

## **Appendix D**

### **Permits and Approvals**

SITE 108

**PPG-108-MW1S**

**Well Modification Record Submittal**

**MONITORING WELL RECORD**

**PROPERTY OWNER:** JERSEY CITY LOGISTICS, LLC

Company/Organization: Jersey City Logistics, LLC

Address: 199 Lee Avenue Suite 722 Brooklyn, New York 11211

**WELL LOCATION:** Hudson County Chromate Site 108

Address: 20 Linden Ave East / PPG-108-MW1S Changed to Flush Mount cover

County: Hudson Municipality: Jersey City Lot: 43 Block: 27401

Easting (X): 606594 Northing (Y): 677303  
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL STARTED:** December 1, 2023

**DATE WELL COMPLETED:** December 1, 2023

**WELL USE:** MONITORING

**Other Use(s):** \_\_\_\_\_

**Local ID:** PPG-108-MW1S

**WELL CONSTRUCTION**

Total Depth Drilled (ft.): 19 Finished Well Depth (ft.): 19 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	19	6		
Casing	0	9	2	PVC	scd 40
Screen	9	19	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	7	6	2	0	141	8
Gravel Pack	7	19	6	2	Morie #0		

Grouting Method: Gravity method

Drilling Method: \_\_\_\_\_

**ADDITIONAL INFORMATION**

Protective Casing: Yes

Static Water Level:    ft. below land surface

Water Level Measure Tool: \_\_\_\_\_

Well Development Period:    hrs.

Method of Development: \_\_\_\_\_

Pump Type: \_\_\_\_\_

Pump Capacity:    gpm

Total Design Head:    ft.

Drilling Fluid: \_\_\_\_\_

Drill Rig: \_\_\_\_\_

Health and Safety Plan Submitted? \_\_\_\_\_

**ATTACHMENTS:**

**GEOLOGIC LOG**

0 - 7: Grey OT - Other DGA

7 - 19: Reddish-Brown SM - Silty sands, sand-silt mixtures

**ADDITIONAL INFORMATION:** The information noted on the previously submitted record was incorrect. The well surface went from Above Ground to Flush Mount. No other construction changes were made.

Driller of Record: Baxter E Duffy,  
JOURNEYMAN LICENSE # 0022212

Company: SUBSURFACE REMEDIATION & INVESTIGATION/

SITE 107

**Discharge to Groundwater Authorization for Site-wide FerroBlack<sup>®</sup>-H Backfill Amendment  
from the NJDEP, Site Remediation Program**





## State of New Jersey

### DEPARTMENT OF ENVIRONMENTAL PROTECTION

Site Remediation and Waste Management Program

Bureau of Ground Water Pollution Abatement

Mail Code: 401-05V

P.O. Box 420

Trenton, NJ 08625-0420

Phone: (609) 292-8427

PHIL MURPHY  
*Governor*

SHEILA OLIVER  
*Lt. Governor*

CATHERINE R. MCCABE  
*Acting Commissioner*

9 May 2018

Jody Overmyer, Project Manager  
PPG Industries, Inc.  
440 College Park Drive  
Monroeville, PA 15146

Re: Discharge to Ground Water Authorization  
HCC 107 - Fashionland (aka Eastern Millwork)  
18 Chapel Avenue  
Jersey City, Hudson County  
Program Interest Number: PI# G000008728  
Subject Item ID: DGWD0000000003

Dear Ms. Overmyer,

This New Jersey Pollutant Discharge Elimination System/Discharge to Ground Water (NJPDES/DGW) authorization is hereby issued under the authority of the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 *et seq.* and the implementing regulations, N.J.A.C. 7:14A-1 *et seq.* N.J.A.C. 7:14A-7.5 authorizes the discharge described below which will allow the application of backfill amendments at the above referenced site.

Pursuant to N.J.A.C. 7:14A-22.4(b)5, a Treatment Works Approval is not required for discharges to ground water authorized pursuant to N.J.A.C. 7:14A-7.5 and a licensed operator is not required pursuant to N.J.A.C. 7:10A-1.10(c)1. The discharge approved through this authorization will be to the backfill of an excavation. The discharge shall be conducted as proposed in the 19 April 2018 Discharge to Groundwater Permit-by-Rule Authorization Request and DGW proposal, received on 19 April 2018, and clarified by email on 26 April 2018. These documents were submitted on your behalf by James McLaughlin of Arcadis.

Consistent with N.J.A.C. 7:14A-7.5(b) and N.J.A.C. 7:26E-5.6(c), the duration of the approved discharge to ground water is not to exceed 180 calendar days. Be advised that the time period for the discharge begins on the day the discharge first occurs, not on the date this discharge approval letter is issued or received.

The Department shall be notified of the date when the discharge begins as instructed in section IV of this letter. Only the discharge described in Section I below is authorized. The discharge shall be

conducted in conformance with the DGW proposal and shall comply with the requirements of Sections II, III, and IV, farther below.

Regardless of whether the approved discharge is ever initiated and regardless of the date when the discharge first occurs, pursuant to N.J.A.C. 7:14A-2.7 NJDEP authorization for the permittee to initiate and conduct this approved discharge does not extend beyond five years from the date of this letter. If the approved discharge has not been initiated or completed after five years from the date on this letter, a new discharge proposal must be submitted and a new authorization letter obtained if the permittee still intends to initiate or conduct any type of discharge into or onto the ground that is subject to N.J.A.C. 7:14A-7.5(b) and N.J.A.C. 7:26E-5.6(c).

## **I. DISCHARGE DESCRIPTION**

The authorized discharge is emulsified vegetable oil (EVO) and FerroBlack<sup>®</sup>-H (Ferrous Sulfide slurry) to soil within a subsurface treatment cell. Under this proposal, prior to backfill, a dilute solution of 0.5% EVO would be placed at the bottom of the open excavations within the unsaturated zone. The total volume of 0.5% EVO solution is expected to be approximately 81,500 gallons. Additionally, clean backfill would be blended with a low dose of FerroBlack<sup>®</sup>-H (0% to 0.5% by weight). Assuming a FerroBlack-H dose of 0.5% (by weight) and a soil density of 1.5 tons per cubic yard, the anticipated dosing quantity is 34,000 pounds. To account for potential modification of excavation areas and depths during field execution, twice the above anticipated amount of reagent application is being utilized to calculate the maximum reagent quantities that are considered during implementation of this PBR.

The application of backfill amendments is intended to chemically and biologically reduce and immobilize hexavalent chromium in groundwater that is related to legacy chromate ore processing residue (COPR), preventing re-contamination of soil in the excavated area and to provide groundwater remediation.

Extracted groundwater will be transported off-site to PPG Site 137 (45 Halladay Street) for treatment. Treated water will either be discharged to the sewer system in accordance with approved permits, or amended for reinjection at Site 114 in accordance with the 21 September 2017 Permit-By-Rule for the Garfield Avenue Group sites.

## **II. SYSTEM OPERATION AND MONITORING**

The area of discharge shall be monitored for evidence of malfunction. Said evidence shall include, but is not limited to: breakout, wet areas, ponding, odors, and elevated PID readings in the nearby work area or building.

The discharge shall not cause any of the following negative impacts: adverse impact on the behavior of free product or the plume; adverse impacts to a water supply well or have a long term adverse impact on ground water quality; create an unpermitted discharge to any surface water of the State or violation of Surface Water Quality Standards; create a persistent standing, ponded or surface-flowing fluid condition; or cause adverse vapor intrusion to occur.

Pursuant to N.J.A.C. 7:14A-6.2(a)5 and 11, if free product in ground water, vapors or odors in any building, or any malfunction resulting in a potential impact to a receptor are detected and are a result

of the discharge authorized by this approval, the discharger will immediately: (1) cease the discharge or make necessary adjustments to the discharge rate or system operation; and (2) repair or mitigate any negative impacts.

After completion of the discharge, the property should be returned to its previous condition, or as agreed to with property owner if the permittee is not the property owner.

### **III. GROUND WATER MONITORING REQUIREMENTS**

The Permittee shall perform the following ground water sampling as was specified in the DGW proposal (including all addendums and modifications) for the purpose of complying with this Discharge to Ground Water Permit-By-Rule authorization.

Baseline Sampling, before the discharge:

Baseline groundwater samples were collected from 12 temporary wells installed in January 2018.

Post Treatment Sampling, after completion of the discharge:

The first post-mixing monitoring event will be incorporated into a groundwater investigation tentatively planned for March 2019 (approximately three months following completion of all proposed backfill amendments). The post-mixing monitoring process will include the collection of groundwater samples for laboratory analyses of antimony, Cr(VI), total Cr, ferrous iron, total iron, nickel, thallium, vanadium, alkalinity, sulfate, and field parameters including pH, dissolved oxygen, conductivity, turbidity, temperature, and oxidation reduction potential. Monitoring wells will be installed at well locations equivalent to where elevated Cr(IV) was identified in the temporary wells installed in January 2018 to conduct the post-mixing monitoring. The frequency and locations of initial and subsequent groundwater monitoring will be presented in the Groundwater Remedial Investigation Workplan (to be submitted to the NJDEP in October 2018).

