

Appendix B

Permits and Approvals

SESCP – Phases 4 and 5



HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT

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

February 10, 2017

Ms. Jody Overmyer
PPG
440 College Park Dr.
Monroeville, PA 15146

Re: **PPG Phases 4 & 5**
78-104 Halladay St; 84,86,98 Forrest St; 33 Pacific Ave; Jersey City, NJ
Block: 21501; 21509; 21502 Lot: 11,12,14,15; 3; 12-17
HEPSCD 251 ID Code #217-H-3824, plan dated 1/11/17

Dear Sir/Madam:

The District has completed the review of the soil erosion and sediment control plan for the above referenced project and hereby reports that the plan meets the Standards for Soil Erosion and Sediment Control in New Jersey (N.J.A.C.290-1.1 et seq., promulgated pursuant to the New Jersey Soil Erosion and Sediment Control Act, N.J.S.A.4-24-39 et seq.). Accordingly, the plan is **certified** by the Hudson-Essex-Passaic Soil Conservation District subject to the following conditions:

- The District must be notified in writing 48 hours prior to the commencement of any construction activity.
- A copy of the certified plan must be kept on the job site at all times.
- The applicant or contractor must request a final inspection (once landscaping and final soil stabilization is complete) & obtain a Report of Compliance prior to seeking a temporary or permanent Certificate of Occupancy.
- The District must be provided with written notification of any conveyance of this project, subject property, or portions thereof, including individual residential lots if applicable. Said notice must provide the names, addresses, and telephone numbers of subsequent owners.
-
- The District must be informed of address and or telephone number changes of owners, agents responsible for site construction, and job supervisors.

Please be advised that the Soil Erosion and Sediment Control Act authorizes the issuance of stop construction orders and penalties of up to \$3000 per day for violations of the certified plan or for failure to comply with the aforementioned requirements. Please be further advised that any conveyance of this project or portions thereof will transfer full responsibility for compliance with the certified plan to subsequent owners. Please contact the District if you require assistance implementing the certified soil erosion and sediment control plan. This certification is valid for 3-1/2 years from the date of this letter and is limited to the controls specified in this plan. It is not authorization to engage in proposed land use unless such use has been previously approved by the municipality or other controlling agency.

Yours truly,

Matthew J. Ward
Chairman

Cc: Planner, Municipality, County



For District Use Only

217-H-3824

Certified: 2/10/17

SCD Cert Code: N/A Discharge to POTW

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 Phases 4 and 5		Project Location: Municipality Jersey City, Hudson County	
Project Street Address Forrest St; Halladay St. North; 84, 86, 98 Forrest Street; 33 Pacific Avenue; 78-104 Halladay Street		Block Roadways: 21501; 21509; 21502	Lot Roadways: 11, 12, 14, and 15; 3; 12 thru 17
Project Owner(s) Name PPG		Email Jody Overmyer 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) 4.6	Total Area or Land to be Disturbed (Acres) 4.6	No. Dwelling or other Units N/A - Cat.D	Fee \$ 1800.00
Plans Prepared by* Hue N. Quan, P.E./AECOM			Phone # 732-564-3631 Fax # 732-369-0122
Street Address 30 Knightsbridge Road, Suite 520		City Piscataway	State NJ Zip 08854
Agent Responsible During Construction AECOM		Email Hue.Quan@aecom.com	
Street Address 30 Knightsbridge Road, Suite 520			
City Piscataway State NJ Zip 08854		Phone 732-564-3631 Fax # 732-369-0122	

*(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.)

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:

1. 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.
2. 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.
3. To maintain a copy of the certified plan on the project site during construction.
4. To allow District agents to go upon project lands for inspection.
5. 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.
6. 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>Jody Overmyer</u> Date: <u>1/16/17</u> Applicant Name (Print) Jody Overmyer	3. Plan determined complete: Signature of District Official: _____ Date: _____
2. Receipt of fee, plan and supporting documents is hereby acknowledged: Signature of District Official: <u>Matthew J. Ward</u> Date: <u>1/27/17</u>	4. Plan certified, denied or other actions noted above. Special Remarks: Signature of District Official: <u>Matthew J. Ward</u> Date: <u>2/10/17</u>

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

SSCC251 AP10 1/2014

START NOTICE

HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT

THIS FORM IS TO BE SUBMITTED TO PROVIDE THE REQUIRED 48 HOUR ADVANCE NOTICE OF THE START OF SOIL DISTURBING ACTIVITIES AND THE IMPLEMENTATION OF THE SOIL EROSION AND SEDIMENT CONTROL PLAN

This project ~~requires~~ / does not require the NJDEP 5G3 (RFA) permit prior to groundbreaking.
Stormwater to be discharged to POTW

PROJECT NAME: PPG PHASES 4 & 5

HUDSON-ESSEX-PASSAIC SCD 251 ID #: 217-H-3824

PROJECT LOCATION: STREET ADDRESS: 78-104 Halladay; 84,86,98 Forrest;
33 Pacific

MUNICIPALITY: Jersey City

PROJECT OWNER/APPLICANTS NAME: PPG/
Jody Overmyer

ADDRESS: 440 College Park Drive, Monroeville, PA 15146

PHONE #: 724-325-5070 FAX: _____

E-MAIL: Overmyer@ppg.com CELL# _____

ON-SITE AGENT RESPONSIBLE DURING CONSTRUCTION or CONTRACTOR

NAME: Brady Bonsted / ENTACT

ADDRESS: 70 Carteret Avenue , Jersey City , New Jersey

PHONE #: _____ FAX _____

EMAIL : bbonsted@entact.com CELL# (630) 669-0216

PROJECT START DATE : March 8, 2017

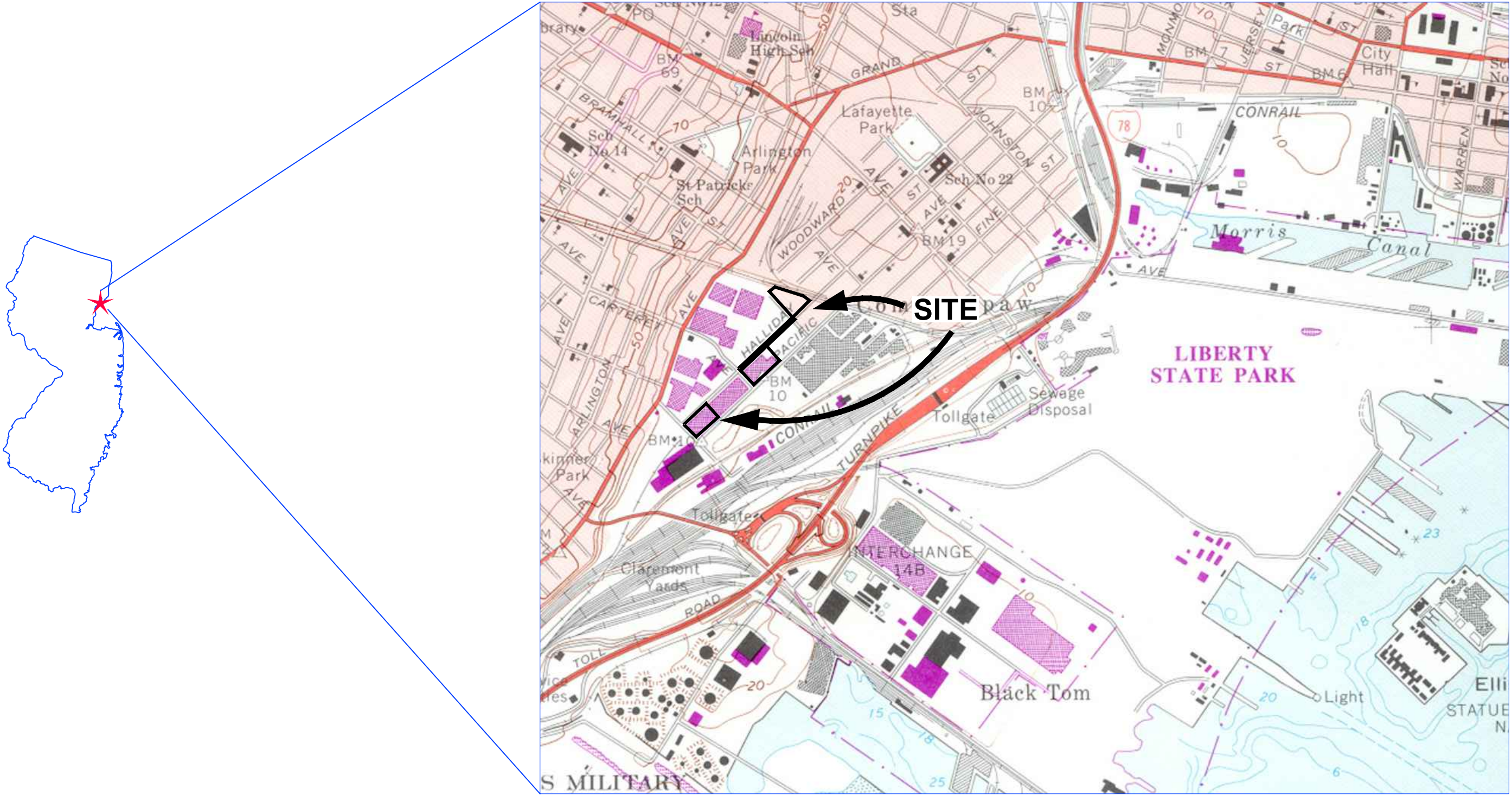
(including DEMOLITION, CLEARING, LAND GRADING) This form must be provided to the District at least 48 hours in advance of any soil disturbing activity pertaining to a plan previously certified by this office. Failure to provide this notification is a violation of the New Jersey Soil Erosion and Sediment Control Act, ch.251, P.L 1975, and may result in additional fees.

MAIL THIS NOTICE TO: HUDSON-ESSEX-PASSAIC SCD
80 ORCHARD ST.
BLOOMFIELD NJ 07003

Or send via FAX: (862) 333-4507 or EMAIL: information@hepscd.org

GARFIELD AVENUE GROUP - PHASES 4 & 5:
FORMER HALSTED CORPORATION PROPERTY, FORREST STREET PROPERTIES,
AL SMITH MOVING PROPERTY, HALLADAY STREET NORTH, AND FORREST STREET
SOIL EROSION AND SEDIMENT CONTROL PLAN (SESCP)
REMEDIAL ACTION WORK PLAN (RAWP) ACTIVITIES

PPG
JERSEY CITY, HUDSON COUNTY, NEW JERSEY
60314351

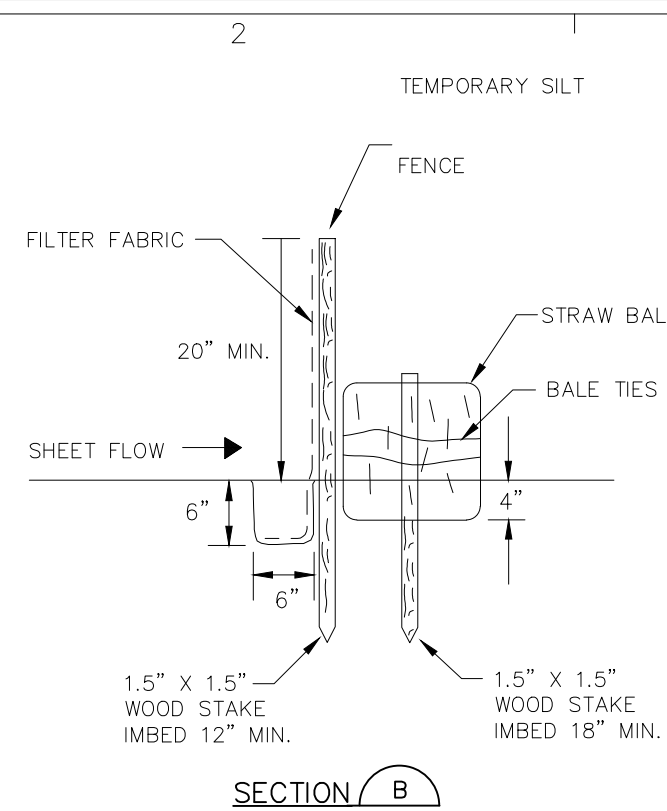


PREPARED BY:

AECOM

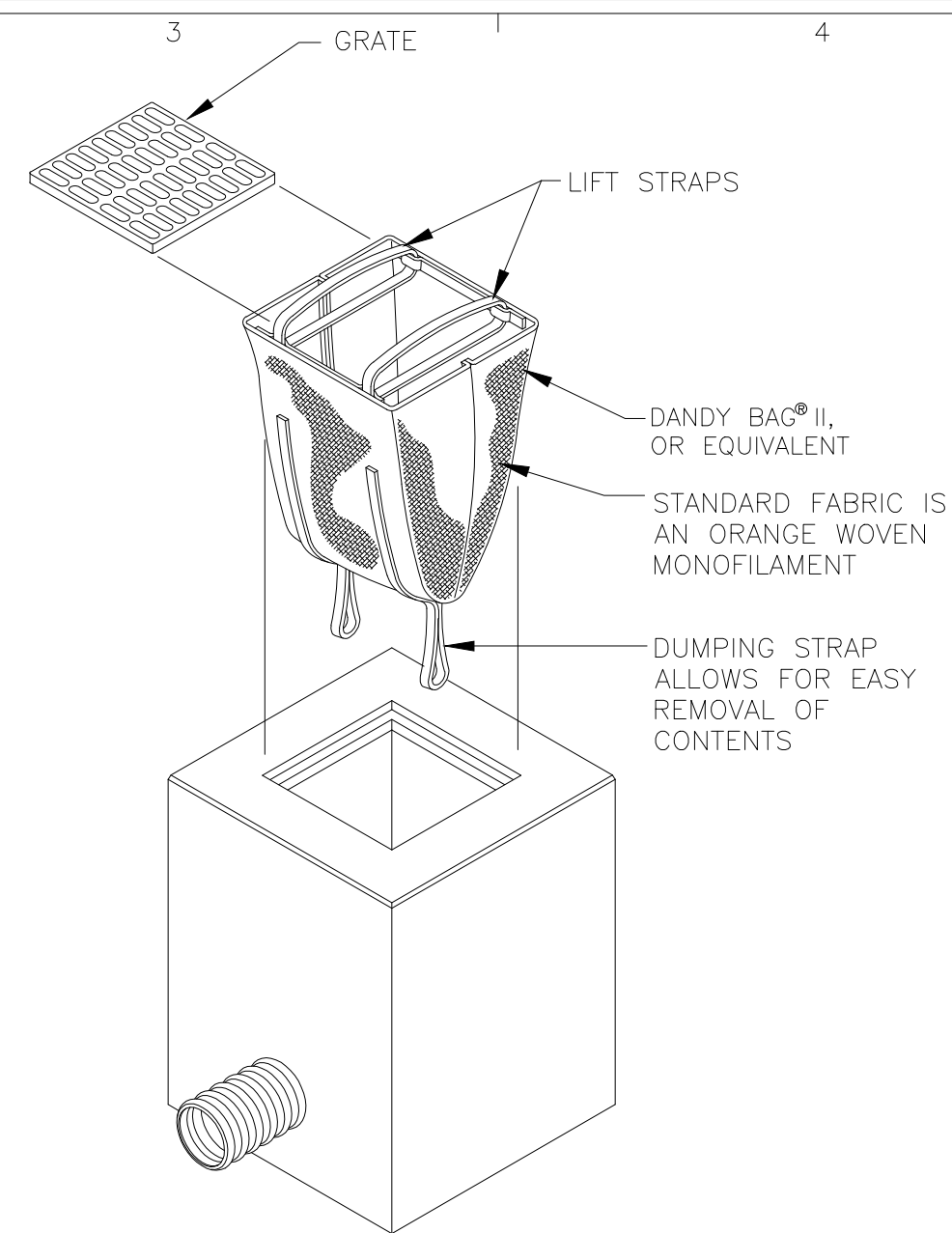
AECOM
30 Knightsbridge Road, Suite 520
Piscataway, NJ 08854
www.aecom.com
NJ C.O.A. No.: 24GA28002200

SHEET		SHEET TITLE		SHEET		SHEET TITLE		SHEET		SHEET TITLE	
T-01	COVER SHEET	Rev.0	01/11/2017								
ECP-01	EXISTING CONDITIONS PLAN	Rev.0	01/11/2017								
ECP-02	SOIL EROSION & SEDIMENT CONTROL MEASURES	Rev.0	01/11/2017								
D-01	SOIL EROSION & SEDIMENT CONTROL MEASURES DETAILS & NOTES	Rev.0	01/11/2017								
D-02	SOIL EROSION & SEDIMENT CONTROL MEASURES NOTES	Rev.0	01/11/2017								
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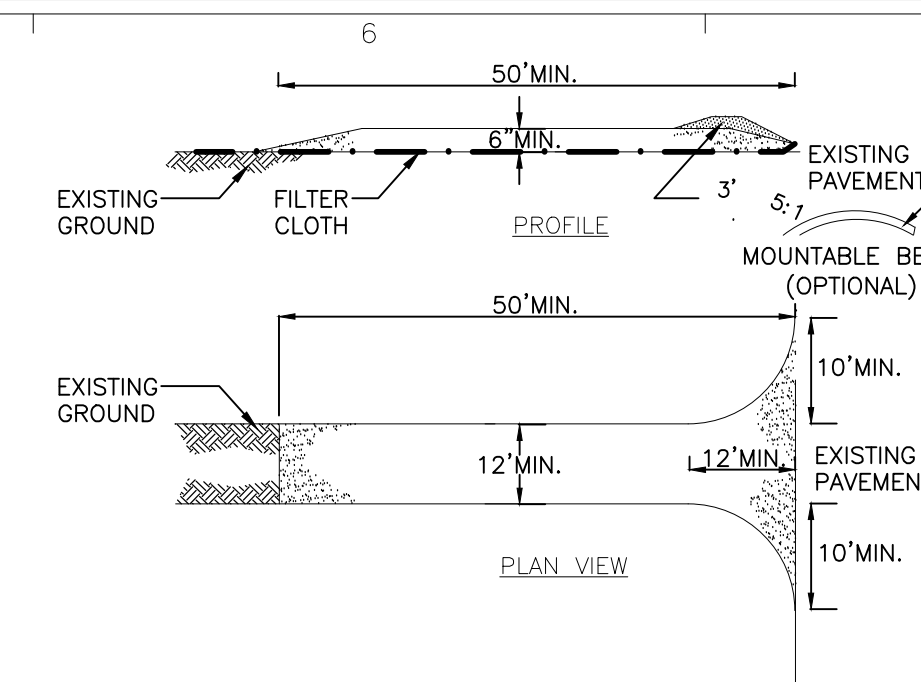
1. EXCAVATE A 4" DEEP TRENCH TO MATCH THE WIDTH OF THE STRAW BALES.
2. PLACE BALES IN TRENCH WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
3. ANCHOR BALES BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. ADJOINING BALES SHALL BE SECURELY TIED TOGETHER TO PREVENT MOVEMENT.
5. STRAW TATTLES MAY BE USED IN LIEU OF STRAW BALES. IF USED, TATTLES SHALL BE INSTALLED AND SECURED IN PLACE PER MANUFACTURER'S RECOMMENDATIONS.

