Remedial Action Report – Phase 3B South and Portions of Site 133 East and Halladay Street South (AOC P3B-1A, AOC 133E-1B, AOC HSS-1B, and AOC 137-1B) – Soil, Final Garfield Avenue Group PPG, Jersey City, New Jersey

Appendix C

Well Decommissioning Records



PHILIP D. MURPHY Governor

SHEILA Y. OLIVER
Lt. Governor

STATE OF NEW JERSEY

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER SUPPLY & GEOSCIENCE
NEW JERSEY GEOLOGICAL AND WATER SURVEY ELEMENT
BUREAU OF WATER ALLOCATION & WELL PERMITTING
401 E. STATE ST - P.O. BOX 420

MAIL CODE 401-04Q
TRENTON, NEW JERSEY 08625-0420
TEL. # 609-984-6831
FAX # 609-633-1231
EMAIL: wellpermitting@dep.nj.gov

SHAWN M. LATOURETTE Commissioner

June 28, 2023

AECOM Attn: Laura Kinsey

1255 Broad St., Clifton, NJ 07013

Re: Lost/Destroyed Wells

Request for Alternate Well Decommissioning Reports -

Phase 3B South, Garfield Avenue Group Sites

800 Garfield Ave

Municipality: Jersey City, County: Hudson

Block: 21510, Lot: 39 PI Number: G000008749

Well Permit Number(s): E201710694-95, E201712014, E201410050-51, E201712013,

2600082877, E201317206

Dear Ms. Kinsey,

On April 25, 2023, The Bureau of Water Allocation and Well Permitting (Bureau) received your request to have the referenced well(s) listed as destroyed and to have alternative well decommissioning reports filed in lieu of properly decommissioning the well(s). Based on the information AECOM provided, the Well Permitting Section concurs that the well(s) has been destroyed and can no longer be properly decommissioned in accordance with the Well Construction and Maintenance; Sealing of Abandoned Wells Rule, N.J.A.C. 7:9D Subchapter 3. No further action is required for the referenced well(s).

If you have any questions, please contact Jeremy Wick by phone at (609) 984-6831 or via the Well Permitting Section email address, <u>wellpermitting@dep.nj.gov</u>.

Regards,

Terry Pilawski

Supervisor, Well Permitting Section

Bureau of Water Allocation and Well Permitting

January 2020 BWAWP

Memorandum

То	New Jersey Department of Environmental Protection, Bureau of Water Allocation & Well Permitting
CC	Ian Curtis, NJDEP
	Jody Overmyer, PPG
	Rich Feinberg, PPG
	Joseph Lagrotteria, K&L Gates
	Dorothy Laguzza, K&L Gates
	Sandy Paulsen, AECOM
	Shannon Gleason, AECOM
Subject	Request for Alternate Well Decommissioning Reports - Phase 3B South, Garfield Avenue Group Sites
From	Aimee Ruiter, Project Manager
	Laura Kinsey, Project Geologist
Date	April 24, 2023

On behalf of PPG, AECOM is requesting alternate well decommissioning reports for eight wells located at Phase 3B South (including the Former Ten West Property, the Former Fishbein Property, and Site 133 West) of the Garfield Avenue (GA) Group Sites in Jersey City, New Jersey. This letter provides the well information, the circumstances leading to the loss of or damage to the wells, and a description of the actions taken to locate the wells in accordance with the New Jersey Department of Environmental Protection (NJDEP) Bureau of Water Allocation & Well Permitting (BWAWP) Guidance for Damaged, Destroyed, or Lost Wells, dated June 2017.

Remediation of Chromate Chemical Production Waste (CCPW)-impacted soil was conducted in Phase 3B South from April 2021 through November 2022, including remedial excavation, placement of clean backfill, and surface restoration. Approximately 33,000 tons of hazardous and non-hazardous material were excavated and disposed of off-site.

During remedial excavation and backfilling activities, the eight wells were not observed during excavation confirming that they were removed or damaged beyond repair. Therefore, they cannot be decommissioned in accordance with the *Well Construction & Maintenance; Sealing of Abandoned Wells, N.J.A.C. 7:9D.* **Table 1** provides the well information for each removed or damaged well. **Figure 1** shows the location of each well and the associated well construction records are included in **Attachment 1**.

Table 1 - Well Information

Well ID	Location	Address	Well Permit #	Depth of Well (ft bgs)	Approximate Bottom of Well Elevation (ft NAVD88)	Top of Casing Elevation (ft NAVD88)	Approximate Restoration Surface Elevation from CAD Restoration Surface (ft NAVD88)
10W- MW101S	Ten West	800 Garfield Avenue	E201710694	17	-1.5	15.5	16.6
10W- MW102S	Ten West	800 Garfield Avenue	E201710695	17	-1.5	15.5	16.5
10W- MW105I	Ten West	800 Garfield Avenue	E201712014	40	-28.8	11.2	11.1
132-P3A- MW3	Fishbein	816 Garfield Avenue	E201410050	18	-4.1	13.9	14.7
132-P3A- MW4	Fishbein	816 Garfield Avenue	E201410051	20	-4.5	13.5	14.2
132-P3A- MW105I	Ten West	800 Garfield Avenue	E201712013	42	-27.6	14.4	14.4
133-MW1C	Site 133 West	15 Halladay Street	26-00082-877	77	-65.1	11.9	11.7
133-MW3A	Site 133 West	15 Halladay Street	E201317206	15	-1.9	13.1	12.6

Notes:

The wells are located in Hudson County, Jersey City, New Jersey.

The responsible party associated with the listed wells is PPG, One PPG Place, Pittsburgh, PA,15219, 412-434-2708.

bgs - below ground surface

CAD - computer-aided design

ft - feet

NAVD88 - North American Vertical Datum of 1988

AECOM inspected excavation bottoms and did not observe wells during field activities from April 2021 through November 2022. Following the bottom-of-excavation inspections, the locations of the wells would have been buried and potentially filled with dense-graded aggregate (DGA) during backfilling activities. Photos taken during excavation activities document that these wells were removed or damaged during remedial excavation. A photolog from the field effort documenting post-excavation conditions is included in **Attachment 2**. Observations related to the well locations, based on the review of photos taken during excavation, include the following:

- Monitoring well 10W-MW101S: No evidence of the well was observed in the post-excavation photos (see Photos 1 and 2).
- Monitoring well 10W-MW102S: No evidence of the well was observed in the post-excavation photos (see Photos 3 and 4).
- Monitoring well 10W-MW105I: No evidence of the well was observed in the post-excavation photos (see Photos 5 and 6).
- Monitoring well 132-P3A-MW3: The polyvinyl chloride (PVC) casing was observed in the post-excavation
 photos indicating that the well was in-place but was damaged beyond repair (see Photos 7 and 8). The
 L:\Legacy\USPSW2PFPSW001\Data_USPSW2VFP001\Environment\Piscataway\Project\PPG-NJCProgram\6-Project\nput\6.1FieldData\6.1A-ProgramFieldData\Well Information\2023 Alt Well Decommission-P3BS\2023-04-24 P3BS Alt Well Decom Memo_F.docx

3

well was further damaged during backfilling activities; it is not visible in the post-restoration photos (see Photos 9 and 10).

- Monitoring well 132-P3A-MW4: No evidence of the well was observed in the post-excavation photos; the
 well was completely removed during excavation based on elevations (see Photos 11 and 12 and Table
 1).
- Monitoring well 132-P3A-MW105I: No evidence of the well is observed in the post-excavation photos (see Photos 13 and 14).
- Monitoring well 133-MW1C: No evidence of the well was observed in the post-excavation photos (see Photos 15 and 16).
- Monitoring well 133-MW3A: No evidence of the well was observed in the post-excavation photos; the well
 was completely removed during excavation based on elevations (see Photos 17 and 18 and Table 1).

Based on the information included in this memorandum, AECOM, on behalf of PPG, is requesting alternate well decommissioning reports for the eight wells described herein located at the GA Group Sites in Jersey City, New Jersey.

Please contact us if additional information is required.

Aimee Ruiter
Project Manager
aimee.ruiter@aecom.com
978-580-7616

Laura Kinsey Project Geologist <u>laura.kinsey@aecom.com</u> 201-572-7139

Attachments:

Figure 1 Site Plan

Attachment 1 Well Construction Records

Attachment 2 Photolog

ATTACHMENT 1

Well Construction Records

Well Permit Number **E201710694**

			MONIT	ORING WEI	LL RECORD		
PROPERTY	OWNER: _	MID- NEWA	RK				
Company/Org	ganization: <u>M</u>	lid-Newark L.F	P. c/o Ten West	Apparel			
Address: 10	West 33rd St	, Suite 216 Nev	v York, New Yo	ork 10001			
WELL LOC	ATION: Te	n West					
	·		1S confimed by	client / 6136			
			-		Lot: 39	Block: 21.	510
			(Y): 682588			ARTED: January 17,	
			NAD83) - USFI	EET DA		PLETED: January 18,	
WELL USE:	MONITOR	ING	<u></u>		TE WELL COM	<u> </u>	2010
					Local ID: 10V	V-MW101S	
	STRUCTION						
		17	Finished We	ell Denth (ft):	17 V	Well Surface: Flusl	n Mount
Total Beptil		Depth to	Diameter		Material		/Screen # Used
	Depth to Top (ft.)	Bottom (ft.)	(inches)		wiateriai		/ch no.)
Borehole	0	17	6				
Casing	0	12	2		PVC	S	ch 40
Screen	12	17	2		PVC		.010
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	11	6	2		150	9
Gravel Pack	11	17	6	2		# 1 sand	
Grouting Met	hod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: Holle	ow Stem Augers	
	AL INFORMA	ATION		_	~ .		
Protective Car		below land sur	food		np Capacity: _ gpm		
	Measure Tool:		race		al Design Head: _ ft. lling Fluid:		
	ment Period:				ll Rig: Geoprobe 782	22	
Method of De	velopment: <u>pr</u>				olth and Safety Plan		
Pump Type:							
ATTACHMI							
GEOLOGIC							
0 - 6: black OT - Other fill							
6 - 16: brown GM - Silty gravels, gravel-sand-silt mixtures 16 - 17: black PT - Peat, muck, and other highly organic soils							
ADDITIONAL INFORMATION:							
ADDITIONA	AL INFORMA	ATION:					

Keith Butcher,

Driller of Record: JOURNEYMAN LICENSE # 203616 Company: SGS NORTH AMERICA INC.

Well Permit Number **E201710694**

WELL PERMIT

New Well

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 which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: NICHOLAS A FALLUCCA, MA	STER LICENSE # 749523						
Permit Issued to: SGS NORTH AMERICA INC.							
Company Address: PO BOX 423 WEST CREEK, NJ 08092							
PROPERTY OWNER							
Name: T. GADAY							
Organization: Mid-Newark L.P. c/o Ten West Apparel							
Address: 10 West 33rd St, Suite 216							
City: New York State: New Y	York	Zip Code: 10	0001				
PROPOSED WELL LOCATION							
Facility Name: Ten West							
Address: 800 Garfield Ave /10W-MW101S confimed by cli	ent / 6136						
County: Hudson Municipality: Jersey City	Lot: 39		Block: 21510				
Easting (X): 610641 Northing (Y): 682588	Local ID:	10W-MW101	S				
Coordinate System: NJ State Plane (NAD83) - USFEET	7						
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
WELL USE: MONITORING	Other Use(s):						
Diameter (in.): 2	Regulatory Program Requiring Wells/Boring	gs: OI					
Depth (ft.): 20							
Pump Capacity (gpm): 0							
Drilling Method: Hollow Stem Augers							
Attachments:							
SPECIFIC CONDITIONS/REQUIREMENTS							

Approved by the authority of:

Approval Date: September 19, 2017

Expiration Date: September 19, 2018

Bob Martin Commissioner Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201710694

WELL PERMIT

New Well

DEVIATION INFORMATION	DEVIATION INFORMATION				
Purpose:					
Unusual Conditions:					
Reason for Deviation:					
Proposed Well Construction					

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C.

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]



New Jersey Department of Environmental ProtectionSite Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp (For Department use only)

	(i or Department dee emy)
SECTION A. SITE NAME AND LOCATION	
Site Name: Ten West	
List all AKAs: Ten West Apparel	
Street Address: 800 Garfield Ave	
• • • • • • • • • • • • • • • • •	ownship, Borough or City)
County: Hudson Zip	p Code: 07305
Program Interest (PI) Number(s): Ca	ase Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION	
1. Name of Well Owner PPG	
2. Well Location (Street Address) 800 Garfield Ave, Jersey City ,NJ	
3. Well Location (Municipal Block and Lot) Block# 21510	Lot # 39
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to the	e well casing):
Site Well Number as shown on application or plans):	10W-MW101S
Well Completion Date:	1/18/18
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01	1'):
5. Total Depth of Well to the nearest ½ foot:	17'
6. Depth to Top of Screen (or top of open hole) from top of casing (near	est 0.01'): 12'
7. Screen Length (or length of open hole) in feet:	5'
8. Screen or Slot Size:	0.010"
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2"
12. Static Water Level from top of casing at the time of installation (neare	st 0.01'): 8.80
13. Yield (gallons per minute):	1.0
14. Development Techinque (specify):	Pump and Surge
15. Length of Time well is developed/pumped or bailed (hours and minute	es): 2.5 hours



New Jersey Department of Environmental Protection

Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp (For Department use only)

SECTION A. SIT Site Name:	E NAME AND LOCATION PPG Site 114								
List all AKAs:		too (DDC)	311343333333						
Street Address:	Garfield Avenue Group Chrome Sites (PPG) Garfield Avenue and Carteret Avenue								
Municipality:	City of Jersey City	- 45/3/66	and an City						
County:	Hudson	(Township, Bor	- · · · · · · · · · · · · · · · · · · ·						
•	(PI) Number(s): G000008738	Zip Code: 07 Case Tracking	7305						
		Case Tracking	Number(s).						
	LL OWNER AND LOCATION								
1. Name of We									
		int Avenue, Jersey City, NJ							
3. Well Location	n (Municipal Block and Lot) Blo	ock #	Lot #						
SECTION C. WE	LL LOCATION SPECIFICS								
1. Well Permit I	Number (This number must be perm	nanently affixed to the well ca	asing):						
2. Site Well Nu	mber (As shown on application or pl	lans):	10W-MW101S						
3. Geographic	Coordinate NAD 83 to nearest 1/100	of a second:							
Latitude: Nor	rth 40°42'23.95"	Longitude: Wes	st 74°04'21.67"						
4. New Jersey	State Plane Coordinates NAD 83 da	itum, US survey feet units, to	nearest foot:						
North 6826	317.1	East 610587	'.4						
5. Elevation of	Top of Inner Casing (cap off) at refe	rence mark (nearest 0.01'):	15.15						
Elevation of	Top of Outer Casing: 15.55	Elevation of Groun	nd: 15.5						
Check one:	X NAVD 88 NGVD29	On Site Datum Other							
Source of ele identify here,	evation datum (benchmark, number/ assume datum of 100', and give ap	description and elevation/date	tum). If an on-site datum is used, (referencing NAVD 88).						
The vertical datu	um is the North American Vertical Datum of 1	1988 (NAVD88) GEOID09 verified by	y differential GPS observations from the NGS						
CORS network of	on May 10, 2012. Benchmark: Reference sta	ations NJI2, NJNT, NYBP, NYBR an	d NYVH.						
7. Significant of	oservations and notes:								
	nts used: BSM-359 (Spike in Caven Point Avenue	, Elev= 10.83') and BSM-358 (Spike and	Tag on ramp in 10West Property, Elev= 13.22')						
SECTION D. LAN	ND SURVEYOR'S CERTIFICATION		SEAL						
I certify under penalt	ty of law that I have personally examine	d and am familiar with the							
	ed in this document and all attachments		f						
	mediately responsible for obtaining the i on is true, accurate and complete. I am a								
	ing false information including the possi								
Professional Land	Surveyor's Signature:		Date: 2/7/2018						
Surveyor's Name:	John D. Beattie	Lie	cense Number: 24GS04331900						
Firm Name:	Borbas Surveying & Mapping, LL								
Mailing Address:	402 Main Street								
City/Town:	Boonton	State: New Jersey	Zip Code: 07005						
Phone Number:	973-316-8743	Ext:	Fax: 973-402-6627						

Well Permit Number **E201710695**

MONITORING WELL RECORD							
PROPERTY	OWNER: _	MID- NEWA	RK				
Company/Org	ganization: M	lid-Newark L.F	P. c/o Ten West	Apparel			
Address: 10	West 33rd St	, Suite 216 Nev	v York, New Yo	ork 10001			
WELL LOC	ATION: Te	n West					
Address: 80	0 Garfield Av	e /10W-MW10	2S confimed by	client / 6136			
County: Hudson Municipality: Jersey City Lot: 39 Block: 21510							
Easting (X):	610533	Northing	(Y): 682458		DATE WELL ST.	ARTED: January 18, 2	2018
Coordin	nate System: N	IJ State Plane (NAD83) - USFI	EET DA	ATE WELL COMP	LETED: January 19, 2	2018
WELL USE:	MONITOR	ING					
Other Use(s)	•				Local ID: 10V	V-MW102S	
WELL CON	STRUCTION	J					
		17	Finished We	ll Depth (ft.):	17 V	Vell Surface: Flush	Mount
	Depth to Depth to Diameter Material Wgt/Rating/Screen # Used						
Donahala	Top (ft.)	Bottom (ft.)	(inches)			(lbs/o	ch no.)
Borehole Casing	0	17 12	6 2		PVC	sel	h 40
Screen	12	17	2		PVC		010
Bereen					1 10		710
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)
Grout	0	11	6	2	Bentomte (103.)	140	8
Gravel Pack	11	17	6	2	1	#1 sand	
Grouting Met	hod: Pressur	e method (Tren	nie Pipe)	Dri	lling Method: Hollo	ow Stem Augers	
ADDITIONA	AL INFORMA	ATION					
Protective Cas					np Capacity: _ gpm		
	Level: <u>9</u> ft. be Measure Tool:	elow land surfa	ce		al Design Head: _ ft. lling Fluid:		
	ment Period:				ll Rig: Geoprobe 782	2	
Method of De	_	mp and surge			alth and Safety Plan S		
Pump Type:							
ATTACHMI							
GEOLOGIC							
0 - 5: black OT - Other fill							
5 - 16: brown GM - Silty gravels, gravel-sand-silt mixtures 16 - 17: black PT - Peat, muck, and other highly organic soils							
ADDITIONAL INFORMATION:							
ADDITIONA	AL INFORMA	ATION:					

Keith Butcher,

Driller of Record: JOURNEYMAN LICENSE # 203616 Company: SGS NORTH AMERICA INC.