Where possible, the Permittee shall measure ground water elevations at all sampled wells upon each sampling event and shall construct ground water flow maps with the water elevation data to document the direction of ground water flow pursuant to N.J.A.C. 7:26E-1.5(b). Pursuant to N.J.A.C. 7:26E-2.1(a)14 and N.J.A.C. 7:14A-6.2(a)14 any product observed, including sheen, shall be documented. If measurable product is observed, discharges shall be suspended until all of the recoverable product is removed from the treatment area.

Pursuant to N.J.A.C. 7:26E-1.5(b) all sampling shall be performed as proposed and consistent with the methods specified in the most current edition of the Department's Field Sampling Procedures Manual. Pursuant to N.J.A.C. 7:26E-2.1 all samples shall be analyzed by a New Jersey Certified Laboratory certified for the methods being used to analyze groundwater samples. Analytical method MDLs shall be less than or equal to the ground water quality standards (N.J.A.C. 7:9C-1.7). Parameters determined in the field (pH, dissolved oxygen, conductivity, turbidity, temperature, and oxidation reduction potential) are to be measured by a certified contractor or laboratory.

Comparison to the vapor intrusion (VI) screening levels is necessary in order to monitor whether or not the discharge activities have the potential to cause VI issues within any nearby structures by means

of adversely impacting the behavior of the ground-water contaminants (e.g., unexpected contaminant movement). Pursuant to the requirements specified in section II above, if there are any exceedances of the VI screening levels caused by the authorized discharge, a VI evaluation shall be conducted of any potentially impacted structures.

Contingency compliance ground water sampling is required if ground water sampling results indicate that ground water quality criteria (GWQC) have been contravened because of the authorized discharge (e.g., the GWQC for iron is exceeded because of backfilling ferrous sulfide within an excavation), or that ground water quality has not returned to baseline conditions (when baseline concentrations are greater than GWQC) in the expected timeframe. Ground water sampling must continue until it can be demonstrated that the GWQC have been met or until the ground water quality has returned to baseline conditions. To demonstrate either of these conditions, a minimum of two consecutive ground water sampling events spaced far enough apart to account for seasonal fluctuations, must be conducted.

Furthermore, if the Permittee is planning to apply for a Ground Water Remedial Action Permit for Natural Attenuation in the future, and exceedances of the GWQC that are due to the discharge remain, those exceedances must be treated similarly to any other site related contaminants (i.e., a sufficient number of samples are required and a decreasing concentration trend must be evident) consistent with the Department's Remedial Action Permits for Ground Water Guidance.

#### **IV. REPORTING REQUIREMENTS AND INFORMATION SUBMITTALS**

All information, including a detailed summary of the discharge and ground water sampling results, as well as the QA/QC package specified at N.J.A.C. 7:26E-2.1(a)15 shall be submitted with the Remedial Action Report prepared for the Site.

Consistent with N.J.A.C. 7:14A-2.11(a) and 6.2(a)14, within 14 days after initiation of the discharge, notify the Department of the "start date" of the discharge. To report this date, send an email to [David.VanEck@dep.nj.gov](mailto:David.VanEck@dep.nj.gov) stating the start date of the discharge.

Consistent with N.J.A.C. 7:14A-2.11(a) and 6.2(a)14, any malfunctions or non-compliance should be reported by telephone within 24 hours to the Bureau of Ground Water Pollution Abatement at (609) 292-8427 and in writing within seven days. Written submissions must include the facility name and PI Number. Failure to report this information is a violation of N.J.A.C. 7:14A and the permit-by-rule.

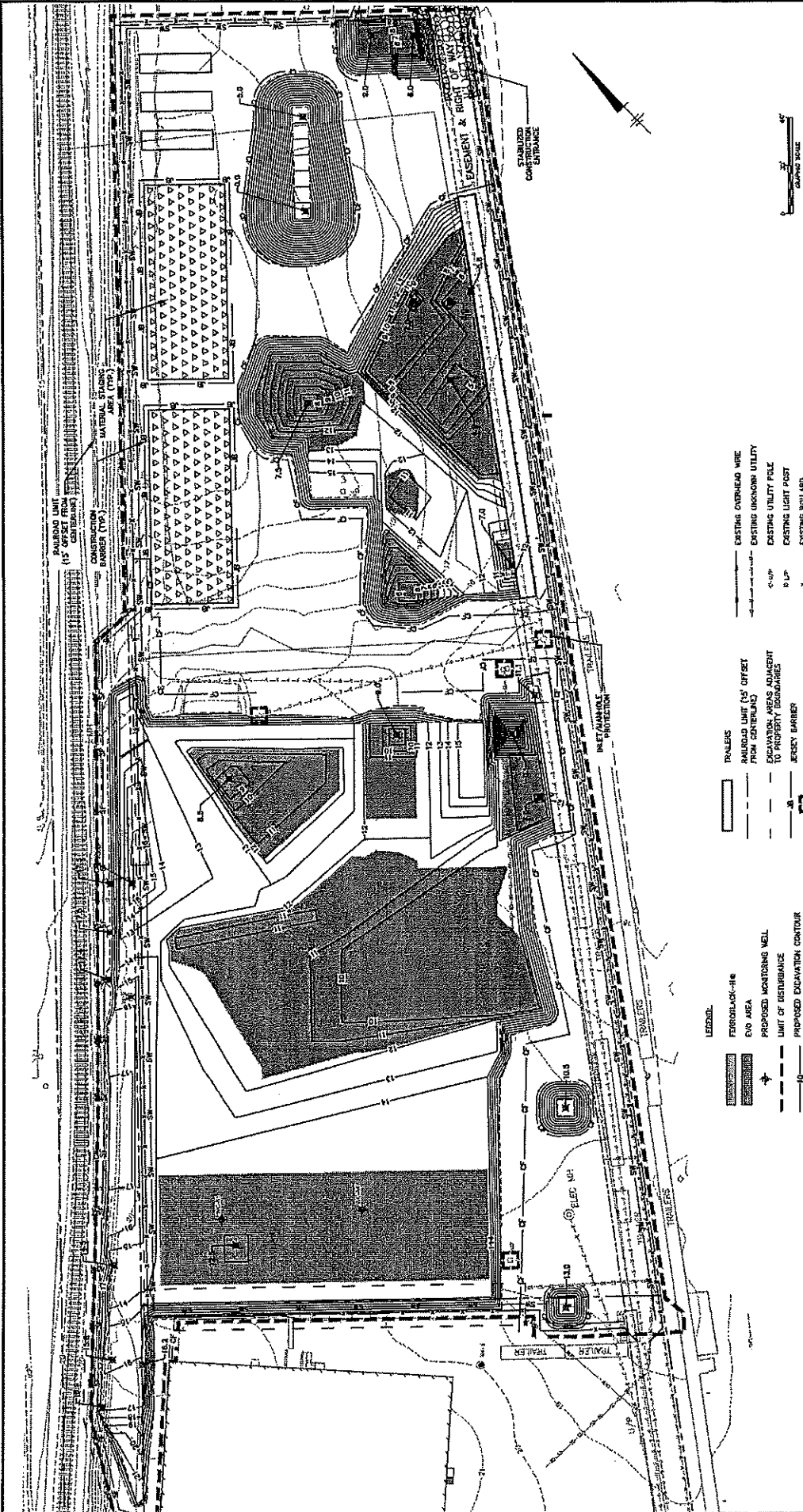
If you have any questions or concerns associated with this Discharge Authorization, please contact David Van Eck at (609) 633-2427.

Sincerely,



Mary Anne Kuserk, Chief  
Bureau of Ground Water Pollution Abatement

c: James McLaughlin, Arcadis  
R. Greenberg, Greenberg Prop. LLC



**PPG SITE 107**  
**18 CHAPEL AVENUE, JERSEY CITY, NEW JERSEY**  
**DISCHARGE TO GROUNDWATER PERMIT-BY-RULE**

**EXCAVATION PLAN**

- LEGEND:**
- FERRIS/LOU-HIE EVO AREA
  - PROPOSED MONITORING WELL
  - LIMIT OF DISTURBANCE
  - PROPOSED EXCAVATION CONTOUR
  - PROPOSED GRADE BREAK
  - PROPOSED SPOT ELEVATION
  - STRAW BATTLE
  - SALT FENCE
  - MATERIAL STAGING AREA
  - TEMPORARY CONSTRUCTION ENTRANCE
  - 6' HIGH TEMPORARY CHAIN LINK FENCE
  - HIGH VISIBILITY ORANGE CONSTRUCTION FENCE
  - TRAILERS
  - 15' OFFSET FROM CENTERLINE
  - CONSTRUCTION BARRIERS (TYP.)
  - JERSEY BARRIER
  - PILOT PROTECTION
  - PROPERTY BOUNDARY
  - EASEMENT
  - EXISTING CONTOUR
  - EXISTING WATER
  - EXISTING GAS
  - EXISTING STRAIN BOLT
  - EXISTING SANITARY SEWER
  - EXISTING OVERHEAD WIRE
  - EXISTING UNDERGROUND UTILITY
  - EXISTING UTILITY POLE
  - EXISTING LIGHT PIST
  - EXISTING BOLLARD
  - EXISTING RAILROAD TRACK
  - EXISTING MANHOLE
  - EXISTING INLET
  - EXISTING BUILDINGS
  - EXISTING MONITORING WELL
  - EXISTING MONITORING WELL TO BE ABANDONED
  - EXISTING CONCRETE