1. SET POSTS AND EXCAVATE A 6" BY 6" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
2. ATTACH FILTER FABRIC TO FENCE POST AND EXTEND IT INTO THE TRENCH.
3. BACKFILL AND COMPACT THE TRENCH USING THE EXCAVATED SOIL.

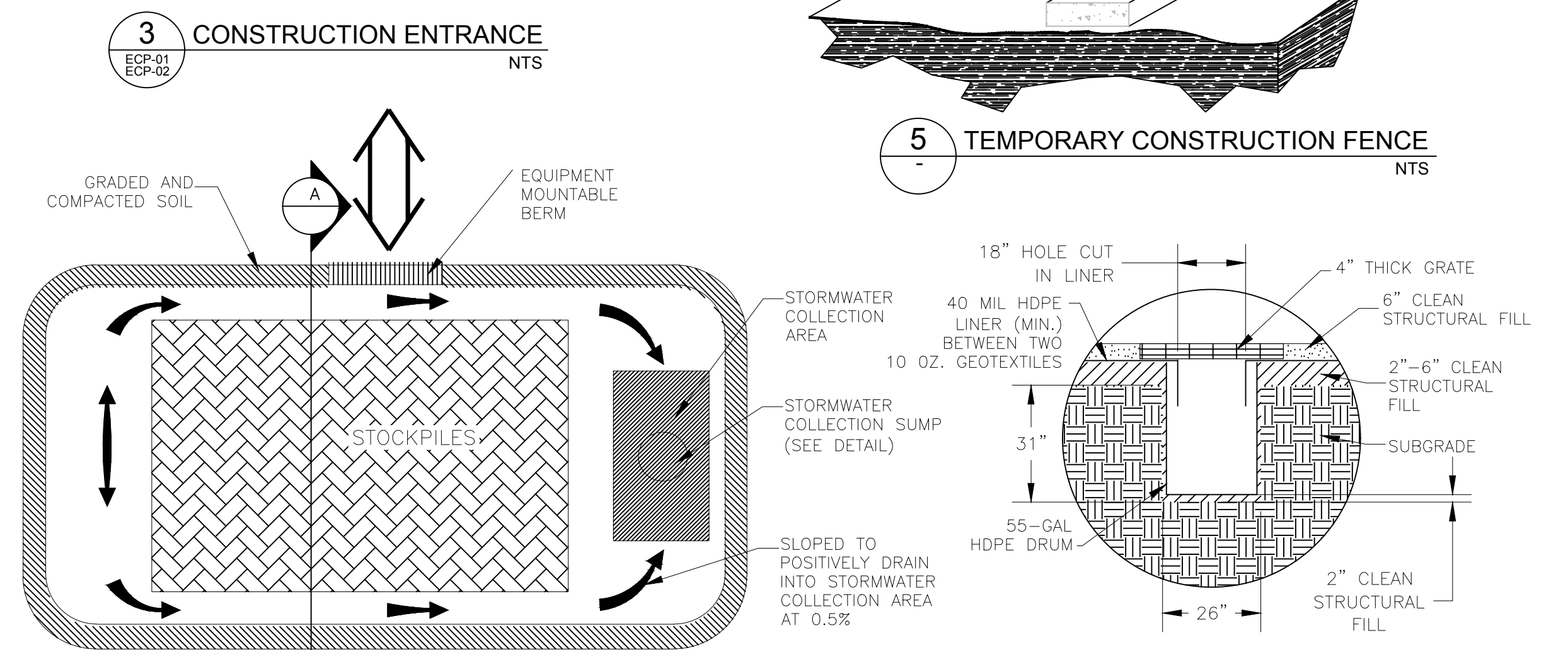
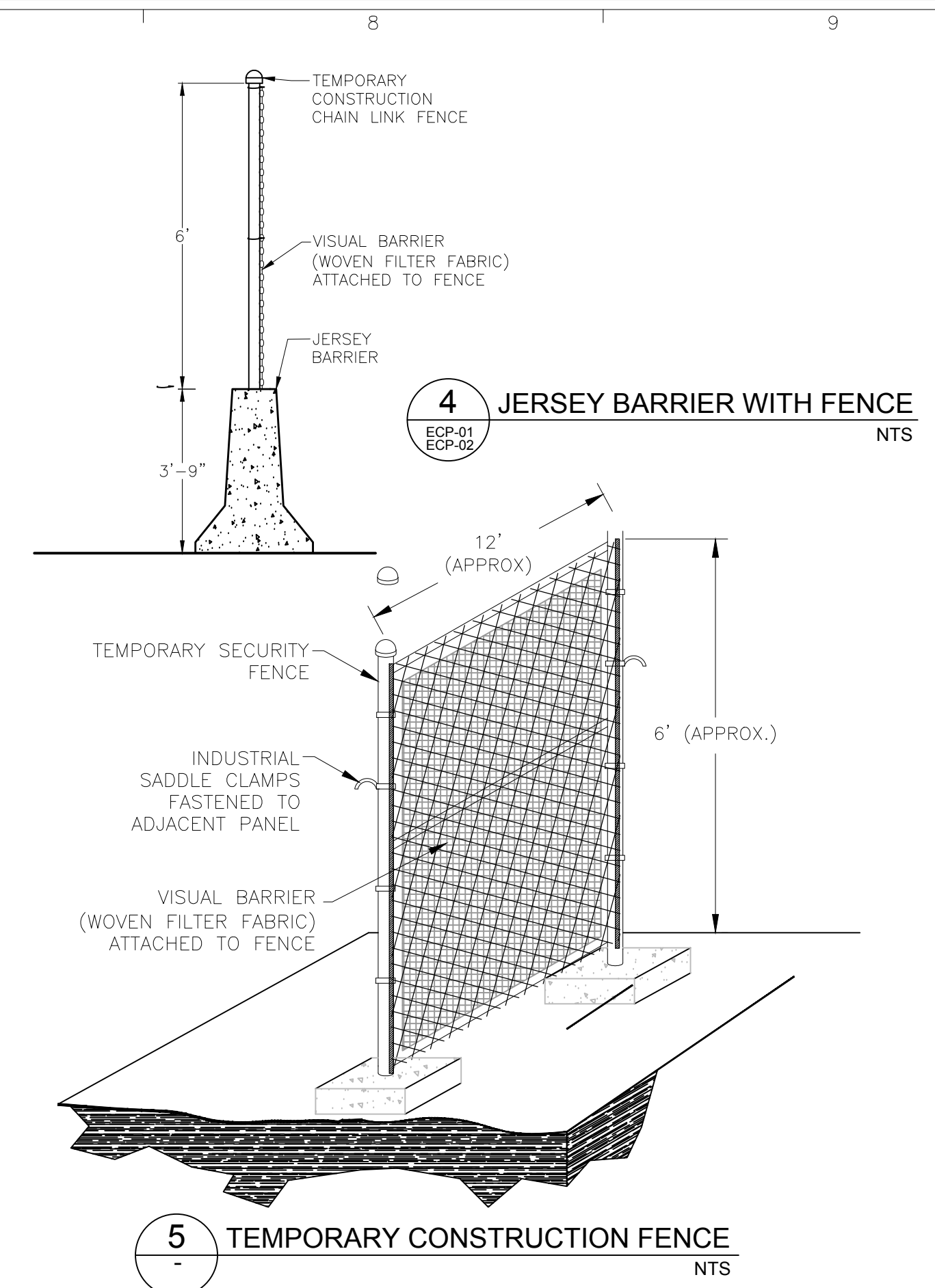


INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS, PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY BAG II, OR EQUIVALENT, SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

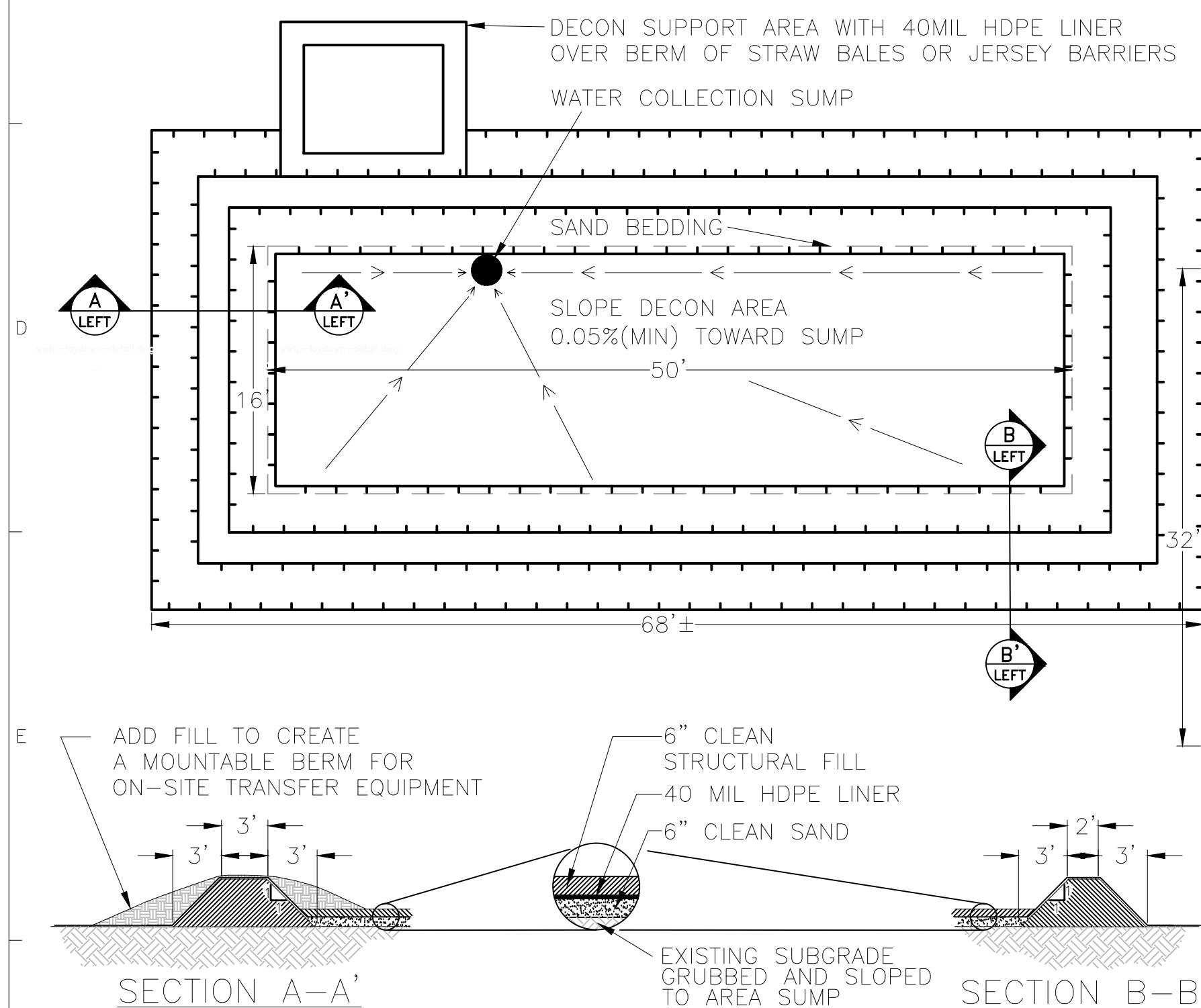
MAINTENANCE: INSPECT AFTER EACH STORM
EVENT AND AT REGULAR INTERVALS.
REMOVE ALL ACCUMULATED SEDIMENT AND
DEBRIS FROM VICINITY OF UNIT. IF THE
CONTAINMENT AREA IS MORE THAN 1/3
FULL OF SEDIMENT, THE UNIT MUST BE
EMPTIED. TO EMPTY UNIT, LIFT THE UNIT
OUT OF THE INLET USING THE LIFTING
STRAPS AND REMOVE THE GRATE. IF USING
OPTIONAL OIL ABSORBENTS, REPLACE
ABSORBENT WHEN NEAR SATURATION.



1. STONE SIZE -USE 2 1/2" STONE
2. LENGTH - NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONDUIT OR ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

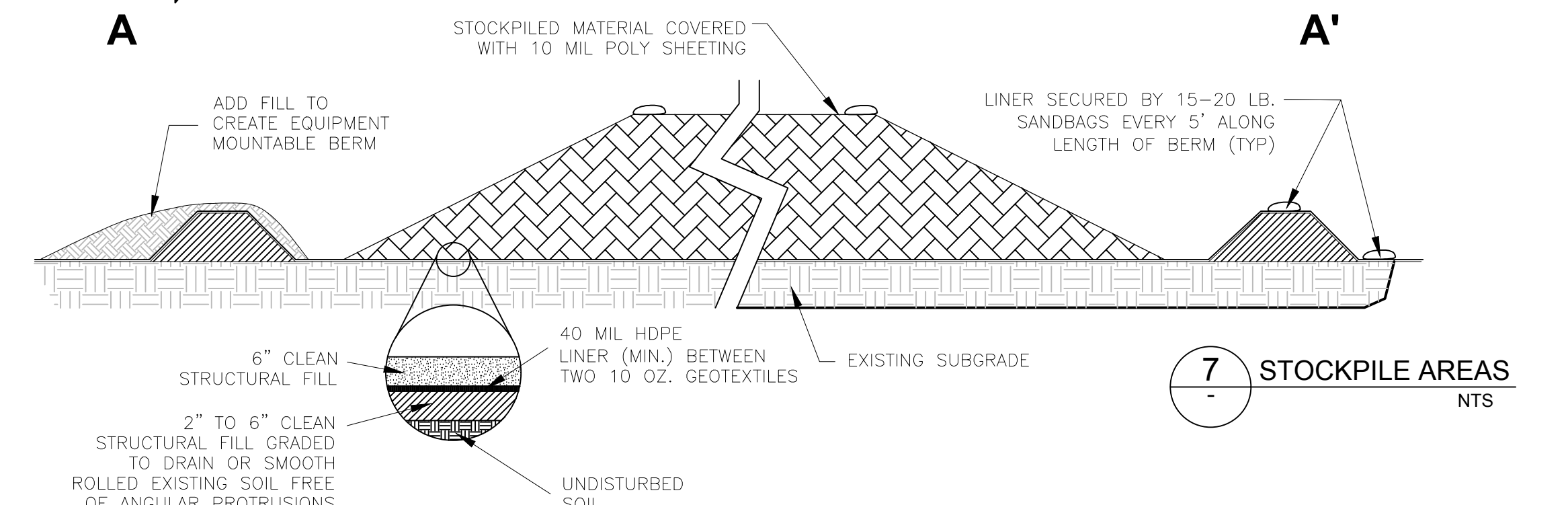


STORMWATER COLLECTION SUMP DETAIL



6 DECONTAMINATION PAD

1. STOCKPILES ARE TO BE LOCATED OUTSIDE OF THE FLOOD HAZARD AREA. IF THIS IS NOT FEASIBLE, THE STOCKPILE MUST BE ISOLATED FROM FLOOD WATER (i.e., BERMS MUST BE 1 FOOT HIGHER THAN THE 100-YEAR FLOOD ELEVATION)
2. STOCKPILE AREA DIMENSIONS AND SHAPE MAY VARY. ACTUAL SIZE WILL BE DETERMINED BASED ON SITE CONDITIONS AND REQUIRED STORAGE AREA (SIZE WILL NOT EXCEED NUDEP-APPROVED LIMITATIONS). SUBCONTRACTOR SHALL DETERMINE FINAL SIZE OF AREA WITH APPROVAL BY SITE ENGINEER.
3. EXISTING SUBGRADE SHALL BE FREE OF ANGULAR PROTRUSIONS. A TWO TO SIX-INCH LAYER OF CLEAN STRUCTURAL BACKFILL SHALL BE PLACED, GRADED TO DRAIN AND COMPACTED TO A FIRM UNYIELDING SURFACE PRIOR TO PLACEMENT OF LINER.
4. STOCKPILE AREA IS TO BE GRADED TO POSITIVELY DRAIN TOWARDS THE STORMWATER COLLECTION AREA.
5. CONTAINMENT BERMS SHALL BE CONSTRUCTED OF IMPORTED CLEAN SOIL. NO ON-SITE BORROW WILL BE AVAILABLE. PLACE STORMWATER CONTAINMENT BERM SOILS IN MAXIMUM OF 12" LIFTS.
6. STORMWATER CONTAINMENT BERMS ARE TO BE MOISTURE CONDITIONED AND COMPACTED TO A FIRM, UNYIELDING CONDITION, AS DIRECTED BY THE SITE ENGINEER.
7. INITIALLY, EXCAVATED SEDIMENT WILL BE CAREFULLY PLACED IN A 12" LIFT SO THAT EQUIPMENT DOES NOT DAMAGE LINER.
8. DAILY INSPECTION AND MAINTENANCE OF THE STORMWATER CONTAINMENT BERMS ARE REQUIRED FOR THE DURATION OF THE PROJECT.
9. STOCKPILED SOIL WILL BE COVERED WITH 10 MIL POLY SHEETING AT THE END OF EACH DAY AND WHEN NOT BEING WORKED ON.
10. WHEN ONE-HALF (1/2) FULL, THE STORMWATER COLLECTION SUMP IS TO BE PUMPED OUT. COLLECTED STORMWATER TO BE CONTAINED AND DISPOSED OF AT THE DIRECTION OF THE SITE ENGINEER.
11. SOLIDS ACCUMULATED IN THE SUMP WILL BE EXCAVATED PERIODICALLY AND PLACED ON THE WASTE MATERIAL STOCKPILE.
12. UPON COMPLETION OF THE WORK, THE STOCKPILE AREA SHALL BE REMOVED, AND THE AREA GRADED.
13. ANY DAMAGE TO STOCKPILE AREA MUST BE REPORTED TO THE SITE ENGINEER IMMEDIATELY.
14. LINER SHALL BE 40 MIL HDPE, ONE SOLID SHEET, OR SHALL HAVE SEAMS WELDED PER MANUFACTURER'S RECOMMENDATIONS. NO OVERLAP WILL BE ACCEPTED.
15. FLUSHMOUNT WELLS ARE TO BE PROTECTED DURING INSTALLATION AND REMOVAL OF STOCKPILE AREA. LINER IS TO BE PLACED OVER THE TOP OF THE WELLS.



STOCKPILE AREAS

NTS

HUE N. QUAN, P.E.	7							
	6							
	5							
	4							
	3							
	2							
	1							
	0	EH	01/11/17	DETAILS & NOTES				
NJ PROFESSIONAL ENGINEER 24GE04698500		NO.	DRWN DATE	REVISION	CHKD	DATE	APPVD	DATE

AECOM

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30 Knightsbridge Road, Suite 520
Piscataway, NJ 08854
www.aecom.com
NJ C.O.A. No.: 24GA28002200

PPG
GARFIELD AVENUE GROUP OF SITES
JERSEY CITY, NEW JERSEY

PROJ. NUMBER: 60314351

DATE: 01/11/2017

SOIL EROSION AND SEDIMENT CONTROL MEASURES DETAILS & NOTES

PHASES 4&5: FORMER HALSTED CORPORATION PROPERTY, FORREST STREET PROPERTIES,
AL SMITH MOVING PROPERTY, HALLADAY STREET NORTH, AND FORREST STREET

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STANDARD FOR DEWATERING

DEFINITION: THE REMOVAL AND DISCHARGE OF SEDIMENT-LADEN WATER FROM AN EXCAVATED AREA, CONSTRUCTION SITE OR SEDIMENT BASIN.