Well Permit Number **E201710695**

WELL PERMIT

New Well

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 which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: N	IICHOLAS A FALLUCCA, MA	STER L	ICENSE # 749523					
Permit Issued to: SGS NORTH AMERICA INC.								
Company Address: P	Company Address: PO BOX 423 WEST CREEK, NJ 08092							
PROPERTY OWNER								
Name: T. GADAY								
Organization: Mid-Newark	L.P. c/o Ten West Apparel							
Address: 10 West 33rd St,	Suite 216							
City: New York	State: New Y	York		Zip Code:	10001			
PROPOSED WELL LOCA	ATION							
Facility Name: Ten West								
Address: 800 Garfield Ave	2/10W-MW102S confimed by cl	lient / 613	36					
County: Hudson	Municipality: Jersey City		Lot: 39		Block: 21510			
Easting (X): 610568	Northing (Y): 682447	7	Local ID:	10W-MW1	102S			
Coordinate System: NJ	State Plane (NAD83) - USFEE	T	_					
SITE CHARACTERISTIC	2S							
PROPOSED CONSTRUC	ΓΙΟΝ							
WELL USE: MONITORI	NG	Oth	er Use(s):					
Diamatan (in). 2			gulatory Program	a. OI				
Diameter (in.): 2 Depth (ft.): 20								
Drilling Method: Hollow S	Pump Capacity (gpm): 0 Deviation Requested: N							
Attachments:								
SPECIFIC CONDITIONS	/REQUIREMENTS							
SI ECIPIC CONDITIONS	REQUIREMENTS							

Approved by the authority of:

Approval Date: September 19, 2017

Expiration Date: September 19, 2018

Bob Martin Commissioner Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201710695

WELL PERMIT

New Well

DEVIATION INFORMATION	DEVIATION INFORMATION				
Purpose:					
Unusual Conditions:					
Reason for Deviation:					
Proposed Well Construction					

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C.

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]



New Jersey Department of Environmental ProtectionSite Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp (For Department use only)

	(i or Department accomy)
SECTION A. SITE NAME AND LOCATION	
Site Name: Ten West	
List all AKAs: Ten West Apparel	
Street Address: 800 Garfield Ave	
, , ,	nship, Borough or City)
County: Hudson Zip C	Code: 07305
Program Interest (PI) Number(s): Case	e Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner PPG	
Well Location (Street Address) 800 Garfield Ave, Jersey City ,NJ	
3. Well Location (Municipal Block and Lot) Block# 21510	Lot # 39
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to the ways)	ell casing): E201710695
Site Well Number as shown on application or plans):	10W-MW102S
Well Completion Date:	1/19/18
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	
5. Total Depth of Well to the nearest ½ foot:	
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest	0.01'): 12'
7. Screen Length (or length of open hole) in feet:	5'
8. Screen or Slot Size:	0.010"
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2"
12. Static Water Level from top of casing at the time of installation (nearest 0	0.01'): 8.12
13. Yield (gallons per minute):	1.0
14. Development Techinque (specify):	Pump and Surge
15. Length of Time well is developed/pumped or bailed (hours and minutes)	2.5 hours



New Jersey Department of Environmental Protection

Site Remediation Program

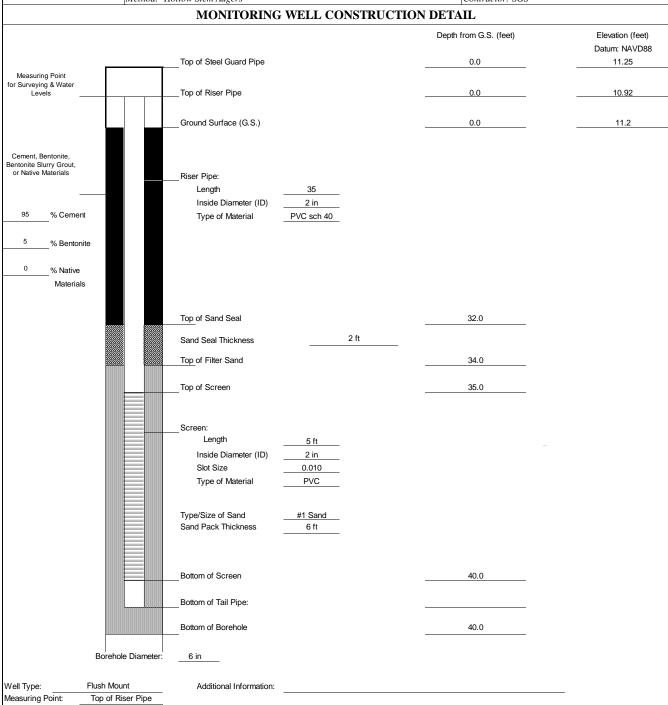
Monitoring Well Certification Form B - Location Certification

Date Stamp (For Department use only)

	E NAME AND LOCATION PPG Site 114			
-	Garfield Avenue Group Chrome Site	es (PPG)		
-	Garfield Avenue and Carteret Avenu			
-	City of Jersey City		(Township, Borough	n or City)
· · ·	Hudson		Zip Code: 07305	• /
	Pl) Number(s): G000008738		Case Tracking Num	
	L OWNER AND LOCATION			
		-4 Avenue 1		
	(Street Address) 70 Caven Point (Municipal Block and Lot) Block	nt Avenue, J ck #		A1 44
		CK #	<u></u>	.ot#
	L LOCATION SPECIFICS			
	lumber (This number must be perma	_	ed to the well casing):
2. Site Well Nun	nber (As shown on application or pla	ans):	10)W-MW102S
Geographic C	coordinate NAD 83 to nearest 1/100	of a second	:	
Latitude: Nort	h 40°42'22.34"		Longitude: West	74°04'22.60"
4. New Jersey S	tate Plane Coordinates NAD 83 dat	tum, US surv	ey feet units, to nea	rest foot:
North 68245	53.4		East 610516.5	
5. Elevation of T	op of Inner Casing (cap off) at refer	ence mark (nearest 0.01'):	15.11
Elevation of T	op of Outer Casing: 15.46	Ele	evation of Ground:	15.5
Check one:	X NAVD 88 NGVD29 C	On Site Datu	m Other	
	vation datum (benchmark, number/d assume datum of 100', and give app			
The vertical datur	m is the North American Vertical Datum of 19 n May 10, 2012. Benchmark: Reference stat	988 (NAVD88) (tions NJI2, NJN	GEOID09 verified by differ T, NYBP, NYBR and NY\	rential GPS observations from the NGS VH.
	servations and notes:			
On site control poin	ts used: BSM-359 (Spike in Caven Point Avenue,	Elev= 10.83') and	d BSM-358 (Spike and Tag o	on ramp in 10West Property, Elev= 13.22')
OFOTION D. J. AN	D OUDVEYOR OF DETIFICATION			
	D SURVEYOR'S CERTIFICATION of law that I have personally examined	l and am famil	iar with the	SEAL
	I in this document and all attachments a			
those individuals imm	nediately responsible for obtaining the in	nformation, I b	elieve the	
	is true, accurate and complete. I am av			
	ng false information including the possib Surveyor's Signature:	mity of fine an	d imprisonment.	D / 0/7/0040
				Date: <u>2/7/2018</u>
Surveyor's Name:	John D. Beattie			e Number: 24GS04331900
Firm Name:	Borbas Surveying & Mapping, LL	<u>@</u>	Certificate of Authori	ization #: 24GA28056200
Mailing Address:	402 Main Street			
City/Town:	Boonton		w Jersey	Zip Code: 07005
Phone Number:	973-316-8743	Ext:	F	ax: 973-402-6627



Client: PPG Project Number			WELL ID: 10W-MW105I
Site Location:	Jersey City, New Jersey		Date Installed: 1/10/2018
Well Location:	Ten West Apparel	Coords: X: 610626.9, Y: 682304.3	Inspector: Jim Christopher
Method: Hollo	w Stem Augers		Contractor: SGS



Well Permit Number **E201712014**

MONITORING WELL RECORD

PROPERTY	OWNER: _	Γ. GADAY					
Company/Org	ganization: M	lid-Newark L.F	P. c/o Ten West	Apparel			
Address: 10) West 33rd Str	reet. Suite 216	New York, Nev	v York 10001			
	ATION: Ter		,				
Address: 80	00 Garfield Av	e / 10W-MW1	05 I confimed b	y client / 6136			
				-	Lot: 39	Block: 21	510
						Block	210
1			(Y): <u>682323</u>		DATE WELL ST	TARTED: January 3, 2	2018
Coordin	nate System: N	IJ State Plane (NAD83) - USFI	EET DA	ATE WELL COMI	PLETED: January 10,	, 2018
WELL USE:	MONITOR	ING					
Other Use(s)	:				Local ID: 10	W-MW105 I	
	STRUCTION						
Total Depth	Drilled (ft.):	40	Finished We	ell Depth (ft.):	40	Well Surface: Flus	h Mount
_	Depth to	Depth to	Diameter		Material	Wot/Ratin	g/Screen # Used
	Top (ft.)	Bottom (ft.)	(inches)		Material		s/ch no.)
Borehole	0	13	14				
Borehole	13	40	6				
Casing	0	35	2		PVC		40
Casing 0 13 6 Steel 40							
Screen 35 40 2 pvc .010							.010
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	32	6	2	27	491	41
Grout	0	13	14	6	55	997	84
Gravel Pack Gravel Pack	32 34	34 35	6	2 2		#00 #1	
		e method (Trei	_		lling Method: Holl	· · · · · · · · · · · · · · · · · · ·	
· ·			ше т тре)	Dir	imig Wethod. 110h	ow Stelli Mugers	
Protective Ca	AL INFORMA	ATION		Pur	np Capacity: _ gpm		
		elow land surfa	ce	_	al Design Head: ft		
Water Level 1	Measure Tool:	m scope			lling Fluid:		
	oment Period:				ll Rig: Mobil Drill E		
Method of De Pump Type:	evelopment: <u>pu</u>	ımp & surge		Hea	alth and Safety Plan	Submitted? Yes	
	ENITO.						
ATTACHMI							
GEOLOGIC 0 - 5: black O							
		avale graval co	and-silt mixtures	2			
			nighly organic so				_
		s, sand-silt mix		7113			
			vel-sand-silt mix	xtures			
ADDITIONA	AL INFORMA	ATION: Well	record entered	on behalf of Lar	ry Lynch.		
	Wesley	M Eichfeld,					

Company: SGS NORTH AMERICA INC.

Driller of Record: MASTER LICENSE # 592848

Well Permit Number **E201712014**

WELL PERMIT

New Well

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 which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: NICHO	OLAS A FALLUCCA, MASTE	R LICENSE # 749523	
Permit Issued to: SGS N	ORTH AMERICA INC.		
Company Address: PO BC	OX 423 WEST CREEK, NJ 08	8092	
PROPERTY OWNER			
Name: T. GADAY			
Organization: Mid-Newark L.P.	c/o Ten West Apparel		
Address: 10 West 33rd Street, S	uite 216		
City: New York	State: New York		Zip Code: 10001
PROPOSED WELL LOCATIO	N		
Facility Name: Ten West			
Address: 800 Garfield Ave / 10	W-MW105 I confimed by client	/ 6136	
County: Hudson Mu	nicipality: Jersey City	Lot: 39	Block: 21510
Easting (X): 610608	Northing (Y): 682323	Local ID:	10W-MW105 I
<u> </u>	e Plane (NAD83) - USFEET		
SITE CHARACTERISTICS			
PROPOSED CONSTRUCTION	1		
WELL USE: MONITORING		Other Use(s):	
Diameter (in.): 2		Regulatory Program Requiring Wells/Boring	ss: Owner Investigation
Depth (ft.): 50		Case ID Number:	
Pump Capacity (gpm): 0		Deviation Requested:	N
Drilling Method: Sonic			
Attachments:			
SPECIFIC CONDITIONS/REQ	QUIREMENTS		

Approved by the authority of:

Approval Date: October 19, 2017

Expiration Date: October 19, 2018

Bob Martin Commissioner Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201712014

WELL PERMIT

New Well

DEVIATION INFORMATION	ON
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C.