JEFFREY WAGNER, PROJECT MANAGER  
 EIC DESIGN PARTNER  
 EIC DESIGN NUMBER: 20150



## State of New Jersey

### DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

Mail Code: 401-05V

P.O. Box 420

Trenton, NJ 08625-0420

Phone: (609) 292-8427

PHIL MURPHY  
*Governor*

CATHERINE R. MCCABE  
*Commissioner*

SHEILA OLIVER  
*Lt. Governor*

19 February 2019

Jody Overmyer, Project Manager  
PPG Industries, Inc.  
440 College Park Drive  
Monroeville, PA 15146

Re: Discharge to Ground Water Authorization  
Hudson County Chrome Site 107/Site 108  
18 Chapel Avenue  
Jersey City, Hudson County  
Program Interest Number: PI# G000008728  
Subject Item ID: DGWD0000000006

Dear Ms. Overmyer,

This New Jersey Pollutant Discharge Elimination System/Discharge to Ground Water (NJPDES/DGW) authorization is hereby issued under the authority of the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq. and the implementing regulations, N.J.A.C. 7:14A-1 et seq. N.J.A.C. 7:14A-7.5 authorizes the discharge described below which will allow the application of backfill amendments at the above referenced site.

Pursuant to N.J.A.C. 7:14A-22.4(b)5, a Treatment Works Approval is not required for discharges to ground water authorized pursuant to N.J.A.C. 7:14A-7.5 or 8.5 and a licensed operator is not required pursuant to N.J.A.C. 7:10A-1.10(c)1. The discharge approved through this authorization will be to the backfill of an excavation. The discharge shall be conducted as proposed in the 13 February 2019 Discharge to Groundwater Permit-by-Rule Authorization Request and DGW proposal, received on 13 February 2019. This document was submitted on your behalf by James McLaughlin of Arcadis.

Consistent with N.J.A.C. 7:14A-7.5(b) and N.J.A.C. 7:26E-5.6(c), the duration of the approved discharge to ground water is not to exceed 180 calendar days. Be advised that the time period for the discharge begins on the day the discharge first occurs, not on the date this discharge approval letter is issued or received.

The Department shall be notified of the date when the discharge begins as instructed in section IV of this letter. Only the discharge described in Section I below is authorized. The discharge shall be

conducted in conformance with the DGW proposal and shall comply with the requirements of Sections II, III, and IV, farther below.

Regardless of whether the approved discharge is ever initiated and regardless of the date when the discharge first occurs, pursuant to N.J.A.C. 7:14A-2.7 NJDEP authorization for the permittee to initiate and conduct this approved discharge does not extend beyond five years from the date of this letter. If the approved discharge has not been initiated or completed after five years from the date on this letter, a new discharge proposal must be submitted and a new authorization letter obtained if the permittee still intends to initiate or conduct any type of discharge into or onto the ground that is subject to N.J.A.C. 7:14A-7.5(b) and N.J.A.C. 7:26E-5.6(c).

## **I. DISCHARGE DESCRIPTION**

The authorized discharge is FerroBlack<sup>®</sup>-H (Ferrous Sulfide slurry) to soil within subsurface treatment cells. Soil impacted by chromate ore processing residue (COPR) will be excavated and removed from the Site. Under this proposal, clean backfill would be blended with a low dose of FerroBlack<sup>®</sup>-H (0% to 0.5% by weight). The application of backfill amendments is intended to reduce hexavalent chromium in groundwater to the less toxic and less mobile trivalent form (Cr(III)), preventing re-contamination of soil in the excavated area and to provide groundwater remediation.

FerroBlack<sup>®</sup>-H was used at this Site in 2018 under the DGW Authorization ID: DGWD0000000003, approved by the New Jersey Department of Environmental Protection (NJDEP) on 9 May 2018. The discharge was initiated on 2 August 2018. Discharge was extended by two weeks via email communications made on 28 January 2019, and expired on 12 February 2019. As of 31 January 2019, approximately 3,130 cubic yards of backfill have been amended with 45,700 lbs of FerroBlack<sup>®</sup>-H and placed in some the areas.

Due to observations of COPR-impacted material in the sidewalls of the original planned excavations and test pits completed between the excavation areas, over-excavation is now planned to chase COPR-impacted material beyond the original planned excavation limits within unsaturated and saturated areas. Amendment of clean backfill with a low dose of FerroBlack<sup>®</sup>-H is proposed for the saturated over-excavation areas, as shown on the attached figure. The estimated volume of soil removed from these locations is 6,650 cubic yards. Assuming a FerroBlack<sup>®</sup>-H dose of 0.5% (by weight) and a backfill soil density of 1.77 tons per cubic yard, the anticipated dosing quantity is 118,000 pounds. To account for potential modification of excavation areas and depths during field execution, a safety factor for reagent application of two is being utilized to calculate the maximum reagent quantities that are considered during implementation of this PBR. The anticipated maximum dosing quantity would be 236,000 pounds.

In addition to the over-excavation areas, COPR-impacted material has been encountered in the western sidewall of Area A extending into the Conrail 15-ft offset. Due to the proximity to the railroad tracks and structural restrictions, the COPR-impacted material within the 15-ft offset will be left in place. To address the potential for transport of COPR-impacted water from the Conrail 15-ft offset, amendment of clean backfill with a low dose of FerroBlack<sup>®</sup>-H is proposed along the easement, as shown on the attached figure.

## **II. SYSTEM OPERATION AND MONITORING**

The area of discharge shall be monitored for evidence of malfunction. Said evidence shall include, but is not limited to: breakout, wet areas, ponding, odors, and elevated PID readings in the nearby work area or building.

The discharge shall not cause any of the following negative impacts: adverse impact on the behavior of free product or the plume; adverse impacts to a water supply well or have a long term adverse impact on ground water quality; create an unpermitted discharge to any surface water of the State or violation of Surface Water Quality Standards; create a persistent standing, ponded or surface-flowing fluid condition; or cause adverse vapor intrusion to occur.

Pursuant N.J.A.C. 7:14A-6.2(a)5 and 11, if free product in ground water, vapors or odors in any building, or any malfunction resulting in a potential impact to a receptor are detected and are a result of the discharge authorized by this approval, the discharger will immediately: (1) cease the discharge or make necessary adjustments to the discharge rate or system operation; and (2) repair or mitigate any negative impacts.

After completion of the discharge, the property should be returned to its previous condition, or as agreed to with property owner if the permittee is not the property owner.

## **III. GROUND WATER MONITORING REQUIREMENTS**

The Permittee shall perform the following ground water sampling as was specified in the DGW proposal (including all addendums and modifications) for the purpose of complying with this Discharge to Ground Water Permit-By-Rule authorization.

Baseline Sampling, before the discharge:

Baseline groundwater samples were collected from 12 temporary wells installed in January 2018.

Post Treatment Sampling, after completion of the discharge:

The post-mixing monitoring process will include the collection of groundwater samples for laboratory analyses of total and dissolved Cr, total and dissolved Cr(IV), and total target analyte list (TAL) metals and field parameters including pH, dissolved oxygen, conductivity, turbidity, temperature, and oxidation reduction potential (in accordance with the NJDEP Technical Guidance: *In Situ Remediation: Design Considerations and Performance Monitoring Technical Guidance Documents*, dated October 2017). Samples will be collected in accordance with the *Quality Assurance Project Plan - Addendum* included as part of the *Technical Execution Plan (TEP)* package submittal in April 2018. Monitoring wells will be installed at well locations equivalent to where elevated Cr(IV) was identified in the temporary wells installed in January 2018 to conduct the post-mixing monitoring.



The first post-mixing monitoring event will be incorporated into a groundwater investigation tentatively planned for September 2019 (approximately three months following completion of all proposed backfill amendments). The frequency and locations of initial and subsequent groundwater monitoring will be presented in the *Groundwater Remedial Investigation Workplan* (currently scheduled to be submitted to the NJDEP in May 2019).

Pursuant to the Tech Regs, the Permittee shall measure ground water elevations at all sampled wells upon each sampling event and shall construct ground water flow maps with the water elevation data to document the direction of ground water flow. Any product observed, including sheen, shall be documented. If measurable product is observed, injections shall be suspended until all of the recoverable product is removed from the treatment area.

All sampling shall be performed as proposed and consistent with the methods specified in the most current edition of the Department's *Field Sampling Procedures Manual*. All samples shall be analyzed by a New Jersey Certified Laboratory certified for the methods being used to analyze groundwater samples. Analytical method MDLs shall be less than or equal to the ground water quality standards (N.J.A.C. 7:9C-1.7). Parameters determined in the field (pH, dissolved oxygen, conductivity, turbidity, temperature, and oxidation reduction potential) are to be measured by a certified contractor or laboratory.

