#### **Appendix C**

#### Well Records and Decommissioning Reports

- C-1 Wells Previously Decommissioned Per 2010 Well Decommissioning Letter Report
- C-2 Well Decommissioning Records for Wells Decommissioned During Remediation
- C-3 Well Permits and Decommissioning Records for Wells Installed and Decommissioned During Remediation
- C-4 Wells Decommissioned via a Request for Alternate Decommissioning

  Note:

In some cases, the well ID is a variant of the well ID in the permit or decommissioning record. In these cases, the well permit number should be used to identify the associated permit or decommissioning record.

Remedial Action Report – Site 114	4 (AOC 114-1A, AOC 114-2,	AOC 114-3, AOC 114-4A, A	AOC 114-4B, and AOC 114-5	5) Soil
Garfield Avenue Group				
PPG, Jersey City, New Jersey				

C-1 Wells Previously Decommissioned Per 2010 Well Decommissioning Letter Report

#### Appendix C-1

#### Wells Previously Decommissioned Per 2010 Well Decommissioning Letter Report Site 114, Garfield Avenue Group PPG, Jersey City, New Jersey

Well ID	Permit Number	Phase	Purpose
F-1	NA	IRM #1	Gauging
F-2	NA	IRM #1	Gauging
F-3	NA	IRM #1	Gauging
F-4	NA	IRM #1	Gauging
F-5	NA	IRM #1	Gauging
F-6	NA	IRM #1	Gauging
MW2A (PPG-114-2A)	2600069765	IRM #1	Monitoring
MW2B (PPG-114-2B)	2600069769	IRM #1	Monitoring
MW9A (PPG-114-9A)	2600076991	IRM #1	Monitoring
MWP1 (PPG-7-P1)	2600071097	IRM #1	Monitoring
NW-2	NA	IRM #1	Gauging
NW-4	NA	IRM #1	Gauging
PZ-10	2600077024	IRM #1	Piezometer
PZ-11	2600077025	IRM #1	Piezometer
PZ-12	2600077026	IRM #1	Piezometer
PZ-13	2600077017	IRM #1	Piezometer
SW-2	NA	IRM #1	Gauging
WW-1	NA	IRM #1	Gauging
WW-2	NA	IRM #1	Gauging
WW-3	NA	IRM #1	Gauging
WW-4	NA	IRM #1	Gauging
EW-1	NA	Phase 1A	Extraction
EW-2	NA	Phase 1A	Extraction
F-7	NA	Phase 1A	Gauging
MW6A (PPG-114-6A)	2600069767	Phase 1A	Monitoring
MW6B (PPG-114-6B)	2600069776	Phase 1A	Monitoring
PZ-6	2600077020	Phase 1A	Piezometer
PZ-7	2600077021	Phase 1A	Piezometer
PZ-3	2600776981	Phase 1B	Piezometer
PZ-4	2600077982	Phase 1B	Piezometer
PZ-5	2600077019	Phase 1B	Piezometer
SW-1	NA	Phase 1B	Gauging
SW-3	NA	Phase 1B	Gauging
SW-4	NA	Phase 1B	Gauging
NW-1	NA	Phase 1C	Gauging
NW-3	NA	Phase 1C	Gauging
PZ-9	2600077023	Phase 1C	Gauging
PZ-14	2600077018	Phase 1C	Gauging
MW11A (PPG-114-11A)	2600076988	Phase 2B-1	Monitoring

#### Notes:

Additional information on the decommissioning of the wells listed in this table is provided in the attached Well Decommissioning Letter Report (AECOM, 2010c).

IRM - interim remedial measure

NA - wells used for ground water gauging purposes only, no well permit number available.



732-564-3600 tel 732-369-0122 fax

May 3, 2010

**A**=COM

#### Via electronic mail

Mr. Michael McCabe McCabe & Associates 4 Normandy Drive Chadds Ford, PA 19317

**RE: Well Decommissioning** Site 114 - 900 Garfield Avenue **PPG Judicial Consent Order - Chromium Program Hudson County, New Jersey** 

Dear Mr. McCabe,

On behalf of PPG Industries (PPG), AECOM is providing a summary of the completed well decommissioning activities at Site 114 as described in the February 2010 Interim Remedial Measures (IRM) Work Plan #1 (IRMWP #1). This work was performed as part of PPG's Hudson County, New Jersey Chromium Program in accordance with the March 17, 2010 Proposed Well Decommissioning letter. This letter report also addresses comments received from Weston regarding the March 17, 2010 Proposed Well Decommissioning letter; the inconsistencies between the text, table, and figure have been resolved. A revised table and figure are provided with this letter report.