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]



New Jersey Department of Environmental ProtectionSite Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp (For Department use only)

	(i di Dopartinoni des emy)
SECTION A. SITE NAME AND LOCATION	
Site Name: Ten West	
List all AKAs: Ten West Apparel	
Street Address: 800 Garfield Ave	
	o, Borough or City)
County: Hudson Zip Code:	07305
Program Interest (PI) Number(s): Case Trac	cking Number(s):
SECTION B. WELL OWNER AND LOCATION	
1. Name of Well Owner PPG	
Well Location (Street Address) 800 Garfield Ave, Jersey City, NJ	
3. Well Location (Municipal Block and Lot) Block# 21510	Lot # 39
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to the well ca	sing): E201712014
Site Well Number as shown on application or plans):	10W-MW105I
Well Completion Date:	1/10/18
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	
5. Total Depth of Well to the nearest ½ foot:	40'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01	35'
7. Screen Length (or length of open hole) in feet:	5'
8. Screen or Slot Size:	0.010"
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2"
12. Static Water Level from top of casing at the time of installation (nearest 0.01')	: 4.82
13. Yield (gallons per minute):	2.0
14. Development Techinque (specify):	Pump and Surge
15. Length of Time well is developed/pumped or bailed (hours and minutes):	2 hours



New Jersey Department of Environmental Protection

Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp (For Department use only)

	NAME AND LOCATION									
_	PPG Site 114	77.70								
_	Garfield Avenue Group Chrome Site Garfield Avenue and Carteret Avenu									
_		e	/T D							
	City of Jersey City		(Township, Boroug	• ,						
_	Hudson		Zip Code: 0730		and the same of th					
Program Interest (F	PI) Number(s): G000008738		Case Tracking Nu	mber(s):						
SECTION B. WEL	L OWNER AND LOCATION									
1. Name of Well	Owner PPG Industries		PLE 10000-1-0-0							
	(Street Address) 70 Caven Poin	t Avenue, .	Jersey City, NJ							
Well Location	(Municipal Block and Lot) Bloc	k #		Lot #						
SECTION C. WEL	L LOCATION SPECIFICS									
1. Well Permit Nu	umber (This number must be perma	nently affix	ed to the well casin	ıg):						
2. Site Well Num	ber (As shown on application or pla	ns):		10W-MW10	5I					
3. Geographic Co	oordinate NAD 83 to nearest 1/100	of a second	d:							
Latitude: North	1 40°42'20.86"		Longitude: West	74°04'21.	.18"					
4. New Jersey St	tate Plane Coordinates NAD 83 date	ım, US sur	vey feet units, to ne	earest foot:						
North 68230			East 610626.9		,					
5. Elevation of To	op of Inner Casing (cap off) at refere	ence mark	(nearest 0.01'):	10.92						
	op of Outer Casing: 11.25		evation of Ground:	11.2	, , , , , , , , , , , , , , , , , , , ,					
Check one: X	NAVD 88 NGVD29 O	n Site Datu	ım Other							
	ration datum (benchmark, number/d assume datum of 100′, and give app									
	n is the North American Vertical Datum of 19 May 10, 2012. Benchmark: Reference stati				bservations from the NGS					
	servations and notes:									
On site control points	s used: BSM-359 (Spike in Caven Point Avenue , I	Elev= 10.83') ar	nd BSM-358 (Spike and Tag	g on ramp in 10W	est Property, Elev= 13.22')					
SECTION D. I AND	SURVEYOR'S CERTIFICATION			CEAL						
	of law that I have personally examined	and am fam	iliar with the	SEAL						
information submitted	in this document and all attachments as	nd that, base	ed on my inquiry of							
	ediately responsible for obtaining the int									
	is true, accurate and complete. I am aw g false information including the possib									
	Surveyor's Signature:	illy of fille at	imprisoriment.		ate: 2/7/2018					
Surveyor's Name:	John D. Beattie		Licen		24GS04331900					
Firm Name:	Borbas Surveying & Mapping, LLC		Certificate of Author							
Mailing Address:	402 Main Street		Commode of Author	AIZAUUIT#.	24GA28056200					
City/Town:	Boonton	State: Ne	ew Jersey	Zip Co	de: 07005					
Phone Number:	973-316-8743	Ext:		Fax:	973-402-6627					

Well Permit Number E201410050

			MONIT	ORING WE	LL RECORD			
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT AG	ENCY			
Company/Org	ganization: <u>Je</u>	ersey City Rede	evelopment Age	ncy				
Address: 66	York St. Jers	ey City, New J	ersey 07302					
WELL LOC	ATION: Sit	e 132						
Address: 82	24 Garfield Av	e address verif	ied by Wes Eich	ifeld				
County: Hu	dson	Municipality	y: Jersey City		Lot: 2	Block: 21:	510	
Easting (X):	610667	Northing	(Y): 682733		DATE WELL ST	TARTED: August 6, 2	014	
Coordii	nate System: N	J State Plane (NAD83) - USFI	EET DA	ATE WELL COM	PLETED: August 6, 2	014	
WELL USE:	MONITOR	ING		<u>.</u>				
Other Use(s)	:				Local ID: <u>132</u>	2-P3A-MW3		
WELL CON	STRUCTION	J						
Total Depth	Drilled (ft.):	18	Finished We	ll Depth (ft.):	18	Well Surface: Flush	h Mount	
	Depth toDepth toDiameterMaterialWgt/Rating/Screen # UsedTop (ft.)Bottom (ft.)(inches)(lbs/ch no.)							
Borehole	0	18	8				,	
Casing	0	8	2		PVC		sch 40	
Screen	8	18	2		PVC		.010	
	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ,	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Gravel Pack	6	6 18	8	2 2	10	188 #1 sand	16	
	hod: Gravity		8		lling Method: Holl			
_					ming Method	low Stelli Augers		
ADDITIONAL INFORMATION Protective Casing: No Pump Capacity: _ gpm Static Water Level: 10 ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: m-scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: 7822DT Probe Method of Development: whale pump Health and Safety Plan Submitted? Yes Pump Type:								
ATTACHM	ENTS:							
GEOLOGIC		1	1 114					
			and-silt mixture	S				
ADDITION	AL INFORM	ATION:						

Paul Lentz, Company: SGS NORTH AMERICA INC. Driller of Record: MONITORING LICENSE # 545066

Well Permit Number **E201410050**

WELL PERMIT

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 which are agreed to by the permittee upon acceptance of the permit

	1 1 1
Certifying Driller: WESLEY M EICHFELD, MASTER	LICENSE # 592848
Permit Issued to: SGS NORTH AMERICA INC.	
Company Address: PO BOX 423 WEST CREEK, NJ 0	8092
PROPERTY OWNER	
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	7
Organization: Jersey City Redevelopment Agency	
Address: 66 York St.	
City: Jersey City State: New Jerse	zip Code: <u>07302</u>
PROPOSED WELL LOCATION	
Facility Name: Site 132	
Address: 824 Garfield Ave address verified by Wes Eichfeld	
County: Hudson Municipality: Jersey City	Lot: 2 Block: 21510
Easting (X): 610687 Northing (Y): 682745 Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: 132-P3A-MW3
SITE CHARACTERISTICS	
SIL CHARACTERISTICS	
PROPOSED CONSTRUCTION	
WELL USE: MONITORING	Other Use(s):
Diameter (in.): 2	Regulatory Program Requiring Wells/Borings:
Depth (ft.): _20	Case ID Number:
Pump Capacity (gpm): 0	Deviation Requested: N
Drilling Method: Hollow Stem Augers	
Attachments:	
SPECIFIC CONDITIONS/REQUIREMENTS	

Approved by the authority of:

Bob Martin Commissioner

Approval Date: July 31, 2014

Expiration Date: July 31, 2015

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201410050

WELL PERMIT

DEVIATION INFORMATION	ON
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit.

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-11

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]



New Jersey Department of Environmental ProtectionSite Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp (For Department use only)

	(For Department use only)
SECTION A. SITE NAME AND LOCATION	
Site Name: HCC Site 132	
List all AKAs: Hudson County Chromate 132; HCC Site 132; Town & Country Wareho	puse
Street Address: Garfield Ave	
Municipality: Jersey City (Township, Borou	• • • • • • • • • • • • • • • • • • • •
County: Hudson Zip Code: 0730	
Program Interest (PI) Number(s): G000008749 Case Tracking N	umber(s):
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner	
Well Location (Street Address)	
3. Well Location (Municipal Block and Lot) Block# 2	Lot # 21510
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to the well casing):	E20140050
Site Well Number as shown on application or plans):	132-P3A-MW3
2. Site Well Number as shown on application of plans).	9.6.2014
3. Well Completion Date:	8-6-2014
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	0.60
5. Total Depth of Well to the nearest ½ foot:	18.0
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):	8.0
7. Screen Length (or length of open hole) in feet:	10.0
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2.0
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	Not Available
13. Yield (gallons per minute):	Not Available
14. Development Techinque (specify):	Pump/Surge Block
15. Length of Time well is developed/pumped or bailed (hours and minutes):	Not Available



New Jersey Department of Environmental Protection

Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp (For Department use only)

SECTION A. SIT Site Name:	E NAME AND LOCATION PPG Industries (Site 114)			
List all AKAs:				
Street Address:	Garfield Avenue and Carteret Avenu	ie		
Municipality:	City of Jersey City		(Township, Borough	n or City)
County:	Hudson		Zip Code: 07305	
Program Interest	(PI) Number(s):		Case Tracking Num	ber(s):
SECTION B. WE	LL OWNER AND LOCATION			
1. Name of We	ell Owner PPG Industries			
2. Well Location	n (Street Address)			,
3. Well Location	n (Municipal Block and Lot) Bloc	ck #	L	ot#
SECTION C. WE	LL LOCATION SPECIFICS			
1. Well Permit	Number (This number must be perma	anently affi	xed to the well casing):
2. Site Well Nu	ımber (As shown on application or pla	ans):	13	32-P3A-MW3
	Coordinate NAD 83 to nearest 1/100		d:	
Latitude: No			Longitude: West	74°04'20.62"
4. New Jersey	State Plane Coordinates NAD 83 dat	um, US su	rvey feet units, to nea	rest foot:
_	734.0		East 610668.2	
	Top of Inner Casing (cap off) at refer	ence mark	(nearest 0.01'):	13.01
	Top of Outer Casing: 13.85		ilevation of Ground:	13.9
Check one:		On Site Dat	um Other	
6. Source of el	evation datum (benchmark, number/o , assume datum of 100', and give ap			
The vertical dat CORS network	um is the North American Vertical Datum of 19 on May 10, 2012. Benchmark reference statio	988 (NAVD88 ons: NJI2, NJI) GEOID09 verified by diffe NT, NYBP, NYBR and NYV	rential GPS observations from the NGS 'H.
7. Significant o	bservations and notes:			
On site control	points used: Spike and Tag set in the top of cu	rb at the inter	section of east side of Cart	eret Avenue and south side of Halladay
Street, Elev= 10	0.77' and Spike and Tag set in pavement at the	e south west s	ide of the Caven Point Ave	enue/Halladay Street intersection.
	ALD ALIDVEYADIA AEDTIEIAATIAN			OF AL
	ND SURVEYOR'S CERTIFICATION Ity of law that I have personally examined	l and am far	niliar with the	SEAL
	ed in this document and all attachments a			
	nmediately responsible for obtaining the in			
submitted informati	on is true, accurate and complete. I am a	ware that the	ere are significant	
	tting false information including the possil	Office Of Title	and unpusonment.	Date: 9/26/2014
	d Surveyor's Signature:	-/	Lipono	se Number: 24GS04331900
Surveyor's Name				According to the Control of the Cont
Firm Name:	Borbas Surveying & Mapping, LL	U /	Certificate of Author	Z4GAZ0000Z00
Mailing Address:	402 Main Street	Ctota: N	low lorsov	Zin Codo: 07005
City/Town: Phone Number:	Boonton 973-316-8743	State: No. 1	lew Jersey	Zip Code: 07005 Fax: 973-402-6627
FROME NUMBER.	313-310-01 4 3	ᆫᄉၬ		an. 010-402-0021



WELL ID 132-P3A-MW3

PAGE 1 OF 1

Project Name: PPG Garfield Ave Project Number: 60240739		Drilling Company: SGS North America Driller: P.Lentz			NJDEP Well Permit Number: #E201410050 Coordinates (NJSPNAD83) x: 610667.8						
			14 9:00:00) AM				thod: HSA	Coordinates (NJSPNAD83)		
			8/6/2014 11		ΔM			13.82	Total Well Depth: 18 ft		
Geologist			0.0.20	.00.007				nager: Scott Mikaelian	Depth to Water: ft		
		n: 3	A Moundi	ng We	ell	,			Date Gauged:		
		1231								(Note bas = below around surface)	
O DEPTH (ff bgs) WATER LEVEL (ff)	SAMPLE NUMBER	RECOVERY (FT	BLOW	PID READING (PPM)	GA Class	uscs	LITHOLOGY	Surface Cover a	nd Thickness:	WELL DIAGRAM	
				0.0	2A3	SPHA		ASPHALT.		▼ Flushmount	
1	2 3 4	0.3 0.5 2		0.0 0.0 0.0	3 3	FILL FILL		fine to coarse SAND,little fine ash,(7.5YR 4/1) dark gray,locutaining. ASH, (10YR 7/1) light gray,locutaining.	ose,dry,no odor,no	Top Cap (J-Plug)	
3 - 4	5	1.5		0.0	3	NR		fine SAND,little ash,trace coabrown,loose,dry,no odor,no s	al,trace glass, (7.5YR 4/2) taining.	Cement (bent-cement grout) riser (PVC sch 40)	
6 7	6	2.5		0.0	3	FILL		ASH,little coal,trace glass,(1) gray,loose,dry,no odor,no sta		✓— Annular seal (#00 Sand Seal)	
9	7	-		0.0	3	NR		NO RECOVERY.			
11	0			0.0	3	FILL		ASH,trace glass,trace coal,(' gray,loose,wet,no odor,no sta		Filter Pack (# Filter Pack)	
13	8 9	2.5		0.0	3	NR		NO RECOVERY.		Screen (PVC sch 40)	
15		\vdash		0.0	3	FILL		ASH,trace coal,(10YR 4/1) d	ark gray loose wat no		
4	11	0.4				I ILL	\bowtie	odor,no staining.	air gray,1005E,WEL,110		
16	12	2		0.0	3	FILL		SILT,trace fill,trace organic fi			
17 -	10	0.6		0.0	3	FILL		grayish brown,loose,moist,no silty SAND, little gravel, trace brown,loose,moist,no odor,no	o odor,no staining. e fill, (5YR 4/4) reddish		
19	13	2		0.0	7	PT		PEAT, (80% organic fibers, 2 4/2) brown,very stiff,dry,mod staining. Soils consistent with	erate organic odor,no	End Cap (PV0	
_	ĺ	1		1	1	1	1/ 1/			1	
20							1				

Well Permit Number **E201410051**

MONITORING WELL RECORD

	MONITURING WELL RECORD										
PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY										
Company/Organization: Jersey City Redevelopment Agency											
Address: 66	6 York St. Jers	ey City, New J	ersey 07302								
WELL LOC	ATION: Sit	e 132									
Address: 824 Garfield Ave address verified by Wes Eichfeld											
County: Hu	County: Hudson Municipality: Jersey City Lot: 2 Block: 21510										
Easting (X):	Easting (X): 610779 Northing (Y): 682676 DATE WELL STARTED: August 5, 2014										
			NAD83) - USFI	EET DA		PLETED: August 5, 2					
WELL USE:	: MONITOR	ING									
					Local ID: 132	2-P3A-MW4					
WELL CON	STRUCTION	J									
	Drilled (ft.):	20	Finished We	ll Depth (ft.):	20	Well Surface: Flus	h Mount				
	· · · —		Diameter		Material		g/Screen # Used				
	Depth to Top (ft.)	Depth to Bottom (ft.)	(inches)		Wiateriai		s/ch no.)				
Borehole	0	20	8								
Casing	0	10	2		PVC	S	sch 40				
Screen	10	20	2		PVC		.010				
	Depth to	Depth to	Outer	Inner		Material					
Crosst	Top (ft.)	Bottom (ft.)	Diameter (in.)	` '	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)				
Grout Gravel Pack	8	8 20	8	2 2	15	282 #1 sand	24				
	thod: Gravity	1	Ü		lling Method: Holl						
_				Dir.	ming Method	ow Stelli Mugers					
Protective Ca	AL INFORMA	ATION		Pur	np Capacity: _ gpm						
		elow land surf	ace		al Design Head: _ ft	•					
Water Level 1	Measure Tool:	m scope			lling Fluid:						
	oment Period:				ll Rig: <u>7822DT</u>	C 1 '44 . 19 X7					
Method of Development: whale pump Health and Safety Plan Submitted? Yes Pump Type:											
	ATTACHMENTS:										
GEOLOGIC											
		avels, gravel-sa	and-silt mixtures	<u> </u>							
ADDITION	AL INFORMA	ATION:									

	Paul Lentz,			
Driller of Record:	MONITORING LICENSE # 545066	Company:	SGS NORTH AMERICA INC.	

Well Permit Number **E201410051**

WELL PERMIT

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 which are agreed to by the permittee upon acceptance of the permit

	<u> </u>							
Certifying Driller: WESLEY M EICHFELD, MASTER	LICENSE # 592848							
Permit Issued to: SGS NORTH AMERICA INC.								
Company Address: PO BOX 423 WEST CREEK, NJ 0	08092							
PROPERTY OWNER								
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	7							
Organization: Jersey City Redevelopment Agency								
Address: 66 York St.								
City: Jersey City State: New Jerse	ey Zip Code: 07302							
PROPOSED WELL LOCATION								
Facility Name: Site 132								
Address: 824 Garfield Ave address verified by Wes Eichfeld								
County: Hudson Municipality: Jersey City	Lot: 2 Block: 21510							
Easting (X): 610775 Northing (Y): 682708	Local ID: 132-P3A-MW4							
Coordinate System: NJ State Plane (NAD83) - USFEET								
SITE CHARACTERISTICS								
PROPOSED CONSTRUCTION								
WELL USE: MONITORING	Other Use(s):							
D:	Regulatory Program							
Diameter (in.): 2	Requiring Wells/Borings:							
Depth (ft.): 20	Case ID Number:							
Pump Capacity (gpm): 0	Deviation Requested: N							
Drilling Method: Hollow Stem Augers Attachments:								
Attachments:								
SPECIFIC CONDITIONS/REQUIREMENTS								

Approved by the authority of:

Approval Date: July 31, 2014

Expiration Date: July 31, 2015

Bob Martin Commissioner Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201410051

WELL PERMIT

DEVIATION INFORMATION	ON
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit.

