles elevados de cromo. PPG, NJDEP y la ciudad de Jersey City están conversando sobre el mejor método para excavar el material contaminado sin perjudicar el servicio de alcantarillado.
- 7 Forrest Street:** Se encontró material contaminado con cromo en una parte de esta vía, desde la intersección con Halladay Street hasta el callejón sin salida dentro del terreno de Garfield Avenue, así como al lado y debajo de los edificios de esta calle. El año pasado, como resultado, PPG excavó el material en el costado occidental de 100 Forrest y en lugares seleccionados cerca de los edificios. Se prevé que



3 457 Communipaw Ave.:
No aparece en mapas

la restauración de la calle y de otros sitios de excavación finalice a comienzos de este año. PPG evalúa alternativas para retirar el suelo restante y los escombros contaminados con cromo dentro de Forrest Street y debajo de los edificios de esta calle

8 Garfield Avenue: PPG ha terminado el delineamiento horizontal y vertical del material contaminado con cromo en el suelo debajo de la calle. Este delineamiento indica que los suelos contaminados se encuentran en partes de Garfield Avenue entre la pasarela del tren ligero Hudson-Bergen y Carteret Avenue. Funcionarios del NJDEP, de PPG y de la ciudad de Jersey City están considerando posponer el saneamiento de este material hasta que la calle sea ampliada o esté abierta para la reparación o sustitución de los servicios públicos subterráneos, tales como las líneas de gas, acueducto, electricidad y alcantarillado.

9 Halladay Street North: Los trabajadores excavarán y retirarán el material contaminado con cromo debajo de ciertas secciones de Halladay Street entre Carteret Avenue y Forrest Street, mientras se realiza la excavación en 78 Halladay Street. Como resultado, a comienzos de este mes se cerrará todo el tráfico, excepto el local, de una parte de Halladay Street. Se prevé que la excavación comience a mitad de año.

Administrador de Obras

viene de la página 1

- iniciaron en 2017. El inicio de los trabajos de demolición y excavación está programado para el 2018.
- PPG y los propietarios de los predios de Ten West Apparel (cerca de la esquina de Garfield Avenue y Caven Point Avenue) en un principio acordaron los términos de acceso para realizar el saneamiento.
- El saneamiento del Sitio 156, Metro Towers, se ha completado en su mayoría y ahora está en espera del estudio final por parte del NJDEP.
- PPG ha obtenido acceso al Sitio 107 (18 Chapel Avenue). Se prevé que las labores de demolición del edificio y de saneamiento del cromo subyacente iniciarán en 2018.
- PPG, la ciudad de Jersey City, la Autoridad de Servicios Públicos Municipales de Jersey City y el NJDEP en un principio acordaron los términos de un acuerdo de liquidación para sanear los contaminantes que están debajo de ciertas secciones de Burma Road y Morris Pesin Drive.
- En total, se inscribieron 79 predios en el programa de inspección residencial desde que se creó en 2010. Ahora que solo un predio está en investigación, el resultado

- final de los otros 78 predios es el siguiente:
- 2: Cantidad de propietarios que preguntaron si sus predios cumplían los requisitos del programa, pero que no emprendieron más acciones.
 - 43: Cantidad de propietarios que solicitaron y recibieron una consulta de los registros históricos de sus predios, pero que no emprendieron más acciones.
 - 6: Cantidad de propietarios en cuyos predios se realizaron inspecciones de terreno o visuales, pero que no emprendieron más acciones.
 - 21: Cantidad de predios en los que el cromo hexavalente (no debido a los residuos de la producción química de cromatos o CCPW) era inferior a 20 partes por millón (ppm) en las muestras de suelo recolectadas. Como resultado, no se necesitaron más acciones.
 - 6: Cantidad de predios en los que las muestras de suelo superaron las 20 ppm de cromo hexavalente. En relación con estos 6 predios, el cromo hexavalente no se debía a los CCPW. Sin embargo, PPG ha retirado el suelo de ellos por voluntad propia.
 - Las medidas de saneamiento provisionales que se han implementado en los terrenos que aún faltan por limpiar se siguen

inspeccionando y supervisando de manera periódica para garantizar que no haya posibles riesgos de exposición al cromo hexavalente.