Comparison to the vapor intrusion (VI) screening levels is necessary in order to monitor whether or not the discharge activities have the potential to cause VI issues within any nearby structures by means of adversely impacting the behavior of the ground-water contaminants (e.g., unexpected contaminant movement). If there are any exceedances of the VI screening levels caused by the authorized discharge, a VI evaluation shall be conducted of any potentially impacted structures.

Compliance with N.J.A.C. 7:26E-5.7(b) requires that the Permittee satisfy the post-injection ground water monitoring requirements that are set forth in this letter before applying for any Remedial Action Permit for Ground Water. If a Remedial Action Permit application is submitted before the required ground water sampling has been completed, the application will be denied.

Additionally, contingency compliance ground water sampling is required if ground water sampling results indicate that ground water quality criteria (GWQC) have been contravened because of the authorized discharge (e.g., the GWQC for sodium is exceeded as a result of sodium persulfate injection, or the GWQC for iron is exceeded as a result of pH change), or that ground water quality has not returned to baseline conditions (when baseline concentrations are greater than GWQC) in the expected timeframe. Ground water sampling must continue until it can be demonstrated that the GWQC have been met or until the ground water quality has returned to baseline conditions. To demonstrate either of these conditions, a minimum of two consecutive ground water sampling events spaced far enough apart to account for seasonal fluctuations, must be conducted.

Furthermore, if the Permittee is planning to apply for a Ground Water Remedial Action Permit for Natural Attenuation in the future, and exceedances of the GWQC that are due to the discharge remain, those exceedances must be treated similarly to any other site related contaminants (i.e., a sufficient number of samples are required and a decreasing concentration trend must be evident) consistent with the Department's Remedial Action Permits for Ground Water Guidance.

#### **IV. REPORTING REQUIREMENTS AND INFORMATION SUBMITTALS**

All information, including a detailed summary of the discharge and ground water sampling results, as well as the QA/QC package specified at N.J.A.C. 7:26E-2.1(a)15 shall be submitted with the Remedial Action Report prepared for the Site.

Consistent with N.J.A.C. 7:14A-2.11(a) and 6.2(a)14, within 14 days after initiation of the discharge, notify the Department of the “start date” of the discharge. To report this date, send an email to [David.VanEck@dep.nj.gov](mailto:David.VanEck@dep.nj.gov) stating the start date of the discharge.

Consistent with N.J.A.C. 7:14A-2.11(a) and 6.2(a)14, any malfunctions or non-compliance should be reported by telephone within 24 hours to the Bureau of Ground Water Pollution Abatement at (609) 292-8427 and in writing within seven days. Written submissions must include the facility name and PI Number. Failure to report this information is a violation of N.J.A.C. 7:14A and the permit-by-rule.

If you have any questions or concerns associated with this Discharge Authorization, please contact David Van Eck at (609) 633-2427.

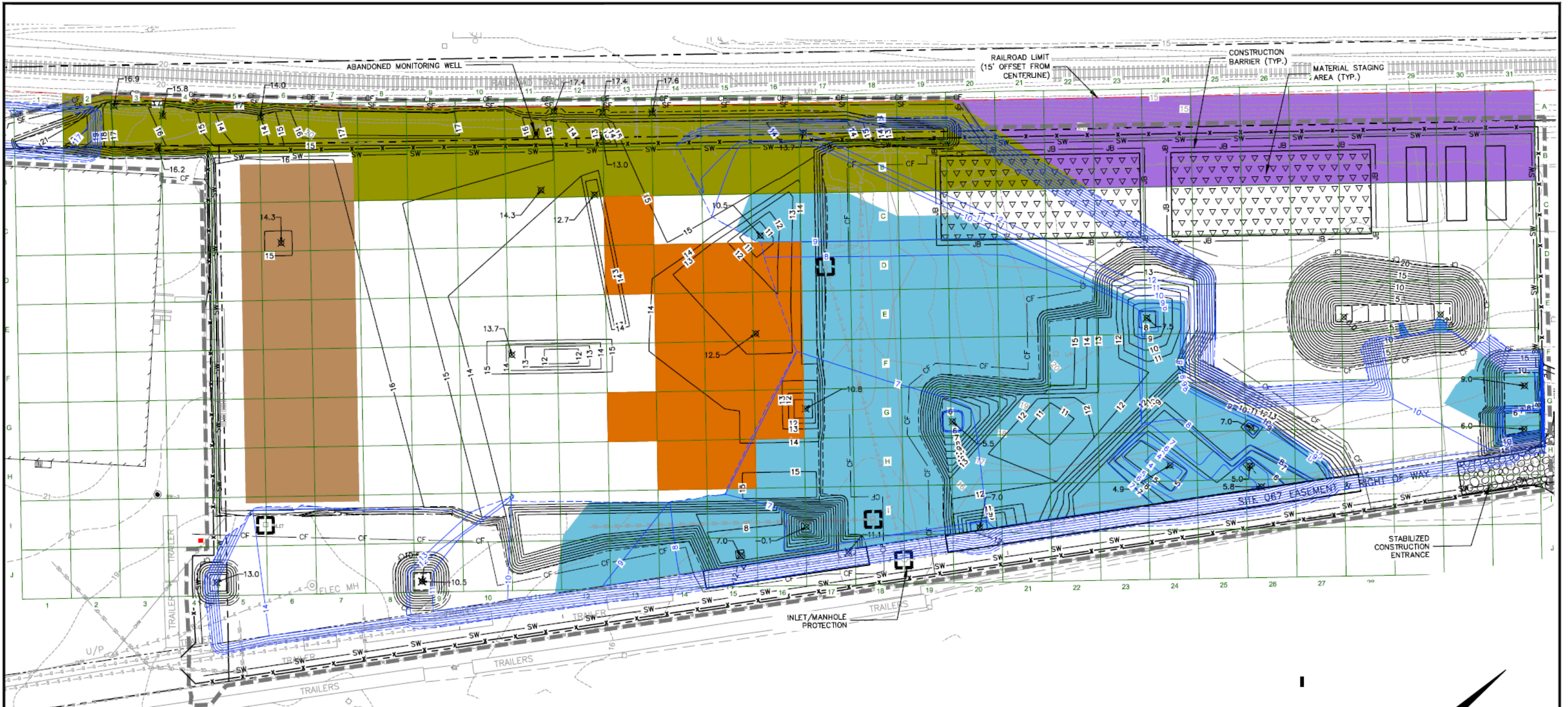
Sincerely,

A handwritten signature in blue ink that reads "Mary Anne Kuserk".



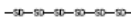


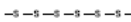





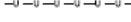






















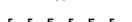




Mary Anne Kuserk, Chief  
Bureau of Ground Water Pollution Abatement

Enclosure

c: James McLaughlin, Arcadis  
David McCall, Conrail  
Andrew Campbell, Site 107 Owner  
John Del Monaco, Site 108 Owner

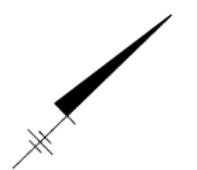
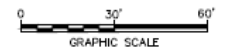


**LEGEND:**

- |   |   |   |  |   |                           |
|---|---|---|--|---|---------------------------|
|  | COMPLETED 0.5% FERROBLACK-H@ (VADOSE)                                       |  | 6' HIGH TEMPORARY CHAIN LINK FENCE               |  | EXISTING STORM DRAIN      |
|  | COMPLETED 0.5% FERROBLACK-H@ (SATURATED)                                    |  | HIGH VISIBILITY ORANGE CONSTRUCTION FENCE        |  | EXISTING SANITARY SEWER   |
|  | PROPOSED 0.5% FERROBLACK-H@ (VADOSE-WEST SIDEWALL)                          |  | TRAILERS   |  | EXISTING OVERHEAD WIRE    |
|  | PROPOSED SECONDARY 0.5% FERROBLACK-H@, IF REQUIRED (VADOSE - WEST SIDEWALL) |  | RAILROAD LIMIT (15' OFFSET FROM CENTERLINE)      |  | EXISTING UNKNOWN UTILITY  |
|  | PROPOSED 0.5% FERROBLACK-H@ (SATURATED)                                     |  | EXCAVATION AREAS ADJACENT TO PROPERTY BOUNDARIES |  | EXISTING UTILITY POLE     |
|  | LIMIT OF DISTURBANCE  |  | JERSEY BARRIER                                   |  | EXISTING LIGHT POST       |
|  | PROPOSED OVER-EXCAVATION CONTOUR (12/24/2018)                               |  | INLET PROTECTION                                 |  | EXISTING BOLLARD          |
|  | PROPOSED EXCAVATION CONTOUR (4/19/2018)                                     |  | PROPERTY BOUNDARY                                |  | EXISTING MANHOLE          |
|  | PROPOSED EXCAVATION GRADE BREAK (4/19/2018)                                 |  | EASEMENT   |  | EXISTING INLET            |
|  | PROPOSED SPOT ELEVATION (4/19/2018)   |  | EXISTING CONTOUR                                 |  | EXISTING BUILDINGS        |
|  | STRAW WATTLE  |  | EXISTING ELECTRIC                                |  | EXISTING MONITORING WELL  |
|  | SILT FENCE  |  | EXISTING WATER                                   |  | ABANDONED MONITORING WELL |
|  | MATERIAL STAGING AREA   |  | EXISTING GAS                                     |   |                           |
|  | TEMPORARY CONSTRUCTION ENTRANCE   |   |  |   |                           |

**NOTE:**

- MONITORING WELL LOCATIONS WILL BE PROPOSED AS PART OF THE REMEDIAL ACTION WORK PLAN FOR GROUNDWATER TO BE SUBMITTED IN FALL 2019.