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-11

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]



New Jersey Department of Environmental ProtectionSite Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp (For Department use only)

	(i di Dopariment des emy)
SECTION A. SITE NAME AND LOCATION	
Site Name: HCC Site 132 List all AKAs: Hudson County Chromate 132; HCC Site 132; Town & Country W	/arahousa
List all AKAs: Hudson County Chromate 132; HCC Site 132; Town & Country W Street Address: Garfield Ave	raienouse
Circuit / Idai occ.	Borough or City)
County: Hudson Zip Code:	
_	king Number(s):
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner	
Well Location (Street Address)	
Well Location (Municipal Block and Lot) Block# 2	Lot # 21510
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to the well case)	ing): E201410051
Site Well Number as shown on application or plans):	132-P3A-MW4
Well Completion Date:	8-6-2014
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	0.42
5. Total Depth of Well to the nearest ½ foot:	20.0
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01')	10.0
7. Screen Length (or length of open hole) in feet:	10.0
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2.0
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	Not Available
13. Yield (gallons per minute):	Not Available
14. Development Techinque (specify):	Pump/Surge Block
15. Length of Time well is developed/pumped or bailed (hours and minutes):	Not Available



New Jersey Department of Environmental Protection

Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp (For Department use only)

Site Name:	E NAME AND LOCATION PPG Industries (Site 114)			
List all AKAs:	Garfield Avenue and Carter	ot Avanua		
Street Address:		et Avenue	(Township Paraugh	or City)
Municipality:	City of Jersey City		(Township, Borough Zip Code: 07305	- ·
County: Program Interest	Hudson (PI) Number(s):		Case Tracking Num	
			Oase Tracking (4air	iber(3).
	ELL OWNER AND LOCATIO	N		
1. Name of We				
	on (Street Address)	D) 1 "	,	
Well Location	n (Municipal Block and Lot)	Block #	L	ot#
SECTION C. WE	ELL LOCATION SPECIFICS			
1. Well Permit	Number (This number must be	oe permanently aff	ixed to the well casing	j):
2. Site Well Nu	ımber (As shown on applicati	on or plans):	13	32-P3A-MW4
3. Geographic	Coordinate NAD 83 to neare	st 1/100 of a secor	nd:	
Latitude: No	rth 40°42'24.53"		Longitude: West	74°04'19.16"
4. New Jersey	State Plane Coordinates NA	D 83 datum, US sເ	rvey feet units, to nea	arest foot:
North 682	376.9		East 610780.3	
5. Elevation of	Top of Inner Casing (cap off)	at reference mark	(nearest 0.01'):	13.08
Elevation of	Top of Outer Casing: 13.	50I	Elevation of Ground:	13.5
Check one:	X NAVD 88 NGVD29	On Site Da	tum Other	
	evation datum (benchmark, r , assume datum of 100', and			. If an on-site datum is used, erencing NAVD 88).
The vertical date CORS network	um is the North American Vertical D on May 10, 2012. Benchmark refer	atum of 1988 (NAVD88 ence stations: NJI2, NJ	B) GEOID09 verified by diffe NT, NYBP, NYBR and NYV	erential GPS observations from the NGS /H.
7 Significant of	heariations and notes:			
	bservations and notes: points used: Spike and Tag set in th	e top of curb at the inte	rsection of east side of Car	teret Avenue and south side of Halladay
Street, Elev= 1	0.77' and Spike and Tag set in pave	ment at the south west	side of the Caven Point Ave	enue/Halladay Street intersection.
	ND SURVEYOR'S CERTIFIC		miliar with the	SEAL
	Ity of law that I have personally e ed in this document and all attac			
	mediately responsible for obtain			
	on is true, accurate and complet			
1	tting false information including t	the possibility of fine	and imprisonment.	D. I
	d Surveyor's Signature:			Date: 9/26/2014
Surveyor's Name				se Number: 24GS04331900
Firm Name:	Borbas Surveying & Map	ping, LLC /	Certificate of Autho	rization #: 24GA28056200
Mailing Address:	402 Main Street			
City/Town:	Boonton	_	New Jersey	Zip Code: 07005
Phone Number:	973-316-8743	Ext:	F	Fax: 973-402-6627



WELL ID 132-P3A-MW4

Project	Name:	PPG	Garfield A	ve		Drilli	ng Co	mpany: SGS North America	NJDEP Well Permit Numb		AGE 1 OF 2
Project Number: 60240739			Drille	er: P.	Lentz	Coordinates (NJSPNAD83	3) x: 610779.6				
Drilling Date: 8/5/2014 9:00:00 AM Well Completion Date: 8/5/2014 10:55:00 AM					thod: HSA	Coordinates (NJSPNAD83) y : 682676.5				
			8/5/2014 10):55:00 /	AM			13.54	Total Well Depth: 20 ft		
Geologist: RK Physical Location: 3A Mounding Well			Proje	ect ivia	nager: Scott Mikaelian	Depth to Water: ft Date Gauged:					
nysica	LUCAL	VII. 3	,, IVIOUITUI	ing vve	•11				Date Gauyeu.	(Note bas = below around s	surface)
		, <u>E</u>		<u>ত</u>			>				
(ft bgs)	SAMPLE	<u>;</u> <u>≻</u>	BLOW	READING (PPM)			LITHOLOGY				
(ft bgs)	밀		ÓΒ	₽₹	GA Class	uscs	OL(Surface Cover ar	nd Thickness:	WELL I	DIAGRAM
5€ ≷i		Ś	⊞ (S	18 F	Ciass		Ŧ				
0	_	RECOVERY	_	PID							
		- 11		0.0	2A\$	SPHAI		ASPHALT.			lushmount
, -	2	0.3								_ '	ор Сар
1	3	2_		0.0	3 4A	FILL	$\otimes\!\!\!\otimes\!\!\!\!\otimes$	fine to medium SAND,little si gravel,trace ash,(7.5YR 4/3)		(J	l-Plug)
4				0.0	4/	I ILL	\bowtie	\odor,no staining.	/		
2		_					\bowtie	COPR,(5YR 3/4) dark reddisl	n brown,loose,dry,no		
	1	0.7					\bowtie	odor,no staining.			
3	4	1									
				0.0	5	FILL		GGM, (5GY 5/2) grayish gree	en,loose,dry,no odor,no		
4	5	1					\bowtie	staining.			
- 		++		0.0	5	FILL		GGM,(5GY 5/2) grayish gree	n,loose,dry,no odor,no	K//1 K//1 -	ement ent-cement
_							\bowtie	staining.	· · · · ·		rout)
5		+		0.0	5	FILL	$\otimes\!\!\otimes\!\!$	GGM, (5GY 5/2) grayish gree	en loose moist no odor no		,
4				3.0		I ILL	\bowtie	staining.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	To ris	ser (PVC scl 0)
6		4					\bowtie				- ,
										⊸ _ ∆	nnular seal
7	7	1								(#	00 Sand
	6	2		0.0	3	FILL		ASH,and cinders,some fine to		i s	eal)
8	8						\bowtie	3/1) very dark gray,loose,wet	no odor,no staining.		
	- 3	+		0.0	5	FILL		GGM, little medium to coarse	gravel,(5GY 5/2) gravish	7	
_								green, loose,wet.	70 7		
9		+ $+$					\bowtie				
4							\bowtie				
10		+		0.0		F :		OOM (50)(50)		4	
1				0.0	5	FILL		GGM, (5GY 5/2) grayish gree staining.	en,ioose,wet,no odor,no		
11								otuning.			
T							\bowtie				
12											
· - +	9	╡┋╽					\bowtie				
<u>,</u>	9	5					\bowtie				
13		\dashv \mid					\bowtie				
4											ilter Pack (#
14		-								Fi	ilter Pack)
4							\bowtie				
15		\perp					\bowtie				creen (PVC
				0.0	5	FILL	\bowtie	GGM,(5GY 5/2) grayish gree	n,loose,moist to wet,no		ch 40)
16								odor,no staining.			
		7					\bowtie				
17							\bowtie				
17	10	+									
_	10	4.5									
18		-					\bowtie				
							\bowtie				
19		_					\bowtie				
	11	0.5					\bowtie				
20		5.0		0.0	3	FILL	\bowtie	fine SAND,and silt,(5YR 4/4)	reddish		
	_	_		-			· · · · · ·		-		

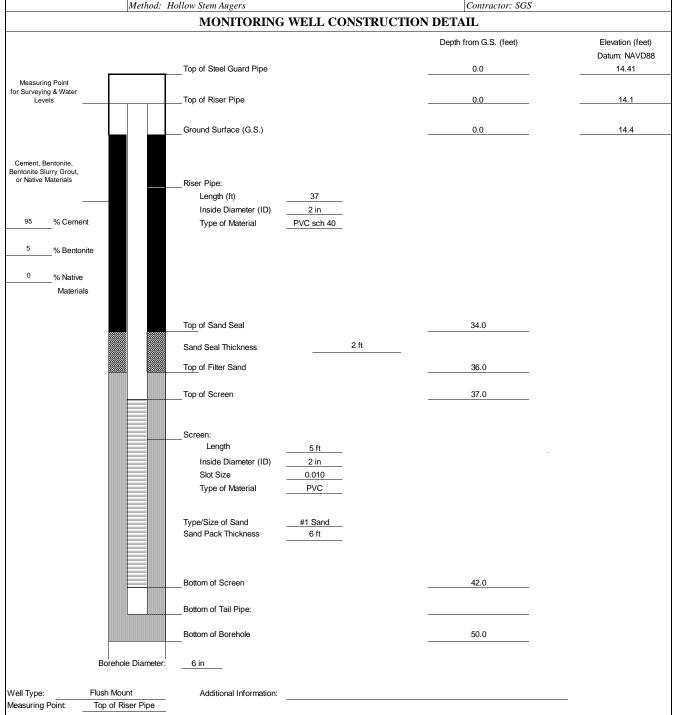


WELL ID 132-P3A-MW4

732.564.3200 office telephone PAGE 2 OF 2						
Project Name: PPG	Garfield Ave	Drill	ling Company: SGS North America	NJDEP Well Permit Number: #E201410051		
Project Number: 60	240739		ler: P.Lentz	Coordinates (NJSPNAD83) x: 610779.6		
Drilling Date: 8/5/20			ling Method: HSA	Coordinates (NJSPNAD83) y: 682676.5		
Well Completion Date:	8/5/2014 10:55:00		vation: 13.54	Total Well Depth: 20 ft		
Geologist: RK		Proj	ect Manager: Scott Mikaelian	Depth to Water: ft		
Physical Location:	3A Mounding W	Vell		Date Gauged:	(Note bas = below ground surface)	
	(2)				(Note bus – below dround surface)	
(ft bgs) WATER LEVEL (ft) SAMPLE NUMBER	BLOW COUNTS D READING	GA USCS	S Surface Cover a	nd Thickness:	WELL DIAGRAM	
RE	₫		_			
			brown,soft,wet,slight organic	odor,no staining.	End Cap (PV	



Client: PPG		WELL ID: 132-P3A-MW105I		
Project Number	: 60507168	WEEE 1D: 132-1 311-14 W1031		
Site Location:	Jersey City, New Jersey		Date Installed: 1/16/2018	
Well Location:	Ten West Apparel	Coords: X: 610676.8, Y: 682695.3	Inspector: Eric Acs	
Mathad: Halla	w Stom Augors	Contractor: SGS		



New Jersey State Department of Environmental Protection Bureau of Water Allocation and Well Permitting Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number **E201712013**

MONITORING WELL RECORD

PROPERTY	OWNER:	T. GADAY							
Company/Organization: Mid-Newark L.P. c/o Ten West Apparel									
1 ,				- 1 1					
Address: 10) West 33rd Sti	reet, Suite 216	New York, New	7 YORK 10001					
	ATION: Te								
Address: 80	00 Garfield Av	e / 132-P3A-M	W105 I confime	ed by client / 61	30				
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 39	Block: 21:	510		
Easting (X):	610750	Northing	(Y): <u>682658</u>		DATE WELL ST	TARTED: January 11,	2018		
Coordin	nate System: N	J State Plane (NAD83) - USFI	EET DA	ATE WELL COM	PLETED: January 16,	2018		
WELL USE:	MONITOR	ING							
Other Use(s)	:				Local ID: 132	2-P3A-MW105 I			
WELL CON	STRUCTION	I							
	Drilled (ft.):		Finished We	ll Depth (ft.):	42	Well Surface: Flush	n Mount		
_	Depth to	Depth to	Diameter		Material	Wot/Rating	/Screen # Used		
	Top (ft.)	Bottom (ft.)	(inches)		TVIACOTAL		/ch no.)		
Borehole	Borehole 0 18.5 14								
Borehole	Borehole 18.5 50 6								
Casing	0	37	2	PVC 40			40		
Casing	0	18.5	6	Steel 40		40			
Screen	37	42	2		pvc .010		.010		
	Depth to	Depth to	Outer	Inner		Material			
	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)		
Grout	0	18.5	14	6	78	1418	120		
Grout	0	34 50	6	0	28 5	521	44 12		
Grout Gravel Pack	42 34	36	6	2	3	100 #00	12		
Gravel Pack	36	42	6	2		#1			
<u> </u>	hod: Pressur				lling Method: Holl				
_	AL INFORMA		1 /			J			
Protective Ca		<u>arron</u>		Pur	np Capacity: _ gpm				
	Level: <u>7.5</u> ft.	below land sur	face		al Design Head: _ ft	t.			
	Measure Tool:				lling Fluid:				
	ment Period:				ll Rig: Mobile Drill				
Method of De Pump Type:	evelopment: <u>pu</u>	ımp & surge		Неа	alth and Safety Plan	Submitted? Yes			
ATTACHMI	ENTS:								
GEOLOGIC									
0 - 4: black O									
		avels oravel-sa	and-silt mixtures	1					
	M - Silty sand			,					
			sand-silt mixture	20					
	n SM - Silty sa								
		-							
ADDITION	AL INFORMA	ATION: Doub	ole cased well. I	Hole back groute	ed 50-42 ft. Well re	cord entered on behalf	of Larry Lynch.		

Company: SGS NORTH AMERICA INC.

Wesley M Eichfeld,

Driller of Record: MASTER LICENSE # 592848

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Well Permitting Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number **E201712013**

WELL PERMIT

New Well

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 which are agreed to by the permittee upon acceptance of the permit

Permit Issued to: SGS NORTH AMERICA INC. Company Address: PO BOX 423 WEST CREEK, NJ 08092 PROPERTY OWNER Name: T. GADAY Organization: Mid-Newark L.P. c/o Ten West Apparel Address: 10 West 33rd Street, Suite 216							
PROPERTY OWNER Name: T. GADAY Organization: Mid-Newark L.P. c/o Ten West Apparel Address: 10 West 33rd Street, Suite 216							
Name: T. GADAY Organization: Mid-Newark L.P. c/o Ten West Apparel Address: 10 West 33rd Street, Suite 216							
Organization: Mid-Newark L.P. c/o Ten West Apparel Address: 10 West 33rd Street, Suite 216							
Address: 10 West 33rd Street, Suite 216							
Change and the second s							
City: New York State: New York Zip Code: 10001							
PROPOSED WELL LOCATION							
Facility Name: Ten West							
Address: 800 Garfield Ave / 132-P3A-MW105 I confimed by client / 6136							
County: Hudson Municipality: Jersey City Lot: 39 Block: 21510							
Easting (X): 610750 Northing (Y): 682658 Local ID: 132-P3A-MW105 I							
Coordinate System: NJ State Plane (NAD83) - USFEET							
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
WELL USE: MONITORING Other Use(s):							
Diameter (in.): 2 Regulatory Program Requiring Wells/Borings: Owner Investigation							
Depth (ft.): 50 Case ID Number:							
Pump Capacity (gpm): 0 Deviation Requested: N							
Drilling Method: Sonic							
Attachments:							
SPECIFIC CONDITIONS/REQUIREMENTS							

Approved by the authority of:

Approval Date: October 19, 2017

Expiration Date: October 19, 2018

Bob Martin Commissioner Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201712013

WELL PERMIT

New Well

DEVIATION INFORMATION					
Purpose:					
Unusual Conditions:					
Reason for Deviation:					
Proposed Well Construction					

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C.