- Los resultados de control del aire en los terrenos de limpieza demuestran que la calidad del aire sigue dentro de los estrictos límites de seguridad establecidos por el NJDEP.
- En una sesión de información pública realizada en 2017, los residentes recibieron una actualización de las actividades de limpieza y la oportunidad de hacer preguntas.
- La Chromium Cleanup Partnership publicó y puso en circulación para la comunidad un boletín sobre el estado de los terrenos de limpieza de PPG.

He aceptado mi nuevo nombramiento para desempeñarme por otro período de dos años como Administrador de Obras independiente de los terrenos de limpieza de cromo de PPG. Por ello, les agradezco a las partes y al Tribunal la confianza que han depositado en mí y en mi equipo. Seguiré haciendo lo mejor para garantizar que el saneamiento y la restauración de los terrenos de PPG se realice de manera eficiente, efectiva, rápida, transparente y, sobre todo, segura.

La limpieza de aguas subterráneas está en marcha

PPG no pierde tiempo para limpiar las aguas subterráneas contaminadas con cromo en los terrenos de Garfield Avenue. Se está recopilando información para definir las condiciones del agua subterránea debajo y cerca de la antigua fábrica de cromo y la limpieza aún está en curso.

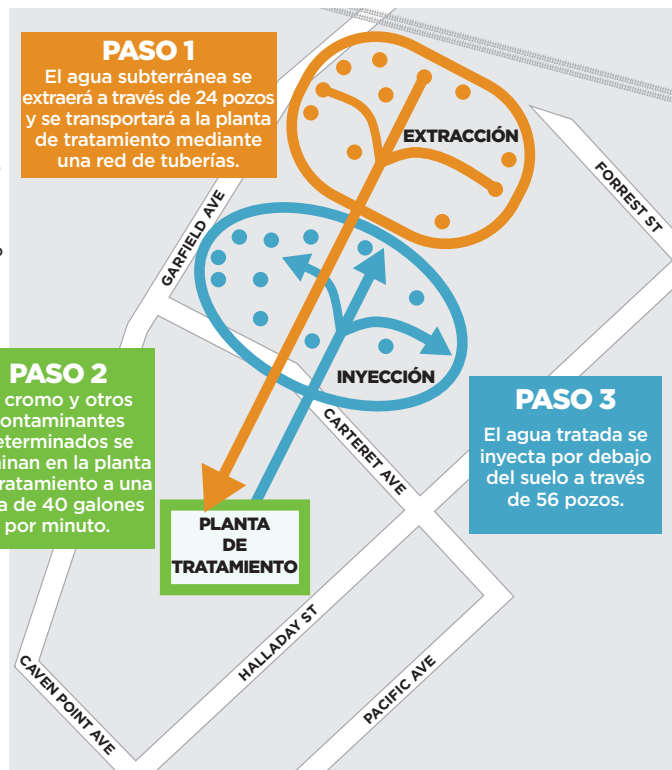
Con base en el plan de investigación aprobado por el Departamento de Protección Ambiental de Nueva Jersey, los contratistas de PPG abrieron el otoño pasado otros 10 pozos de monitoreo para determinar el alcance de la contaminación por cromo de las aguas subterráneas. A comienzos de este año, se abrirán otros pozos.

Las muestras de esta red de pozos se recogerán a principios de este año. Esta investigación complementa las exhaustivas investigaciones que se realizaron en las aguas subterráneas antes de excavar y retirar los suelos contaminados.

Aunque no se espera recibir un informe sobre los resultados de los pozos sino hasta mitad de año, los funcionarios ya saben que se excavarán y retirarán cerca de un millón de toneladas de suelos y escombros contaminados con cromo en los terrenos que arrojaron un resultado positivo en la contaminación de las aguas subterráneas.

Las aguas subterráneas de poca profundidad, hasta aproximadamente 20 pies (6 m) debajo de la superficie del suelo en los terrenos de Garfield Avenue han mostrado una gran mejoría y se acercan a las normas de calidad de las aguas subterráneas del NJDEP con respecto al cromo.