PURPOSE: TO PROPERLY REMOVE SUSPENDED SEDIMENTS AND WATER FROM EXCAVATED AREAS THROUGH FILTRATION AND/OR SETTLEMENT PRIOR TO DISCHARGING WATER TO A RECEIVING WATER COURSE OR BODY.

WHERE APPLICABLE: DURING CONSTRUCTION, EXCAVATED FACILITIES NEED TO BE DEWATERED TO FACILITATE OR COMPLETE THE CONSTRUCTION PROCESS. THE WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAINS SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING BODIES OF WATER. THIS STANDARD DOES NOT ADDRESS THE REMOVAL OF GROUND WATER THROUGH WELL POINTS, ETC. THIS STANDARD DESCRIBES THE FOLLOWING PRACTICES FOR THE REMOVAL OF SEDIMENT LADEN WATERS FROM EXCAVATION AREAS: REMOVABLE PUMPING STATIONS, SUMP PITS, AND PORTABLE SEDIMENTATION TANKS.

WATER QUALITY ENHANCEMENT: WATER DISCHARGED FROM EXCAVATED AREAS ON CONSTRUCTION SITES MAY BE A SIGNIFICANT CONTRIBUTOR OF SEDIMENT TO SURFACE WATERS DURING CONSTRUCTION. WATER MUST BE REMOVED AND DISPOSED OF IN ORDER FOR CONSTRUCTION TO MOVE FORWARD. TYPICALLY, WATER IS PUMPED OR CONTAINMENT BERMS ARE BREACHED AND SEDIMENT LADEN WATERS ARE PERMITTED TO FLOW UNCONTROLLED INTO SURFACE WATERS SUCH AS STREAMS OR LAKES. BY EMPLOYING PRACTICES DESCRIBED IN THIS STANDARD, THE MAJORITY OF SEDIMENT SUSPENDED IN WATERS MAY EASILY BE REMOVED PRIOR TO LEAVING THE SITE. FILTERS AND MATERIALS DESCRIBED HEREIN ARE READILY AVAILABLE AND ARE EASY TO INSTALL AND MAINTAIN.

DESIGN CRITERIA:

SEDIMENT TANKS/SILT CONTROL BAGS ARE CONTAINERS THROUGH WHICH SEDIMENT LADEN WATER IS PUMPED TO TRAP AND RETAIN THE SEDIMENT. A SEDIMENT TANK OR A SILT CONTROL BAG IS TO BE USED ON SITES WHERE EXCAVATIONS ARE DEEP AND SPACE IS LIMITED, AND WHERE DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO STREAMS AND STORM DRAINAGE SYSTEMS IS TO BE AVOIDED.

CONSTRUCTION SPECIFICATIONS:

A. LOCATION - CONTAINERS (TANKS OR BAGS) SHALL BE LOCATED FOR EASE OF CLEAN-OUT AND DISPOSAL OF THE TRAPPED SEDIMENT AND TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND PEDESTRIAN TRAFFIC. BAGS SHALL NOT BE PLACED DIRECTLY INTO RECEIVING WATERS.

B. TANK SIZE - THE FOLLOWING GUIDELINE SHOULD BE USED IN DETERMINING THE STORAGE VOLUME OF THE TANK: 1 CUBIC FOOT OF STORAGE FOR EACH GALLON PER MINUTE OF PUMP DISCHARGE CAPACITY. TANKS MAY BE CONNECTED IN SERIES TO INCREASE EFFECTIVENESS.

1. TANKS CONSIST OF TWO CONCENTRIC CIRCULAR PIPES (CMP), ATTACHED TO A WATERTIGHT BASEPLATE. THE INNER CMP IS PERFORATED WITH 1" HOLES ON 6" CENTERS AND IS WRAPPED WITH GEOTEXTILE AND HARDWARE CLOTH. PUMPED WATER IS DISCHARGED INTO THE INNER CMP WHERE IT FLOWS THROUGH THE GEOTEXTILE INTO THE SPACE BETWEEN THE TWO CMPS. A DISCHARGE LINE IS ATTACHED TO THE OUTER CMP AND DRAWS FILTERED WATER FROM THE ANNULUS BETWEEN THE TWO CONCENTRIC CMPS. THE DISCHARGE LINE MAY BE CONNECTED TO ANOTHER TANK WHERE IT DRAINS TO THE INNER CMP OF THE SECOND TANK. THIS SERIES CONNECTION MAY BE CONTINUED INDEFINITELY.

D. SEDIMENT CONTROL BAGS MUST BE LOCATED AWAY FROM RECEIVING WATERS AND DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

FORMER HALSTED CORPORATION PROPERTY, FORREST STREET PROPERTIES, AL SMITH MOVING PROPERTY, HALLADAY STREET NORTH, AND FORREST STREET
PROPOSED CONSTRUCTION SCHEDULE AND SEQUENCE:

- | | | |
|----|------------|--|
| 1. | 1 DAY | INSTALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SURROUNDING DISTURBANCE AREA. INSTALL INLET PROTECTION AROUND CATCHBASINS WITHIN AND NEAR DISTURBANCE AREA WHERE NECESSARY. |
| 2. | 2 DAYS | RELOCATE AS NEEDED/CONSTRUCT THE DEWATERING AREAS FOR SOIL. |
| 3. | THROUGHOUT | EXCAVATION DEWATERING. WATERS SHALL BE COLLECTED AND TREATED AT ON-SITE (SITE 114) GROUNDWATER TREATMENT SYSTEM AND DISCHARGED TO PUBLICLY OWNED TREATMENT WORKS. |
| 4. | THROUGHOUT | CHARACTERIZE SOIL FOR DISPOSAL OR LOAD SOIL INTO TRUCKS FOR DISPOSAL OFF-SITE. |
| 5. | THROUGHOUT | GRADE AND COMPACT EXISTING SUBBASE TO RECEIVE FILL. |
| 6. | THROUGHOUT | PLACE CLEAN FILL INTO BOTTOMS OF EXCAVATIONS WITHIN PROJECT AREA. |
| 7. | THROUGHOUT | GRADE AND RESTORE WITH IMPORTED FILL AND LINER SYSTEM. |
| 8. | 5 DAYS | REMOVE STAGING/DEWATERING PADS. RESTORE AREA TO PRE-EXISTING CONDITIONS. |
| 9. | 1 DAY | REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES. |
| * | ROADWAYS | WILL BE INSPECTED DAILY AND SWEEPED AS NEEDED TO PREVENT SOIL TRACKING AND ACCUMULATION. |

** THE LOCATIONS OF SOIL EROSION AND SEDIMENT CONTROL MEASURES MAY BE FIELD ADJUSTED TO IMPROVE HEALTH AND SAFETY/TRAFFIC ON SITE. ANY SUBSTITUTIONS WILL BE MADE UNDER THE APPROVAL OF THE FIELD ENGINEER AND WILL BE AS EQUALLY PROTECTIVE AS THE ORIGINALLY PROPOSED CONTROL MEASURE.

STANDARD FOR DUST CONTROL

DEFINITION:	THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS.
PURPOSE:	TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON-SITE AND OFF-SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.

WHERE APPLICABLE: THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON-SITE AND/OR OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT. CONSULT WITH LOCAL MUNICIPAL ORDINANCES ON ANY RESTRICTIONS.

WATER QUALITY ENHANCEMENT: SEDIMENTS DEPOSITED AS "DUST" ARE OFTEN FINE COLLOIDAL MATERIAL WHICH IS EXTREMELY DIFFICULT TO REMOVE FROM WATER ONCE IT BECOMES SUSPENDED. USE OF THIS STANDARD WILL HELP TO CONTROL THE GENERATION OF DUST FROM CONSTRUCTION SITES AND SUBSEQUENT BLOWING AND DEPOSITION INTO LOCAL SURFACE WATER RESOURCES.

PLANNING CRITERIA: SPRINKLING – SITE AND EXCAVATED SOILS ARE SPRINKLED WITH WATER UNTIL THE SURFACE IS WET.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN WILL BE CONSTRUCTED IN ACCORDANCE WITH THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL", 7TH EDITION LAST REVISED JANUARY 2014. THESE MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

2. ALL SOIL TO BE EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 14 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, WILL BE TEMPORARILY SEEDED AND HAY MULCHED OR OTHERWISE PROVIDED WITH VEGETATIVE COVER. THIS TEMPORARY COVER SHALL BE MAINTAINED UNTIL SUCH TIME WHEREBY PERMANENT RESTABILIZATION IS ESTABLISHED.

3. SEEDING DATES: THE FOLLOWING SEEDING DATES ARE RECOMMENDED TO BEST ESTABLISH PERMANENT VEGETATIVE COVER WITHIN MOST LOCATIONS IN THE HEPSCD:
SPRING - 3/1-5/15 AND FALL - 8/15 - 10/1

4. SEDIMENT FENCES ARE TO BE PROPERLY TRENCHED AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED

5. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY ONE OF THE PRACTICES ACCEPTED IN THE STANDARDS, AND PROTECTION SHALL REMAIN UNTIL PERMANENT STABILIZATION HAS BEEN ESTABLISHED. STORM DRAINAGE OUTLET POINTS SHALL BE PROTECTED AS REQUIRED BEFORE THEY BECOME FUNCTIONAL.

6. MULCH MATERIALS SHALL BE UN-ROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.

7. ALL EROSION CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED, MAINTAINED AND CORRECTED BY THE CONTRACTOR. ANY DAMAGE INCURRED BY EROSION SHALL BE RECTIFIED IMMEDIATELY.

8. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT WILL BE NOTIFIED IN WRITING AT LEAST 48 HOURS PRIOR TO ANY SOIL DISTURBING ACTIVITIES. FAX - (862) 333-4507 OR EMAIL - INFORMATION@HEPSCD.ORG

9. THE APPLICANT MUST OBTAIN A DISTRICT ISSUED REPORT-OF-COMPLIANCE PRIOR TO APPLYING FOR THE CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY FROM THE RESPECTIVE MUNICIPALITY, NJ - DCA OR ANY OTHER CONTROLLING AGENCY. CONTACT THE DISTRICT AT 862-333-4505 TO REQUEST A FINAL INSPECTION, GIVING ADVANCED NOTICE UPON COMPLETION OF THE RESTABILIZATION MEASURES. A PERFORMANCE DEPOSIT MAY BE POSTED WITH THE DISTRICT WHEN WINTER WEATHER OR SNOW COVER PROHIBITS THE PROPER APPLICATION OF SEED, MULCH, FERTILIZER OR HYDRO-SEED.

10. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT UTILIZE A FIRE OR GARDEN HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT BASIN. WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAINS SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING BODIES OF WATER USING REMOVABLE PUMPING STATIONS, SUMP PITS, PORTABLE SEDIMENTATION TANKS AND/OR SILT CONTROL BAGS.

11. ALL SURFACES HAVING LAWN OR LANDSCAPING AS FINAL COVER ARE TO BE PROVIDED TOPSOIL PRIOR TO RE-SEEDING, SODDING OR PLANTING. A DEPTH OF 5 INCHES (UNSETTLED) IS RECOMMENDED.

12. ALL PLAN REVISIONS MUST BE SUBMITTED TO THE DISTRICT FOR PROPER REVIEW AND APPROVAL.


13. A CRUSHED STONE WHEEL CLEANING TRACKING-PAD IS TO BE INSTALLED AT ALL SITE EXITS USING 2 1/2" - 1" CRUSHED ANGULAR STONE (ASTM 2 OR 3) TO A MINIMUM LENGTH OF 50 FEET AND MINIMUM DEPTH OF 6". ALL DRIVEWAYS MUST BE PROVIDED WITH CRUSHED STONE UNTIL PAVING IS COMPLETE.

14. STEEP SLOPES INCURRING DISTURBANCE MAY REQUIRE ADDITIONAL STABILIZATION MEASURES. THESE "SPECIAL" MEASURES SHALL BE DESIGNED BY THE APPLICANT'S ENGINEER AND BE APPROVED BY THE SOIL CONSERVATION DISTRICT.

15. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED, IN WRITING, FOR THE SALE OF ANY PORTION OF THE PROJECT OR FOR THE SALE OF INDIVIDUAL LOTS. NEW OWNERS' INFORMATION SHALL BE PROVIDED. ADDITIONAL MEASURES DEEMED NECESSARY BY DISTRICT OFFICIALS SHALL BE IMPLEMENTED AS CONDITIONS WARRANT.

GENERAL REQUIREMENTS

1. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
2. SUBMIT WRITTEN NOTIFICATION TO THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION OF ANY SOIL EROSION AND SEDIMENT CONTROL FACILITY.
3. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION CONTROL AND MAINTENANCE OF SOIL EROSION AND SEDIMENT CONTROL FACILITIES TO INSURE PROPER FUNCTIONING OF SAID FACILITIES DURING CONSTRUCTION.
4. AFTER THE PROJECT HAS BEEN COMPLETED, THE CONTRACTOR HAS THE RESPONSIBILITY FOR INSURING THAT PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE IN PROPER WORKING CONDITION AND THAT TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR REPLACED BY PERMANENT CONTROLS.
5. MAINTENANCE OF SOIL EROSION AND SEDIMENT CONTROL MEASURES ON THE PROJECT SITE IS THE RESPONSIBILITY OF THE PROPERTY OWNER WHEN THE PROJECT IS 100 PERCENT COMPLETE.
6. THE DEMOLITION PROCESS MUST BE UNDERTAKEN IN A MANNER THAT MINIMIZES DUST EMISSION FROM THE SITE. WHERE THE DEMOLITION IS LIKELY TO CAUSE DUST EMISSION, PERIMETER FENCING AND SHADE CLOTH ARE TO BE USED TOGETHER WITH CONTINUOUS WATER SPRAY OR WETTING DOWN DURING THE DEMOLITION PROCESS. ALL AREAS SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL.
7. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL INCLUDE THE ABOVE MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY OMISSIONS, ERRORS OR SUBSEQUENT FIELD OPERATIONS WHICH MIGHT DEViate FROM THE INTENT OF THE SOIL EROSION AND SEDIMENT CONTROL ACT OF 1975 AS AMENDED (N.J.S.A. 4:24-39 ET SEQ.) THE CONTRACTOR SHALL CORRECT SAID OMISSIONS, ERRORS, OR FIELD OPERATIONS IMMEDIATELY AND IN ACCORDANCE WITH THE NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
8. THE CONTRACTOR SHALL KEEP THE STREET CLEAR OF DIRT AND BE RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF THE PROJECT.
9. THE CONTRACTOR SHALL KEEP A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN (THE CERTIFIED PLAN) ON SITE DURING CONSTRUCTION AND SHALL AGREE TO ALLOW DISTRICT AGENTS TO GO ONTO THE PROJECT SITE FOR INSPECTION.
10. THE CONTRACTOR SHALL NOTIFY THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT UPON COMPLETION OF THE PROJECT.
11. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.
12. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION AND COORDINATION WITH ALL UTILITY COMPANIES.
13. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER AND SUFFICIENT CONSTRUCTION PROTECTION TO THE WORKERS AND THE PUBLIC. OSHA AND APPLICABLE MUNICIPAL CODES SHALL BE FOLLOWED.
14. QUANTITIES SHOWN HEREIN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL PROVIDE THE MATERIALS NECESSARY TO COMPLETE CONSTRUCTION OF THE PROJECT.
15. WORK MATERIALS SHALL MEET THE REQUIREMENTS OF THE LOCAL AND STATE (NEW JERSEY UNIFORM CONSTRUCTION CODE) CONSTRUCTION CODES, LATEST EDITION, AND SPECIFICATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS.

HUE N. QUAN, P.E.	7										PPG GARFIELD AVENUE GROUP OF SITES JERSEY CITY, NEW JERSEY		SOIL EROSION AND SEDIMENT CONTROL MEASURES NOTES		DRAWING NUMBER: D-02			
	6																	
	5																	
	4																	
	3																	
	2																	
	1																	
	NJ PROFESSIONAL ENGINEER 24GE04698500	0	EH	01/11/17	NOTES							AECOM 30 Knightsbridge Road, Suite 520 Piscataway, NJ 08854 www.aecom.com NJ C.O.A. No.: 24GA28002200	PROJ. NUMBER: 60314351		DATE: 01/11/2017		PHASES 4&5: FORMER HALSTED CORPORATION PROPERTY, FORREST STREET PROPERTIES, AL SMITH MOVING PROPERTY, HALLADAY STREET NORTH, AND FORREST STREET	
NO		DRWN	DATE	REVISION		CHKD	DATE	APPVD	DATE	REVISION	0							

SESCP – Restoration



HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT

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

October 18, 2017

Ms. Jody Overmyer
PPG
440 College Park Drive
Monroeville, PA 15146

Re: **PPG Restoration of Garfield Group Sites:** revised to show restoration elevations & final cover
Dakota, Garfield, Carteret, Halladay, Pacific & Forrest; Jersey City, NJ
Block: 21501;21510;21509;21502 Lot: 11-12,14-20;1-4;1-3;12-17
Ch.251 ID# **217-H -3845, Re-Review #217-H-0039**, SESC plan dated 9/14/17

Dear Applicant:

The District has completed the review of the revised soil erosion and sediment control plan for the above referenced project and hereby reports that the plan meets the Standards for Soil Erosion and Sediment control in New Jersey (N.J.A.C.290-1.1 et seq., promulgated pursuant to the New Jersey Soil Erosion and Sediment Control Act, N.J.S.A.4-24-39 et seq.). Accordingly, the plan is **recertified** by the Hudson-Essex-Passaic Soil Conservation District subject to the following conditions:

- The District must be notified by mail 48 hours prior to the commencement of any construction activity.
- A copy of the certified plan must be kept on the job site at all times.
- The applicant or contractor must request a final inspection (once landscaping and final soil stabilization is complete) prior to seeking a temporary or permanent Certificate of Occupancy.
- The District must be provided with written notification of any conveyance of this project, subject property, or portions thereof, including individual residential lots if applicable. Said notice must provide the names, addresses, and telephone numbers of subsequent owners.
- The District must be informed of address and or telephone number changes of owners, agents responsible for site construction, and job supervisors.

Please be advised that the Soil Erosion and Sediment Control Act authorizes the issuance of stop construction orders and penalties of up to \$3000 per day for violations of the certified plan or for failure to comply with the aforementioned requirements. Please be further advised that any conveyance of this project or portions thereof will transfer full responsibility for compliance with the certified plan to subsequent owners. Please contact the District if you require assistance implementing the certified soil erosion and sediment control plan. This certification remains valid through October 6, 2020, and is limited to the controls specified in this plan. It is not authorization to engage in proposed land use unless such use has been previously approved by the municipality or other controlling agency.