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]



New Jersey Department of Environmental ProtectionSite Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp (For Department use only)

	(For Dopuration, and only)
SECTION A. SITE NAME AND LOCATION	
Site Name: Ten West	
List all AKAs: Ten West Apparel	
Street Address: 800 Garfield Ave	
• • • • • • • • • • • • • • • • • • • •	vnship, Borough or City)
County: Hudson Zip C	Code: 07305
Program Interest (PI) Number(s): Case	e Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION	
1. Name of Well Owner PPG	
Well Location (Street Address) 800 Garfield Ave, Jersey City, NJ	
Well Location (Municipal Block and Lot) Block# 21510	Lot # 39
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to the w	rell casing):
Site Well Number as shown on application or plans):	132-P3A-MW105I
3. Well Completion Date:	1/1518
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	
5. Total Depth of Well to the nearest ½ foot:	42'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest	t 0.01'): <u>37'</u>
7. Screen Length (or length of open hole) in feet:	
8. Screen or Slot Size:	0.010"
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2"
12. Static Water Level from top of casing at the time of installation (nearest	0.01'): 7.86
13. Yield (gallons per minute):	2.0
14. Development Techinque (specify):	Pump and Surge
15. Length of Time well is developed/pumped or bailed (hours and minutes)	2 hours



New Jersey Department of Environmental Protection

Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp (For Department use only)

	NAME AND LOCATION				
_	PPG Site 114	(===0)			WINTON LO
_	Garfield Avenue Group Chrome Site				
	Garfield Avenue and Carteret Avenu	ıe			
	City of Jersey City Hudson		(Township, Borough Zip Code: 07305		
_					
Program Interest (F	PI) Number(s): G000008738		Case Tracking Num	nber(s):	
SECTION B. WEL	L OWNER AND LOCATION				
1. Name of Well	Owner PPG Industries				
	(Street Address) 70 Caven Poin	it Avenue, J	ersey City, NJ		
3. Well Location	(Municipal Block and Lot) Bloc	ck #	L	.ot #	
SECTION C. WEL	L LOCATION SPECIFICS				
1. Well Permit Nu	umber (This number must be perma	anently affix	ed to the well casing):	
	ber (As shown on application or pla	-	-	-P3A-MW10	51
3. Geographic Co	pordinate NAD 83 to nearest 1/100	of a second			
Latitude: North			Longitude: West	74°04'20.5′	1"
4. New Jersey St	ate Plane Coordinates NAD 83 date	um, US sur	ey feet units, to nea	rest foot:	
North 68269			East 610676.8		
5. Elevation of To	op of Inner Casing (cap off) at refere	ence mark (nearest 0.01'):	14.10	
	op of Outer Casing: 14.41		evation of Ground:	14.4	
Check one: X	NAVD 88 NGVD29 C	n Site Datu	m Other		
6. Source of elev identify here, a	ation datum (benchmark, number/d assume datum of 100', and give app	escription a	nd elevation/datum). actual elevation (refe	. If an on-site erencing NAV	datum is used, D 88).
The vertical datum CORS network on	is the North American Vertical Datum of 19 May 10, 2012. Benchmark: Reference stati	88 (NAVD88) ions NJI2, NJN	GEOID09 verified by differ IT, NYBP, NYBR and NY\	rential GPS obse VH.	ervations from the NGS
7. Significant obs	ervations and notes:				
On site control points	s used: BSM-359 (Spike in Caven Point Avenue,	Elev= 10.83') an	d BSM-358 (Spike and Tag o	on ramp in 10West	Property, Elev= 13.22')
SECTION D. LAND	SURVEYOR'S CERTIFICATION		The state of the s	SEAL	
	of law that I have personally examined				
information submitted	in this document and all attachments a ediately responsible for obtaining the in	nd that, base	d on my inquiry of		
	is true, accurate and complete. I am aw				
	g false information including the possib				
Professional Land S	Surveyor's Signature:			Dat	e: 2/7/2018
Surveyor's Name:	John D. Beattie		License	e Number: 2	24GS04331900
Firm Name:	Borbas Surveying & Mapping, LLC		Certificate of Authori		24GA28056200
Mailing Address:	402 Main Street				
City/Town:	Boonton	State: Ne	w Jersey	Zip Code	: 07005
Phone Number:	973-316-8743	Ext:		•	73-402-6627



New Jersey Department of Environmental ProtectionSite Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp (For Department use only)

SECTION A. SITE NAME AND LOCATION	(For Department use only)
Site Name: PPG Industries (Site 114)	
List all AKAs:	
Street Address: Garfield Ave	
Municipality: Jersey City (Township, Boro	ough or City)
County: Hudson Zip Code: 0730	95
Program Interest (PI) Number(s): Case Tracking N	lumber(s):
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner	
2. Well Location (Street Address)	
Well Location (Municipal Block and Lot) Block#	Lot #
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to the well casing):	2600082877
2. Site Well Number as shown on application or plans):	133-MW1C
3. Well Completion Date:	4-30-2007
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	0.4
5. Total Depth of Well to the nearest ½ foot:	77.0
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):	72.0
7. Screen Length (or length of open hole) in feet:	5.0
8. Screen or Slot Size:	10 slot
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2.0
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	n/a
13. Yield (gallons per minute):	n/a
14. Development Techinque (specify):	HSA/ Mud Rotary
15. Length of Time well is developed/pumped or bailed (hours and minutes):	n/a



New Jersey Department of Environmental Protection Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION	
Site Name: PPG Industries (Site 114)	
List all AKAs:	
Street Address: Garfield Avenue	
Municipality: Jersey City	(Township, Borough or City)
County; Hudson	Zip Code: 07305
Program Interest (PI) Number(s):	Case Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION	
1 Name of Well Owner	
Well Location (Street Address)	
Well Location (Municipal Block and Lot) Block#	Lot #
SECTION C. WELL LOCATION SPECIFICS	
1. Well Permit Number (This number must be permanently aff	fixed to the well casing): 26-00082-877
	132 MW1C
2 Site Well Number As shown on application or plans):	
3. Geographic Coordinate NAD 83 to nearest 1/10 of a secon	id:
1 on all what West 74° 04' 20.61"	1 attide North 40° 42' 20.65"
4. New Jersey State Plane Coordinates NAD 83 to nearest 10) feet
North 682283.1	East 610670.8
	11.50
5. Elevation of Top of Inner Casing (cap off) at reference mark	k (nearest 0.01'):
Source of elevation datum (benchmark, number/description here, assume datum of 100', and give approximated actual	
The vertical datum is NAVD88 established by Borbas Survitorm the NGS CORS Network in December, 2005.	eying and Mapping from differential GPS observations
7. Significant observations and notes:	
Outer Casing Elevation: 11.86 Ground Surface Elevation: 11.9	

Professional Land Surveyor's Name: J. Peter Borbas, P.L.S.

Date: 12/20/2011

SECTION D. LAND SURVEYOR'S CERTIFICATION

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 the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature:

Date

12/20/2011

Surveyor's Name:

J. Peter Borbas, P.L.S.

License Number: 24GS03165300

Mailing Address

402 Main Street

Boonton

State

New Jersey

Zip Code: 07005

City/Town: Phone Number

973-316-8743

N/A Ext.:

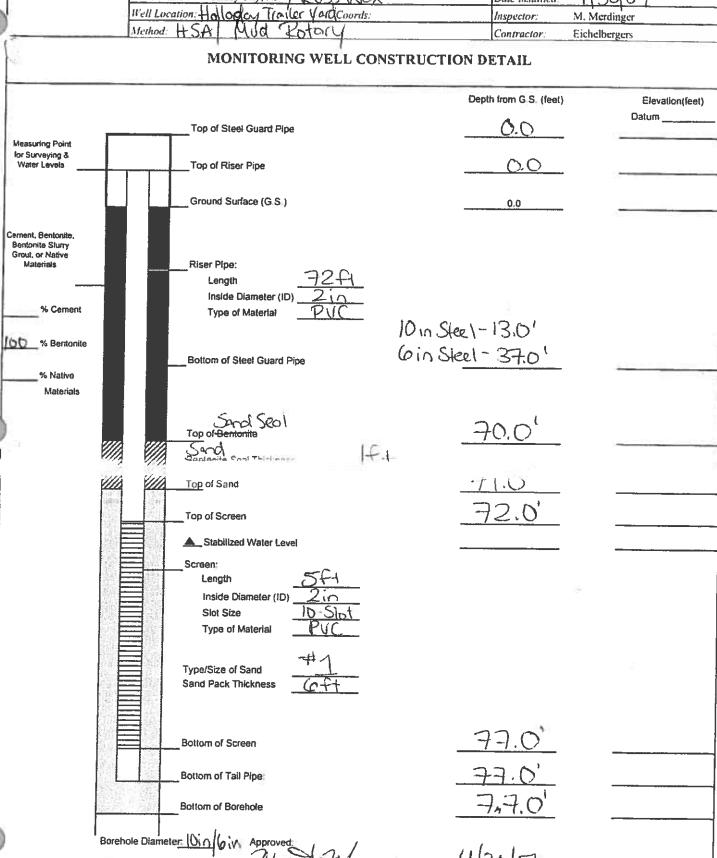
973-402-6627 Fax:

Site Name: PPG Industries (Site 114)

Well Permit Number: 26-00082-877

Well Number: 133-MW1C

	Client: PPG - GAG	WELL ID: 1 C
ACD	Project Number: 05510-109-0504	133-10
BERTANE.	Site Location: Jersey City, NJ / ROSS VNOX	Date Installed: 4 30 5-7
	Well Location: Holloden Trailer VaraCoords:	Inspector: M. Merdinger
	Method: HSA MUD Rotory	Contractor: Eichelbergers
	MONITORING WELL CONSTRUC	



Borehole Diameter: 10:0 6 iv Approved Describe Measuring Point:

Site: Site 133

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/26/2007

13.10 Elevation

State Plane Coordinates

X: 682282.8

Y: 610670.5

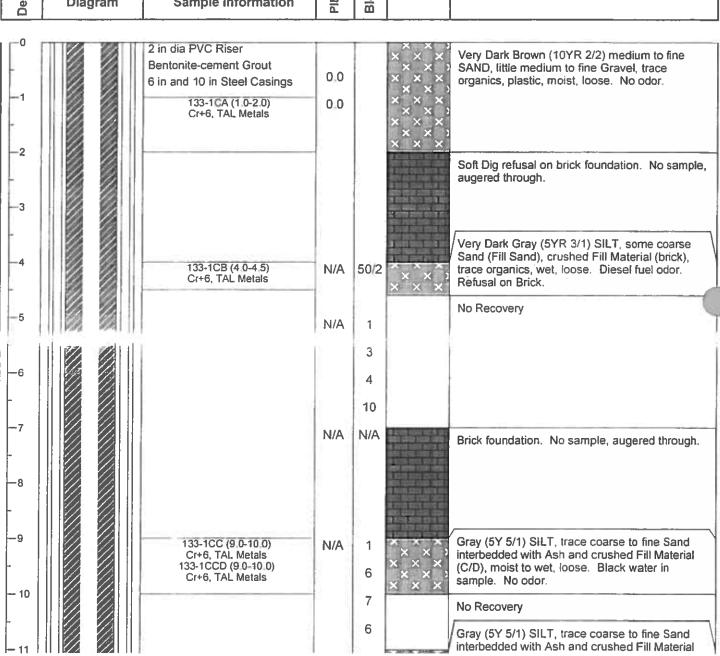
Drilling Method:

HSA/Mud Rotary

133-MW1C

Page: 1 of 7

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
I [-0		2 in dia PVC Riser			XXX	



NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

THIS IS A PRELIMINARY DRAFT. IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ON ASSUMPTIONS. NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED.

Site: Site 133

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/26/2007

Elevation 13.10

State Plane Coordinates

X: 682282.8

Y: 610670.5

Drilling Method:

HSA/Mud Rotary

ENSR AECOM

133-MW1C

Page: 2 of 7

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
- - - 12			N/A	3 4 5	x x x	(C/D), moist to wet, very loose. Black water in sample. No odor. No Recovery
- 13 - - 14		133-1CD (13.0-14.0) MS/MSD, Cr+6, TAL Metals	N/A	4 1 2		Dark Gray (Gley1 4N/0) PEAT, organics, cohesive, very soft, moist. No odor.
— 15 _		133-1CE (15.0-15.5) Cr+6, TAL Metals	N/A	2 2 2		No Recovery Dark Gray (Gley1 4N/0) PEAT, trace organics, cohesive, very soft, moist. Slight sulfur odor,
- 16 - 17		133-1CF (17.0-18.0) MS/MSD, Cr+6, TAL Metals	0.0	2 WH		No Recovery Dark Gray (Gley 4N/0) organic CLAY, little Silt, trace organics and shells, moist, cohesive, very soft. No odor
- 18 - - 19		133-1CG (19.0-20.0)	0.0	1	 1 1	No Recovery
20		Cr+6, TAL Metals 133-1CGD (19.0-20.0) Cr+6, TAL Metals	0.0	1		Dark Gray (Gley 4N/0) organic CLAY, little Silt, trace organics and shells, moist, cohesive, very soft. No odor.
21 22		133-1CH (21.0-21.5) Cr+6, TAL Metals	0.0	1 1 2	1+ 11	No Recovery Dark Gray (Gley 4N/0) organic CLAY, little Silt, trace organics and shells, moist, cohesive, very soft. No odor. No Recovery

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

THIS IS A PRELIMINARY DRAFT. IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ON ASSUMPTIONS NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED.

Site: Site 133

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/26/2007

Elevation 13.10

State Plane

Coordinates

Tr (000)

X: 682282.8

Y: 610670.5

Drilling Method: HSA/Mud Rotary

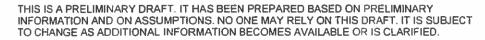
ENSR AECOM

133-MW1C

Page: 3 of 7

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
	162 201		12	2	r :	1
-				3		
- 23		133-1CI (23.0-23.5)	0.0	8		Gray (Gley1 5N/0) very fine SAND amd SILT
		Cr+6, TAL Metals	-	13		trace Clay and medium rounded Gravel, wet medium dense. No odor
- 24			0.0	14		Weak Red (10R 4/3) very fine SAND, some Silt,
-			0.0			trace Clay and fine to medium round Gravel, wet, medium dense. No odor.
- 25				12		No Recovery
			0.0	3		
[_				2		Weak Red (10R 4/3) coarse to fine graded SAND, trace rounded fine Gravel and Silt, wet
- 26			0.0	2		very loose. No odor
				3		No Recovery
-27		133-1CJ (27 0-27 8) Cr+6, TAL Metals	0.0	6		Weak Red (10R 4/3) medium to coarse SAND,
		Cr+6, + AL Metals		7		loose, wet. No odor.
- 28			0.0	5	1	No Recovery
-				6		
- 29			0.0	6		Weak Red (10R 4/3) coarse to fine graded
-				6		SAND, some to little Silt, little medium to coarse rounded Gravel, wet, loose. No odor.
-30			0.0	5		100,100
-				7		No Recovery
-31		133-1CK (31.0-31.5)	0.0	6		Weak Red (10R 4/3) medium to fine SAND and
		MS/MSD, Cr+6, TAL Metals	0.0			SILT, trace fine to medium rounded Gravel, wet, loose. No odor.
-32				5		No Recovery
			0.0	6		No Necovery
			1 %	6		
<u> </u>	12		0.0	6		

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983



Site: Site 133

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/26/2007

Elevation 13.10

State Plane X: 682282.8

Coordinates

Drilling Method: HSA/Mud Rotary

Y: 610670.5

Page: 4 of 7

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
_ 34			0.0	5		Weak Red (10R 4/3) fine SAND and SILT, wet, loose. No odor.
25				6		No Recovery
- 35			0.0	2		Weak Red (10R 4/3) fine SAND and SILT, wet, very loose. No odor.
-36			0.0	4		Weak Red (10R 4/4) SILT, some very fine Sand, wet, loose No odor.
-				5		No Recovery
37			0.0	4		Weak Red (10R 4/4) SILT, little very fine Sand, wet, very loose. No odor,
-38				3		No Recovery
				4		
39			N/A	6		Weak Red (10R 4/4) SILT, little to trace very fine Sand, wet, loose No odor.
40			60	6		N. B
41				7		No Recovery
			0.0	8		Weak Red (10R 4/4) SILT, trace to none very fine Sand, wet, loose. No odor.
- 42			0.0	6 7		Ale Decours
-				9	7	No Recovery
—43			0.0	7		Weak Red (10R 4/4) SILT, trace to none very
- 44			0.0	6 7		fine Sand, wet, loose. No odor.