On April 8-9, 2010, a New Jersey licensed drilling subcontractor, East Coast Drilling Inc. (ECDI), mobilized and performed well decommissioning activities at Site 114 under the supervision of an AECOM representative. The field work was conducted according to the PPG Program Health and Safety protocols. A site walk was conducted prior to any intrusive activities to identify the well to be abandoned. During the site walk, two wells (D-1 and PZ-8) were found to be previously abandoned from other site activities. During well decommissioning, equipment was staged on polyethylene sheeting. All wastes that were generated (solid and liquid) were drummed in two USDOT approved 55-gallon drums and staged on a small drum pad located in an area near former piezometer, PZ-9. The drums were properly labeled and will be manifested offsite to a regulated disposal facility in the future.

All decommissioning activities were conducted in accordance to New Jersey Administrative Code (N.J.A.C.) 7:9D by a New Jersey licensed driller. All wells were abandoned in place; no wells were removed from the site. The flush-mounted piezometers (PZ-3, PZ-4, PZ-5, PZ-6, PZ-7, PZ-9, PZ-10, PZ-11, PZ-12, PZ-13, and PZ-14) and 3/-inch diameter flush-mounted wells (EW-1, EW-2, F-1, F-2, F-3, F-4, F-5, F-6, F-7, SW-2, SW-4, WW-3, NW-1, NW-2, NW-3, and NW-4) were backfilled with Bentonite chips, then sealed to grade with a cement grout. The 3/4-inch diameter wells (SW-1, SW-3, WW-1, WW-2, and WW-4) were backfilled with Bentonite chips prior to removing the above ground protective casing. After the protective casing was removed, the PVC well casing was cut to below grade and sealed with cement grout. The two-inch and eight-inch wells (PPG-7-P1, PPG-114-2A, PPG-114-2B,

AECOM 2

PP-114-6A, PPG-114-6B, PPG-114-9A, and PPG-114-11A) were grouted in place via tremie pipe and t-connection. The PVC casing was filled with cement grout from the bottom, which displaced the water into a five-gallon bucket that was later transferred into a 55-gallon drum. A whale pump and bailer was used to remove the displaced water in PPG-7-P1 because the t-connection could not be connected to the eight inch casing. The wells were filled with cement grout until all of the water was removed. The PVC casing was then sealed with cement to grade. A final site walk was conducted, which at that time, any cement that settled to below grade was topped off.

Figure 1 (Well Abandonment Locations) depicts the locations of the wells that were abandoned within the general IRM#1 and IRM#2 areas. Figure 1 has been revised from the March 17, 2010 submission to include previously abandoned wells, D-1 and PZ-8. The table below provides a complete list of all of the wells that were abandoned during the well decommissioning activities performed on April 8 and 9, 2010.

Well ID	Well Permit Number	Original Well Depth (ft)	Actual Well Depth (ft)*	Screen Interval Depth (ft)	Well Type	Well Diameter (in)
PPG-7-P1	26-00071-097	10	9.5	5 to 10	Flush	8
PPG-114-2A	26-00069-765	10	10.2	5 to 10	Flush	2
PPG-114-2B	26-00069-769	26	24.6	16 to 26	Flush	2
PPG-114-6A	26-00069-767	15	14.0	5 to 15	Flush	2
PPG-114-6B	26-00069-776	31	31.85	21 to 31	Flush	2
PPG-114-9A	26-00076-991	17	17.0	3 to 17	Flush	2
PPG-114-11A	26-00076-988	16	16.4	4 to 16	Flush	2
PZ-3	26-00076-981	16	NG	1 to 16	Flush	3/4
PZ-4	26-00077-982	16.5	14.4	1.5 to 16.5	Flush	3/4
PZ-5	26-00077-019	18	17.3	13 to 18	Flush	3/4
PZ-6	26-00077-020	18	17.6	13 to 18	Flush	3/4
PZ-7	26-00077-021	17	16.4	7 to 17	Flush	3/4
PZ-9	26-00077-023	15	13.55	10 to 15	Flush	3/4
PZ-10	26-00077-024	19	15.3	14 to 19	Flush	3/4
PZ-11	26-00077-025	18	17.4	13 to 18	Flush	3/4
PZ-12	26-00077-026	18	16.65	13 to 18	Flush	3/4
PZ-13	26-00077-017	17	14.45	12 to 17	Flush	3/4
PZ-14	26-00077-018	20	17.7	15 to 20	Flush	3/4
EW-1	NA	13.5	8.0	10.5 to 13.5	Flush	3/4
EW-2	NA	16.3	3.65	10.5 to 13.5	Flush	3/4
F-1	NA	16.5	6.45	10.5 to 16.5	Flush	3/4
F-2	NA	16	6.65	10.5 to 16.0	Flush	3/4
F-3	NA	16	6.4	10.5 to 16.0	Flush	3/4
F-4	NA	16.2	5.35	10.5 to 16.0	Flush	3/4
F-5	NA	16.1	6.6	10.5 to 16.1	Flush	3/4
F-6	NA	16.2	6.7	10.5 to 16.1	Flush	3/4
F-7	NA	16.2	7.0	10.5 to 16.2	Flush	3/4
SW-1	NA	13	6.0	10.5 to 13	Stick-up	3/4
SW-2	NA	16.1	6.7	10.5 to 16.1	Flush	3/4
SW-3	NA	15.8	4.35	10.5 to 15.8	Stick-up	3/4
SW-4	NA	16.1	6.7	10.5 to 16.1	Flush	3/4
WW-1	NA	4	7.8	1 to 4	Stick-up	3/4
WW-2	NA	4	7.9	1 to 4	Stick-up	3/4