PPG SITE 107  
18 CHAPEL AVENUE, JERSEY CITY, NEW JERSEY  
**DISCHARGE TO GROUNDWATER PERMIT-BY-RULE**

**FERROBLACK® APPLICATION**



REFS: IMAGES, PROJECTNAME  
EXCDESIGNANDBASEMAP  
DTGWP-X-TITLE  
EXCDESIGNANDBASEMAP

SITE 107

**Discharge to Surface Water General Permit for Construction Activity - Stormwater (5G3)  
from the NJDEP, Division of Water Quality**

New Jersey Department of Environmental Protection



**Mail Code - 401-02B**  
**Bureau of Nonpoint Pollution Control**  
**Water Pollution Management Element**  
**PO Box 420**  
**Trenton, NJ 08625-0420**  
**Phone: (609) 633-7021**  
**Fax: (609) 777-0432**

<b>PI ID #:</b> 780476_
<b>Portal ID#:</b> 816919
<b>NJPDES #:</b> NJG0281476
<b>Payment Arrangement:</b> Credit Card
<b>Paid Online:</b> Yes
<b>Paid On:</b> 05/25/2018
<b>Paid Amt:</b> \$650.00

This Authorization form is requested to be located at the regulated construction site at all times and be available for inspection by any authorized representative of the New Jersey Department of Environmental Protection. If you have designated an agent, it is your responsibility to notify your agent about this General Permit and its requirements.

**AUTHORIZATION TO DISCHARGE**  
**5G3 -Construction Activity Stormwater (GP)**

To ensure compliance during the construction activity please print out the Stormwater Construction Permit terms and conditions located at  
<http://www.nj.gov/dep/dwq/5g3.htm>

**Facility Name and Address:**  
 PPG SITE 107 FASHIONLAND  
 18 Chapel Avenue  
 Jersey City, NJ 27401

**Type of Activity:** Stormwater Discharge General Permit Authorization New

**Owner:**  
 PPG  
 440 College Park Drive  
 Monroeville, PA 15146

**Operating Entity:**  
 ARCADIS US INC  
 10 FRIENDS LN  
 NEWTOWN, PA 18940

*Electronically certified online by the responsible party David Caballero On 05/21/2018.*

Issuance Date	Effective Date of Authorization
05/25/2018	05/25/2018

Your Request for Authorization under NJPDES General Permit No. NJG0281476 has been approved by the New Jersey Department of Environmental Protection.

James J. Murphy, Chief  
 Bureau of Nonpoint Pollution Control  
 Division of Water Quality  
 New Jersey Department of Environmental Protection

**Date:** 05/25/2018

**Soil Conservation District – HUDSON-ESSEX-PASSAIC**  
 80 Orchard St  
 Bloomfield, NJ 07003  
 (862) 333-4505

SITE 107

**SESCP approvals from Hudson-Essex-Passaic County Soil Conservation District**



Hudson Essex Passaic Soil Conservation District  
Attn: Dave Malka  
80 Orchard St.  
Bloomfield, NJ 07003  
Phone: 862-333-4505

Arcadis U.S., Inc.  
10 Friends Lane  
Suite 200  
Newtown  
Pennsylvania 18940  
Tel 267 685 1800  
Fax 267 685 1801  
www.arcadis.com

Subject:  
PPG Site 107 Fashionland – Soil Erosion and Sediment Control Plan  
Modification No. 3, 18 Chapel Avenue, Jersey City, NJ 07305  
(218-h-4036)

ENVIRONMENT

Date:  
July 19, 2019

Dear Mr. Malka:

Contact:  
David Caballero, P.E.

Arcadis U.S. Inc. (Arcadis), on behalf of PPG Industries (PPG) has prepared this Modification for the Soil Erosion and Sediment Pollution Control Plan (SESCP) for the Site 107 Fashionland demolition and excavation, located at 18 Chapel Avenue in Jersey City, Hudson County, New Jersey (the Site). This Modification has been prepared in accordance with the New Jersey Soil Erosion and Sediment Control Act, Chapter 251, P.L. 1975 as amended (New Jersey Statutes Annotated [NJSA] 4:24-39 et. seq.).

Phone:  
267.685.1800

Email:  
David.Caballero@arcadis.com

## PROPERTY OWNER AUTHORIZATION

Our ref:  
NP000770

The Limit of Disturbance is designated as Block 27401, Lot 40, 42, 43 and 45 on the city tax maps and is approximately 6 acres in size. Prior submittals have included property owner authorization to complete the work; however, Block 27401, Lot 42 recently transferred ownership from East Greenberg Property, LLC to Eastern Millwork, Inc. PPG has obtained authorization from the new property owner as documented in **Attachment 1**.

## REVISED LIMIT OF DISTURBANCE

The modification proposes to disturb an additional 0.2 acres, increasing the temporary disturbance to approximately 6.7 acres (**Attachment 1**). The original temporary disturbance of 5.7 acres was approved under SESC, Application No. 218-h-4036 on May 14, 2018. A revised temporary disturbance of 6.5 acres was subsequently approved under SESC, Application No. 218-h-4036, Re-Review#218-H-0056 approved on February 27, 2019.

## SOIL EROSION AND SEDIMENT CONTROLS

In general, the major activities of the remedial action along with inspections, maintenance and reporting will not change from the information outlined within the original approved SESC Plan. As part of this modification, the erosion and sediment controls proposed under the current approved SESC Plan will be expanded to the additional area on Block 27401, Lot 43 (**Attachment 2**). Disturbed areas will be restored to existing grade with no net cut/fill. No permanent stormwater best management practices will be required.

## SUMMARY

The proposed remedial action is ongoing and will be completed in 2019. The remedial action will be completed in accordance with the SESCO (Erosion and Sediment Control Plan) Drawings. A copy of each of the revised SESCO Drawings is provided for review (**Attachment 3**).

The limit of disturbance (LOD) on SESCO Drawing 3 (Erosion and Sediment Control Plan) and Drawing No 4 (Final Grading Plan) were revised based on the anticipated extent of excavation. The LOD increased by 0.2 acres for a total acreage of 6.7 acres. A copy of the updated SESCO Plan Certification Application is provided as **Attachment 2**.

If you should have any questions during your review and approval of this application, please do not hesitate to contact me at 267.685.1800.

Sincerely,

Arcadis U.S., Inc.



David A. Caballero  
Technical Expert, PE-NJ 24GE04919300

Copies:

J. Overmyer, PPG  
R. Feinberg, PPG  
J. McLaughlin, Arcadis

Attachments:

- 1 Property Owner Authorization Form – Lot 42
- 2 SESCO Plan Certification Application
- 3 Revised SESCO Drawings - Proposed Demolition and Excavation, PPG Site 107 Fashionland





HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT

80 ORCHARD STREET
BLOOMFIELD, NJ 07003-5104
Telephone: (862) 333-4505
Fax: (862) 333-4507
www.hepsoilnj.org

Property Owner Authorization Form

Name of Project PPG Site 107 Fashion Land

Block(s) 27401 Lot(s) 42

Project Street Address

Project Municipality Jersey City

Property Owner (Individual or Company) Ancam, LLC

Property Owner's Phone 646-808-4969 / 973-277-2126

Name of Company Contact Person (if applicable) JAMES BONALSKY, CTO OR ANDREW CAMPBELL

Property Owner's Mailing Address 143 CHAPEL AVENUE JERSEY CITY, NEW JERSEY 07305

Property Owner's Physical Address SAME AS ABOVE

Property Owner's E-Mail Address JBONALSKY@ANCAMLLC.COM

Applicant's Name David A. Caballero, P.E.

Applicant's Phone 267.685.1800

Applicant's Company Name (if applicable) Arcadis U.S. Inc.

Applicant's Mailing Address 10 Friends Lane, Suite 200 Newtown, PA 18940

Applicant's Physical Address Same as Above

Applicant's E-Mail Address david.caballero@arcadis.com

I, ANDREW CAMPBELL Member of Ancam, LLC, authorize DAVID CABALLERO + ARCADIS US, INC (Print Name of Owner) (Print Name of Applicant)

to act on my behalf for the Soil Erosion and Sediment Control Plan and Application for the above referenced property.

Signed [Signature] (Signature of Property Owner) Member, Ancam, LLC

Date July 12, 2019



For District Use Only


### APPLICATION FOR SOIL EROSION AND SEDIMENT CONTROL PLAN CERTIFICATION

The enclosed soil erosion and sediment control plan and supporting information are submitted for certification pursuant to the Soil Erosion and Sediment Control Act, Chapter 251, P.L. 1975 as amended (NJSA 4:24-39 et. seq.) An application for certification of a soil erosion and sediment control plan shall include the items listed on the reverse side of this form.