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Site: Site 133

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/26/2007

Elevation 13.10

State Plane Coordinates

X: 682282.8

Y: 610670.5

Drilling Method: HSA/Mud Rotary

133-MW1C

Page: 5 of 7

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
1 1	800 88 L		£	í.	Herebaston	1
				7		No Recovery
- 45			0.0	4		Weak Red (10R 4/4) SILT, little to trace very fine
				5		Sand, wet, loose. No odor.
46			0.0	6	Franchis of State of	No Recovery
				8		
- 47			0.0	8		Weak Red (10R 4/4) SILT, wet, loose. No odor.
				8		
48			0.0	7		
				8		No Recovery
- 49			0.0	7	*	Weak Red (10R 4/4) SILT, wet, loose No odor
- 50				37	<u> </u>	
			0.0	8		
51				8		No Recovery
			0.0	7		Weak Red (10R 4/4) SILT, trace to none very fine Sand, wet, loose. No odor.
_ 52				6		mie Sand, Wet, 100se, 140 0001
			0.0	6		
53			3	7	4	No Recovery
			0,0	7	$\Xi : \mathfrak{T}$	Weak Red (10R 4/4) SILT, wet, loose. No odor,
_ 54				8		Weak Red (10R 5/4) SILT and little interbedded
			0,0	7		Silty Clay, loose, wet. No odor
				5		No Recovery
<u> </u>			0.0	6	·	Weak Red (10R 4/4) SILT, wet loose. No odor.

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

THIS IS A PRELIMINARY DRAFT, IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ON ASSUMPTIONS, NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT. TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED.



Site: Site 133

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/26/2007

Elevation 13.10

State Plane Coordinates

X: 682282.8

Y: 610670.5

Drilling Method:

HSA/Mud Rotary

ENSR AECOM

133-MW1C

Page: 6 of 7

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
11 1			1	l .	Literapies and the	1
— 56			0.0	5 6		Dark Gray (5YR 4/1) CLAY, some Silt, with trace interbedded Weak Red (10R 5/4) Silt, moist, cohesive, medium. No odor.
				7	San Service Se	No Recovery
57			0.0	3	1111	Dark Gray (5YR 4/1) CLAY and Weak Red (10R
58				4		5/4) SILT, interbedded, firm, cohesive, soft. No odor.
			0.0	4		
-59				4		
			0.0	4	FFF	
-60				7	135	
			0.0	6		Reddish Brown (2.5YR 4/3) interbedded Silty CLAY and SILT, cohesive, medium, moist. No
⊢ 61				5		odor.
			0.0	3		
-62		į		3		
			0.0	5		
— 63				4	 正:エ:エ	
			0.0	6	工工工	
64				6	主主主	
			0.0	6		Gray (5Y 5/1) CLAY, interbedded with trace Weak Red (10R 5/4) Silt and very fine Sand,
65				6		cohesive, medium, moist. No odor.
			0.0	3		Gray (5Y 5/1) CLAY, Interbedded with some
66				4		Weak Red (10R 5/4) Silt and very fine Sand, cohesive, soft, moist. No odor.
- 66			0.0	6		

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Site: Site 133

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/26/2007

Elevation 13.10

State Plane Coordinates

X: 682282.8

Y: 610670.5

Drilling Method: HSA/Mud Rotary

ENSR AECOM

133-MW1C

Page: 7 of 7

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	РЮ (ррт)	Blows/6"	Lithology	Lithologic Description
t			F	6		No Recovery
-67			0.0	9		Gray (5Y 5/1) CLAY, interbedded with some Weak Red (10R 5/4) Silt and very fine Sand, cohesive, medium, moist. No odor
- 68			0.0	27		Weak Red (10R 5/4) SILT, interbedded with Clayey SILT, loose, moist. No odor
-69			0,0	13	· · · · · · · · · · · · · · · · · · ·	Weak Red (10R 5/4) SILT, some fine to coarse sub-angular Gravel, little Silt, trace Clay, wet medium dense. No odor
-70		#00 Sand Seal	0.0	14		No Recovery
		#00 Sand Seal	0.0	12		Weak Red (10R 5/4) SILT, some fine to coarse Sand and fine to coarse sub-angular Gravel, wet, medium dense. No odor.
-71		#1 Sand Filter Pack	0.0	12		No Recovery
-72		2 in dia 10-Slot PVC Screen	0.0	11		Weak 2=1 Same fine to coarse Sand and fine to coarse sub-angular Gravel, wet, medium dense. No odor
				10		No Recovery
-73 -			N/A	12		
-74				10		
				13		
- 75 -			0.0	35		Weak Red (10R 5/4) SILT, some fine to coarse sub-angular Gravel, little cobble-sized Rocks,
- 76			0.0	30 50/3	0-1 0-1	trace fine Sand, moist, dense to very dense. No odor.
				NULL		No Recovery
_77 L						Refusal at 77 ft.

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

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ENIC	RAI	(0)					oup (AOC Orphans)			500000		
	1		<u> </u>		t Number scatton:		05510-109-0504 City, NJ		····	BORING IL	5-7	0
FREPAREI	PIORIER	SONAL USE:	astiiave bee Galy Moone Pledose all	`	inates.			Elevation:		Sheet: of +		
VERNAU	NUMBER	entawa Karamo	ANAHOEI FINA ILABCE OR IS		-		Mud Rotary			Monitoring Well		4
B'eather		AUDIED		Sample	e Type(s)	; Split	Logged By: M. Mettlinger	Boring Diameter: Date/Time Started.		Screened Interva		77-1
Drilling		actor.	Eichelbe	reces			Growd Elevation	Date/Time Finishe		Depth of Boring. Water Level:	7-	7
					Î			112-112	1104101	J. Hart De Vee	_	
Depth (ft)	Geologic xample 1D	Sample Depth (11)	Blows per 6"	Kessovery (anches)	Headspace (ppm)	US.CS	MATERIALS: Colo component(s), moisture c odor,		angularity, may		1.ab Sample ID	Lab Sample Depth (Ft.)
3	1 33 -	7(B)	50/2	0.6	NA		4.0-4.6 Ven Sond (Fill-Sa	Bork Gr	0y (546 red 7711	23/1) SI Moleric	IT, VB.	SC
6		Account of the last of the las	3 4 10	_()_	NA	desilence or secure success	No Become				- *** The Property Control of	
8			NA		NJA		Brick L	oyer -	» -Augs	ered Th	rough	<u> </u>
	9.0	020) (0'0) ()	16	1.0	0.0		9.0-10.0 Granding with the moist to well B	1/575 Ash and lack water	Crustice So-Sich	17. F-C	·Son okriel) ()
	1 ((ATTORN THIS IS A ON PREL RELY ON	FIGT SED AND C EY CLIENT FRELIMIN IMINARY I LIHIS DRA ALION BEC	PRIVILI IARY DE NEORM. ET. IT IS	NSEL	Date fine	Depth to groundwater	while drilling				

ENED MANAGE	Chent: PPG - GAG G						
ENSR ALLON	Project Number	05510-109-0504	BORINGID: 1				
THE METE SARRESSONG LETT AND HAVE BEEN		Clty, NJ					
PARPARED FOR PERSONAL DISEBBLY NO DATE MAY RELY ON THEM FOR ANY PERSONS ALL	Coordinates.		Sheet Lof				
DICESSANDS BECOMES AS ADMINISTRAL DESCRIPTION OF THE PROPERTY	and the state of t		Monitoring Well lustalled:				
CLUBBO	Sample Type(s); Split		Screened Interval:				
B'eather.			Depth of Boring.				
Drilling Contractor: Eichelbe		Ground Floration Date/Time Finished:	Water Level:				
Depth (ft) Geologic sumple ID Sample Depth (ft) Blows per 6*	Recovery (inches) Headspace (ppm) U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONER component(s), molsture content, structure, angularity, maxi odor, and Geologic Unit (If Known)	Lab Sample ID Lab Sample ID Lab Sample Depth (Ft.)				
133-1((U 7 9.0-10,0) 7 1506 6							
3454	0.870.0	II.O-II.G SAA					
13.0-14.6) (13.0-14.6) (1520 (1.410.0 *0.0	13.0-14.4 Dork Gray (Gley 1 organics, Firm, moist, NO.	YNO) PEAT,				
1530 2		-15.0-16:8 SAA, Frace org Sulfur ador.	enics, slight				
33-16 F Woffl -(17.0-18.0) 15/5 N 5/ASD	0.0	[7.0-18.3 Dark Gray (Gley) CLAY, I Silt, t organics on from, Sulfur odor.	(INO) organic d shells, moist,				
133-1(6, 2 -(19.0-200) 1525)	1.3 0.0 0.0	19.0-20.3 SAA	egith to ground a stee white duting				
ATTORNEY CLIENT. THIS IS A PRELIMINA ON PRELIMINARY IN RELY ON THIS DRAF	DATE OF CONTROLL OF TROID AS DEED THE DESCRIPTIONS OF COUNSEL OF C						

	EM	SR M	Ci vi					uup (AOC Oiphans)			
					Site L	et Numbe ocation:		05510-109-0504 City, NJ	BORING ID	-7(
)	PARPAR	ID FOR FOR	ONU LISE O	NDHAVERET INLY NO ONE UUWUK ALL	Coord	inates:			Sheet: 3of		<u> </u>
	18 % 4 K	WATION BIC	HICHANDE? ONLS AVAI	PABLE OF 12	Drillin			Mud Rotary	Monitoring B'ell		Y
	Weath		AJUF: ED		Samps	e Type(s)	e Split		Screened Interval Depth of Boring:		
	Drillin	g Contru	ctor:	Eichelbe	rgers				Water Level:		
	Depth (ft)	Geologic sample (D	Sample Depth (II)	Blows per 6"	Recovery (inches)	Headspace (ppm)	USCS	MATERIALS: Color, size, range, MAIN COMPONE component(s), moisture content, structure, angularity, max odor, and Geologie Unit (if Known)		Lab Sample (D	Lab Nampte Depth (Ft.)
		19.0	106 -20.0 26								
	2, =	{21·d	30 -512 -512	2 2	6.5	00		21.0-21.5 SAA			
	3	33- 23-0 5-	15	3 13 14	1.4	0.0		23.0-23.9 Groy (Gley 1 5N) SILT, trace (lay and in round 6 N/o. 23.9-24.4 Weak Red (IOR4)	w) uf s fracel, n	AND orsa	and s-firm,
	2 6			3 2 2 3		00		25.0-26.6 Wear Red (TORY) Efrand Grovel and Silt, 1	13) C-fo	rode, N	d SANO
*	8	133-1 133-1 133-1 27.0	15 27.8 10 05 27.8 16 27.8	756		0.0		We-27.0-27.8 Weak Red SAND, & Silt, & f-m ran wet, NO.		1	
,	 			6	- , , 	00	- 1	29.0-30.4 Weak Red (10R 4/3 5- L Sitt, I m-c round Grove),) (-fga	edid , N	SAMD,
	NOTES	TI O: RE IN	US IS A F N PRELIM ELY ON T	ED AND CO Y CLIENT PRELIMINA IINARY IN THIS DRAF	ARY DR SEORMA FLITTS	AFT, IT I VIION AS SUBILCT VAILABL	EPARED IAS BEET ID ON A	AT THE REQUEST OF COUNSEL. N PREPARED BASED SSEMPTIONS. NO ONE MAY ANGE AS ADDITIONAL CLARIFIED.	esh laground eater e	nie duling	

ENSR	ALCOM		Projec	t Number		Oup (AOC Orphans) 05510-109-0504	BORINGID:	
	E DNIVINGA E TE A PEUSONAL USE O ERIM POR ANY E	ALY MOONE	Coordi	cation inutes:	Jersey	City, NJ Elevation:	Sheet lof	
1 TAN ARE WITH	CT TO CHECK # : BICOMES AVAI CLUSTED	AN CHOID NA	Detllin	Method Type(s).		Mud Rotary Spoun Boring Diameter: 6-8 inch	Monitoring Well Installed: Y Screened Interval:	-
Weather: Drilling Con	stractor:	Eichelbe	mers	. /	-	Ground Elevation: Date/Time Started: 4 9 6	Denth of Boring Water Level,	
Depth (ft)	2	Blows per 6*	Recovery (inches)	Headspace (ppm)	USCS	MATERIALS: Color, size, range, MAIN COMPON component(s), moisture content, structure, angularity, moder, and Geologic Unit (if Known)		Depth (Ft.)
30		57						
3 ² = 3	3-21CK .0-315 15 MSD 10LD 155	656	8.0	0.0		31.0-31.8 Week Red (lor and SILT, -t-f-m rounded NO.	Grovel, wet, loo	D to
34 =		6 250	13	0.0		33.0-34.3 Week Red (IOR) SICT, wet, loose, N/O.	113) f SAND OX	7
36=	2000 20	2 4 7	1.1.	0.0	-websophing/riteryorin/wa	35.0-359 SAA 35.9-36.1 West Red (106 Vf Sond, Let, loose, N/O.	24/4) SIIT, Son	ne
***************************************		5 5 - 3 5	0.2_	0.0		37.0-37.2 WEEK RED (10R WE +, 10058, NO.	9/4) SILT, R VF	 : S
		6 5	1.2.		-	39.0-40.2 SAA, 1-t V+S	and.	
NOTES:	ATTORNI THIS IS A ON PREL RELY ON	PRELIMIT IMINARY I THIS DRA ATION BEC	CONFIDE I PRIVIL NARY DE INFORM IFT, IT IS	EGED, PR RAFT, IT I ATION A SUBJEC VAILAB	EPARE HAS BE ND ON . T TO CI	Date Tree Date Tree Date Tree Date Tree Date Tree Date Tree	Destrito groundwater while drilling	

		FNIC	D 100	orunt.					roup (AOC Orphans)					
		ENS	R	EGSI			t Numbe		05510-109-0504			BORING IL	3 1	
		печемя	15 AND 184	COMPLETE	NDFIANT IS	<u> </u>	ocation:	Jersey	City, NJ			13	5-	
		MAYREL	YON THE	M FOR ANY A	NIY NO DNE	000712	inutes:			levation:		Sheet Sof		
		STAB, OF	AUTOLICE 1	HICHEWAL,	LABIE OR IS	u Drillin			Mud Rotary			Monitoring Well	Installed:	Y
			CL	ARTHD		Sampl	e Type(s): Split	Spoon B	Boring Diameter: (Screened Interva	l:	
		Weather							Lagged By M. Merdinger D	Date Time Started:	411957	Depth of Boring:	ěl.	
		Drilling	Contro	ictor:	Eichelbe	rgers			Ground Elevation: D	Date/Time Finished	fe i	Water Level:		
		Depth (Ո)	նանգու թույրել և	Sample Depth (11)	Blows per 6"	Recovery (mehes)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, component(s), moisture con odor, as	, size, range, MAI ntent, structure, a nd Geologie Unit	ngularity, maxi	NT, minor imuni grein size	Ol sample ID	Lab Sample Depth (FL)
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					7	1.10	0.0		112 0 141					
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	1.	VATES:	, . ,	* 2	icr-1	<u>, 4</u> [200	2.1-	Mid Rotony		Date Time D	ecth logroundwater y	hte driting	
	- 1 '	NOTES:			ÉD ÁND C Y CLIENT				AT THE REQUEST OF COUNSE	₆₁				
h.			71	fus is a f	RELIMIN	ARY DR	AFT, IT I	HAS BEE	N PREPARED BASED	" <u> </u>				
			0	n Prelik	JINARY II	NFORMA	A ROITA	ND ON A	SSUMPTIONS, NO ONE MAY					
			EN EN	EUT ON I	HON BI C	CAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL COMES AVAILABLE OR IS CLARIFIED.								
				ected by				ecole (3)se:						