AECOM 3

Well ID	Well Permit Number	Original Total Well Depth (ft)	Actual Well Depth (ft)*	Screen Interval Depth (ft)	Well Type	Well Diameter (in)
WW-3	NA	5	5.5	1 to 4	Flush	3/4
WW-4	NA	10.8	9.5	9 to 10.8	Stick-up	3/4
NW-1	NA	15.9	6.4	10.5 to 15.9	Flush	3/4
NW-2	NA	16.2	7.0	10.5 to 16.2	Flush	3/4
NW-3	NA	14.3	5.4	10.5 to 14.3	Flush	3/4
NW-4	NA	16.1	5.95	10.5 to 16.1	Flush	3/4

NA – These wells were non-permitted wells and were used for groundwater gauging purposes only.

NG – Not gauged due to well damage.

The majority of the decommissioned shallow wells were all located within the IRM #1 and IRM #2 areas. Since these areas are anticipated to be excavated to below the upper level of the screened interval of the wells, all wells located within this shallow aquifer zone were required to be properly decommissioned. Wells WW-1, WW-2, WW-3, WW-4, PPG-114-2A, and PPG-114-2B located between Garfield Avenue and the west side of the 900 Garfield Avenue foundation (see Figure 1) are within an area where shoring will be installed. These wells were decommissioned due to the potential for damage during the installation of the shoring associated with IRM#1 activities. The shallow wells located adjacent to the IRM#1 and IRM#2 areas (SW-1 and SW-3) were also decommissioned due to the potential for damage during the excavation. The piezometers located on Dakota Street (PZ-3, and PZ-4) were damaged beyond repair as a result of snow removal activities this past winter. The damage to the wells is also attributable to weekly tanker load out activities (for the seep collection system). Both wells required proper decommissioning. Piezometer PZ-3 could not be located. The protective casing and concrete pad associated with PZ-3 was found to be completely dislocated from the casing of PZ-3. An attempt was made to expose the casing of PZ-3 by hand digging to approximately two feet in depth at the location where the protective casing concrete pad was previously installed; however, the well was unable to be not found. The hole was then grouted to the surface by the driller.

During the decommissioning activities, the depth to bottom of the wells were verified with an water level indicator to confirm the well identification and to compare the actual depth to the depth shown on the construction records. Well abandonment reports for the decommissioned permitted wells (with the exception of PZ-3 because the well was not found) have been completed and filed with the Bureau of Water Systems and Well Permitting by the driller. Copies of the Well Abandonment Reports are included herewith. The unpermitted piezometers (see table above) were used for groundwater gauging purposes only and do not require an abandonment report from the driller.

All remaining Site wells will be protected to the extent possible during remedial activities. Specifically, the following deep and bedrock wells within the footprint of the IRM#1 and #2 excavation areas will remain in place and will, therefore, require protection: MW-6C, MW-6D, MW-9B, MW-9C and MW-11B. Prior to construction activities, these will be circled with high visibility spray paint and marked with a high visibility sign post. The field engineer will closely supervise excavation activities to ensure excavator operator care is taken not to impact the wells while excavating near and around the wells. The field engineer will determine whether any well requires support, removal or other action (e.g., cut casing down to grade, or abandonment) and appropriate permits will be secured and actions taken as necessary. Additional well protection measures are outlined in IRMWP#1.

<sup>\* -</sup> Depth of well measured on date of well decommissioning.

AECOM 4

If you have any questions or comments, please contact either of the undersigned. Thank you.

Yours sincerely,

Hue Quan, P.E. Project Engineer

Scott H. Mikaelian, P.E Program Manager

CC:

M. Merdinger, AECOM

D. Claassen PPG

B. McGuire PPG

M. Terril, PPG

Hulbren

B. McPeak, PP LLC

Attachments:

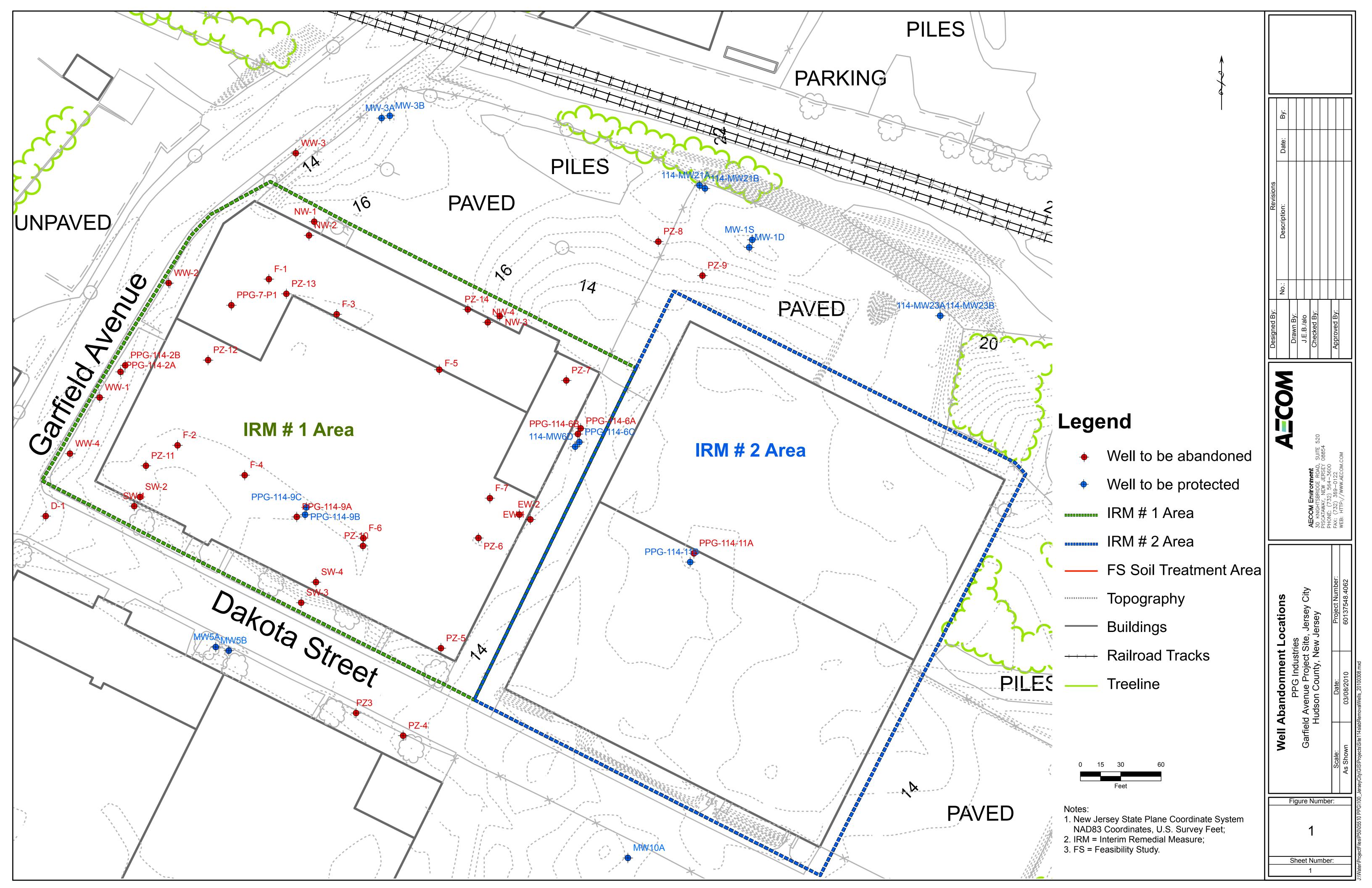
1) Figure 1 Well Abandonment Locations

2) Well Abandonment Reports



# ATTACHMENT 1

**Figure 1 Well Abandonment Locations** 





# ATTACHMENT 2 Well Abandonment Reports

DWR-020 9/05

#### New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems & Well Permitting

V Like and L. W.			L was a series of	21 0007 109
MAIL TO: Bureau of Water Systems & Well Permitting			WELL PERMIT #	of well seale
PO Box 426 Trenton, NJ 08625-0426		DATE WELL SE	ALED 4-9-/	0
PROPERTY OWNER PPG Industr	ies, Inc			
ADDRESS 4325 ROSana DRI	ue, allise	on Park, Pa	15101	£
ADDRESS 4325 ROSCILLA DRI WELL LOCATION Garfield & Carter Street & No., Towns	et Aue, Je hip, County	rsey City, +	tudson Cou	nty
<i>PP G 7 - P1</i> Well No.		ot No.	202	(g . 1 k No.
USE OF WELL PRIOR TO ABANDONMENT:_	Mond	oring		
REASON FOR ABANDONMENT: No L	onger N	eed ed		
WAS A NEW WELL DRILLED?  YES		PERMIT #	FOF NEW WELL	
TOTAL DEPTH OF WELL  DIAMETER  CASING LENGTH  SCREEN LENGTH  NUMBER OF CASINGS  MATERIAL USED TO DECOMMISSION WELL:  Gallons of Water  Lbs. of Cement  Lbs. of Bentonite  D Lbs. of Sand/Gravel  (none if well is contaminated)  FORMATION:  Consolidated  X Unconsolidated  To permit adequate grouting, the casing should respond to the contaminate of the contaminate of the contaminate of the casing should respond to the contaminate of the casing should respond to the contaminate of the casing should respond to	Cross-section of sealed well Geach George Rolled  N.  NOR  LATITUDE:  main in place, but ed method.	(NAD 83 HORIZ J STATE PLACE COORD THING:	Street  ELL LOCATION ZONTAL DATUM) INATE IN US SURVEY  EASTING: OR LONGITUDE: or any other obstruction	FEET "
WAS CASING LEFT IN PLACE? ☐ YES ☐ WERE OTHER OBSTRUCTIONS LEFT IN WE				JS:
IF "YES", AUTHORIZATION GRANTED BY Was an alternative decommissioning method used	(NJE	DEP Official)	(Da ed by a DEP official?	
			ON	
IF "YES", authorization granted by	(NJI	DEP Official)		(Date)
I certify that this well was sealed in accordant Im Saris 1256 D. Church Serforming Work (Print or Type)  Name of NJ Licensed Well Driller	St. MOONED!	Address censed Well Driller Per	forming Work	Mailing Date Mw 4 4979 1  Registration #