Name of Project PPG Site 107 Fashionland		Project Location: Municipality Jersey City	
Project Street Address 18 Chapel Avenue, Jersey City, NJ 07305		Block 27401	Lot 40, 42, 43 and 45
Project Owner(s) Name PPG - Jody Overmyer		Email overmyer@ppg.com	Phone # 724.325.5070 Fax #
Project Owner(s) Street Address (No P.O. Box Numbers) 440 College Park Drive		City Monroeville	State PA Zip 15146
Total Area of Project (Acres) 6.7	Total Area of Land to be Disturbed (Acres) : 6.7	No. Dwelling or other Units 1	Fee \$ 150.00
Plans Prepared by* ARCADIS U.S., Inc.			Phone # 267.685.1800 Fax # 267.685.1801
Street Address 10 Friends Lane, Suite 200		City Newtown	State PA Zip 18940

\*(Engineering related items of the Soil Erosion and Sediment Control Plan MUST be prepared by or under the direction of and be sealed by a Professional Engineer or Architect licensed in the State of New Jersey, in accordance with NJAC 13:27-6.1 et. seq.)

Agent Responsible During Construction David A. Caballero, P.E.		Email david.caballero@arcadis.com
Street Address 10 Friend Lane, Suite 200		
City Newtown	State PA	Zip 18940
Phone 267.685.1800	Fax # 267.685.1801	

The applicant hereby certifies that all soil erosion and sediment control measures are designed in accordance with current **Standards for Soil Erosion and Sediment Control In New Jersey** and will be installed in accordance with those Standards and the plan as approved by the Soil Conservation District and agrees as follows:

- To notify the District in writing at least 48 hours in advance of any land disturbance activity. Failure to provide such notification may result in additional inspection fees.
- To notify the District upon completion of the Project (Note: No certificate of occupancy can be granted until a report of compliance is issued by the District.
- To maintain a copy of the certified plan on the project site during construction.
- To allow District agents to go upon project lands for inspection.
- That any conveyance of this project or portion thereof prior to its completion will transfer full responsibility for compliance with the certified plan to any subsequent owners.
- To comply with all terms and conditions of this application and certified plan including payment of all fees prescribed by the district fee schedule hereby incorporated by reference.

The applicant hereby acknowledges that structural measures contained in the Soil Erosion and Sediment Control Plan are reviewed for adequacy to reduce offsite soil erosion and sedimentation and not for adequacy of structural design. The applicant shall retain full responsibility for any damages which may result from any construction activity notwithstanding district certification of the subject soil erosion and sediment control plan. It is understood that approval of the plan submitted with this application shall be valid only for the duration of the initial project approval granted by the municipality. All municipal renewals of this project will require submission and approval by the district. In no case shall the approval extend beyond three and one half years at which time resubmission and certification will be required. Soil Erosion and Sediment Control Plan certification is limited to the controls specified in the plan. It is not authorization to engage in the proposed land use unless such use has been previously approved by the municipality or other controlling agency. It is further understood that all documents, site plans, design reports etc. submitted to the district shall be made available to the public (upon request) pursuant to the Open Public Records Act, N.J.S.A. 47:1A-1 et seq.

1. Applicant Certification*  Signature <u>David A. Caballero</u> Date <u>7/19/2019</u>  Applicant Name (Print) David A. Caballero	3. Plan determined complete:  Signature of District Official _____ Date _____  _____
2. Receipt of fee, plan and supporting documents is hereby acknowledged:  Signature of District Official _____ Date _____  _____	4. Plan certified, denied or other actions noted above. Special Remarks:  Signature of District Official _____ Date _____  _____

\*If other than project owner, written authorization of owner must be attached.

SSCC251 AP10 1/2014



440 College Park Drive  
Monroeville, PA 15146 USA  
T: 724.325.5070  
M: 412.235.8881  
E: [overmyer@ppg.com](mailto:overmyer@ppg.com)  
ppg.com

**Jody Overmyer**  
Remediation Project Engineer

April 5, 2018

Hudson, Essex, and Passaic Soil Conservation District  
Attn: Glen Van Olden – District Manager  
80 Orchard Street  
Bloomfield, NJ 07003  
Phone: 862-333-4505

PPG Site 107 Fashionland - Soil Erosion and Sediment Control Plan  
18 Chapel Avenue, Jersey City, NJ 07305

Dear Mr. Van Olden,

PPG Industries hereby grants the approval of David A. Caballero, P.E. to act as their authorized agent for preparation, certification, and submittal of the Soil Erosion and Sediment Control Plan and Application for the PPG Site 107 Fashionland Demolition and Excavation located at 18 Chapel Avenue in Jersey City, Hudson County, New Jersey.

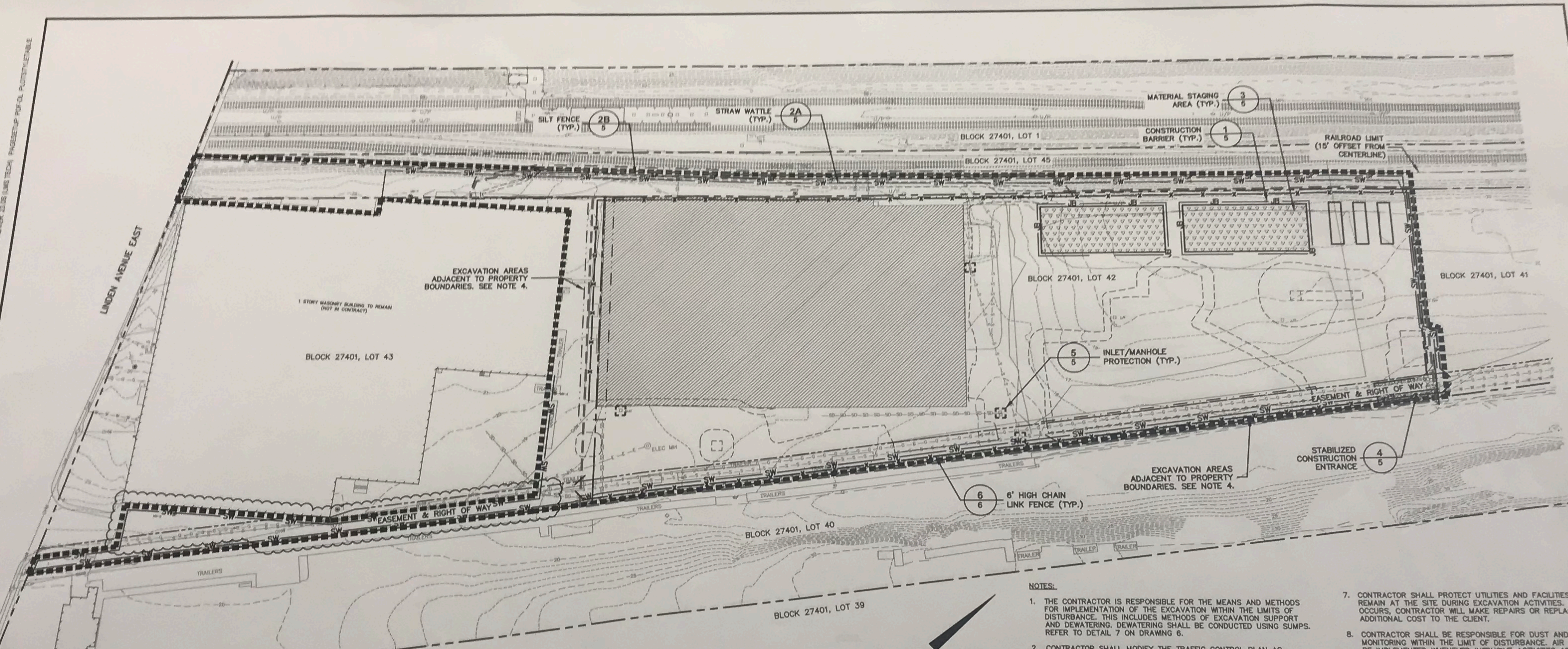
We have attached an executed Application by Corporation or Partnership Ownership Disclosure Affidavit, as required. If you should have any questions, do not hesitate to contact me at (724) 325-5070.

Sincerely,

A handwritten signature in black ink that reads 'Jody Overmyer' followed by the letters 'es'.