Yours truly,

Matthew J. Ward
Chairman

Cc: Planner, Municipality, County



For District Use Only

217-H-3845/217-H-0039

Authorization Amended: 10/18/17

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 Garfield Avenue Group Sites Restoration Recertification		Project Location: Municipality Jersey City, Hudson County	
Project Street Address See Attachment 1		Block See Attachment 1	Lot See Attachment 1
Project Owner(s) Name PPG		Email Jody Overmyer 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) 22.6	Total Area of Land to be Disturbed (Acres) 0	No. Dwelling or other Units N/A - Cat.D	Fee \$ 150.00
Plans Prepared by* Hue N. Quan, P.E./AECOM			Phone # 732-564-3631 Fax # 732-369-0122
Street Address 30 Knightsbridge Road, Suite 520		City Piscataway	State NJ Zip 08854

*(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 AECOM		Email Hue.Quan@aecom.com	
Street Address 30 Knightsbridge Road, Suite 520			
City Piscataway	State NJ	Zip 08854	Phone 732-564-3631 Fax # 732-369-0122

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:

1. 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.
2. 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.
3. To maintain a copy of the certified plan on the project site during construction.
4. To allow District agents to go upon project lands for inspection.
5. 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.
6. 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: Date: 9/26/17 Applicant Name (Print) Jody Overmyer	3. Plan determined complete: Signature of District Official: Date: 10/18/17
2. Receipt of fee, plan and supporting documents is hereby acknowledged: Signature of District Official: Date: 9/29/17	4. Plan certified, denied or other actions noted above. Special Remarks: Signature of Date: 10/18/17

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

SSCC251 AP10 1/2014

START NOTICE

HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT

THIS FORM IS TO BE SUBMITTED TO PROVIDE THE REQUIRED 48 HOUR ADVANCE NOTICE OF THE START OF SOIL DISTURBING ACTIVITIES AND THE IMPLEMENTATION OF THE SOIL EROSION AND SEDIMENT CONTROL PLAN

This project ~~requires~~ / does not require the NJDEP 5G3 (RFA) permit prior to groundbreaking.
Stormwater will be collected.

PROJECT NAME: PPG RESTORATION OF GARFIELD AVE GROUP SITES

HUDSON-ESSEX-PASSAIC SCD 251 ID #: 217-H-3845

PROJECT LOCATION: STREET ADDRESS: Dakota, Carteret, Garfield & Halladay

MUNICIPALITY: Jersey City

PROJECT OWNER/APPLICANTS NAME: PPG/
Jody Overmyer

ADDRESS: 440 College Park Drive, Monroeville, PA, 15146

PHONE #: 724-325-5070

FAX: _____

E-MAIL: Overmyer@ppg.com

CELL# _____

ON-SITE AGENT RESPONSIBLE DURING CONSTRUCTION or CONTRACTOR

NAME: Brady Bonsted/ ENTACT

ADDRESS: 70 Carteret Avenue, Jersey City New Jersey

PHONE #: _____ FAX _____

EMAIL : bbonsted@entact.com CELL# (630) 669-0216

PROJECT START DATE : August 7, 2017

(including DEMOLITION, CLEARING, LAND GRADING) This form must be provided to the District at least 48 hours in advance of any soil disturbing activity pertaining to a plan previously certified by this office. Failure to provide this notification is a violation of the New Jersey Soil Erosion and Sediment Control Act, ch.251, P.L 1975, and may result in additional fees.

Submit to: **HUDSON-ESSEX-PASSAIC SCD**
80 ORCHARD STREET
BLOOMFIELD,NJ 07003

Or send via FAX: (862)333-4507 or EMAIL: information@hepscd.org

Notice of Non-Applicability



State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Mail Code - 401-02B
Division of Water Quality
Office of Permit Management
P.O. Box 420 - 401 E State St
Trenton, NJ 08625-0420
Phone: (609) 984-4428 / Fax: (609) 777-0432

BOB MARTIN
Commissioner

NOTICE OF NON-APPLICABILITY

Date: March 18, 2015

PPG GARFIELD AVE GRP SOIL REMEDIATION PROJECT
70 CARTERET AVE
JERSEY CITY, NJ 07305

Re: NAF - Discharge to CSO w/certification
Program Interest ID: 677817
PPG GARFIELD AVE GRP SOIL REMEDIATION PROJECT
Jersey City, Hudson County

Dear Applicant:

Your Non-Applicability Request was received on 03/12/2015 and has been determined to be complete. As stated, all stormwater associated with the construction activities will be discharged to a combined sewer. Based on this information, the Construction Stormwater General permit (5G3) is not required at this time. The above facility shall submit an application for permit coverage if, at any time, it is discovered that unpermitted discharges are occurring from this construction activity and may be subject to enforcement penalties. Please include the Program Interest ID **677817** on future submissions.

Please be advised that checklists and forms are revised from time to time. Before making any future submissions please see our website at <http://www.nj.gov/dep/dwq/forms.htm> or contact the Office of Permit Management at (609) 984-4428. Please refer to the Program Interest number and subject matter when making inquiries.

Sincerely,

Terry Beym
Office of Permit Management

cc: AECOM
Central File-Administrative Record - PI: 677817 / MF: 483253

Water Use Registration



State of New Jersey

Department of Environmental Protection

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

*DIVISION OF WATER SUPPLY
WATER SUPPLY PERMITTING
BUREAU OF WATER ALLOCATION
P.O. BOX 426
TRENTON, NEW JERSEY 08625-0426
TEL.# 609-292-2957
FAX.# 609-633-1495*

June 30, 2010

PPG Site 114
4325 Rosanna Drive
ALLISON PARK, PA 15101
Attn: Brian G. McGuire

Dear Mr. McGuire:

Re: **Water Use Registration - New
Program Interest ID: 11345W
Activity No. WUR100001**

Enclosed is a Water Use Registration issued pursuant to N.J.S.A. 58:1A et seq. This Water Use Registration becomes effective on July 1, 2010 and is to divert water from dewatering trench in the following Municipalities and Counties:

MUNICIPALITY	COUNTY
Jersey City	Hudson

This registration provides valuable data on water use which assists the Bureau in effectively managing the State's water resources. The diversion of more than 100,000 gpd requires a Water Allocation Permit. This registration allows for a total diversion (from all sources combined) up to 100,000 gallons of water per day.

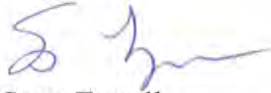
The issuance of this water use registration does not imply that any further approvals will be granted by the Department of Environmental Protection for the diversion of water in excess of 100,000 gallons of water per day (gpd) for use at this facility. Any construction activities undertaken by the registrant, that may require the use of water in excess of 100,000 gpd, are done so at the registrant's own risk.

11345W is your Program Interest ID and WUR100001 is your Permit Activity Number, and will appear on all forms and correspondence from the Bureau of Water Allocation. Reference your Program Interest ID and Activity No. in all correspondence.

Review the enclosed Water Use Registration to ensure its accuracy and your understanding of the conditions contained therein. If any of the information contained in this registration is incomplete or incorrect notify the Bureau in writing so your file can be updated.

If you have any questions, contact Ken Komar at (609) 292-2957.

Sincerely,

A handwritten signature in blue ink, appearing to read "S. Tyrrell", written over a horizontal line.

Scott Tyrrell
Section Chief
Bureau of Water Allocation

Enclosures

Certified Mail No.: 7007 0220 0002 1055 6469

c: Northern Bureau of Water Compliance & Enforcement
Ken Komar, BWA



State of New Jersey
Department of Environmental Protection
Bureau of Water Allocation
PO Box 426, Trenton, New Jersey 08625-0426



Water Use Registration

The New Jersey Department of Environmental Protection grants this permit* in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents.

Program Interest ID: 11345W Permit Number: WUR100001	Issuance Date: 06/30/2010	Effective Date: 07/01/2010	
Name and Address of Applicant PPG SITE 114 4325 Rosanna Drive ALLISON PARK, PA 15101	Location of Activity/Facility Jersey City Hudson		
	Type of Permit Water Use Registration - New	Statute(s) N.J.S.A. 58:1A-1	
This water use registration grants permission to divert water from the approved sources in the attached permit inventory, in the following municipalities, for the following water uses:			
MUNICIPALITY Jersey City	COUNTY Hudson	Water Uses: Pollution Control	
This water use registration is subject to the attached Conditions.			
* Permit means Certification, Approval, Registration, Equivalency, etc.			

Permit Inventory

Water Diversion Sources - Water may be diverted under this permit from the following sources:

Source Designation (Well Permit No. or Intake No.)	Description	Subject Item ID
DEWATERING/ TRENCH SOURCES	EXCAVATION TRENCH	WSRM0000919299

Group Subject Items - The following items are grouped sources for the purpose of setting permit requirements outlined in this document:

Group Designation	Group Description	Group Subject Item ID	Group Members
PPG SITE 114	11345W WU REG - ALL DIVERSION SOURCES	WSWA0000919300	DEWATERING/ TRENCH SOURCES, EXCAVATION TRENCH (WSRM919299)

Permit Requirements

Limit Requirements

The following limits apply and are the maximum permitted allocation:

Final Permit Phase from 07/01/2010 -

Subject Item	Parameter	Limit
PPG SITE 114, 11345W WU REG - ALL DIVERSION SOURCES (WSWA919300)	Water Diverted	< 3.1 Million Gallons Per Month. [N.J.A.C. 7:19- 2]

Other Limit Requirements

Final Permit Phase from 07/01/2010 -

Subject Item	Parameter	Limit
DEWATERING/ TRENCH SOURCES, EXCAVATION TRENCH (WSRM919299)	Rated Pump Capacity	<= 300 Gallons Per Minute. [N.J.A.C. 7:19- 2]

Monitoring Requirements

Final Permit Phase from 07/01/2010 -

Subject Item	Requirement	Frequency	Monitored Parameter	Monitoring Method
DEWATERING/ TRENCH SOURCES, EXCAVATION TRENCH (WSRM919299)	The monthly diversion for each source indicated shall be monitored. [N.J.A.C. 7:19- 2]	Each Month	Water Diverted	Meter

Record Keeping Requirements

Final Permit Phase from 07/01/2010 -

Subject Item	Requirement	Frequency	Monitored Parameter	Record Keeping Method
PPG SITE 114, 11345W WU REG - ALL DIVERSION SOURCES (WSWA919300)	A log book of the monthly hours of operation for each authorized non-metered diversion source shall be maintained on site. [N.J.A.C. 7:19- 2]	Each Month	Hours of Operation	Log Book

Submittal/Action Requirements

Final Permit Phase from 07/01/2010 -

Applicable Subject Items	Submittal/Action Type	Requirement
DEWATERING/ TRENCH SOURCES, EXCAVATION TRENCH (WSRM919299)	Submit Annual Water Use Report	The required monitoring results shall be recorded on the form provided by the Department. The completed report shall be submitted by January 31st of each year. [N.J.A.C. 7:19- 2]
PPG SITE 114, 11345W WU REG - ALL DIVERSION SOURCES (WSWA919300)	Submit Water Use Registration Metering Form	The completed form must be submitted within 60 days from the effective date of this document. [N.J.A.C. 7:19- 2]
DEWATERING/ TRENCH SOURCES, EXCAVATION TRENCH (WSRM919299)	Submit Proof of Flow Meter Calibration	Proof of flow meter calibration for the specified diversion source(s) shall be submitted prior to placing the source into operation. [N.J.A.C. 7:19- 2]

Text Requirements

All Phases

PPG SITE 114, 11345W WU REG - ALL DIVERSION SOURCES (WSWA919300)

1. The total diversion from all sources shall not exceed or equal 3.1 million gallons per month (mgm). Any exceedance of this limit will be considered a violation of N.J.A.C. 7:19-1.4 et seq. and may result in penalties (fines). [N.J.A.C. 7:19-18]
2. The issuance of this water use registration does not imply that any further approvals will be granted by the Bureau of Water Allocation for the diversion of water in excess of 100,000 gallons of water per day (gpd) for use at this facility. Any construction activities undertaken by the registrant, that may require the use of water in excess of 100,000 gpd, are done so at the registrant's own risk. [N.J.A.C. 7:19- 2]
3. This registration does not waive the obtaining of any Federal or other State or local government consent when necessary. [N.J.A.C. 7:19- 2]
4. All diversion sources shall be metered with a totalizing flow meter prior to use authorized by this Water Use Registration. [N.J.A.C. 7:19- 2]
5. All diversion source meters are required to be calibrated at least once every five years. [N.J.A.C. 7:19- 2]
6. All wells shall be equipped with a metal tag showing the well permit numbers, as listed in the permit inventory, or the permit numbers must be painted on the well casing. [N.J.A.C. 7:19- 2]
7. Wells which are no longer used must be decommissioned in accordance with N.J.A.C. 7:9D-3.1 et seq. [N.J.A.C. 7:9D-3]
8. The addition of a new diversion source requires prior approval by the Department through a modification of the registration. [N.J.A.C. 7:19- 2]
9. The pumping equipment capacity shall not be increased without prior approval by the Department. [N.J.A.C. 7:19- 2]
10. The issuance of this registration shall not be deemed to affect in any way action by the Department of Environmental Protection of the State of New Jersey on any future application. [N.J.A.C. 7:19- 2]
11. The granting of this registration shall not be construed to in any way affect the title or ownership of property, and shall not make the Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:19- 2]
12. A copy of this registration shall be kept at the work site, and shall be exhibited upon request of any person. [N.J.A.C. 7:19- 2]

Text Requirements

All Phases

PPG SITE 114, 11345W WU REG - ALL DIVERSION SOURCES (WSWA919300)

13. The Department has the right to enter and inspect any site, building, or equipment, or any portion thereof, owned or operated by the registrant, at any time, in order to ascertain compliance or noncompliance with N.J.S.A. 58:1A-1 et seq., 58:4A-4.1 et seq., 58:12A-1 et seq., these rules, or any other agreement or order issued or entered into pursuant thereto. Such right shall include, but not be limited to, the right to require the testing of any equipment at the facility, to sketch or photograph any portion of the site, building or equipment, to copy or photograph any document or records necessary to determine such compliance or noncompliance, and to interview any employees or representative of the owner, operator, or registrant. Such right shall be absolute and shall not be conditioned upon any action by the Department, except the presentation of appropriate credentials as requested and compliance with appropriate standard safety procedures. [N.J.A.C. 7:19- 2]
14. The registrant shall protect each diversion source from vandalism, tampering, and contamination at all times. [N.J.A.C. 7:19- 2]

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION
P.O. BOX 426
TRENTON, NJ 08625
(609) 292-2957

WATER USE REGISTRATION METERING FORM

This form is to be completed within 60 days of receipt of your registration number or within 60 days of completion of your diversion source, whichever occurs last. All diversions must be metered, with a totalizing flow meter, at the source.

REGISTRATION NUMBER _____
CONTACT PERSON _____
PHONE NUMBER _____

COMPANY _____
ADDRESS _____

1. Complete the following information for all diversion sources. (wells, ponds, stream intakes)

Source	Well Permit No.	Meter Type	Manufacturer	Date Installed

2. Provide details of the proposed schedule for calibration of each meter. All meters must be calibrated at least once every five years.

Meter readings must be taken and recorded at the beginning of every month, so the monthly usage can be tracked accurately.



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Compliance and Enforcement

Mail Code 401-04B

P. O. Box 420

Trenton, New Jersey 08625-0420

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

June 12, 2015

PPG SITE 114
4325 Rosanna Dr,
Allison Park, PA 15101

Reference: PPG SITE 114
PROGRAM INTEREST ID # 11345W
PROGRAM: Water Supply
INSPECTION DATE: May 27, 2015
Compliance Inspection # SCI 150001

Dear Sir or Madame:

On May 27, 2015, an inspection was conducted at your facility/site by John Zuzeck, of the Water Supply program. The inspector determined that your facility was in compliance with applicable Department regulations and/or Permit conditions. Therefore, the Department now considers this inspection closed.

Please note this letter pertains only to the observations of the equipment/area/conditions that were part of the inspection that occurred on May 27, 2015.

You may review the inspection report online at www.nj.gov/dep/inspections. Once you have accessed DEP's web site, please follow the instructions on the reverse side of page 2 of the enclosure. This web site also gives you the opportunity to provide us feedback about our operations. We would appreciate your input and will share all results with you upon your completion of a survey.

The Department appreciates the continued operation of your facility/site in an environmentally responsible manner.

If you have any questions regarding this inspection or correspondence, please contact John Zuzeck, of the Water Supply program, at (973) 656-4099.

Very truly yours,

John Giordano
Assistant Commissioner

Enclosure

**Permit-By-Rule Discharge Approval for Site-wide
FerroBlack-H Backfill Amendment**



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Site Remediation Program

Mail Code 401-04K

P.O. Box 420

Trenton, NJ 08625-0420

CHRIS CHRISTIE

Governor

BOB MARTIN

Commissioner

KIM GUADAGNO

Lt. Governor

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

October 17, 2012

Brian G. McGuire, P.E., Remediation Project Manager
PPG Industries, Inc.
Post Office Box 2009
4325 Rosanna Drive, Bldg. C
Allison Park, PA 15101-2009

Re: Discharge Approval and Monitoring Requirements Associated with
Permit-By-Rule Discharge Authorization for PPG Industries (COPR)
Garfield Avenue Group and Former Halladay Street Gas Works
NJ Program Interest Numbers: G000008791, G000008749, 025695, 246332, G000008753, and
G000008759
Jersey City, Hudson County

Dear Mr. McGuire:

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 permittee to discharge FerroBlack-H (a water based suspension of 7 to 8% ferrous sulfide and 1 to 2% sodium hydrosulfide) to the ground waters of the State within clean backfill for the purpose of remediation of potentially contaminated ground water at the above referenced sites. 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. The discharge approved through this authorization will be added to clean backfill placed in excavations down to a depth of up to 35 feet. The discharge shall be conducted as proposed in the *Permit by Rule Request - Garfield Avenue Group and Former Halladay Street Gas Works* (August 30, 2012), submitted to the Department on your behalf by AECOM. The discharge shall be conducted in conformance with the following requirements.

A public notice describing this discharge was published in The Jersey Journal on September 11, 2012 which initiated a 30 day public comment period. In addition a copy of the public notice was sent to the city clerk of Jersey City, and to the Jersey City and Hudson County health officials. The Department did not receive any comments on the DGW proposal.

I. DISCHARGE DESCRIPTION

The authorized discharge is FerroBlack-H (a water based suspension of 7 to 8% ferrous sulfide and 1 to 2% sodium hydrosulfide). The FerroBlack-H will be added to backfilled soils at the Garfield Avenue Group and Former Halladay Street Gas Works in Jersey City, New Jersey (the Site). The Garfield Avenue Group includes Chromium Sites 114, 132, 133, 135, 137 and 143. PPG is conducting a remediation of the Site whereby chromium-impacted soil would be excavated and removed from the site. Excavations could reach depths of up to 35 feet. Clean backfill would be blended with a low dose of FerroBlack-H (2.8% by weight or less of FerroBlack-H to clean fill) and placed in the excavated area. The FerroBlack-H application is designed to convert hexavalent chromium in groundwater to the less toxic and less mobile trivalent form. The proposed application of FerroBlack-H would be part of the completion of the overall remediation of the sites. Application rates for FerroBlack-H will range from 0% (no use of the amendment) to a maximum of 2.8%. The total amount of the FerroBlack-H solution to be applied is a maximum of 6,520 tons. Excluding water, an estimated 520 tons of ferrous sulfide and 13 tons of sodium hydrosulfide will be applied to the clean fill. The actual dosing and locations of application within each area will be determined as part of the Technical Execution Plan for each area. It is estimated that the excavation and backfill operations will take 36 months to complete.