V V	ייד א מימית ד וייניא	# 2600009765
MAIL TO: Bureau of Water Systems & Well Per	mitting	of well seale
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 4-	9-10
乳毛 医水 医肾 事官 难采 有法 医法 经比 化化 化化 化生 化生 水水 水水 作功	***************************************	, per total entre quie estre supri tato caso, esprisoni
PROPERTY OWNER PPG Industra	es, Inc.	
ADDRESS 4325 ROSALLA DRU	ue, allison Park, la 15/01	<u></u>
WELL LOCATION <u>Carfield</u> & <u>Carfield</u> & <u>Carfield</u> & No., Townsh	ip, County Huason Co	
<i>PPG-2A</i> Well No.		lock No.
USE OF WELL PRIOR TO ABANDONMENT:	Monetoring	
REASON FOR ABANDONMENT: No LO		
WAS A NEW WELL DRILLED?  YES		
WAS A NEW WELL DRILLED! LI 1ES LI	Cross-section   Draw a sketch snowing distance and for	ations of well site to
TOTAL DEPTH OF WELL	of sealed well nearest roads, buildings, etc.	
DIAMETER CASING LENGTH  5'	Grade W/ AR	
SCREEN LENGTH 5'	1 20/08 W	·
NUMBER OF CASINGS/	1 1 4/4	
MATERIAL USED TO DECOMMISSION WELL:	= Genut OB/ /s	-
S Gallons of Water	- Silled Dakota Street	
Gallons of Water  Lbs. of Cement	1	<b>A</b>
Lbs. of Bentonite	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	N
C Lbs. of Sand/Gravel	NJ STATE PLACE COORDINATE IN US SURV	i
(none if well is contaminated)	NORTHING: EASTING:	
FORMATION: Consolidated  Unconsolidated	OR LATITUDE: ' " LONGITUDE:	1 9
To permit adequate grouting, the casing should ren	nain in place, but ungrouted liner pipes or any other obstru	ctions must
be removed. Pressure grouting is the only accepted	i iliculou.	
WAS CASING LEFT IN PLACE? ☐ YES ☐	NO CASINO MILITARIA.	
	L? DYES XNO WHAT WERE THE OBSTRUCTI	
IF "YES", AUTHORIZATION GRANTED BY	(NJDEP Official) (NJDEP official)	Date)
Was an alternative decommissioning method used	and/or approval to decommission granted by a DEP official	il? TYES ANO
IF "YES", authorization granted by	ON	(Date)
		, ,
I certify that this well was sealed in accordance	of Morrestown NJ 08057	4-27-10
Performing Work (Print or Type)	A Address	Mailing Date  MW44979 /
Name of NJ Licensed Well Driller	- > / I// b a x	Registration #
Si	gnature of NJ Licensed Well Dillier I difference	enrod - Driller
COPIES: White - Water Allocation	Yellow - Owner Pink - Health Dept. Golde	aniou - Dilliei

COPIES:

#### New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems & Well Permitting

44 000 6	97/07
MAIL TO: Bureau of Water Systems & Well Permitting  WELL PERMIT # 26000 6  of well	seale
PO Box 426 Trenton, NJ 08625-0426  DATE WELL SEALED 4-9-10	
PROPERTY OWNER PPG Industries, Inc.	
PROPERTY OWNER 176 INCOMESTICS INCOMES POR 15/01	
ADDRESS 7325 ROSALLA DRIVE COUNTY	
ADDRESS 4325 Rosana Drive allison Park, Pa 15101  WELL LOCATION Garfield & Carteret Aue, Versey City, Hudson County  Street & No., Township, County	
PPG-6A         1         2026.1           Well No.         Lot No.         Block No.	
USE OF WELL PRIOR TO ABANDONMENT: Monutaring	
REASON FOR ABANDONMENT: No Longer Needed	
WAS A NEW WELL DRILLED? T VES P NO PERMIT # OF NEW WELL	
TOTAL DEPTH OF WELL  DIAMETER  CASING LENGTH  SCREEN LENGTH  NUMBER OF CASINGS  MATERIAL USED TO DECOMMISSION WELL:  Cross-section of sealed well  Seach  Cross-section of sealed well  Seach  Cross-section of sealed well  Seach  Filed  Draw a sketch showing distance and relations of well sealed well  nearest roads, buildings, etc.	to
Street   Dakofa Street   Str	N
FORMATION: Consolidated LATITUDE: LONGITUDE:	H
To permit adequate grouting, the casing should remain in place, but ungrouted liner pipes or any other obstructions must be removed. Pressure grouting is the only accepted method.	
WAS CASING LEFT IN PLACE? ☐ YES ☐ NO CASING MATERIAL: PVC	
WERE OTHER OBSTRUCTIONS LEFT IN WELL? TYES INO WHAT WERE THE OBSTRUCTIONS:	
IF "YES", AUTHORIZATION GRANTED BY ON (NJDEP Official) (Date)	
Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? TYES TYPE	10
IF "YES", authorization granted byON(Date)	
I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.  TIM SCRIS 1254 D. CHUICH St. Modestown NJ 08057  Mailing I Mark (Print or Type)  Name of NJ Licensed Well Driller  Signature of NJ Licensed Well Driller Performing Work  Registration	7/_
COPIES: White - Water Allocation Yellow - Owner Pink - Health Dept. Goldenrod - Driller	

## WELL ABANDONMENT REPORT

VVULLA	BULLITER	TARALL A	No. 100 100 100 100 100 100 100 100 100 10	# <u>\$600076991</u>
MAIL TO: Bureau of Water Systems & Well Pe	ermitting		WELL PERMIT	of well sealed
PO Box 426 Trenton, NJ 08625-0426		DATE WELL SEA	ALED 4-9	°-/0
PROPERTY OWNER Hampshire G	raio			
ADDRESS 15 Maple Auenue, 1	Jorristown	Hudson (	county_	
ADDRESS 15 Maple Auenue, 1 WELL LOCATION 892-931 Garfiel Street & No., Towns	d Acu Je	rseg Cuty, Hi	udson	
MW - 9A (PPG) Well No.	14-9 <u>A) 2 F</u>	Cot No.	20	26.   ock No.
USE OF WELL PRIOR TO ABANDONMENT:_	Monuto	ring		
REASON FOR ABANDONMENT: NO	Longer	Needed		
WAS A NEW WELL DRILLED? ☐ YES ☑		PERMIT#	OF NEW WELL	
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS  17' 14' 14' 14'	Cross-section of sealed well	Draw a sketch showir nearest roads, buildin	gs, etc.	
MATERIAL USED TO DECOMMISSION WELL:    S	1	(NAD 83 HORIZ J STATE PLACE COORDI	LL LOCATION ONTAL DATUM) NATE IN US SURVE	Î N
FORMATION: Consolidated  Unconsolidated	LATITUDE:	THING:	LONGITUDE:	
To permit adequate grouting, the casing should re be removed. Pressure grouting is the only accept	ed method.	•		tions must
WAS CASING LEFT IN PLACE? YES C	]NO CAS	ING MATERIAL:	PVC	
WERE OTHER OBSTRUCTIONS LEFT IN WE				
IF "YES", AUTHORIZATION GRANTED BY_	(NIT	NEP Official)	ON	Date)
Was an alternative decommissioning method used	f and/or approval t	o decommission grante	d by a DEP officia	l? □YES ☑NO
IF "YES", authorization granted by				(Date)
I certify that this well was sealed in accordant of the Saris Laste W. Church Performing Work (Print or Type) Name of NJ Licensed Well Driller	Signature of NJ Lie	Address  censed Well Driller Perf	08057	
COPIES: White - Water Allocation	Yellow - Ow	ner rink-riealin	Depi. Goide	