Jody Overmyer





LEGEND	
	MODIFIED LIMIT OF DISTURBANCE
	PROPOSED LIMIT OF DISTURBANCE
	LIMIT OF DEMOLITION
	PROPOSED EXCAVATION CONTOUR
	PROPOSED EXCAVATION GRADE BREAK
	PROPOSED SPOT ELEVATION
	STRAW WATTLE
	SILT FENCE
	MATERIAL STAGING AREA
	TEMPORARY CONSTRUCTION ENTRANCE
	6' HIGH TEMPORARY CHAIN LINK FENCE
	TRAILERS
	RAILROAD LIMIT (15' OFFSET FROM CENTERLINE)
	EXCAVATION AREAS ADJACENT TO PROPERTY BOUNDARIES
	JERSEY BARRIER
	INLET PROTECTION
	PROPERTY BOUNDARY
	EASEMENT
	EXISTING CONTOUR
	EXISTING ELECTRIC
	EXISTING WATER
	EXISTING GAS
	EXISTING STORM DRAIN
	EXISTING SANITARY SEWER
	EXISTING OVERHEAD WIRE
	EXISTING UNKNOWN UTILITY
	EXISTING UTILITY POLE
	EXISTING LIGHT POST
	EXISTING BOLLARD
	EXISTING RAILROAD TRACK
	EXISTING MANHOLE
	EXISTING INLET
	EXISTING BUILDINGS
	EXISTING MONITORING WELL
	EXISTING MONITORING WELL TO BE ABANDONED
	EXISTING CONCRETE

- NOTES:**
1. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS FOR IMPLEMENTATION OF THE EXCAVATION WITHIN THE LIMITS OF DISTURBANCE. THIS INCLUDES METHODS OF EXCAVATION SUPPORT AND DEWATERING. DEWATERING SHALL BE CONDUCTED USING SUMPS. REFER TO DETAIL 7 ON DRAWING 6.
  2. CONTRACTOR SHALL MODIFY THE TRAFFIC CONTROL PLAN AS NECESSARY TO FACILITATE ACCESS TO ALL PLANNED AREAS OF EXCAVATION. DUE TO EXCAVATION LIMITS, IT WILL BE NECESSARY TO PROVIDE ALTERNATE ROUTES DURING PORTIONS OF THE WORK.
  3. CONTRACTOR SHALL IDENTIFY AND MAINTAIN IN THE FIELD THE LOCATION OF THE RAILROAD LIMIT TO ENSURE THE EXCAVATION DOES NOT FOUL THE TRACK. ALL SLOPES ALONG THE RAILROAD LIMIT SHALL BE MAINTAINED AS A 1.5 HORIZONTAL TO 1 VERTICAL.
  4. EXCAVATIONS LOCATED ALONG THE PROPERTY BOUNDARIES ARE CURRENTLY BEING EVALUATED FOR SLOPE STABILITY ANALYSIS AND SHALL REQUIRE PROPERTY OWNER ACCESS APPROVAL. THE EXCAVATION LIMITS AND PROPOSED SLOPING DETAILS ARE SUBJECT TO CHANGE. ADDITIONAL MONITORING MAY BE REQUIRED TO BE PERFORMED BY OTHERS. THE SLOPE STABILITY ANALYSIS AND ADDITIONAL MONITORING MAY RESTRICT MEANS AND METHODS SELECTED BY THE CONTRACTOR TO EXECUTE THE WORK.
  5. TEMPORARY 6' HIGH CHAIN LINK FENCE, STRAW WATTLE, SILT FENCE OR EQUIVALENT, LIMIT OF DISTURBANCE AND PROPERTY BOUNDARY ARE SHOWN SEPARATE FOR CLARITY. 6' HIGH CHAIN LINK FENCE TO BE PLACED ON PROPERTY BOUNDARY.
  6. TEMPORARY 6' HIGH CHAIN LINK TO BE TEMPORARILY REMOVED AND REPLACED WITH HIGH VISIBILITY CONSTRUCTION FENCE AND SILT FENCE WHEN PERFORMING WORK OFF-SITE (I.E. CONRAIL RIGHT-OF-WAY). THE HIGH VISIBILITY CONSTRUCTION FENCE AND SILT FENCE WILL BE OFF-SET 15 FEET FROM CENTERLINE OF RAILROAD TRACKS, WHEN PERFORMING EXCAVATION WITHIN THE CONRAIL RIGHT-OF-WAY.
  7. CONTRACTOR SHALL PROTECT UTILITIES AND FACILITIES SLATED TO REMAIN AT THE SITE DURING EXCAVATION ACTIVITIES. IF DAMAGE OCCURS, CONTRACTOR WILL MAKE REPAIRS OR REPLACE AT NO ADDITIONAL COST TO THE CLIENT.
  8. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST AND ODOR MONITORING WITHIN THE LIMIT OF DISTURBANCE. AIR MONITORING TO BE IMPLEMENTED WHENEVER INTRUSIVE ACTIVITIES ARE BEING CONDUCTED.
  9. CONTRACTOR SHALL LEAVE THE CONCRETE SLAB ASSOCIATED WITH BUILDING DEMOLITION IN PLACE AND REMOVE DURING EXCAVATION. THIS WILL ENSURE SOIL IS NOT DISTURBED UNTIL ALL INFRASTRUCTURE IS IN PLACE TO MANAGE IMPACTED SOIL AND TO CONTROL POTENTIAL CHROMIUM BLOOMS.
  10. THE CONTRACTOR SHALL MANAGE CONCRETE, METAL IMPACTED SOIL AND COPW IMPACTED SOIL SEPARATELY FOR CHARACTERIZATION AND OFF-SITE DISPOSAL. CONCRETE SHALL BE CRUSHED INTO MANAGEABLE SIZES IN ACCORDANCE WITH THE DISPOSAL FACILITY REQUIREMENTS.
  11. CONTRACTOR SHALL BE RESPONSIBLE FOR CONDITIONING SOILS (IF NECESSARY) SO THAT FREE LIQUIDS MEET PAINT FILTER REQUIREMENTS. CONTRACTOR SHALL PERFORM PAINT FILTER TESTING ON SOILS PRIOR TO LOADING INTO TRUCKS OR ROLLOFFS FOR OFF-SITE DISPOSAL.
  12. CONTRACTOR TO UTILIZE TRENCH BOX OR EQUIVALENT FOR EXCAVATIONS BEING CONDUCTED ALONG THE EASEMENT/RIGHT-OF-WAY AND PROPERTY BOUNDARIES. REFER TO SUPPORT OF EXCAVATION DRAWINGS PREPARED BY MUESER-RUTLEDGE ENGINEERING CONSULTANTS DATED MARCH 2018.
  13. WORK TO BE PERFORMED IN ACCORDANCE WITH THESE CONTRACT DRAWINGS ARE BOUND BY BLOCK 27401, LOT 42 AND 45 ("SITE 107" AND CONRAIL RIGHT-OF-WAY, RESPECTIVELY) AND EXCLUDE REMEDIATION WITHIN THE UTILITY EASEMENT EXCEPT WHERE REQUIRED TO BENCH AND/OR SLOPE TO MEET THE PROPOSED EXCAVATION LIMITS.

CITY STRABURG DIVISION EN/CAD D&G STEINBERGER, LD. PIC. PM/COMGR. T&P BROWN. L&D ONE-OFF-REP. PLOT DATED 5/24/2018. PLOTTED 5/24/2018. 11:46 AM. BY: STEINBERGER, GEORGE. EXC-DESIGN-NOT-DB-X-BASE-MUP EXC-DESIGN-NOT-DB-X-TITLE EXC-DESIGN-NOT-DB-X-SESC

No.	Date	Revisions	By	Ckg
4	5/10/2019	SESC Modifications		
3	1/30/2019	SESC Modifications (LOD revised and controls adjusted for new LOD)		
2	10/26/2018	SESC Modifications		
1	5/10/2018	HEPSCD Comment		

Professional Engineer's Name <b>DAVID A. CABALLERO</b>		
Professional Engineer's No. 24GE04919300		
State NJ	Date Signed 11/6/2018	Project Mgr. JM
Designed by MB	Drawn by GS	Checked by KM

**ARCADIS** Design & Consultancy for natural and built assets

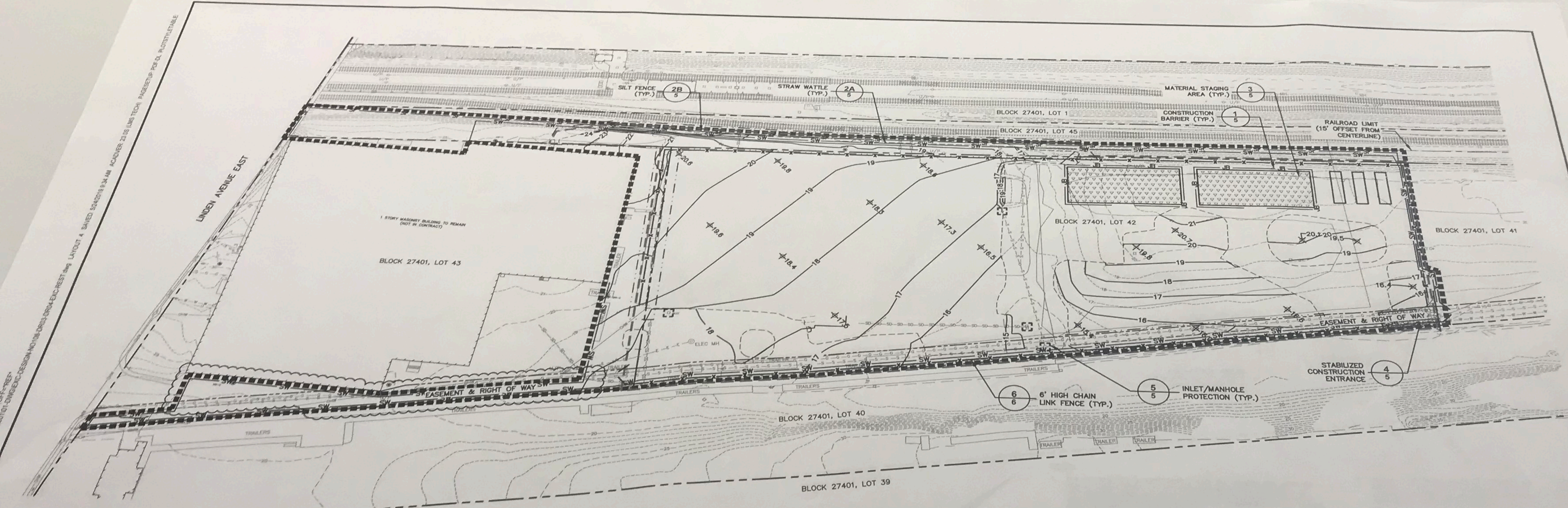
ARCADIS U.S., INC.  
NEW JERSEY ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 24GA27939600