II. SYSTEM OPERATION AND MONITORING

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, unless otherwise approved by the Department. All samples shall be analyzed by a New Jersey Certified Laboratory certified for the methods being used to analyze ground water and soil. Parameters determined in the field (pH and Eh) are to be measured by a certified contractor or laboratory. Analytical method MDLs shall be less than or equal to the groundwater quality standards listed in Table 1.

The area in and around the amended backfill shall be monitored for evidence of malfunction. Said evidence shall include, but not be limited to: spilling, dust and/or odor emissions, abnormal settling, ponding and/or chromium blooms at the ground surface.

The discharge shall not have a long term adverse impact on ground water quality, create an unpermitted discharge to any surface water of the State, create a persistent standing, ponded or surface-flowing fluid condition, adversely impact a water supply well 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.

III. GROUND WATER MONITORING REQUIREMENTS

Ground water monitoring/sampling must be conducted as specified in the above referenced *Permit by Rule Request - Garfield Avenue Group and Former Halladay Street Gas Works* (August 30, 2012). Following the completion of excavation and placement of the amended backfill (or at the request of the Department), a groundwater monitoring network will be installed within, adjacent to, and underneath the area of amended

fill. Well installation, well development, and ground water sampling will be conducted in accordance with the procedures previously approved as part of the *Quality Assurance Project Plan for the Garfield Avenue Group* (AECOM, 2012).

The monitoring program will utilize existing wells and newly installed wells. The wells will be tested quarterly for a period of one year. Testing will include analysis for hexavalent chromium, Target Analyte List ("TAL") metals, pH and oxidation potential ("Eh"). During each monitoring event the air above the open monitoring wells will be tested for oxygen, hydrogen sulfide, carbon monoxide, and explosive limit. Prior to the application of amended backfill, soil samples from pit bottoms in each of the grids will be analyzed for hexavalent chromium, total chromium, pH and oxidation potential. Additionally, 10% of the soil samples will be analyzed for additional parameters (TAL metals, volatile organic compounds, semi-volatile organic compounds and potentially other parameters as described in the technical execution plan for each area).

IV. REPORTING REQUIREMENTS AND INFORMATION SUBMITTALS

Report ground water sampling results for the individual contaminants listed in Table 1 and any others that exceed standards. All information and ground water and soil sampling results, and the QA/QC package specified at N.J.A.C. 7:26E-2.1(a)15, shall be submitted to the below address entitled "DGW Permit-by-Rule Monitoring Report" at the frequency specified in the DGW Proposal. AECOM will produce quarterly reports on monitoring results and produce a final report at the conclusion of four quarters of monitoring. In addition, all monitoring results obtained under the permit-by-rule shall also be submitted with the Remedial Action Report (RAR), N.J.A.C. 7:26E-5.7, and sent to:

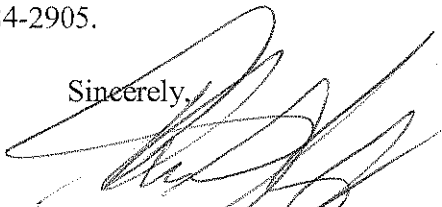
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CASE ASSIGNMENT & INITIAL NOTICE
MAILCODE 401-05H
P.O. BOX 420
TRENTON, NJ 08625-0420
ATTN: COPR

In addition, electronic copies of the tabulated ground water and soil sampling results shall be e-mailed to Thomas Cozzi at Tom.Cozzi@dep.state.nj.us according to the schedule in the DGW proposal.

The record keeping requirements of N.J.A.C. 7:14A-6.6 are applicable to monitoring information resulting from this discharge authorization. Pursuant to N.J.A.C. 7:14A-6.8(e) the results for any additional sampling done as a result of this discharge, but that is not specified in this authorization, must also be reported with the RAR as specified above. Any malfunctions or non-compliance should be reported by telephone within 24 hours to Tom Cozzi of the Site Remediation Program at (609) 984-2905, and in writing within 7 days to the above address using the subject line "DGW Permit-by-Rule Compliance Report - COPR."

If you have any questions or concerns, please contact Tom Cozzi of the Site Remediation Program at (609) 984-2905.

Sincerely,



Thomas J. Cozzi, Assistant Director
NJDEP Site Remediation Program, Office of Assistant Commissioner

Attachments

c: Craig W. MacPhee, AECOM
Prabal N. Amin, Weston Solutions, Inc.
Carrie Nawrocki, Hudson Regional Health Commission
Harry Melendez, Jersey City Dept. of Health and Human Services
Robert Byrne, RMC, Jersey City Clerk

Table 1: Ground Water Quality Standards of Monitored Parameters

Parameters	Standards in ppb* (a)
Total Chromium (Cr)	70
Hexavalent Chromium (Cr ⁺⁶)	
pH	6.5–8.5
Oxidation Potential (Eh)	
Aluminum (Al)	200
Antimony (Sb)	6
Arsenic (As)	3
Barium (Ba)	6,000
Beryllium (Be)	1
Cadmium (Cd)	4
Calcium (Ca)	
Cobalt (Co)	
Copper (Cu)	1,300
Iron (Fe)	300
Lead (Pb)	5
Magnesium (Mg)	
Manganese (Mn)	50
Mercury (Hg)	2
Nickel (Ni)	100
Potassium (K)	
Total Selenium (Se)	40
Silver (Ag)	40
Sodium (Na)	50,000
Sulphur (S)	
Thallium (Tl)	2
Vanadium (V)	60
Zinc (Zn)	2,000

*except pH

Notes:

- a) Ground Water Quality Criteria were established for Class II-A aquifers pursuant to N.J.A.C. 7:9C-1.7(c) of the GWQS. Practical quantitation levels (PQL) are defined, discussed and specified in N.J.A.C. 7:9C-1.4, 1.9(c) and Appendix Table 1. The applicable standard is the higher of these two values.

Quan, Hue

From: VanEck, David <David.VanEck@dep.state.nj.us>
Sent: Tuesday, March 25, 2014 9:38 AM
To: Quan, Hue
Cc: Doyle, David; Cozzi, Tom; Feinberg, Richard [C] (feinberg@ppg.com); Fitzpatrick, Aimee; 'McGuire, Brian - Environmental' (bm McGuire@ppg.com); Twiss, Randy
Subject: RE: Garfield Avenue Group PBR for FerroBlack-H

Hue,

I checked with my bureau chief and confirmed that since the FerroBlack concentration range will remain the same, and the discharge will still be within the permitted project area, we can approve this modification via email. We will consider your email from 3/24/2014 as the PBR modification request, and this response as the modification approval. I will memorialize this approval in NJEMS by placing a copy of this message in the Attachment List under RPC000051.

Dave

David Van Eck | Supervising Geologist | David.VanEck@dep.state.nj.us

New Jersey Department of Environmental Protection
Site Remediation Program - <http://nj.gov/dep/srp/>
Bureau of Ground Water Pollution Abatement
P.O. Box 420, Mail Code 401-05V
Trenton, New Jersey 08625-0420

Phone: 609.633.2427 Fax: 609.633.1454

From: Quan, Hue [<mailto:Hue.Quan@aecom.com>]
Sent: Monday, March 24, 2014 2:11 PM
To: VanEck, David
Cc: Doyle, David; Cozzi, Tom; Feinberg, Richard [C] (feinberg@ppg.com); Fitzpatrick, Aimee; 'McGuire, Brian - Environmental' (bm McGuire@ppg.com); Twiss, Randy
Subject: Garfield Avenue Group PBR for FerroBlack-H

Dave-

Field changes will be implemented in the near future to add FerroBlack-H to backfill where groundwater impacts are observed (green coloration in groundwater) as remediation progresses at the Garfield Avenue Group Remediation Sites. While the 0-2.8% FerroBlack concentration range will still be applied, we estimate the maximum tonnage of 6,520 tons will be exceeded over the duration of the remediation. We would like to change this maximum tonnage to 10,000 tons to account for the additional FerroBlack-H that added to the backfill in these additional areas. There are no changes to the project area.

I have attached a copy of the discharge authorization for your reference. Please let me know if this change will require a PBR modification request.

Thank you,

Hue Quan, P.E.
Project Specialist, Environment, Northeast
D 1.732.564.3631 C 1.908.229.1837
Hue.Quan@aecom.com

AECOM
30 Knightsbridge Road, Suite 520, Piscataway, New Jersey 08854
T 1.732.564.3600 F 1.732.369.0122 Cisco 1003631
www.aecom.com

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Quan, Hue

From: VanEck, David <David.VanEck@dep.nj.gov>
Sent: Tuesday, May 12, 2015 9:49 AM
To: Quan, Hue
Cc: Mikaelian, Scott; Ruiter, Aimee; 'McGuire, Brian - Environmental' (bmcguire@ppg.com); Feinberg, Richard [C] (feinberg@ppg.com); Terril, Mark (terril@ppg.com); Prins, Keith (prins@ppg.com); 'psorge@jmsorge.com' (psorge@jmsorge.com); CDaggett@GRDodge.org; 'rschmitt@hampshireco.com' (rschmitt@hampshireco.com); Benjamin Delisle; Jeremy Farrell - City of Jersey City (jfarrell@jcnj.org); Jason Watson (JWatson@jcnj.org); Ron Adams (radams@erfs.com); David Spader, PG (DSpader@erfs.com); Cozzi, Tom; Doyle, David; Amin, Prabal (Prabal.Amin@WestonSolutions.com); bmcpeak@planningprogress.com; Michael McCabe (jcsiteadministrator@earthlink.net)
Subject: RE: GAG-019: GAG - Site-wide FerroBlack-H PBR Tonnage Modification Request

Hue,

The NJDEP hereby approves the proposal to amend the subject Permit-By-Rule Discharge Authorization with an additional 1,150 tons of FerroBlack-H, as detailed below. This correspondence will be placed into NJEMS in the Attachment List under RPC000051 to memorialize the Department's approval of the proposal.

David

David Van Eck, Supervising Geologist
NJ Dept. of Environmental Protection, Site Remediation Program
Bureau of Ground Water Pollution Abatement
P.O. Box 420, Mail Code 401-05V, Trenton, New Jersey 08625-0420
Phone: 609-633-2427 Fax: 609-633-1454
David.VanEck@dep.nj.gov

From: Quan, Hue [<mailto:Hue.Quan@aecom.com>]
Sent: Monday, May 11, 2015 1:04 PM
To: VanEck, David
Cc: Mikaelian, Scott; Ruiter, Aimee; 'McGuire, Brian - Environmental' (bmcguire@ppg.com); Feinberg, Richard [C] (feinberg@ppg.com); Terril, Mark (terril@ppg.com); Prins, Keith (prins@ppg.com); 'psorge@jmsorge.com' (psorge@jmsorge.com); CDaggett@GRDodge.org; 'rschmitt@hampshireco.com' (rschmitt@hampshireco.com); Benjamin Delisle; Jeremy Farrell - City of Jersey City (jfarrell@jcnj.org); Jason Watson (JWatson@jcnj.org); Ron Adams (radams@erfs.com); David Spader, PG (DSpader@erfs.com); Cozzi, Tom; Doyle, David; Amin, Prabal (Prabal.Amin@WestonSolutions.com); bmcpeak@planningprogress.com; Michael McCabe (jcsiteadministrator@earthlink.net)
Subject: GAG-019: GAG - Site-wide FerroBlack-H PBR Tonnage Modification Request

Mr. David Van Eck
Supervising Geologist
Bureau of Ground Water Pollution Abatement
P.O. Box 420, Mail Code 401-05V
Trenton, New Jersey 08625-0420

**Subject: Site-wide FerroBlack-H Permit-by-Rule ("PBR") Modification Request
Garfield Avenue Group and Former Halladay Street Gas Works
Jersey City, Hudson County, New Jersey**

Dear Mr. Van Eck,

Upon review of the maximum tonnage of 10,000 tons requested in March 2014 (see Attachment) and the current rate of use of FerroBlack-H, an additional increase of 1,150 tons is requested. This increase is due to deeper-than-anticipated excavation in many grids, notably in Phase 2B, and a pending NJDEP request to install a two-foot thick amended soil cap in certain areas that do not otherwise require amended backfill. The FerroBlack-H concentration in the amended soil cap will be 0.7% by weight, which is within the 0-2.8% range specified in the approved PBR.

As of April 30, 2015, a total of 9,224 tons of FerroBlack-H has been used to amend backfill. An estimate of 11,150 tons of FerroBlack-H is needed to complete the remediation for Garfield Avenue Group Phases 1 through 3 and Halladay Street South, as outlined in the December 2014 Remedial Action Work Plan (Soil) Revision 3.

A copy of the March 2014 modification approval is attached for your reference. We anticipate reaching our maximum tonnage of 10,000 within in the next 1-2 months.

Yours sincerely,

Hue Quan, P.E.
Project Specialist, Environment, North
D 1.732.564.3631 C 1.908.229.1837
Hue.Quan@aecom.com

AECOM
30 Knightsbridge Road, Suite 520, Piscataway, New Jersey 08854
T 1.732.564.3600 F 1.732.369.0122 Cisco 1003631
www.aecom.com

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**Renewed Permit-By-Rule Discharge Approval for Site-wide
FerroBlack-H Backfill Amendment**



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Site Remediation and Waste Management Program
Mail Code 401-06
P.O. Box 420
Trenton, NJ 08625-0420

CHRIS CHRISTIE
Governor

BOB MARTIN
Commissioner

KIM GUADAGNO
Lt. Governor

11 October 2017

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

Re: Discharge to Ground Water Authorization
Garfield Avenue Group and Former Halladay Street Gas Works
City of Jersey City, Hudson County
Program Interest Numbers: G000008791, G000005480, G000008749, 025695, 246332,
G000008753, G000008759, 629388, and 722429

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 continued application of FerroBlack[®]-H to backfill to treat contaminated water in the at the above referenced sites. 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 added to clean backfill placed in excavations down to a depth of up to 35 feet. The discharge shall be conducted as proposed in the 13 July 2017 *Permit-by-Rule Request*. This document was submitted on your behalf by Hue Quan and Aimee Ruiter of AECOM. In addition, a technical execution plan will be developed for each remediation Phase or Site.

A public notice describing this discharge was published in the *The Jersey Journal* on 21 July 2017 which initiated a 30-day public comment period. In addition, a copy of the public notice was sent to the clerk for The City of Jersey City, the director of Jersey City's Department of Health and Human Services, and the Health Officer of the Hudson Regional Health Commission. The Department did not receive any comments on the DGW proposal.

The New Jersey Department of Environmental Protection (NJDEP) previously issued a NJPDES/Discharge to Groundwater (DGW) authorization for the Site on 17 October 2012 for the application of FerroBlack[®]-H. As of 10 July 2017, a total of 10,931 tons of FerroBlack[®]-H have been

applied to clean backfill at the Site. However, certain areas that were included in the original PBR request have not yet been remediated (e.g., Carteret Avenue, Garfield Avenue, portions of Site 137, and Site 133 [West]), and additional areas adjacent to the Site have been identified for excavation and backfilling. This PBR application requests an additional 1,500 tons of FerroBlack®-H for the continuation of the permit to account for the remediation of additional areas and areas that still require remediation.

Pursuant to N.J.A.C. 7:14A-2.7 the maximum approved discharge duration is five (5) years from the date of this letter, regardless of the date when the discharge first occurs. 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 this *Permit-by-Rule Request* as well as any technical execution plans, and shall comply with the requirements of Sections II, III, and IV, farther below.

I. DISCHARGE DESCRIPTION

The authorized discharge is FerroBlack®-H (a water based suspension of 7 to 8% by weight ferrous sulfide and 1 to 2% by weight sodium hydrosulfide) to the subsurface within additional areas of the Garfield Avenue Group of Sites and Former Halladay Street Gas Works in Jersey City, as well as areas of contiguous properties that have been identified for remediation (the Site). The areas proposed for remediation are shown on Figure 1. The FerroBlack®-H application is designed to convert hexavalent chromium (Cr^{+6}) in groundwater to the less toxic and less mobile trivalent form (Cr^{+3}). Under this proposal, impacted soil would be excavated and removed from the Site. Excavations could reach depths of up to 35 feet. Clean backfill would be blended using an excavator bucket with a low dose of FerroBlack®-H (0% to 2.0% by weight) and placed in the open excavation.

The proposed application of FerroBlack®-H would be part of completion of the overall remediation of the Sites. Application rates for FerroBlack®-H will range from 0% (no use of the amendment) to a maximum of 2.0%. Although this Permit-by-Rule allows a maximum application quantity for each Site, the actual application quantities are likely to be lower. For each remediation Phase or Site, a technical execution plan (TEP) will be prepared. The TEP will delineate exact areas and doses of FerroBlack®-H to be applied.

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: adversely impact the behavior of free product or the plume; adversely impact 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 (VI) 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 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.

Following the completion of excavation and backfill with FerroBlack®-H in the subject areas, groundwater monitoring will be conducted in accordance with the *Groundwater Monitoring Plan* (AECOM, 19 September 2017). The monitoring program will utilize existing wells and newly installed wells. Samples will be analyzed for Cr⁺⁶, TAL metals (including Cr), pH, and oxidation reduction potential (ORP). Additional groundwater sampling may be conducted as part of the overall groundwater remedy.

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, ORP) are to be measured by a certified contractor or laboratory.

Comparison to the 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 groundwater 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.

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 is 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

AECOM will evaluate groundwater data as part of the work conducted under the March 2017 *Groundwater Remedial Investigation Work Plan* and other field programs. Quarterly reports on the progress of remediation and groundwater monitoring results are not required based on the five years of groundwater monitoring data accumulated for FerroBlack®-H amended areas to date, which show a reduction of Cr⁺⁶ and Cr concentrations in the groundwater where it has been applied. A final report summarizing the placement of FerroBlack®-H for the two Site-wide Amended Backfill PBRs will be prepared at the conclusion of the remediation and when restoration is completed.

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 following completion of the discharge monitoring program.

Consistent with N.J.A.C. 7:14A-2.11(a) and 6.2(a)14, within 90 days after initiation of the discharge, notify the Department of the "start date" of the discharge. To report this date, send an email to Tom.Cozzi@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 fax or telephone within 24 hours to Tom Cozzi of the Site Remediation Program at (609) 984-2905, and in writing within 7 days to the above address using the subject line "DGW Permit-by-Rule Compliance Report - COPR." Written submissions must include the Site 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, please contact David VanEck of the Site Remediation Program at (609) 633-2427.