Mientras tanto, PPG ha abierto 24 pozos que se usarán como parte de la limpieza progresiva para extraer el agua subterránea y una red de tuberías que la transporta continuamente a una planta de tratamiento al sur de Carteret Avenue. Una vez que se retire el cromo y otros contaminantes de la planta, el agua, con la adición de agentes biológicos como la melaza, se inyectará al subsuelo mediante 56 pozos. Las aguas subterráneas contaminadas se seguirán tratando con melaza mediante la estimulación de la actividad biológica que convierte el cromo hexavalente en su forma trivalente, que es mucho menos tóxica. Los técnicos de PPG continuarán monitoreando



la calidad del agua subterránea hasta 2020 y más allá para asegurarse de que continúe cumpliendo con los requisitos de cumplimiento.

En Jersey City el agua subterránea no se usa como agua potable.



En tratamiento
La planta del lugar inicia los trabajos de limpieza de aguas subterráneas en los terrenos de Garfield Avenue. Consulte la página 2

Carta del Administrador de Obras

Desde la excavación y la remoción hasta la restauración y limpieza de aguas subterráneas



Por Ronald J. Riccio

Me complace informarles que, durante el 2017, se logró un avance importante en la limpieza que PPG ha realizado en los terrenos contaminados por cromo.

Ronald Riccio Los logros importantes aparecen a la derecha. Lo más importante es que la fase de excavación y remoción de los suelos y escombros contaminados en Garfield Avenue ha pasado a la fase de limpieza de aguas subterráneas y de restauración de los terrenos. La restauración de terrenos se refiere a las labores que se están realizando en las áreas donde se han eliminado los suelos contaminados, que ahora se centran en el relleno, la nivelación del suelo, el control de las aguas pluviales, la instalación de controles de ingeniería y otras actividades que buscan "restaurar" los terrenos para que pueda iniciarse la reurbanización. PPG comenzó un programa de tratamiento de aguas subterráneas en los terrenos de Garfield Avenue, con el fin de solucionar la contaminación por el cromo de la capa frética mediante el uso de agentes biológicos y de otra clase, para reducir la contaminación del

cromo sin perjudicar el medio ambiente.

Logros importantes de 2017:

- Se retiraron otras 40 000 toneladas (estimado) de suelo y escombros contaminados de los terrenos de Garfield Avenue.
- Se demolieron el edificio de la empresa Al Smith Moving (esquina de Pacific Avenue y Caven Point Avenue) y otros más a lo largo de Pacific Avenue. Se comenzaron las obras de excavación de los suelos contaminados debajo de estos edificios y ya están próximas a finalizar.
- En 2017, se comenzó la restauración de los terrenos de Garfield Avenue. A excepción de las vías (tales como Carteret Avenue) y los terrenos a los que no se ha obtenido acceso (como los predios de Ten West Apparel y las parcelas adyacentes), se prevé que la mayor parte de la restauración finalizará en el primer trimestre de 2018.
- PPG comenzó a implementar un plan de trabajos de investigación de saneamiento de aguas subterráneas, aprobado por el Departamento de Protección Ambiental de Nueva Jersey (NJDEP), con el fin de delimitar las aguas subterráneas que afectan los terrenos de Garfield Avenue.

- Se ha iniciado un programa de tratamiento de aguas subterráneas en los terrenos de Garfield Avenue, que incluye el saneamiento activo de las aguas subterráneas afectadas por el cromo.
- Se terminó de sanear los suelos afectados por el cromo alrededor de los edificios ubicados en Forrest Street (occidente de Halladay Street).
- El saneamiento de la calle Forrest Street (occidente de Halladay Street) comenzó en 2017. Se prevé que el saneamiento de los suelos accesibles de esta vía terminará en 2018.
- El antiguo edificio de Halsted Corporation (esquina de Carteret Avenue y Halladay Street) ahora está desocupado. Las actividades previas a la demolición

continúa en la página 2

EVENTO PÚBLICO

FECHA: 30 de enero
HORA: 6:30 p.m. a 8:30 p.m.
LUGAR: Mary McLeod Bethune Life Center,
140 Dr. Martin Luther King Jr. Drive,
Jersey City

El administrador de obras y varios expertos estarán disponibles para reunirse personalmente con los residentes y con las partes interesadas.