ENSR	ALCOM		Client: PPG - GAG Group (AOC Orphans) Project Number: 05510-109-0504						BORING	3-1	
	GE BU ASTEL			cotion.	Jersey	City, NJ			- de-	3	1
MAYRELY C	R PERSONAL US IN THEM FOR AS	N' PURPOSE ALL	CDOLDI				levation.		Sheet Cuf		-
	CECTIONICOS ON BECOSES AS					Mud Rotary			Monitoring We		4
20/ .1	CLAMBIED	-	Sample	Type(s)	; Split		oring Diameter: 6	-8 inch	Screened Interv	ral:	
Weather:		(***.011			-		ate/Time Storted:		Depth of Borin	2	
mune C	ontractor.	Eichelbe		2.0	_	Ground Elevation D	ate/Time Finished	The second	Water Level:	-	
Dcpth (fl)	Geologie sample 1D Sumple Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, component(s), moisture con odor, an		ngularity, maxi		CI) Stample (ID	Lab Sample Depth (FL)
		8									
		7667	1.3	0.0		51.0-52.3 Vf Sand, Le		·			
		7 8 7 1	. ,	0.0		53.0-54.3 V loose, NO. 54.3-54.4 V I mirroudad is				1 1	
	Appear will be a second or	9597	1.5-	0.0	2 541	55.0-55.5 l loose, NO. 55.5-56.5 D w/t interpedd film, N/O.	oork Gr ed Week	Cy (541) Red (10	R4/1) (LAU	is SI moist
		3 4	2.0	0.0		57.0-59.0 D Week Red (108 moist, N/O.	Park Gran	(5YR	ta pagga	LAY d, T	and
		4		0.0							
		L	2.0	00	-	59.0-59.9 5	AA fin	a. mais	1. NIC		
\dashv		'			[2	500 (-) 0			11 4210], [
\dashv		171	10	0.0	-	59.9-61.0 Re	adish t	SLOWU (2.54R	[લીશ્રી)
				<u> ۱</u>							
NOTES:	ATIORY THIS IS: ON PREI RELY O	A PRELIMIN LIMINARY I N THIS DRA	PRIVILE (ARY DR. INFORMA IFT, IT IS !	GED. PRI APT, IT II ATON AN SUBJECT	IAS BEE ID ON A TO CIL	AT THE REQUIST OF COUNSE N PREPARED BASED SSUMPTIONS NO ONE MAY ANGE AS ADDITIONAL CLARIFIED.		Date Tire D	esh to gound water	Culting every	

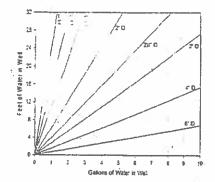
	ENS	RIAIC	rist		Clie	nt. PPG	GAG G	toup (AOC Orphans)	
		•			Cita	ect Numbe		05510-109-0504	BORING 10; 3-1
	CIEF-TRE	FOR PULSO	NAL USE (ONLY NO C	N C	Location: rdinates:	Jersey	City, NJ	
	FULL STARES	はいなくて わき	CHUNG.	PLTHUSE A AS ADDITK	St. Dell		d HSA	Elevation:	Sheet-fof -
	Brosser		MITO ALZ VAN	LANG OR	Samj	nte Typess	: Split	Spoon Boring Diameter: 6-8 inch	Monitoring Well Installed:
	Weather.								Screened Interval: -12-74
	Drilling			Eichel				Ground Elevation: Date/Time Finished:	Water Level
	1_ 1	용	ē	3) ĝ	Ê			
6	Depth (ft)	Geologic sample 113	Sample Depth (ft)	fillows per 6"	Receivery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONE component(s), molsture content, structure, angularity, max odor, and Geologic Unit (If Known)	Lab Sample 10 Depth (Ft.)
· ·				9				Interbedded Silty CLAY and S	UTE
6	, –	Fi.		9		0.0		NO.	Tigm, moist,
				3	20	0.0		610-630 SAA F.	
		İ			12.0	10.0		61.0-63.0 SAA, frm, mo	121, NO.
- 1	, —		- 1	3					
Y)² —		- 1	5		0.0			
Í			- 1			1 1	İ		
,		ı		Ч	1				
(A	3-			-	-	<u>(Q).</u>			
1			- 1	6	120	0.0		63.0-639 (1)	
	-]	Ţ.	63.0-63.9 SAA, moist, firm	', N(0.
d	1			6		0.0].	639-65.0 (sm (545/1) (with + Weak Red (1025/1))	LAY WORCHOLDEN
Ψ			ı	,	ł	0.0		with t Weak Red (102 516)	Silealante
				6			- 1	billy moist, MO	211 ala 01 2019
- 1	\dashv			10	İ	1		· 5 15:01 1 10100	
	2.5	1							' 1 '
		11500		3_	118	0.0		55.0-66.8 SAA, some werk Silt, frm, moist, NIO.	
			93. F	1.				Silt for	(106 P/1)
4	, —	-		4_	-		- 1	Sill Ally Moisi! MO.	
ď				6		0.0	- 1		
				Υ					
	\dashv	-		6					
(b)-2	-			III e e			_		1 1
1	$\overline{}$			7 1	1.91	0.0	16	07.0-68.0 SAA, moist, fra	
	\dashv	ľ		_			7	OD SOLATIMOIST, TYN	~, MO.
(h 8	\neg		'	7	Į		16	100 100, 2 Week Rud LIND -	1/2 / / /
7		1	10	77	ſ	20	10	Herbedded w/ Weok Red (1	7777
			-				S	ILT for march all	Markl) (Inch
	\rightarrow		1	31			6	8.5-68.9 West 18-1	6 - 1 1 1
43		-	-			_	3	12.7, frm, moist, N/O. B.S-68.9 Weak Red (10R 5/4) ub-ang Grove 1, 2514, + (lay, we 9.0-70.0 Weak Red (10R 5/4)	t-coand, sife
	-	1		CP 1	1.0	00	6	9.0-7001 10 0 11 11 WE	1, 10058, NO.
	-		1.	<i>.</i> 1	-		<u> </u>	9.0-70.0 Weak Red (10R 5/4)	125 7512
76	Я		$-H^{\epsilon}$	4		0.0	1/2	and and f-c sub-ang Grove	164 3716
	·					-			
	OTES:	PRIVI	LEGED RNEV	AND CO	ONFIDEN	HAL	A bris :		th to ground water while drilling
		+ 4 9 5 4 6	OWIL	EF1911(4/	1863 DRA	MELLII HA	REFV	T THE REQUEST OF COUNSEL. PREPARED BASED	
1		ONTR	FLIMIII	VYKA IV	FORMA	TION AND	224 2Oc	GE AS ADDITIONAL	
		INFUR	2114110	N BECC	MESAV	Allable	OR IS CI	GE AS ADDITIONAL ARIFIED,	
L		Checked	i by			1)46			

		100	Client	PPG -	GAG G	າວບຸກ (AOC Orphans)						
ENSR	M.1 (75)		Project Number: 05510-109-0504 BORING 1D:									
hESt NORS.	APE INCUMENTALE	AND PAVE REP		cation:	Jersey	City, NJ			133	1		
MANAMOR	A FERSOCAL CIT IN HIEM FOR ANY	DALY NO ONE	Coont				Elevation		Sheet: Rof &	-		
ADMAYAT NI	ON BLOOMES AV	AS ADDITIONAL				Mud Rotary			Monitoria Well Installed	. 4		
_	CLASSED	25	Sample	Type(s)	: Split		Boring Diameter: 6		Screened Interval: 72	77		
Weather: Drilling Co		P1 1 11	199 5			Logicd By: M. Menlinger	Date/Time Started:		Depth of Boring:	7		
		Eichelbe		1 .	_	Ground Elevation:	Date/Time Finished	4265	Water Level:			
Depth (it)	Geologue sample ID Sample Depth (ft)	Blows per 6*	Recovery (inches)	Неэдграсс (прт)	USCS	MATERIALS: Cole component(s), maisture c odor,	or, size, range, MAI ontent, structure, ar and Geologic Unit (ngularity, max	NT, minor limum grain size	Lab Sample Depth (F1)		
		13										
		12										
, =		12. 13 11 10	6.7	0.0		71.0 - 71.7	_ 3AA , L	ret, s-	firm, No			
1-		12 10 11 13	0	NA								
6		35 30 5%		5.0		75.0-76.3 Sf-C sub-a Rocks, t f.	weet Re na Grave Sand, mo	d (TOR 1, l (o	SCI) SICTOBOLE - SICOCA Cm, NO.	Anni Allegger Williams (A. S. S. S. S. S. S. S. S. S. S. S. S. S.		
8					,	Refusal. Set Well	0-1 -7-7	4+. 7+1				
, 												
NOTES:	ATTORNEY THIS IS A F ON PREI IS RELY ON T	'RELIMINA' HNARY INI	RIVILEG RY DRA FORMA I I, 17 IS SI	ED. PREI FT, IT HA TON AND	IS BLEN DON AS TO CHA OR IS C	AT THE REQUEST OF COUNS PREPARED BASED SUMPTIONS, NO ONE MAY NGE AS ADDITIONAL LARIFIED.		ale Time Da	pth to groundwater while drilling			

	ENS	SR AE	ČUM		Client:	PPG - C	GAG (I	roup (AOC Omhans)		BORING ID: PPG -135				
-						i Number cation:		05510-109-0503 City, NJ			BORING II	0:	c	
.(PREFAM	DIDLE PAC	CUAL DISE	WEAL MOONS	Coordi	nales:	30130)	r City, NU Brober Heard Auger	Jeration:		Sheet: of			┨
	VIEW 3 AND BOOK	E MILLECT IN LATER THE	DEHLANT!	AN ADDITIONAL	Drilling	Method	Geop	robe Hund Auger	- Soft	Dies .	Monitoring Weil	Inttalled	l:	
			UUUL	COLUMB	Sample	Type(s):	Acet	ale Liner B	oring Diameter	:-2 inch	Screened Intervo			1
	Weathe		TANKINI						Date/Time Starte		Depth of Boring.			1
	Druius	Contrac		TPI	14.0			Growed Elevation: D	Date/Time Finish	<u>ied: 0i20</u>	Water Lavel:	,]
	Depth (n)	Geologie emple IO	Sample Depth (1)	Blows per 6"	Recovery (section)	Headspace (ppm)	USCS	MATERIALS: Color, component(s), moisture con odor, 40	, size, cange, M ntent, structure ad Geologic Un	angularity, mai	AT, minor imum grain size	Lab Sample ID	Lab Sample Depth (Ft.)	
						6		Drillers hed to Yang few soil son thre seems to b this location.	mples obs	erved. Rev Nick found	otionat			
	2					0,0		very derk brown lille m.f. grovel, 10 iplastic i	n (104R, Irace of	,2/2) m- gonies, me	f sand	133 16A	2.A	1620
	-	100000000000000000000000000000000000000						000		N-				-2-
	6_							15-	29-	.07				
	, -				,				0)					
	9					1								
	10								17.15		_224			
	NOTES:	ATT THE ON REL INFO	FORNEY S IS A P PRELIM JY ON TI	RELIMINAI NARY INF HIS DRAFT	RY DRA ORMAT	ED. PREI FT. IT HA ION ANI UBJECT 1	IS DEED OON AL FOI CRA FOR IS (At the request of counsel n prepared based Ssumptions. No one may inge as additional Clarified.	L.	Date Time D	ten to groundwoler w	ble d'Tirq		

		We ID /33 - MW IC
	Low Flow Ground Water Sample Collection R	ecord C745
		Start. 0930 am/pm
	Project No: COLSYBOL.COSS Site Location. CRISCY CITY N 3	Finish 1100 am/pm
	Weather Conds: Collector(s) M. Merchanger	D Chambeland
	WATER LEVEL DATA: (measured from Top of Casing) a. Total Well Length	asing Diameter/Material
	b. Water Table Depth 4.2 d. Calculated System Volume (see back)	21/11.05
	a. Purge Method. Lon Flow (Grundfor Purp.)	
12.1	b. Acceptance Criteria defined (see workplan) - Temperature 3% -D O 10% - pH + 10 unit - ORP + 10 rnV - Sp. Cond. 3% - Drawdown < 0.84	
	c. Field Testing Equipment used VST - GAI2 C	Serial Number
	(24hr) (Liters) (°C) (uS/cm) (mg/L), (mV) (NTU) (m1/min)	rawdown Color/Odor
		2.40 COC NO ada
	0950 3 14.36 10.13 (557 2.26 713.9 789 200)	5.40 Cler No odor
	1000 5 1637 9 9 7 0.853 1.96 220 2 2.01 200 1	5.40 (lee, No oder
	1010 1 7 1634 9.20 0 895 1 . 30 218 7 8 76 200 15	S.45 Clere No odor
	1015 6 1652 8.42 (6.937 1.16 227.1 5.42 200 5	5.45
	1025 10 1614769 1.009 088 241.2 425 2001	5.45
	d. Acceptance criteria pass/fail Yes No N/A	(continued on back)
	Has required volume been removed	framines on party
	Has required turbidity been reached 💢 🗍 🗍 Have parameters stabilized 🔀 🗍 🗍	••
	Ch 4 10m	
	3. SAMPLE COLLECTION: Method. Dedicated Tebras Prop	
	Sample ID Container Type No. of Containers Preservation Analysis R	eg. Fime 1050
	CMS(MSD) 3 HNC3 CIM TAC	Netal 1050
	Comments Headspace: O.O. ppm Pump Set of 74.5 total	
	Signature Date (02211
	/ "	,

Purge Volume Calculation



Volume /	Linear Ft	of Pipe	l
ID (in)	Gallon	Liter	l
0.25	0 0025	0.0097	ĺ
0 375	0.0057	0.0217	l
0.5	0.0102	0 0386	l
0.75	0 0229	0.0869	ŀ
1	0.0408	0.1544	
1.25	0.0637	0.2413	l
1.5	0.0918	0.3475	l
2	0 1632	0.6178	l
2.5	0 2550	0.9653	l
3	0.3672	1.3900	l
4	0.6528	2.4711	
. 6	1.4688 .	5.5600	

	(continued	Irom (ront)										
		Volume		6			1					
	Time	Removed	Temp	PΗ	Spec. Cond	DO	ORP	Turbidity	Flow Rate	Drawdown	· Co	lar/Odar
	(24 hr)	(Liters)	(°C)		(µ\$/cm)	(mg/L)	(mV)	(NTU)	(ml/min)	(ft)		5
	1035	12	16.27		1.037	1.34	279.5	4.20	200	15,451	('lear	No ada
	1040	13	1623	7.47	1.044	1-36	221.4	4.26	200	5.45	ti	4,1
	1042	15	16.30	12.41	11.059	1.34	1.777.6	4.29	200	3-43	- Is	u
1	1050	CSAM	$O(\frac{1}{2})$	77	KEN	-	MSIMIZ					
7	1100	_	1698	12.45	1.060	0.78	239.4	400.	200	5.45	lc	4
	<u> </u>								-			
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		+ 34										1
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EN	SR AE	COM			PPG - C		oup (AOC Orphans) 05510-109-0503			BORING I	p. PP	S-13
PER MAKES				-			City, NJ			DOMESTIC I	1-1	C.
PREPAR	ED FOR PEAS	CONAL USE O	MULIAVE REEN HOURS YOUR			201303		Elevation:		Sheet: of		
VIEWS AN	EMPLECT	DEMANCE A	AT ALLDITHOUGH.			Gree	note Hund Auger	- Saft Die		Monitoring Well Installed:		
BOOK	CALL STREET, S	ONES AVAN	CASLEGRIS	Sample	Type(s):	Acet		loring Diameter: -2-in				
Weath	er:	******		27.011.57				Date/Time Started:		Depth of Baring		
Drittin	g Contra	clor:	TPI					Date/Time Finished:		Water Level:		
Depth (fl)	Geologie sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, component(s), moisture con	, size, range, MAIN	COMPONE	NT, minor	Lab Sample ID	Lab Sample Depth (Ft.)
-	8	Sa	a	Rec	H		Drillers heel to	ctop at.	about 2	2ft depth.	77.	2.5
							Drillers hool to Yeng few soil so there seems to b this location.					
2					20		very clock brown little m. I grove !	n (104R, 2 , India organ , fill.	./2) m- nies. mo	f sAND ist, lave	133 10A	2,4
'=		_					ROD		_	>		
6							15	-29-	07		(X	34
* -	i i				/	/		BE				
9								0.	ata Time (Depth to groundwaler	while drilling	
NOTES	T	TTORNE HIS IS A ON PRELI KELY ON	PRELIMIN MINARY II THIS DRAI	PRIVILE ARY DR NFORMA FT. IT IS	GED, PR AFT. IT I STION AN SUBJECT	IAS BE ND ON . I TO CE	D AT THE REQUEST OF COUNSI EN PREPARED BASED ASSUMPTIONS, NO ONE MAY LANGE AS ADDITIONAL G CLARIFIED.					