COPIES: White - Water Allocation

## WELL ABANDONMENT REPORT

WULLA	DELIVOIN	IVIIVI I I I I I I I I I I I I I I I I	IT # <u>A6000 76988</u>
MAIL TO: Bureau of Water Systems & Well Pe	ermitting		OT METT Degree
PO Box 426	O	4-	-9-10
Trenton, NJ 08625-0426	and the last last last last last last last last	DATE WELL SEALED 4	the set and past and past the page to past
PROPERTY OWNER Hampshire G	LOUP		
ADDRESS 15 Maple Auenue, M	Jorristown	+ Hudson County	
WELL LOCATION 872-931 Garfiel Street & No., Towns	d Acu, Je hip, County	rsey City, Hudson	
MW-1/A (PPG-1) Well No.	14-11 <u>A) 2 F</u> I	1 2 Lot No.	026.   Block No.
USE OF WELL PRIOR TO ABANDONMENT:_	Monuto	ring	
REASON FOR ABANDONMENT: NO	Longer	Needed	
WAS A NEW WELL DRILLED?  YES		PERMIT # OF NEW WEI	
TOTAL DEPTH OF WELL 16'	Cross-section of sealed well	Draw a sketch showing distance and nearest roads, buildings, etc.	
DIAMETER CASING LENGTH	brade 1'	420'	mu-11A
SCREEN LENGTH 12'		1 Standard	70
NUMBER OF CASINGS /		Sarried Sarried	165'
MATERIAL USED TO DECOMMISSION WELL:	= Grout Filled	$ \mathcal{Q}_{z} $	162
Gallons of Water		Dakota-Street	¥
Lbs. of Cement Lbs. of Bentonite		AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	N
Lbs. of Sand/Gravel	1	J STATE PLACE COORDINATE IN US SUI	RVEY FEET
(none if well is contaminated)	NOR	THING: EASTING:OR	
FORMATION: Consolidated Unconsolidated	LATITUDE:	LONGITUDE:	1 11
To permit adequate grouting, the casing should re	main in place, but	ungrouted liner pipes or any other obst	tructions must
he removed. Pressure grouting is the only accept	ed memod.		
WAS CASING LEFT IN PLACE? YES D	NO CAS	ING MATERIAL: PVC	
WERE OTHER OBSTRUCTIONS LEFT IN WE	ELL? DYES D	NO WHAT WERE THE OBSTRUC	TIONS:
IF "YES", AUTHORIZATION GRANTED BY_	(NITE	ONON	(Date)
Was an alternative decommissioning method used	d and/or approval t	to decommission granted by a DEP offi	cial? TYES NO
IF "YES", authorization granted by	(NЛ	DEP Official)	(Date)
I certify that this well was sealed in accordant Irm Salls 1256 D. Church Performing Work (Print or Type) Name of NJ Licensed Well Driller	ice with N.J.A.C	.7:9D-3 et seq.	4-27-16
11M Salls (250 N. Cruse)	V 1 27 1 1000	Address	Mailing Date
Name of NJ Licensed Well Driller	n Sary		MW 44979 J Registration #
CODIES. White Water Allocation	Signature of NJ Li	oner Pink - Health Dept. Go	ldenrod - Driller

White - Water Allocation

COPIES:

DWR-020 9/05

#### New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems & Well Permitting

WCLLA	DANDON	IVIIII V		26000 76982
MAIL TO: Bureau of Water Systems & Well Pe	rmitting		MEPT BEKWIL #	of well sealed
PO Box 426		DATE WELL SEALE	4-9-10	
Trenton, NJ 08625-0426		DATE WELL DEFEND	- 200 Not have been seen and state many state and and	a good day may bee store been been
PROPERTY OWNER Hampshire Gr	20UP	1 6	i	
ADDRESS 15 Maple Auenue, 1	fornstown	Hudson Coz	inty	
WELL LOCATION 872-931 Garfield Street & No., Townsh	d Aur Jer hip, County	rsey Cuty, Hud	700	
<i>P2-4</i> Well No.		ot No.	Block	
USE OF WELL PRIOR TO ABANDONMENT:	Monto	ring - Pierone	tec	
REASON FOR ABANDONMENT: NO	Longer.	Needed		
WAS A NEW WELL DRILLED?  YES	NO	PERMIT # OF Draw a sketch showing d		ons of well site to
TOTAL DEPTH OF WELL  DIAMETER  CASING LENGTH  SCREEN LENGTH  NUMBER OF CASINGS  16/2'  3/4"  1/2'  15'  NUMBER OF CASINGS	Cross-section of sealed well  hrade  //	nearest roads, bridings,	etc.	02.4
MATERIAL USED TO DECOMMISSION WELL:	= Grout Filled	A4KOTA	31.	216
Gallons of Water Lbs. of Cement Lbs. of Bentonite Lbs. of Sand/Gravel (none if well is contaminated)	N.	AS-BUILT WELL (NAD 83 HORIZON) J STATE PLACE COORDINAT THING:E OR	LOCATION TAL DATUM) TE IN US SURVEY EASTING:	
FORMATION: Consolidated  \( \frac{\chi}{\chi} \) Unconsolidated	LATITUDE:	'" LC	NGITUDE:	
To permit adequate grouting, the casing should removed. Pressure grouting is the only accepted	main in place, but and method.	ungrouted liner pipes or an	y other obstruction	ons must
WAS CASING LEFT IN PLACE?	NO CAS	ing material: PV	<u>C</u>	
WERE OTHER OBSTRUCTIONS LEFT IN WE				
IF "YES", AUTHORIZATION GRANTED BY	(NJD	OP OFFIcial)	(Dat	e)
Was an alternative decommissioning method used	and/or approval to	o decommission granted by		TIMES FOLIO
IF "YES", authorization granted by	(NJD	DEP Official)	ON	(Date)
I certify that this well was sealed in accordance of NJ Licensed Well Driller  I certify that this well was sealed in accordance of NJ Licensed Well Driller  Sealed in accordance of NJ Licensed Well Driller		- 05 0 .		4-27-10  Mailing Date  MW 44979  Registration #
<u></u>	<b>U</b>			1 D : 11