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Monroeville, PA 15146 USA
T: 724.325.5070
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ppg.com

Jody Overmyer
Remediation Project Engineer

Ronald Riccio (*Via Email rriccio@mdmc-law.com*)
McElroy, Deutsch, Mulvaney & Carpenter, LLP
One Hovchild Plaza
4000 Route 66
Tinton Falls, New Jersey 07753

November 29, 2017

Re: PPG New Jersey Chrome
3Q17 Employment Report

Dear Mr. Riccio:

This report describes PPG's progress on the contracting and employment goals described in the Partial Consent Judgment filed on June 26, 2009 in compliance with the requirements of Paragraph 60 of the Order.

During the third quarter of 2017, services were provided by 13 firms, including environmental consultants, for on-site activities directly related to investigation and remediation of PPG's chromium sites. One of these firms (Securitas) maintains a business presence in Jersey City. To date, firms with operations in Jersey City have provided 21.2% of the manpower employed on the project. Jersey City residents accounted for a total of 5,409 manhours or 32% of the manpower used on the project during the third quarter, and 228,576 manhours or 30.7% of the manpower used for the project to date. The calculation of progress toward the local hiring goal includes all on-site labor except consulting services and over-the-road truck drivers, as was previously agreed to by the Local Employment Goals Work Group.

Sincerely,

Jody Overmyer

ecc:	R. Adams	S. Faeth	M. Terril
	P. Amin	J. Farrell	J. Watson
	N. Colson	R. Feinberg	J. Worden
	T. Cozzi	J. Lagrotteria	
	B. Delisle	D. Laguzza	
	D. Doyle	J. Ray	
	R. Engel	D. Spader	

PPG
New Jersey Chrome Project
 Garfield Avenue Group Sites
 Q3 2017 Local Employment Report
 November 29, 2017

	Securitas	ENTACT	EAI, Inc.	TPI Environmental	SGS Envir. Services	D'Elia Electric	ProAct/Acqua Bella	Borbas Surveying	Aerotek	Totals
January	399	1,232	103		0	16	114	0	0	1,864
	672	3,052	103		182	80	326	40	142	4,596
February	295	952	187	0	0	0	139	0	0	1,573
	676	2,010	187	32	210	8	199	16	136	3,475
March	360	736			0		15		0	1,111
	840	1,727			37		40		126	2,770
April	220	740			0		74		0	1,034
	669	2,222			4		131		185	3,211
May	214	826			0		65	0	0	1,105
	674	2,476			81		95	32	187	3,545
June	431	803			0		105		0	1,338
	1,110	3,026			1		187		262	4,586
July	264	1,068		0	0		173	0	0	1,505
	672	3,225		32	124		285	32	199	4,569
August	241	1,212					147		0	1,600
	832	3,929					226		200	5,187
September	170	1,669					162		0	2,000
	672	4,744					235		186	5,837
October										0
November										0
December										0
Totals:	2,592	9,238	290	0	0	16	992	0	0	13,129
	6,818	26,411	290	64	638	88	1,723	120	1,623	37,774

Note: Jersey City Contractors in Red

Project to Date (All Sites)	Jersey City MH's	Total MH's	% Jersey City Residents
2009:	1,875	5,581	33.6%
2010:	11,808	30,181	39.1%
2011:	19,449	58,741	33.1%
2012:	18,685	73,753	25.3%
2013:	39,546	165,638	23.9%
2014:	62,951	204,031	30.9%
2015:	35,784	103,123	34.7%
2016:	25,046	64,783	38.7%
2017:	13,433	39,445	34.1%
Project Totals:	228,576	745,276	30.7%

JC Resident Hours
Total Hours

PPG
New Jersey Chrome Project
 Non-Garfield Avenue Group Sites
 Q3 2017 Local Employment Report
 November 29, 2017

	Site 156				Totals
	Emilcott	ENTACT	Maser Consulting	SGS North America	
January					0
					0
February					0
					0
March					0
					0
April			0		0
			32		32
May			0	0	0
			32	64	96
June					0
					0
July					0
					0
August	0				0
	10				10
September	0	304		0	304
	158	1,346		29	1,533
October					0
					0
November					0
					0
December					0
					0
Totals:	0	304	0	0	304
	168	1,346	64	93	1,671

Note: Jersey City Contractors in Red