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ENSR	ALCOM		-	PPG - G Number:	-	oup (AOC Orphans) 05510-109-0504	BORINGID	. 1	0
ESE NOTES AN	G. INCKAGLET	AND HAVE BEEN	Site Loc	ration:	Jensey	City, NJ	13,3		
CEPARED FOR	PERSONAL USE THEM FOR ANY	ONLY NOONE	Coordin	And in case of the last of the		Elevation:	Sheet: of		
WS ARE SULL	ECT TO CHANG N BECOMES AV	EAN ADDICTIONAL	-			Mud Rotary	Monitoring Well I	-	422
CONTRACTOR OF THE PERSON NAMED IN	CLANITIO	MINTER EXCESSES.	Sample	Type(s):	Split		Screened Interval	14	77-1
eather:	Service Service	0.0100000100	WEST?		_	Logged By: M. Mendinger Date/Time Started: 419 St	Depth of Boring:	7	1
illing Co.		Eichelbe				Ground Elevation: Date/Time Finished: 4 26 6	Water Level:		
(ii) index	Geologic sumple ID Sample Depth (ft)	Blows per 6"	Recovery (arches)	Headspace (ppm)	USCS	MATERIALS: Color, size, range, MAIN COMPONE component(s), moisture content, structure, angularity, ma- odor, and Geologic Unit (If Known)		Lab Sample ID	Lab Sample Depth (Ft.)
	3-10 10-45 450	50/2	0.6	*N/A		4.0-4.6 Very Dark Groy (54) Sand (Fill Sand), crushed Fill trace organics, well, loose, Diese	R3/1) SI Moleria	ET,	S C
	456	1	0	NA		No Perovery	I toel ca	00.	
-		3		! !		- Extorery			
-			-						
-		4							
-									
		10							
TELEVISION		0,559				and the second s			
		MA		NA		Brick Loyer -> - Aug	ered Th	roug'	h
						_			7.00
_(a	33-110 10-1010 1505		1.0	0.0		9.0-10.0 Gray (5451). SICT into bedded of Ash and crushed moist to wet, Black water, soften	d Fill M	San	(c/
NOTES:	ATTO THIS I ON PR RELY	S A PRELIM ELIMINARY ON THIS DE EMATION BI	NT PRIVII INARY D I INFORM MFT. IT I	ENTIAL EGED, R RAFT, IT (ATION / S SUBJECT AVAILAB	HAS B	Date Time ED AT THE REQUEST OF COUNSEL. EEN PREPARED BASED N ASSUMPTIONS, NO ONE MAY THANGE AS ADDITIONAL. IS CLARIFIED.	Bepth to groundwater	while drill n	19

	ENSR MICOM				PPG - 0	GAG G	V25V25V50V50V5V5V 7C.50					
EN	SR	ECOM		Projec	t Number		05510-109-0504	BORINGIDS - 1C				
DESC SO	TES ARED	COMPLETE A	SOUVEREN	Site Lo	cation:	Jersey	City, NJ	13	5-	L		
MAYRE	LV ON THE	BONAL USE O	ONLY MOONE	Coord	inates:		Elevation:	Sheet: Lof	THE PERSON NAMED IN			
VIEWS AR	ESCRECT		AS ADDITIONAL				Mud Rotary	Monitoring Well Installed:				
150055		LARIFIED	Delt on is	Sample	e Type(s):	Split	Spoon Boring Diameter: 6-8 jnch ,	Screened Interva	d:	229.00		
Weathe							Logged By: M. Meedinger Date/Time Started: 4 19 57	Depth of Boring:	5			
Drillin	g Contr	actor;	Eichelber	gers	S Ground Elevation: Date/Time Finished: Water Level:							
Depth (ft)	Geologic sumple ID	Sample Depth (ft)	Blows per 6*	Recovery (inches)	Hendspiece (ppm)	uses	MATERIALS: Color, size, range, MAIN COMPONE component(s), moisture content, structure, angularity, may odor, and Geologic Unit (If Known)		Lab Sample ID	Lab Sample Depth (Ft.)		
ے ا ا	133 (9.0 15	1(()	6	00	**		11.0-11.6 SAA					
2			3454	O.B	0.0		Ind- the SAIX					
\4	MS	50 NNSD 14.9	1 ,	14	0.0 6.0		13.0-14.4 Dork Gray (Gley) organics, Firm, moist, NO.	11/0)	PEA	τ,		
6	150	10E 88	2 2	1.8	NA		15.0-16.8 SAA, -troce org	enics,	Sligi	1+		
(7	133 (17:0 15: MS	1CF -180) 5 145D	Moth I S	13	0.0		(7.0-18.3 Dark Gray (Gley) CLAY, & Silt, Y organics or firm, Sulfur odor.	1NO nd shells) ore	anio St,		
) 	133-	(C)	1	1.3	0.0		19.0-20.3 SAA					
NOTES		ATTORN THIS IS A ON PREL RELY ON	EY CLIENT PRELIMIN IMINARY D THIS DRAI ATION BEO	PRIVIL ARY DI NFORM FT. IT IS	EGED, PR RAFT, IT I ATION AN SUBJECT VAILABI	EDAREI (AS BEI (D ON /	31166 11 3	Depth to groundwater v	while drilling			

ENS	RAF	COM		V-14 (24 (4.1 / 150 ft))	PPG - C		oup (AOC Orphans) 05510-109-0504	HORINGID:			
DESCRIPTION	TO ARE DE	CAGLETE AN	OHAVERED	Site Lo	cation:	Jersey	City, NJ		133		
PARPARE	DIGRIER		NLY NO ONE	Coordi	nates:		Elevation;		Sheet: 3of		
YEWNARD	stauct1	DCHOOLEA	SADERD WAS	Drilling	g Method	HSA	Mud Rotary		Monitoring Well	Installed:	V]
SHORE		OMES AVAIL ARIFIED	ABLEORIS	Sample	Type(s):	Split	Spoon Boring Diameter	: 6-8 inch ,	Screened Interval:		
Weathe	*						Logged By: M. Merdinger Date/Time Starte	ed: 4 19 07	Depth of Boring:		
Drilling	Contro	tctor:	Eichelbe	rgers		, - L	Ground Elevation: Date/Time Finis.		Water Level:		
	9	8	100	20	6					120	
(i) quiber	Geologie sumple ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	US.C.S	MATERIALS: Color, size, range, M component(s), moisture content, structure odor, and Geologic Un	, angularity, mas		Lab Sample ID	Lub Sample Depth (Ft.)
0	(19,0	16 26 36									
2	21.0	30 30 3012	1223	6.5	60		21.0-21.5 SAA				
3	133-	1CT	6								
-	A Committee of the	100000000000000000000000000000000000000	-X	1.4	0.0		23.0-2306 (11	1	1700		70
-	(23.0)	-	>)	10	3		23.0-23.9 Gray (Gl SILT, troce (lay and	ey I DN	O)ut S	AND	and
		45	13		15		SILT, troce Clay and	m and	Sea el	a see	5 6
-	5-0	YAY			0.0		NO.	i i boilet	Stoce II W	10121	2-13
-		101	14		-						
			A. SEV.				23.7-24.4 Week Po	of Close a	2) VF.5	CHAP	00
2			12				23.9-24.4 Weak Re Eclay and from round	1 100	1010.00	man	1001
5			16-				I and w would	Grove!	wet, lous	E. N.	0.
			2	11			0=0			185	
			3	1.60	00		25.0-26.6 Wear P	od (IDP)	1/3/1.5	0	15
		1	2				+ = 16	COL	112/6-1	Juca	CIO
6			_		00		25.0-26.6 Weak Ret france or	nel Silt	wet loss	e. NI	0
			2		00				.,,,) ,	
100						d.					
7.			3								
. —			850								
-	120	200	1	20	0.0	1	He 230-220				
-	133-			0.0	O.O		C 21.0-2-1.8 We	ok (Ked	(loR ull	3) 1	0-6
	24.0	-27.	57				DAND, SSIH. OF	-100	1.1.	- , .	, ~
-	00	40	7		00		We 27.0-27.8 WE SAND, & SIH, & F Wet, NO.	TOUR	aca Gre	vel.	1005
8	rto	LD	5		0.0		wer, MO.		9 (50	7	W.J.341
-	133-	10:20	~)		i ii						
/	270	1-27.9	0								
	00	WI	0								
,	_1	OLD.									
			6	14	0.0		29.0-30.4 Weak Ped S-LSitt, I m-c rowe	TIME UIT	1	-	C
			U	No. 1			c o com o	CION AL	7(-+ 9	redica	MIX
			1				J-KOIH, KM-C rouse	d Grove 1	wel loos	e No	0
5			0		0.0		The state of the s	Week - SOS OF INC.	1,100,	110	
1	- 4	(- < x	n-+	-111	201	2	Nud Dat	Date Time	Depth to groundwater	a little elective in	
NOTES	. 7	PRIVILE	ED AND	CONFIDE	NHA	0-1	Mud Rotery	129.9 17010	neph to groundwater	natio drilling	
HARBITA							AT THE REQUEST OF COUNSEL				
							EN PREPARED BASED				- 3
							ASSUMPTIONS, NO ONE MAY IANGE AS ADDITIONAL				
							CLARIFIED.				-
		Checked by				Dice					

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	1	7	14	0.0	15	53.0-54.3 Wear Red (IDR)	પાવ) ડાા	t, vet.
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	-	5	1.5	0.0		55.0-55.5 Weak Rook (10R		
		567		0.0		Toose, NO. 55.5-56.5 Dork Gray (5) W/ Interbedded Week Red (firm, N/O.	1R4/1) (10R5/4)	LAU, SS Siltimois
		3	2.0	6-0	1152.5	57.0-59.0 Dark Gray (54) Weak Red (108.5/4) SILT, 10 moist, N/O.	Haragge 6 (11)	LAY and
		4		0.0				
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New Jersey State Department of Environmental Protection Bureau of Water Allocation and Well Permitting Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201317206

PROPERTY OWNER: N/A CITY OF JERSEY CITY														
PROPERTY OWNER: N/A CITY OF JERSEY CITY Company/Organization: City of Jersey City														
1 ,		-	•											
Address: 280 Grove St Room B-5 Jersey City, New Jersey 07302														
WELL LOCATION: PPG Industries														
Address: Caven Point Ave County: Hudson Municipality: Jersey City Lot: 1 Rlock: 24301														
County: Hudson Municipality: Jersey City Lot: 1 Block: 24301														
Easting (X): 610580 Northing (Y): 682201 DATE WELL STARTED: November 26, 2013														
Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: November 27, 2013														
WELL USE: MONITORING														
Other Use(s): Local ID: 133-MW3A														
WELL CONSTRUCTION														
Total Depth	Drilled (ft.):	15	Finished We	ll Depth (ft.):	15	Well Surface: Flus	h Mount							
Depth to Depth to Diameter Top (ft.) Bottom (ft.) (inches) Depth to Diameter Top (ft.) Bottom (ft.) (inches) Wgt/Rating/Screen # Used (lbs/ch no.)														
Borehole 0 15 8														
Casing 0 10 2 PVC sch 40														
Screen 10 15 2 pvc .10														
Depth to Depth to Outer Inner Material Top (ft.) Bottom (ft.) Diameter (in.) Diameter (in) Bentonite (lbs.) Neat Cement (lbs.) Water (gal.)														
Grout	Top (ft.)	8	8	2	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)							
Gravel Pack	8	15	8	2		medium sand	<u> </u>							
Grouting Met	hod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: Holl	ow Stem Augers								
Protective Ca Static Water I Water Level I Well Develop	Level: 8 ft. be Measure Tool: oment Period: evelopment: pu	elow land surfa m scope 1 hrs.	ce	Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft Iling Fluid: <u>na</u> Il Rig: <u>mobil drill b</u> alth and Safety Plan	<u>80</u>								
GEOLOGIC														
	T - Other blac	k top , sand-silt mixt	uras 2in nyo											
		sand-silt mixt												
	<u> </u>	s, sand-silt mix												
ADDITION	AL INFORMA	ATION:												

Company: SGS NORTH AMERICA INC.

Thomas Lynch,

Driller of Record: MONITORING LICENSE # 435631

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Well Permitting Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number **E201317206**

WELL PERMIT

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 which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: WESLEY M EICHFELD, MASTER	LICENSE # 592848	
Permit Issued to: SGS NORTH AMERICA INC.		
Company Address: PO BOX 423 WEST CREEK, NJ	08092	
PROPERTY OWNER		
Name: N/A CITY OF JERSEY CITY		
Organization: City of Jersey City		
Address: 280 Grove St Room B-5		
City: Jersey City State: New Jers	ey Zip Code: <u>07302</u>	
PROPOSED WELL LOCATION		
Facility Name: PPG Industries		
Address: Caven Point Ave		
County: Hudson Municipality: Jersey City	Lot: 1 Block: 24301	
Easting (X): 610580 Northing (Y): 682201 Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: 133-MW3A	
SITE CHARACTERISTICS		
SITE CHARACTERISTICS		
PROPOSED CONSTRUCTION		
WELL USE: MONITORING	Other Use(s):	
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings:	
Depth (ft.): 50	Case ID Number:	
Pump Capacity (gpm): 0	Deviation Requested: N	
Drilling Method: Mud Rotary		
Attachments:		
SPECIFIC CONDITIONS/REQUIREMENTS		

Approved by the authority of: Bob Martin

Approval Date: November 19, 2013

Expiration Date: November 19, 2014

Commissioner

Bureau of Water Allocation and Well Permitting

Terry Pilawski, Chief

Well Permit -- Page 1 of 2

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201317206

WELL PERMIT

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit.

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-11

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

ATTACHMENT 2

Photolog

Phase 3B South Photo Log

Photo 1 (Left): Facing north. Location of well 10W-MW101S post-excavation.

Photo 2 (Right): Close-up facing north. Location of well 10W-MW101S post-excavation.





Photo 3 (Left): Facing northeast. Location of well 10W-MW102S post-excavation.

Photo 4 (Right): Close-up facing northeast. Location of well 10W-MW102S post-excavation.





Photo 5 (Left): Facing Northeast. Location of well 10W-MW105I postexcavation.

Photo 6 (Right): Close-up facing Northeast.
Location of well 10W-MW105I post-excavation





Photo 7 (Left): Facing Northeast. Location of well 132-P3A-MW3 postexcavation. 132-P3A-MW3 remains in place.

Photo 8 (Right): Close-up facing northeast. Location of well 132-P3A-MW3 post-excavation. 132-P3A-MW3 remains in place.





Photo 9 (Left): Facing west. Location of well 132-P3A-MW3 post-restoration.

Photo 10 (Right): Facing west. Location of well 132-P3A-MW3 post-restoration.





Photo 11 (Left): Facing east. Location of well 132-P3A-MW4 post-excavation.

Photo 12 (Right): Closeup facing east. Location of well 132-P3A-MW4 post-excavation.





Photo 13 (Left): Facing Northeast. Location of well 132-P3A-MW105I post-excavation.

Photo 14 (Right): Closeup facing Northeast. Location of well 132-P3A-MW105I post-excavation.





Photo 15 (Left): Facing Northeast. Location of well 133-MW1C postexcavation.

Photo 16 (Right): Closeup facing Northeast. Location of well 133-MW1C post-excavation.





Photo 17 (Left): Facing east. Location of well 133-MW3A post-excavation.

Photo 18 (Right): Closeup facing east. Location of well 133-MW3A postexcavation.





FIGURE 1

Site Plan