Sincerely,



Thomas Cozzi, Assistant Director
NJDEP Site Remediation Program, Office of the Assistant Commissioner

Attachments

c: Mark Terril, PPG
Hue Quan, AECOM
Rolando R. Lavarro, Jersey City Redevelopment Agency
Mid-Newark, L.P., c/o Ten West Apparel
NJEDA, c/o A. Smith Moving & Furniture
90 and 100 Forrest Street Associates, Inc.
Carrie Nawrocki, Health Officer, Hudson Regional Health Commission
Stacey Flanagan, Director, Department of Health and Human Services
Robert Byrne, Jersey City Clerk

Street Address, Program Interest (PI) Numbers, and Block and Lot Information

Site Number	PI Numbers	Street Address	Block	Lot(s)
114	G000008791 and G000005480	880-900 Garfield Ave/70 Carteret Avenue	21501	16 – 20
132	G000008749	824 Garfield Avenue	21510	2
133 West	25695	15 Halladay Street	21510	5
133 East	25695	22 Halladay Street	21509	1
135	246332	51-99 Pacific Avenue	21509	2
137B	G000008753	25 Halladay Street	21510	4
137A	G000008753	45 Halladay Street	21510	3
143	G000008759	846 Garfield Avenue	21510	1
NA	629388	816 Garfield Avenue	21510	11
NA	No listing	790 and 800 Garfield Avenue	21510	39
NA	722429	78 Halladay Street	21502	12-17
NA	No listing	84, 86, and 90-98 Forrest Street	21501	11, 12, 14, 15
NA	504596	33 Pacific Avenue	21509	3
NA	No listing	Carteret Avenue	NA	NA
NA	No listing	Garfield Avenue	NA	NA
NA	No listing	Halladay Street North	NA	NA
NA	No listing	Forrest Street	NA	NA

Note:

NA – Not Applicable

Highlighted cells indicate areas previously remediated and amended with 0-2.8% by weight FerroBlack®-H (under previously approved Permit-By-Rule)


Community Right to Know Survey for 2017

**NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
COMMUNITY RIGHT TO KNOW SURVEY FOR 2017
For State and Federal Community Right to Know Reporting**

Facility ID: **00000054365** CoMu: **0906** NAICS: **423120**

PPG INDUSTRIES INC
440 COLLEGE PARK DRIVE
MONROEVILLE, PA 15146-

(A) Facility Location:
70 CARTERET AVE
JERSEY CITY, NJ 07304

<p>(B) Does this facility Produce, Store or Use NJ CRTK Environmental Hazardous Substances:</p> <p>1. In any quantity? Yes (✓) No ()</p> <p>2. Above thresholds? Yes (✓) No ()</p> <p>Note: This Section will be populated only if the facility is covered under the New Jersey Worker and Community Right to Know Act, N.J.S.A. 34:5A</p>	<p>(D) Number of employees at facility: 54</p> <hr/> <p>(E) Number of facilities in New Jersey: 1</p> <hr/> <p>(F) Federal EIN: 250730780</p>
<p>(C) Facility Status: Active Business Activity: SITE IS CURRENTLY VACANT, SUPPORTING REMEDIATION</p>	<p>(G) R&D exemption approval number for this facility: No R&D Exemption</p>
<p>(I) FACILITY EMERGENCY CONTACT:</p> <p>Name: RICH FEINBERG Title: PROJECT MANAGER</p> <p>Facility Phone Number: (732) 233-4552 Emergency Contact Phone: (732) 233-4552</p>	
<p>(J) CERTIFICATION OF OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE -- I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.</p> <p>Signature:  Date: 2-8-18</p> <p>Name: JODY OVERMYER Title: REMEDIATION PROJ ENG.</p> <p>Email Address: OVERMYER@PPG.COM Phone Number: (724) 325-5070</p> <p><i>(Please sign and date. Mail copies to your local Police, Fire departments, county lead agency and local emergency planning committee.)</i></p>	
<p>(K) UNION REPRESENTATIVE</p> <p>Union Name/Local Number: Email Address:</p> <p>Representative Name: Phone #:</p>	
<p>EPCRA SECTION INFORMATION</p> <p>TRI Facility ID: RMP Facility ID: Location is: Manned (X) Unmanned ()</p> <p>Latitude: 40.7090120 Longitude: -074.0702180 Maximum Number of Occupants: 45</p> <p>Is this facility subject to Chemical Accident Prevention under Section 112R of CAA (40 CFR, Part 68, Risk Management Program)? No</p> <p>Is this facility subject to Emergency Planning under Section 302 of EPCRA (40 CFR Part 355)? Yes</p> <p><u>Facility EPCRA Section 302 Emergency Coordinator (if applicable)</u></p> <p>Name: RICH FEINBERG Title: PROJECT MANAGER</p> <p>Email Address: FEINBERG@PPG.COM 24-Hour Phone: (732) 233-4552</p> <p><u>Parent Company Information (Optional)</u></p> <p>Company Name: Dun & Bradstreet No.:</p> <p>Company Address: Phone Number:</p> <p>Email Address:</p>	

Facility ID: 00000054365

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PPG INDUSTRIES INC
70 CARTERET AVE
JERSEY CITY, NJ 07304

PART 2
2017 CHEMICAL INVENTORY REPORT

Reporting Period: January 1 - December 31, 2017

Substance Name: ALUMINUM CHLOROHYDRATE		CAS #: 12042-91-0	
Location(s): 6,000-GAL TANK INSIDE GWTS BUILDING		Sub #: N/A DOT #: N/A	
Purity	<input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Above ground tank	<input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	50,000 to 99,999 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	10,000 to 24,999 pounds	<input type="checkbox"/> Self-reactive	<input type="checkbox"/> Respiratory or skin sensitization
Days on site	300	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Carcinogenicity
Storage temperature	Ambient temperature	<input type="checkbox"/> Self-heating	<input type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	Yes	<input type="checkbox"/> Corrosive to metal	<input type="checkbox"/> Aspiration hazard
This EPCRA-Only Mixture Contains EPCRA Section 302 Extremely Hazardous Substances	No	<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input checked="" type="checkbox"/> No physical hazards per SDS	

Substance Name: ALUMINUM CHLOROHYDRATE		CAS #: 12042-91-0	
Location(s): SIX 275-GAL TOTES INSIDE GWTS BUILDING		Sub #: N/A DOT #: N/A	
Purity	<input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Tote bin	<input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	10,000 to 24,999 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	10,000 to 24,999 pounds	<input type="checkbox"/> Self-reactive	<input type="checkbox"/> Respiratory or skin sensitization
Days on site	65	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Carcinogenicity
Storage temperature	Ambient temperature	<input type="checkbox"/> Self-heating	<input type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	Yes	<input type="checkbox"/> Corrosive to metal	<input type="checkbox"/> Aspiration hazard
This EPCRA-Only Mixture Contains EPCRA Section 302 Extremely Hazardous Substances	No	<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input checked="" type="checkbox"/> No physical hazards per SDS	

Facility ID: 00000054365

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PPG INDUSTRIES INC
70 CARTERET AVE
JERSEY CITY, NJ 07304

PART 2
2017 CHEMICAL INVENTORY REPORT

Reporting Period: January 1 - December 31, 2017

Substance Name: CALCIMENT		CAS #: N/A	
Location(s): SUPPORT ZONE STORAGE AREA		Sub #: N/A DOT #: N/A	
Purity	<input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Bag	<input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input checked="" type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	100,000 to 499,999 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	50,000 to 99,999 pounds	<input type="checkbox"/> Self-reactive	<input checked="" type="checkbox"/> Respiratory or skin sensitization
Days on site	365	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Carcinogenicity
Storage temperature	Ambient temperature	<input type="checkbox"/> Self-heating	<input type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	Yes	<input checked="" type="checkbox"/> Corrosive to metal	<input type="checkbox"/> Aspiration hazard
This EPCRA-Only Mixture Contains EPCRA Section 302 Extremely Hazardous Substances	No	<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input type="checkbox"/> No physical hazards per SDS	

Substance Name: DIESEL FUEL OR #2 HEATING OIL		CAS #: 68476-34-6	
Location(s): 750-GAL STEEL TANK, EQUIPMENT REFUELING AREA		Sub #: 2444 DOT #: 1993	
Purity	<input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Above ground tank	<input checked="" type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input checked="" type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	5,000 to 9,999 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	5,000 to 9,999 pounds	<input type="checkbox"/> Self-reactive	<input type="checkbox"/> Respiratory or skin sensitization
Days on site	365	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input checked="" type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input checked="" type="checkbox"/> Carcinogenicity
Storage temperature	Ambient temperature	<input type="checkbox"/> Self-heating	<input type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input checked="" type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	No	<input type="checkbox"/> Corrosive to metal	<input checked="" type="checkbox"/> Aspiration hazard
		<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input type="checkbox"/> No physical hazards per SDS	

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70 CARTERET AVE
JERSEY CITY, NJ 07304

PART 2
2017 CHEMICAL INVENTORY REPORT

Reporting Period: January 1 - December 31, 2017

Substance Name: FERROBLACK (HYBRID)		CAS #: 1317-37-9	
Location(s): 300-GALLON TOTES		Sub #: N/A DOT #: N/A	
Purity	<input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Tote bin	<input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input checked="" type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	50,000 to 99,999 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	25,000 to 49,999 pounds	<input type="checkbox"/> Self-reactive	<input type="checkbox"/> Respiratory or skin sensitization
Days on site	365	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Carcinogenicity
Storage temperature	Greater than ambient temperature	<input type="checkbox"/> Self-heating	<input type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	Yes	<input checked="" type="checkbox"/> Corrosive to metal	<input type="checkbox"/> Aspiration hazard
This EPCRA-Only Mixture Contains EPCRA Section 302 Extremely Hazardous Substances	No	<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input type="checkbox"/> No physical hazards per SDS	

Substance Name: GASOLINE		CAS #: 8006-61-9	
Location(s): 750-GAL AST-REFUEL AREA, FOUR 500-GAL SADDLE		Sub #: 0957 DOT #: 1203	
Purity	<input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Above ground tank	<input checked="" type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input checked="" type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	10,000 to 24,999 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	10,000 to 24,999 pounds	<input type="checkbox"/> Self-reactive	<input type="checkbox"/> Respiratory or skin sensitization
Days on site	365	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input checked="" type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input checked="" type="checkbox"/> Carcinogenicity
Storage temperature	Ambient temperature	<input type="checkbox"/> Self-heating	<input checked="" type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input checked="" type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	No	<input type="checkbox"/> Corrosive to metal	<input checked="" type="checkbox"/> Aspiration hazard
		<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input type="checkbox"/> No physical hazards per SDS	

Facility ID: 00000054365

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PPG INDUSTRIES INC
70 CARTERET AVE
JERSEY CITY, NJ 07304

PART 2
2017 CHEMICAL INVENTORY REPORT

Reporting Period: January 1 - December 31, 2017

Substance Name: PROPYLENE GLYCOL		CAS #: 57-55-6	
Location(s): 55-GAL DRUMS IN SUPPORT ZONE STORAGE AREA		Sub #: N/A DOT #: N/A	
Purity	<input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Steel drum	<input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	25,000 to 49,999 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	25,000 to 49,999 pounds	<input type="checkbox"/> Self-reactive	<input type="checkbox"/> Respiratory or skin sensitization
Days on site	120	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Carcinogenicity
Storage temperature	Ambient temperature	<input type="checkbox"/> Self-heating	<input type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input checked="" type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	Yes	<input type="checkbox"/> Corrosive to metal	<input type="checkbox"/> Aspiration hazard
		<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input checked="" type="checkbox"/> No physical hazards per SDS	

Substance Name: SODIUM BISULFITE		CAS #: 7631-90-5	
Location(s): FIVE 275-GALLON TOTES DURING GWTS RELOCATION		Sub #: 1685 DOT #: 2693	
Purity	<input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Tote bin	<input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input checked="" type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	1,000 to 2,499 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	1,000 to 2,499 pounds	<input type="checkbox"/> Self-reactive	<input checked="" type="checkbox"/> Respiratory or skin sensitization
Days on site	60	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Carcinogenicity
Storage temperature	Greater than ambient temperature	<input type="checkbox"/> Self-heating	<input type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	Yes	<input checked="" type="checkbox"/> Corrosive to metal	<input type="checkbox"/> Aspiration hazard
This EPCRA-Only Mixture Contains EPCRA Section 302 Extremely Hazardous Substances	No	<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input type="checkbox"/> No physical hazards per SDS	

Facility ID: 00000054365

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PPG INDUSTRIES INC
70 CARTERET AVE
JERSEY CITY, NJ 07304

PART 2
2017 CHEMICAL INVENTORY REPORT

Reporting Period: January 1 - December 31, 2017

Substance Name: SODIUM BISULFITE		CAS #: 7631-90-5	
Location(s): GWTS EXTERIOR HEATED 4,000-GALLON POLY TANK		Sub #: 1685 DOT #: 2693	
Purity	<input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Above ground tank	<input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input checked="" type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	25,000 to 49,999 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	25,000 to 49,999 pounds	<input type="checkbox"/> Self-reactive	<input checked="" type="checkbox"/> Respiratory or skin sensitization
Days on site	365	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Carcinogenicity
Storage temperature	Greater than ambient temperature	<input type="checkbox"/> Self-heating	<input type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	Yes	<input checked="" type="checkbox"/> Corrosive to metal	<input type="checkbox"/> Aspiration hazard
This EPCRA-Only Mixture Contains EPCRA Section 302 Extremely Hazardous Substances	No	<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input type="checkbox"/> No physical hazards per SDS	

Substance Name: SODIUM HYDROXIDE		CAS #: 1310-73-2	
Location(s): 50% SOL 2,000-GAL POLY TANK DURING GWTS RELOC		Sub #: 1706 DOT #: 1824	
Purity	<input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Above ground tank	<input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input checked="" type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	10,000 to 24,999 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	10,000 to 24,999 pounds	<input type="checkbox"/> Self-reactive	<input type="checkbox"/> Respiratory or skin sensitization
Days on site	30	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Carcinogenicity
Storage temperature	Greater than ambient temperature	<input type="checkbox"/> Self-heating	<input type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	Yes	<input checked="" type="checkbox"/> Corrosive to metal	<input type="checkbox"/> Aspiration hazard
This EPCRA-Only Mixture Contains EPCRA Section 302 Extremely Hazardous Substances	No	<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input type="checkbox"/> No physical hazards per SDS	

Facility ID: 00000054365

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PPG INDUSTRIES INC
70 CARTERET AVE
JERSEY CITY, NJ 07304

PART 2
2017 CHEMICAL INVENTORY REPORT

Reporting Period: January 1 - December 31, 2017

Substance Name: SODIUM HYDROXIDE		CAS #: 1310-73-2	
Location(s): 50% SOLUTION FOR GWTS IN 2,650-GAL POLY TANK		Sub #: 1706 DOT #: 1824	
Purity	<input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Above ground tank	<input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input checked="" type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	10,000 to 24,999 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	10,000 to 24,999 pounds	<input type="checkbox"/> Self-reactive	<input type="checkbox"/> Respiratory or skin sensitization
Days on site	365	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Carcinogenicity
Storage temperature	Greater than ambient temperature	<input type="checkbox"/> Self-heating	<input type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	Yes	<input checked="" type="checkbox"/> Corrosive to metal	<input type="checkbox"/> Aspiration hazard
This EPCRA-Only Mixture Contains EPCRA Section 302 Extremely Hazardous Substances	No	<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input type="checkbox"/> No physical hazards per SDS	

Substance Name: SULFURIC ACID		CAS #: 7664-93-9	
Location(s): 93% SOLN IN 2K-GAL POLY TANK FOR GWTS RELOCAT		Sub #: 1761 DOT #: 1830	
Purity	<input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Above ground tank	<input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input checked="" type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	25,000 to 49,999 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	25,000 to 49,999 pounds	<input type="checkbox"/> Self-reactive	<input checked="" type="checkbox"/> Respiratory or skin sensitization
Days on site	30	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Carcinogenicity
Storage temperature	Greater than ambient temperature	<input type="checkbox"/> Self-heating	<input type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	No	<input checked="" type="checkbox"/> Corrosive to metal	<input type="checkbox"/> Aspiration hazard
		<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input type="checkbox"/> No physical hazards per SDS	

Facility ID: 00000054365

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PPG INDUSTRIES INC
70 CARTERET AVE
JERSEY CITY, NJ 07304

PART 2
2017 CHEMICAL INVENTORY REPORT

Reporting Period: January 1 - December 31, 2017

Substance Name: SULFURIC ACID		CAS #: 7664-93-9	
Location(s): 93% SOLUTION FOR GWTS IN 2,650-GAL POLY TANK		Sub #: 1761 DOT #: 1830	
Purity	<input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Above ground tank	<input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input checked="" type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	25,000 to 49,999 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	25,000 to 49,999 pounds	<input type="checkbox"/> Self-reactive	<input checked="" type="checkbox"/> Respiratory or skin sensitization
Days on site	365	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Carcinogenicity
Storage temperature	Greater than ambient temperature	<input type="checkbox"/> Self-heating	<input type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	No	<input checked="" type="checkbox"/> Corrosive to metal	<input type="checkbox"/> Aspiration hazard
		<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input type="checkbox"/> No physical hazards per SDS	

Substance Name: VEGETABLE OIL EMULSION		CAS #: 8001-22-7	
Location(s): FIVE 325-GAL TOTES IN GW IRM TREATMENT AREA		Sub #: N/A DOT #: N/A	
Purity	<input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Tote bin	<input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input checked="" type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	10,000 to 24,999 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	10,000 to 24,999 pounds	<input type="checkbox"/> Self-reactive	<input type="checkbox"/> Respiratory or skin sensitization
Days on site	30	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Carcinogenicity
Storage temperature	Ambient temperature	<input type="checkbox"/> Self-heating	<input type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	Yes	<input type="checkbox"/> Corrosive to metal	<input type="checkbox"/> Aspiration hazard
This EPCRA-Only Mixture Contains EPCRA Section 302 Extremely Hazardous Substances	No	<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input checked="" type="checkbox"/> No physical hazards per SDS	

Facility ID: **00000054365**

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PPG INDUSTRIES INC
70 CARTERET AVE
JERSEY CITY, NJ 07304

PART 2
2017 CHEMICAL INVENTORY REPORT

Reporting Period: January 1 - December 31, 2017

Substance Name: ZAPZORB		CAS #: 9003-04-7	
Location(s): SUPER SACS IN SUPPORT ZONE STORAGE AREA		Sub #: N/A DOT #: N/A	
Purity	<input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mixture	Physical Hazards	Health Hazards
Physical state	<input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Explosive	<input type="checkbox"/> Acute toxicity (any route of exposure)
Container type	Bag	<input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids)	<input type="checkbox"/> Skin corrosion or irritation
Max. daily inventory	50,000 to 99,999 pounds	<input type="checkbox"/> Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Serious eye damage or eye irritation
Avg. daily inventory	25,000 to 49,999 pounds	<input type="checkbox"/> Self-reactive	<input type="checkbox"/> Respiratory or skin sensitization
Days on site	365	<input type="checkbox"/> Pyrophoric (liquid or solid)	<input type="checkbox"/> Germ cell mutagenicity
Storage pressure	Ambient pressure	<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Carcinogenicity
Storage temperature	Ambient temperature	<input type="checkbox"/> Self-heating	<input type="checkbox"/> Reproductive toxicity
Trade Secret	No	<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)
EPCRA-Only	Yes	<input type="checkbox"/> Corrosive to metal	<input type="checkbox"/> Aspiration hazard
This EPCRA-Only Mixture Contains EPCRA Section 302 Extremely Hazardous Substances	No	<input type="checkbox"/> Gas under pressure (compressed gas)	<input type="checkbox"/> Simple asphyxiant
		<input type="checkbox"/> In contact with water emits flammable gas	<input type="checkbox"/> Health hazard not otherwise classified
		<input type="checkbox"/> Combustible dust	<input type="checkbox"/> No health hazards per SDS
		<input type="checkbox"/> Physical hazard not otherwise classified	
		<input checked="" type="checkbox"/> No physical hazards per SDS	

PVSC Sewer Use Permit #31630010

KENNETH J. LUCIANIN
Commissioner

THOMAS F. FLANAGAN
Acting Clerk



600 Wilson Avenue
Newark, New Jersey 07105
P (973)344-1800 F (973)344-2951
www.pvsc.com

MICHAEL DeFRANCISCI
Executive Director

GREGORY A. TRAMONTOZZI
General Counsel

Fax: (973) 344-4876
July 18, 2012

CERTIFIED RECEIPT
91 7190 0943 0010 0005 2319

PPG Industries, Inc.
4325 Rosanna Drive
Allison Park, PA 15101
Attn: Brian McGuire, Manager Environmental Projects

RE: REVISIONS TO SEWER USE PERMIT# 31630010

Dear Mr. McGuire:

Enclosed are the revisions to your Sewer Use Permit. Please review and attach these changes to your existing Permit accordingly.