PPG SITE 107 FASHIONLAND • 18 CHAPEL AVENUE, JERSEY CITY, NEW JERSEY  
PROPOSED DEMOLITION AND EXCAVATION

## EROSION AND SEDIMENT CONTROL PLAN

ARCADIS Project No. NP000770.0001.00003	3
Date MARCH 2018	
ARCADIS 10 Friends Lane, Suite 100 Newtown, PA 18940 Tel: 267-685-1800	





**LEGEND:**

- MODIFIED LIMIT OF DISTURBANCE
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED FINAL GRADE CONTOUR
- PROPOSED FINAL GRADE BREAK
- 15.0 --- PROPOSED SPOT ELEVATION
- STRAW WATTLE
- SILT FENCE
- TEMPORARY CONSTRUCTION ENTRANCE
- 6' HIGH TEMPORARY CHAIN LINK FENCE
- TRAILERS
- INLET PROTECTION
- RAILROAD LIMIT (15' OFFSET FROM CENTERLINE)
- PROPERTY BOUNDARY
- EASEMENT
- EXISTING CONTOUR
- EXISTING ELECTRIC
- EXISTING WATER
- EXISTING GAS
- EXISTING STORM DRAIN
- EXISTING SANITARY SEWER
- EXISTING OVERHEAD WIRE
- EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING LIGHT POST
- EXISTING BOLLARD
- EXISTING RAILROAD TRACK
- EXISTING MANHOLE
- EXISTING INLET
- EXISTING BUILDINGS
- EXISTING MONITORING WELL
- EXISTING CONCRETE

**NOTES:**

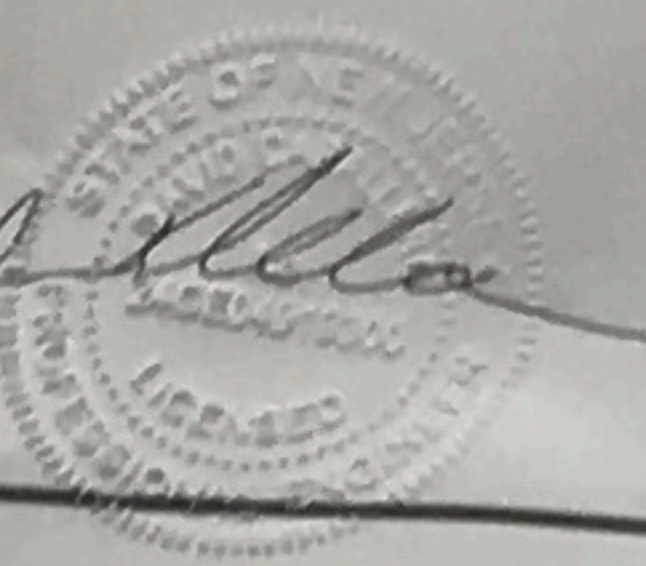
1. THE CONTRACTOR SHALL SAMPLE AND TEST IMPORTED CLEAN FILL IN ACCORDANCE WITH NJDEP ALTERNATIVE AND CLEAN FILL GUIDANCE FOR SRP SITES (2015). THE ENGINEER SHALL APPROVE RESULTS PRIOR TO SHIPMENT OF ANY OF THOSE RESPECTIVE MATERIALS TO THE SITE.
2. TEMPORARY 6' HIGH CHAIN LINK FENCE, STRAW WATTLE, SILT FENCE OR EQUIVALENT, LIMIT OF DISTURBANCE AND PROPERTY BOUNDARY ARE SHOWN SEPARATE FOR CLARITY. 6' HIGH CHAIN LINK FENCE TO BE PLACED ON PROPERTY BOUNDARY.
3. TEMPORARY 6' HIGH CHAIN LINK TO BE TEMPORARILY REMOVED AND REPLACED WITH HIGH VISIBILITY CONSTRUCTION FENCE AND SILT FENCE WHEN PERFORMING WORK OFF-SITE (I.E. CONRAIL RIGHT-OF-WAY). THE HIGH VISIBILITY CONSTRUCTION FENCE AND SILT FENCE WILL EXCAVATION WITHIN THE CONRAIL RIGHT-OF-WAY.
4. NO BACKFILL SHALL BE PLACED UNTIL THE ENGINEER HAS APPROVED THE FINAL EXCAVATION GRADE. NO BACKFILL SHALL BE PLACED ON SOFT GROUND OR WITHIN AREAS OF STANDING WATER, UNLESS APPROVED BY THE ENGINEER.
5. SUBGRADE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILL PLACEMENT. CLEAN FILL SHALL BE FREE OF DELETERIOUS MATTER SUCH AS FROZEN MATERIALS, ORGANICS, WOOD, DEBRIS, OR ROCK LARGER THAN 4 INCHES IN DIAMETER AND BE CLASSIFIED CL, SP, SW, SM, SC, GP, GC, GM, OR GW PER ASTM D-2487. DENSE GRADED AGGREGATE (DGA) SHALL BE ACCEPTABLE FOR USE AS BACKFILL SO LONG AS IT MEETS GRADATION AND LIMIT REQUIREMENTS. ALL MATERIAL SHALL HAVE A LIQUID LIMIT AND PLASTICITY INDEX NOT EXCEEDING 40 AND 15, RESPECTIVELY, WHEN TESTED IN ACCORDANCE WITH ASTM D-4318.
6. CONTRACTOR TO PLACE CLEAN FILL IN THE OPEN EXCAVATION AND BLEND WITH REAGENTS AS OUTLINED IN THE PERMIT BY RULE FOR SITE 107 SUBMITTED TO NJDEP IN MARCH 2018.
7. CONTRACTOR SHALL GRADE THE SITE TO ACHIEVE THE FINAL GRADE SHOWN AND TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING GRADES ALONG THE LIMIT OF EXCAVATION
8. CONTRACTOR SHALL COMPACT TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D-1557 WITH THE EXCEPTION OF THE FIRST LIFT WHERE SUCH IS PLACED DIRECTLY ON TOP OF MEADOW MAT, PEAT, ORGANIC OR OTHER COMPRESSIBLE CLAY STRATA. COMPACTION TESTING THEREAFTER SHALL BE PERFORMED AT THE RATE OF ONE TEST PER 2,500 SF PER 10' LIFT. REPLACEMENT FILL SHALL ACHIEVE 2,000 PSF FOUNDATION SOIL BEARING CAPACITY WITH A MAXIMUM SETTLEMENT OF 1.0 INCHES (MAXIMUM DIFFERENTIAL SETTLEMENT OF 0.5").
9. CLEAN FILL SHALL BE BACKFILLED TO WITHIN 6 INCHES OF FINAL GRADE. FINAL GRADE SHALL BE ACHIEVED WITH THE PLACEMENT OF 6-INCHES OF DENSE GRADED AGGREGATE.

THIS PROJECT IS EXEMPT FROM THE SUBSOIL COMPACTION REQUIREMENTS AS IT IS IN AN URBAN REDEVELOPMENT AREA (METROPOLITAN PLANNING AREA - PA1) AND IS DEFINED BY THE NJDEP AS "PREVIOUSLY DEVELOPED." THE PROJECT WILL HAVE LESS THAN 500 SQ. FT. OF APPLICABLE (VEGETATED) AREA AND IS BEING COMPLETED AS PART OF A REMEDIATION.

4	5/10/2019	SESC Modifications		
3	1/30/2019	SESC Modifications (LOD revised and controls adjusted for new LOD)		
2	10/26/2018	SESC Modifications		
1	5/10/2018	HEPBCD Comment		
No	Date	Revisions	By	Chk'd

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Professional Engineer's Name  
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Project Mgr  
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**ARCADIS** Design & Consultancy for natural and built assets

ARCADIS U.S., INC.  
NEW JERSEY ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 24GA27939600

PPG SITE 107 FASHIONLAND • 18 CHAPEL AVENUE, JERSEY CITY, NEW JERSEY  
PROPOSED DEMOLITION AND EXCAVATION

## FINAL GRADING PLAN

ARCADIS Project No. NP000770.0001.00003  
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