If you have any questions, please contact Laura Marchitto, Operations Coordinator, at (973) 817-5905.

Very truly yours,
PASSAIC VALLEY SEWERAGE COMMISSION

A handwritten signature in black ink, appearing to read "Anthony Gammaro", is written over a horizontal line.

Anthony Gammaro
Supervisor, User Charge & Permit Management

AG/lm

Enclosure

C: Michael DeFrancisci, Executive Director
Laura Marchitto, Operations Coordinator, User Charge & Permit Management
Rich Haytas, Senior Engineer, Jersey City Municipal Utilities Authority

PASSAIC VALLEY SEWERAGE COMMISSION

SEWER USE PERMIT

Permit #

31630010

(Please use the Permit Number on any correspondence with PVSC)

In compliance with the provisions of the Federal Water Pollution Control Act, its amendments, the Clean Water Act and Rules and Regulations of the Passaic Valley Sewerage Commission

PPG INDUSTRIES, INC.

(herein, after referred to as the Permittee)

is authorized to discharge from a facility located at

SITE 114 - 900 GARFIELD AVENUE

JERSEY CITY, NEW JERSEY 07305

to the Passaic Valley Sewerage Commission Treatment Works in accordance with discharge limitations, monitoring requirements and other conditions set forth herein.

EFFECTIVE DATE

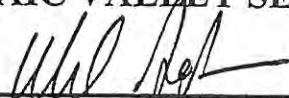
01/01/2012

EXPIRATION DATE

12/31/2016

PASSAIC VALLEY SEWERAGE COMMISSION

BY



Michael DeFrancisci
Executive Director

SECTION A**CONDITION SPECIFIC TO THIS PERMIT****1. Sampling**

- 1.1 Samples and measurements taken as required under this permit shall be representative of the monitored activity. All samples shall be taken at the monitoring points approved by the PVSC and specified in this permit. Unless other wise specified, all samples shall be drawn by a 24-hour composite sampler acceptable to the PVSC which shall be equipped with attachments appropriate for affixing seals. During and after collection, the sample shall be maintained between 1⁰C – 4⁰C.
- 1.2 In addition to the other sample requirements set forth in SECTION A, PART 2 of this permit, the Permittee shall comply with the following:
 - (a) Samples that are taken for heavy metal analysis must be drawn by an automatic 24-hour composite sampler. A grab sample is not acceptable for metals compliance determination.

**PASSAIC VALLEY SEWERAGE COMMISSION
600 WILSON AVENUE
NEWARK, NEW JERSEY 07105**

SIU FACT SHEET

Sewer Use Permit to discharge into Passaic Valley Treatment Plant

The PPG Industries, Inc. has submitted a completed Sewer Use Application for a Sewer Use Permit Revision to discharge into the treatment works.

NAME & ADDRESS OF APPLICANT	NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS
PPG Industries, Inc. 4325 Rosanna Dr. Allison Park, PA 15101	PPG Industries, Inc. Site 114 - 900 Garfield Avenue Jersey City, NJ 07305

Description of Facility Operations: Groundwater discharger

Million Gallons per Day (MGD) Industrial Wastewater: Approx. - .172800 MGD

Number of Outlets: **Industrial** – 1-This outlet is used for compliance
Sanitary - 0

Sample Point Location: Sample point is located at post-treatment sampling port in GWTS area.

Basis for Permit Conditions: Groundwater

Type of Pretreatment Equipment Installed: Physical and Chemical Process including Flocculation, Slug Handling, Particulate Filtration, 1X Resin and Carbon Adsorption and pH Adjustment.

Duration of Sewer Use Permit: 5 Years

Special Conditions or Remarks: Revision. This Company is covered under PVSC Local Limits. Rate of discharge increased from 50 GPM to the peak design flow of 172,800 GPD

2. MONITORING REQUIREMENTS AND DISCHARGE LIMITATIONS

- (a) Beginning (01/01/2012) and lasting through (12/31/2016) the Permittee is authorized to discharge from outlet # (31630010-1). Such discharge shall be monitored as specified below. The table lists the limitations or procedures applicable to this outlet. The volume shall be determined from flowmeter readings. The Sample point is located at post-treatment sampling port in GWTS area. The Permittee shall submit volume in accordance with PVSC User Charge Self-Monitoring Report Form MR-2.

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS	
PARAMETER	MONTHLY AVERAGE	DAILY MAX	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
Volume	XXXXXX	XXXXXX	XXXXXX	XXXXXX	Monthly

2. MONITORING REQUIREMENTS AND DISCHARGE LIMITATIONS

- (b) Beginning (01/01/2012) and lasting through (12/31/2016) the Permittee is authorized to discharge from outlet # (31630010-1). Such discharge shall be monitored as specified below. The table lists the limitations or procedures applicable to this outlet. The volume shall be determined from flowmeter readings. The Sample point is located at post-treatment sampling port in GWTS area. The Permittee shall submit volume and analysis results in accordance with PVSC Pretreatment Discharge Monitoring Form MR-1.

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	MONTHLY AVERAGE	DAILY MAX	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
SGT-HEM (Non-Polar Material)	100 mg/l	150 mg/l	Monthly	Grab*	Monthly
TTO	XXXXXX	XXXXXX	Monthly	Grab**	Monthly
TVOC	XXXXXX	XXXXXX	Monthly	Grab***	Monthly
Chromium	XXXXXX	10.9 lbs/day	Monthly	24 hr. Comp.	Monthly
BOD	XXXXXX	XXXXXX	Monthly	24 hr. Comp	Monthly
Volume	XXXXXX	XXXXXX	XXXXXX	XXXXXX	Monthly

*

**

Sampling procedure must be in accordance with those specified by N.J.D.E.P. Analysis procedure as defined by E.P.A. Method 1664A.
 Sampling procedure must be in accordance with those specified by N.J.D.E.P. Analysis procedure as defined by E.P.A. Method 624.
 Sampling procedure must be in accordance with those specified by N.J.D.E.P. Analysis procedure as defined by E.P.A. Method 625.

2. MONITORING REQUIREMENTS AND DISCHARGE LIMITATIONS

- (b) Beginning (01/01/2012) and lasting through (12/31/2016) the Permittee is authorized to discharge from outlet # (31630010-1). Such discharge shall be monitored as specified below. The table lists the limitations or procedures applicable to this outlet. The volume shall be determined from flowmeter readings. The Sample point is located at post-treatment sampling port in GWTS area. The Permittee shall submit volume and analysis results in accordance with PVSC Pretreatment Discharge Monitoring Report Form MR-1.

PVSC LOCAL LIMITS		DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
PARAMETER	mg/l MONTHLY AVERAGE	mg/l THRESHOLD VALUE	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
Cd	0.19	0.005	Monthly	24 hr. comp.	Monthly
Cu	3.02	0.092	Monthly	24 hr. comp.	Monthly
Pb	0.54	0.029	Monthly	24 hr. comp.	Monthly
Hg	0.080	0.001	Monthly	24 hr. comp.	Monthly
Ni	5.9	0.02	Monthly	24 hr. comp.	Monthly
Zn	1.67	0.10	Monthly	24 hr. comp.	Monthly
Volume	XXXXX	XXXXX	XXXXX	XXXXX	Monthly

3. SCHEDULE OF COMPLIANCE

The Permittee is required to meet the following schedule of compliance:

- A. Analysis of wastewater parameters shall be performed by a laboratory that has been certified by the State of New Jersey. Permittee is required to submit all certified analyses as an attachment to the monthly MR-1 and/or MR-2 report.
- B. The Permittee is required to submit as an attachment to the MR-1 and/or MR-2 report monthly, a water balance showing meter readings used to calculate the reported volume discharged.
- C. Permittee to submit a periodic compliance monitoring report MR-2 form for monthly reporting requirements within twenty-one (21) days after the end date of each preceding month.
- D. Permittee to be in compliance with PVSC Local Limits.
Permittee to submit a periodic compliance monitoring report MR-1 form for monthly reporting requirements within thirty-five (35) days after the end date of each preceding month in accordance with General Pretreatment Regulations 40 CFR 403.12 section (e).
- E. If the Permittee has been authorized by the PVSC to certify for non-use for one or more heavy metals, the Permittee must sample the discharge in March and September of each year in order to prove continued compliance. If any analytical results exceed the Threshold Value, but not the Local Limit, the Permittee shall analyze a sample each succeeding month until three successive monthly results are at or below the Threshold Value stated in the PVSC Rules and Regulations Section B-103.3 Table B-2.
- F. Be certain that you do not surcharge any sewer lines. The rate of discharge must not exceed the peak design flow of 172,800 gal/day as stated in the Treatment Works Approval. Please NOTE that all discharge must cease during rainfall events and must not recommence until dry weather resumes.
- G. Permittee must operate in accordance with its April 5, 2012 approved Slug Control Plan.

PPG INDUSTRIES, INC., JERSEY CITY, NJ - #31630010**SECTION A-3 SCHEDULE OF COMPLIANCE CONTINUED**

- H. All discharge shall cease 5 years from the start of discharge. If additional time is needed, you must request an extension from PVSC 90 days prior to the expiration date of the Agreement and this Sewer Use Permit.
- I. All PVSC Rules & Regulations must be adhered to (www.PVSC.com).
- J. The Final Sewer Use Permit will run concurrent with a said contract executed by both PPG Industries, Inc. and PVSC.
- K. Notify Gerard Patire at (973)446-3085, three (3) working days before you plan to commence the discharge, so that a PVSC Inspector can be present to observe the discharge.
- L. This discharge cannot begin until a written Agreement is entered into.
- M. PVSC reserves the right to require toxicity evaluation and/or to change the conditions of this Permit, including discontinuing the discharge if it deems necessary.
- N. The Permittee shall notify in writing, all agencies as directed by 40 CFR 403.12 (p) of any discharges classified hazardous waste under 40 CFR 261.

CONDITIONS APPLICABLE TO ALL PERMITS

1. GENERAL

- 1.1 The Permittee shall comply with all conditions set forth in this permit and all applicable requirements which are set forth in N.J.S.A. 58:14-1 et seq. and the Rules and Regulations of the PVSC, as well as the Federal Clean Water Act, 33 U.S.C.A. § 1251 et seq. and the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq. Failure to comply with all the terms and conditions of this permit shall constitute a violation of the Rules and Regulations of the PVSC.
- 1.2 All discharges shall be consistent at all times with the terms and conditions of this permit and no regulated pollutant shall be discharged more frequently than authorized or at a level in excess of that which is authorized by this permit.
- 1.3 The Permittee shall not discharge or deposit or cause or allow to be discharged or deposited into the Treatment Works or public sewer, any waste which causes or contains the following
 - (a) **Explosive Wastes** - Wastes in such quantity which may create a fire or explosion hazard to the Treatment Works, collection system or to the operation of the system, including but not limited to, wastewater with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21. Additional quantitative limitations on explosive wastes are specified in Appendix B.
 - (b) **Corrosive Wastes** - Wastes in such quantity which may cause corrosion or deterioration of the Treatment Works. Unless a higher limit is otherwise stated in the Sewer Use Permit issued to a user, all wastes shall have a pH not less than 5. Unless otherwise stated in the Sewer Use Permit, all wastes shall have a pH not more than 10.5. If PVSC requires the installation of a continuous pH recorder, the Permittee may exceed the upper or alkaline pH limit subject to the conditions contained in subsection 317. Prohibited materials include, but are not limited to, acids, sulfides, concentrated chloride or fluoride compounds, etc.

- (c) **Solids or Viscous Wastes** - Solids or viscous wastes in amounts which may cause obstruction to the flow in a sewer, or otherwise interfere with the proper operation of the Treatment Works. Prohibited materials include, but are not limited to, uncomminuted garbage, bones, hides, or fleshings, cinders, sand, stone or marble dust, glass, etc.
- (d) **Floatable Pollutants** - (1) Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through, (2) any wastes containing floatable fats, wax, grease, oils, or any other floatable pollutants, (3) any industrial wastes containing more than 100 mg/l of petroleum based oil or grease.
- (e) **Noxious Materials** - (1) Pollutants which result in the presence of toxic gases, vapors or fumes within the POTW in a quantity that may cause acute worker health and safety problems, (2) noxious liquids, or gases, which in sufficient quantity either singly or by interaction with other wastes, are capable of creating a public nuisance or hazard to life, or are or may be sufficient to prevent entry into a sewer for its maintenance and repair.
- (f) **Radioactive Wastes** - Radioactive wastes or isotopes of such half life or concentration that they do not comply with regulations or orders issued by the appropriate authority having control over their use and which will, or may, cause damage or hazards to the Treatment Works or personnel operating the system.
- (g) **Interference/Pass through** - Any waste, including discharges of oxygen demanding wastes (BOD, etc.) released or discharged at a flow rate and/or pollutant concentration which causes or threatens to cause an upset at the PVSC Treatment Works, or which causes or threatens to cause a violation of the PVSC's NJPDES Permit conditions.
- (h) **Excessive Discharge Rate** - Industrial wastes discharged in a slug or such volume or strength so as to cause a treatment process upset and subsequent loss of treatment efficiency.
- (i) **Heat** - (1) Any discharge in excess of 150°F (65°C). (2) Heat in amounts which would inhibit biological activity in the PVSC Treatment Works resulting in a treatment process upset and subsequent loss of treatment efficiency.

- (j) **Unpolluted Waters** - Any unpolluted water including, but not limited to, cooling water and uncontaminated storm water, which will increase the hydraulic load on the Treatment System, unless specifically authorized by PVSC in accordance with Sections 301, 303, 602.5 of these Rules and Regulations.
- (k) **Dilution** - Increase in the use of process water, or an attempt in any other way, to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with a pretreatment standard or effluent limit.
- (l) **Violations** - Wastes, which cause the PVSC treatment plant to violate its NJPDES Permit, applicable, receiving water standards, permit regulating sludge which is produced during treatment or any other Permit issued to PVSC.
- (m) **Ultra Hazardous Toxics** - Those wastes designated by EPA as sufficiently toxic that they shall not be discharged to the sanitary sewer in any concentrations.
- (n) **Trucked Pollutants** - Any trucked or hauled pollutants, accepted at discharge points designated by the Chief Executive Officer, and only after approval is issued by PVSC.
- (o) **Ground Water** - Any ground water, whether contaminated or uncontaminated, unless specifically authorized by PVSC in accordance with Sections 301, 303, and 602.5 of these Rules and Regulations.
- (p) **Stormwater** - Any stormwater, whether contaminated or uncontaminated, unless specifically authorized by PVSC in accordance with Sections 301, 303 and 602.5 of these Rules and Regulations.
- (q) **Bypassed Wastes** - Any wastewaters which would normally be monitored or pretreated, but are discharged to the sanitary sewer without being monitored or pretreated, unless specifically authorized by PVSC.
- (r) **Excess Heel Material** - Any quantity of trucked or hauled material meeting the definition as contained herein, unless authorized by PVSC.

- 1.4 The Permittee shall not discharge or convey or permit to be discharged or conveyed to the PVSC Treatment Works any wastes containing pollutants of such character or quantity that.
 - (a) Impairs the PVSC's ability to protect the health and safety of the treatment plant workers.
 - (b) Will not be susceptible to treatment or will interfere with the process or efficiency of the Treatment Works.
 - (c) Violate any federal categorical pretreatment standard. As pretreatment standards for toxic or other hazardous pollutants are promulgated by USEPA for a given industrial category, all industrial users within that category shall conform to the USEPA timetable as well as any numeric limitations imposed by the USEPA.
 - (d) Violate a local limit imposed or adopted by the PVSC.
 - (e) Violate a Best Professional Judgment limit imposed or adopted by the PVSC.
 - (f) Cause the PVSC treatment plant to violate its NJPDES Permit, applicable receiving water standards, regulations and/or any permits governing sludge which is produced during treatment process, or any other permit issued to the PVSC.
- 1.5 The Permittee shall at all times maintain in good working order and operate all pretreatment control and monitoring equipment in strict accordance with all design specifications and manufacturer recommendations. Proper operation and maintenance includes, at a minimum, effective performance based upon specifications designed to meet applicable effluent limits, adequate funding, adequate operator staffing and training and adequate laboratory and process controls.

- 1.6. The Permittee shall dispose of all solids, sludges, filter backwash or other pollutants or hazardous waste removed in the course of pretreatment or control of wastewaters and/or the treatment of the intake waters, in accordance with applicable Federal, State and local laws and regulations. Records documenting such disposal shall be made available to the PVSC for review upon request.

2. **INDUSTRIAL WASTE REPORTING**

- 2.1 **USER CHARGE:** User Charge monitoring results obtained during the previous month shall be reported monthly on a Discharge Monitoring Report Form (MR-2). The due date for properly signed reports shall be 21 days after the reporting period ends. If the 21st day falls on a Saturday, Sunday or PVSC Holiday, then the report shall be due on the next PVSC work day. If the Permittee fails to submit the MR-2 Report on a timely basis the Executive Director shall estimate the usage for the period. The estimate may be made thirty (30) days after the due date of the report.
- 2.2 **PRETREATMENT:** Pretreatment monitoring results obtained during the previous month shall be reported monthly on a Discharge Monitoring Report Form (MR-1). The due date for properly signed reports, shall be 35 days after the reporting period ends. If the 35th day falls on a Saturday, Sunday or PVSC Holiday, then the report shall be due on the next PVSC work day.
- 2.3 **DUE DATE:** MR-1 and MR-2 Reports must be physically delivered to the PVSC Administration office or Security office by Midnight of the date by which they are due. The use of certified mail or other means to document or guarantee delivery may be used if deemed necessary. Postmarks are not valid to demonstrate compliance with the due date requirement.

- 2.4 **MAILING ADDRESS:** Reports required herein must be addressed to:

**PASSAIC VALLEY SEWERAGE COMMISSION
ATTN: INDUSTRIAL DEPARTMENT
600 WILSON AVENUE
NEWARK, NEW JERSEY 07105**

- 2.5 **FACSIMILE:** The Permittee may meet the requirement for submission by sending the report(s) via facsimile provided the report is received at the PVSC Administration Office between the hours of 8:30 a.m. and 4:00 p.m. on any date up to and including the due date. In addition the due date for a hard copy of the same report shall be four (4) days after the transmission of the facsimile. Failure to deliver the hard copy by the due date specified shall result in the report being considered as not having been received and shall constitute a violation of the permit.
- 2.6 **ANALYTICAL PROCEDURES:** Analytical results for BOD, TSS or any other parameter as required by this permit shall be reported on the date that the sample was removed from the sampling device for analysis. The following procedure shall be used when reporting analytical results:
- (a) the pollutant limit will define the precision, or number of digits to the right or left of the decimal point, to be reported.
 - (b) Calculated results shall be rounded off to the same precision as defined for that pollutant in the limit.
 - (c) Zeros in the pollutant limit are included in order to determine the precision.
 - (d) The following procedure shall be followed when rounding off results:
 - (i) round off by dropping digits that are irrelevant. If the digit 6,7,8 or 9 is to be dropped, increase the preceding digit by one unit.
 - (ii) If the digit 0,1,2,3 or 4 is to be dropped, do not alter the preceding digit.
 - (iii) If the digit 5 is to be dropped, round off the preceding digit to the nearest even number (2.25 becomes 2.2 while 2.35 becomes 2.4).

2.7 **RECORDING OF RESULTS:** For each measurement of a sample taken pursuant to the requirements of this permit, the Permittee shall maintain a record of the following information:

- (a) The date, exact places and time of sampling;
- (b) The dates the analysis were performed;
- (c) The person(s) who performed the analysis;
- (d) The analytical techniques or methods used; and
- (e) The results of all required analyses.

2.8 **RECORDS RETENTION:** The Permittee shall maintain such records as necessary to demonstrate compliance with the requirements of this permit, the PVSC Rules and Regulations and any applicable State or Federal Pretreatment standard or requirement. All records and information resulting from the monitoring activities required by this permit including, all records of analysis performed, calibration and maintenance of instrumentation and recording from continuous monitoring instrumentation, shall be retained for a minimum of five years.

3. **INDUSTRIAL WASTE MONITORING**

- 3.1 **MONITORING EQUIPMENT:** The Permittee shall install, at his own cost and expense, whatever monitoring equipment is required by the conditions of this permit to facilitate the accurate observation, sampling and measurement of the discharge. Such equipment shall be kept safe, secured from unauthorized entry or tampering and accessible at all times. Monitoring equipment shall be calibrated as recommended by the manufacturer, except that LEL recorder shall be calibrated daily and pH recorders shall be calibrated at least weekly, whichever is more frequent.
- 3.2 Permittee shall safeguard any PVSC monitoring equipment that is installed at their facility. Permittee shall reimburse PVSC for any equipment that is either damaged or stolen from its point of installation. Reimbursement costs will be determined by PVSC.

- 3.3 The volume of each sample shall be proportional to the discharge flow rates unless specifically modified by PVSC. For a 24 hour continuous discharge, a minimum of 24 individual samples shall be collected at equal intervals and at least once per hour. For a continuous discharge of less than 12 hours, individual samples shall be taken at least once every 30 minutes. For discharges which are not continuous, individual samples shall be taken such that they will be representative of the plant waste water discharge.
- 3.4 Permittee shall notify the PVSC as soon as possible, but in no case later than 2 hours from becoming aware of the same, if a sampling, monitoring, recording or other device required in accordance with this permit becomes inoperable. Unless otherwise directed by the PVSC, the Permittee shall submit a written report to the PVSC, attention Industrial and Pollution Control Department, within 5 working days of the occurrence detailing what occurred, why it happened, what will be done to correct the problem and a date when the problem will be corrected. If the PVSC approves the corrective action and it is expected to take more than two months from the date of occurrence to complete, the Permittee shall submit monthly progress reports until such time as the problem is corrected.
- 3.5 **NOTIFICATION OF NON-COMPLIANCE:** If, for any reason, the Permittee does not comply with or will be unable to comply with any effluent limitation specified in this permit, or discharges any waste and meets the Slug Discharge Definition as defined in Appendix A of the PVSC Rules and Regulations, the Permittee shall notify the PVSC within 24 hours of such occurrence.
- 3.6 If this report is made orally, a written report containing the following information, shall be submitted within five (5) working days:
- (a) A description of the discharge and the cause of the period of noncompliance;
 - (b) The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and
 - (c) The steps being taken to reduce, eliminate and prevent a recurrence of the non-complying discharge.

- 3.7 The Permittee shall take all reasonable steps to minimize any adverse impact to the PVSC Treatment Works resulting from noncompliance with any pretreatment limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge. This condition in no way affects PVSC's right to suspend a permit in order to stop a discharge which presents an imminent or substantial hazard to the public health, safety or welfare to the local environment or which interferes with the operation of the PVSC Treatment Works.
- 3.8 **TEST PROCEDURES:** Samples and measurements taken as required in this permit shall be representative of the volume and nature of the monitored discharge.
- 3.9 The Permittee shall perform all analyses in accordance with the test procedures identified under 40 C.F.R. Part 136. All test procedures, other than those identified in 40 C.F.R. Part 136, shall be considered as alternative test procedures. The Permittee is authorized to utilize an alternative test procedure only if prior written approval is received from the Chief Executive Officer in accordance with Section 319.2 of the Rules and Regulations of the PVSC.
- 3.10 Sample analyses of pollutants required by this permit shall be performed by a laboratory with a New Jersey certification for each pollutant analyzed.
- 3.11 If the Permittee monitors any pollutant at the location(s) designated more frequently than required by this permit using the approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the applicable Discharge Monitoring Report Form (PVSC Form MR-1 or MR-2). Such increased frequency shall also be indicated.

4. MANAGEMENT RESPONSIBILITIES

4.1 **RIGHT OF ENTRY:** The Permittee shall allow the authorized representatives of the PVSC, upon presentation of credentials to:

- (a) Have immediate access to all the facilities directly or indirectly connected to the PVSC Treatment Works during normal working hours and at such other times as may be necessary during emergencies as determined by PVSC. No person shall interfere with, delay, or refuse entrance to a PVSC Inspector attempting to inspect the facility.
- (b) Inspect the monitoring equipment and monitoring methods required in this permit or to sample any discharge of wastewater, copy any records required to be kept by this permit or PVSC Rules and Regulations and inspect and/or sample RCRA or other type waste or substances.

4.2 **TRANSFER OF OWNERSHIP OR CONTROL:** This Permit is not transferable. This permit shall not be reassigned, transferred or sold to a new owner, new industrial user, or a new or changed operation. The Permittee shall notify the Chief Executive Officer in writing within (14) days of any sale or transfer of the industrial operations/facility covered by this Permit, or of any sale or transfer affecting the identity of those holding a controlling interest in the Permittee. The Permittee shall also provide written notice to the succeeding owner or controller of the existence of this Sewer Use Permit and the need to apply for a new permit. For purposes of this provision, the term "controlling interest" shall mean an interest held by a person or entity, or group of persons or entities, who possess, directly or indirectly, the power to direct or cause the direction of the management and policies of the Permittee.

4.3 **CHANGE IN DISCHARGE:** Any change in the discharge, any anticipated facility expansion, production increases, or modification which will result in new, different, or increased discharges of pollutants regulated by PVSC must be reported by submission of a new Passaic Valley Sewerage Commission Sewer Use Application. If such changes will not violate the effluent limitations specified in this permit, then notice only to PVSC of such changes is required. Following such notice the permit may be modified to specify and limit any pollutants not previously limited.

5. OTHER CONDITIONS

- 5.1 **PERMIT MODIFICATION:** After notice and opportunity for a hearing, this permit may be modified, or revoked in whole or in part during its term for cause including, but not limited to the following:
- (a) Violating any terms or condition of this permit;
 - (b) Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - (c) A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- 5.2 **TOXIC POLLUTANTS:** Notwithstanding Section A Part 2 of this permit, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition), is established under Section 307(b) of the Federal Water Pollution Control Act, its amendments, or any other subsequent law or regulation for a toxic pollutant which is present in the discharge, and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the Permittee so notified.

- 5.3 **CIVIL AND CRIMINAL LIABILITY:** A violation of the PVSC Rules and Regulations or a violation of any term or condition contained in this Sewer Use Permit may subject the Permittee to enforcement and civil penalties of up to \$50,000 per day for each violation, and each day's continuance of the violation shall constitute a separate violation. Enforcement may include the institution of a civil action for injunctive relief and/or to recover civil penalties and/or referral to the appropriate agency for criminal enforcement.
- 5.4 **STATE LAWS:** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State Law or regulation under authority preserved by Section 510, (33 U.S.C.A. § 1370) of the Federal Water Pollution Control Act as amended.
- 5.5 **PROPERTY RIGHTS:** The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or Regulations.
- 5.6 **SEVERABILITY:** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

5.7 **DEFINITIONS:** The following definitions apply to this permit:

- (a) "Composite" - a combination of individual samples obtained at regular intervals over the entire discharge day.
- (b) "Daily" - each operating day.
- (c) "Daily Maximum Discharge" - the highest discharge by weight or other appropriate units, as specified herein, during any calendar day.
- (d) "Grab" - an individual sample collected in less than 15 minutes.
- (e) "Immediate Access" - access without delay but in no event beyond 10 minutes from the time the request is made known to the guard or employee.
- (f) "Monthly" - one day each month during a normal operating day.
- (g) "Monthly Average Value" - the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during the month. Results may be expressed in mass loadings per day or concentration. The monthly average value does not apply to those parameters that are continuously monitored.
- (h) "N/A" - not applicable.
- (i) "Quarterly" - every three (3) months.
- (j) "Weekly" - one day each week during a normal operating day.

PVSC Sewer Use Permit #31630010 (Renewed)

PASSAIC VALLEY SEWERAGE COMMISSION**SEWER USE PERMIT****Permit #**

31630010

(Please use the Permit Number on any correspondence with PVSC)

In compliance with the provisions of the Federal Water Pollution Control Act, its amendments, the Clean Water Act and Rules and Regulations of the Passaic Valley Sewerage Commission

PPG

(herein, after referred to as the Permittee)

is authorized to discharge from a facility located at

900 GARFIELD AVENUE – SITE 114

JERSEY CITY, NEW JERSEY 07305

to the Passaic Valley Sewerage Commission Treatment Works in accordance with discharge limitations, monitoring requirements and other conditions set forth herein.

EFFECTIVE DATE

01/01/2017

EXPIRATION DATE

12/31/2021

PASSAIC VALLEY SEWERAGE COMMISSION

BY



Gregory A. Tramontozzi
Executive Director

SECTION A

CONDITION SPECIFIC TO THIS PERMIT

1. Sampling

- 1.1 Samples and measurements taken as required under this permit shall be representative of the monitored activity. All samples shall be taken at the monitoring points approved by the PVSC and specified in this permit. Unless other wise specified, all samples shall be drawn by a 24-hour composite sampler acceptable to the PVSC which shall be equipped with attachments appropriate for affixing seals. During and after collection, the sample shall be maintained between 1⁰C – 4⁰C.
- 1.2 In addition to the other sample requirements set forth in SECTION A, PART 2 of this permit, the Permittee shall comply with the following:
 - (a) Samples that are taken for heavy metal analysis must be drawn by an automatic 24-hour composite sampler. A grab sample is not acceptable for metals compliance determination.

**PASSAIC VALLEY SEWERAGE COMMISSION
600 WILSON AVENUE
NEWARK, NEW JERSEY 07105**

SIU FACT SHEET

Sewer Use Permit to discharge into Passaic Valley Treatment Plant

PPG, has submitted a completed Sewer Use Application for a Sewer Use Permit Renewal to discharge into the treatment works.

NAME & ADDRESS OF APPLICANT	NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS
PPG 440 College Park Drive Monroeville, PA 15146	PPG 900 Garfield Avenue – Site 114 Jersey City, NJ 07305

Description of Facility Operations: Groundwater discharger

Million Gallons per Day (MGD) Industrial Wastewater: Approx. – 95,000 GPD

Number of Outlets: Industrial – 1-This outlet is used for compliance

Sample Point Location: Sample point is located at post-treatment sampling port in GWTS area.

Basis for Permit Conditions: Groundwater

Type of Pretreatment Equipment Installed: Physical and Chemical Process including Flocculation, Sludge Handling, Particulate Filtration, 1X Resin and Carbon Adsorption and pH Adjustment.

Duration of Sewer Use Permit: 5 Years

Special Conditions or Remarks: Renewal, This Company is covered under PVSC Local Limits.

2. MONITORING REQUIREMENTS AND DISCHARGE LIMITATIONS

(a) Beginning (01/01/2017) and lasting through (12/31/2021) the Permittee is authorized to discharge from outlet # (31630010-1). Such discharge shall be monitored as specified below. The table lists the limitations or procedures applicable to this outlet. The volume shall be determined from flowmeter readings. The Sample point is located at post-treatment sampling port in GWTS area. The Permittee shall submit volume in accordance with PVSC User Charge Self-Monitoring Report Form MR-2.

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	DAILY MAX	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
Volume	XXXXXX	XXXXXX	XXXXXX	XXXXXX	Monthly

2. MONITORING REQUIREMENTS AND DISCHARGE LIMITATIONS

- (b) Beginning (01/01/2017) and lasting through (12/31/2021) the Permittee is authorized to discharge from outlet # (31630010-1). Such discharge shall be monitored as specified below. The table lists the limitations or procedures applicable to this outlet. The volume shall be determined from flowmeter readings. The Sample point is located at post-treatment sampling port in GWTS area. The Permittee shall submit volume and analysis results in accordance with PVSC Pretreatment Discharge Monitoring Form MR-1.

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	MONTHLY AVERAGE	DAILY MAX	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
SGT-HEM (Non-Polar Material)	100 mg/l	150 mg/l	Monthly	Grab*	Monthly
TTO	XXXXXX	XXXXXX	Monthly	Grab**	Monthly
TVOC	XXXXXX	XXXXXX	Monthly	Grab***	Monthly
Chromium	XXXXXX	10.9 lbs/day	Monthly	24 hr. Comp.	Monthly
BOD	XXXXXX	XXXXXX	Monthly	24 hr. Comp	Monthly
Volume	XXXXXX	XXXXXX	XXXXXX	XXXXXX	Monthly

* Sampling procedure must be in accordance with those specified by N.J.D.E.P. Analysis procedure as defined by E.P.A. Method 1664A.
 ** Sampling procedure must be in accordance with those specified by N.J.D.E.P. Analysis procedure as defined by E.P.A. Method 624.
 *** Sampling procedure must be in accordance with those specified by N.J.D.E.P. Analysis procedure as defined by E.P.A. Method 625.

2. MONITORING REQUIREMENTS AND DISCHARGE LIMITATIONS

- (b) Beginning (01/01/2017) and lasting through (12/31/2021) the Permittee is authorized to discharge from outlet # (31630010-1). Such discharge shall be monitored as specified below. The table lists the limitations or procedures applicable to this outlet. The volume shall be determined from flowmeter readings The Sample point is located at post-treatment sampling port in GWTS area. The Permittee shall submit volume and analysis results in accordance with PVSC Pretreatment Discharge Monitoring Report Form MR-1.

PVSC LOCAL LIMITS		DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
PARAMETER	mg/l MONTHLY AVERAGE	mg/l THRESHOLD VALUE	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD	
Cu	3.6	0.18	Monthly	24 hr. comp.	Monthly	
Pb	1.0	0.05	Monthly	24 hr. comp.	Monthly	
Hg	0.080	0.004	Monthly	24 hr. comp.	Monthly	
Ni	3.9	0.2	Monthly	24 hr. comp.	Monthly	
Zn	4.2	0.21	Monthly	24 hr. comp.	Monthly	
Volume	XXXXXX	XXXXXX	XXXXXX	XXXXXX	Monthly	

3. SCHEDULE OF COMPLIANCE

The Permittee is required to meet the following schedule of compliance:

- A. Analysis of wastewater parameters shall be performed by a laboratory that has been certified by the State of New Jersey. Permittee is required to submit all certified analyses as an attachment to the monthly MR-1 and/or MR-2 report.
- B. The Permittee is required to submit as an attachment to the MR-1 and/or MR-2 report monthly, a water balance showing meter readings used to calculate the reported volume discharged.
- C. Permittee to submit a periodic compliance monitoring report MR-2 form for monthly reporting requirements within twenty-one (21) days after the end date of each preceding month.
- D. Permittee to be in compliance with PVSC Local Limits.
Permittee to submit a periodic compliance monitoring report MR-1 form for monthly reporting requirements within thirty-five (35) days after the end date of each preceding month in accordance with General Pretreatment Regulations 40 CFR 403.12 section (e).
- E. If the Permittee has been authorized by the PVSC to certify for non-use for one or more heavy metals, the Permittee must sample the discharge in March and September of each year in order to prove continued compliance. If any analytical results exceed the Threshold Value, but not the Local Limit, the Permittee shall analyze a sample each succeeding month until three successive monthly results are at or below the Threshold Value stated in the PVSC Rules and Regulations Section B-103.3 Table B-2.
- F. Be certain that you do not surcharge any sewer lines. The rate of discharge must not exceed 244,800 gpd (170 gpm) per Jersey City Municipal Utilities Authority's approval letter dated July 1, 2014. Please NOTE that all discharge must cease during rainfall events and must not recommence until dry weather resumes.
- G. Permittee must operate in accordance with its April 5, 2012 approved Slug Control Plan.

PPG, JERSEY CITY, NJ - #31630010

SECTION A-3 SCHEDULE OF COMPLIANCE CONTINUED

- H. All discharge shall cease 5 years from the start of discharge. If additional time is needed, you must request an extension from PVSC 60 days prior to the expiration date of the Agreement and this Sewer Use Permit.
- I. All PVSC Rules & Regulations must be adhered to (www.PVSC.com).
- J. The Final Sewer Use Permit will run concurrent with a said contract executed by both PPG and PVSC.
- K. This discharge cannot begin until a written Agreement is entered into.
- L. PPG is modifying its pretreatment system to maximize its permitted flow. PPG Site 114 may accept like wastewaters via tankers from the following list of other PPG remediation sites only: Site 016, 063, 065, 107, 108, 132, 133, 135, 137, 143, 146, and 174. If PPG seeks to treat groundwater from its other remediation areas, PPG must notify PVSC in writing and receive approval prior to discharge.
- M. PVSC reserves the right to require toxicity evaluation and/or to change the conditions of this Permit, including discontinuing the discharge if it deems necessary.
- N. The Permittee shall notify in writing, all agencies as directed by 40 CFR 403.12 (p) of any discharges classified hazardous waste under 40 CFR 261.