AA IATI LE	DITTUDO	WELL PERMIT # \$600077019
MAIL TO: Bureau of Water Systems & Well Pe	ermitting	of well sealed
PO Box 426 Trenton, NJ 08625-0426	DATE W	ELL SEALED 4-9-10
PROPERTY OWNER Hampshire Gr	LOUP	
ADDRESS 15 Maple AMERICA	Jorristown, Huds	son County
WELL LOCATION 872-931 Garfiel Street & No., Towns	d Au Jersey Cot	ty. Hudson
Street & No., Towns $P2-15  (P2-5)$	nip, County	2026./
<u>P2-75 (P2-5)</u> Well No.	2 A Lot No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT:_	Montoring -	Vieronela
REASON FOR ABANDONMENT: NO	Longer Needer	d
WAS A NEW WELL DRILLED? YES	NO P	PERMIT # OF NEW WEEL
TOTAL DEPTH OF WELL 18'	Cross-section Draw a skete of sealed well nearest road	ch showing distance and relations of well site to ds, buildings, etc.
DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS   3/4"  5'  7	Grade Pr	P2-15 (P26)
MATERIAL USED TO DECOMMISSION WELL:	= Grout B	305' YQ
Gallons of Water  Lbs. of Cement  Lbs. of Bentonite	AS-	Kofa- Street  BUILT WELL LOCATION  83 HORIZONTAL DATUM)  NOTE OF THE STREET STREET
Lbs. of Sand/Gravel (none if well is contaminated)		EASTING:
FORMATION: Consolidated Unconsolidated	LATITUDE: '	LONGITUDE: ' "
To permit adequate grouting, the casing should rebe removed. Pressure grouting is the only accepted.	ed memod.	
WAS CASING LEFT IN PLACE? YES	NO CASING MATER	IAL: PVC
WERE OTHER OBSTRUCTIONS LEFT IN WE	ELL? DYES DNO WHAT	WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	(NJDEP Official)	ON(Date)
Was an alternative decommissioning method used	l and/or approval to decommissi	ion granted by a DEP official? LYES WNO
IF "YES", authorization granted by	(NJDEP Official)	ON(Date)
I certify that this well was sealed in accordant Jim Salis (250 D. Church		
Performing Work (Print or Type) Name of NJ Licensed Well Driller	Addres  Day  Signature of NJ Licensed Well D	Mailing Date  MW 44979  Priller Performing Work  Registration #
Traine Of 149 Discolland 11 of Dames		
COPIES: White - Water Allocation	Yellow - Owner Pink	k - Health Dept. Goldenrod - Driller

COPIES:

## New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems & Well Permitting

WELLA	BANDONIMENT REST OFF
MAIL TO: Bureau of Water Systems & Well Pe	well permit # <u>\$6000 17020</u> of well sealed
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 4-9-10
PROPERTY OWNER Hampshire G	loup
ADDRESS 15 Maple Auenue 1	forristown, Hudson County
WELL LOCATION 872-931 Garfiel Street & No., Towns	d Au Jersey City, Hudson
P2-16 (P2-6)	2 A 2026. / Block No.
USE OF WELL PRIOR TO ABANDONMENT:_	Montoring Pieroneller Longer Needed
REASON FOR ABANDONMENT: NO	Longer Needed
WAS A NEW WELL DRILLED? ☐ YES ☐	NO PERMIT # OF NEW WELL
TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS	Cross-section of sealed well nearest roads, buildings, etc.  Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.
MATERIAL USED TO DECOMMISSION WELL:	Grout Filled Start
Gallons of Water  QU Lbs. of Cement  Lbs. of Bentonite  Lbs. of Sand/Gravel  (none if well is contaminated)	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET  NORTHING: EASTING:
FORMATION: Consolidated Unconsolidated	LATITUDE: ' " LONGITUDE: ' "
1 J. Decours grouting is the only accept	emain in place, but ungrouted liner pipes or any other obstituctions must
WAS CASING LEFT IN PLACE? YES D	INO CASING MATERIAL: PVC
WERE OTHER OBSTRUCTIONS LEFT IN WE	ELL? DYES ON WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	ONON(NJDEP Official) (Date)  dependence on the property of the
Was an alternative decommissioning method used	(NIDEP Official)  d and/or approval to decommission granted by a DEP official? ☐YES ☐NO
IF "YES", authorization granted by	ON(Date)
I certify that this well was sealed in accordant of the Saria Laste W. Church Performing Work (Print or Type)  Name of NJ Licensed Well Driller	Address Address Address Address Address Address Registration #
COPIES: White - Water Allocation	Yellow - Owner Pink - Health Dept. Goldenrod - Driller

WELLA	BANDUN	MICH I WELLOW	1/ 011 000 31
MAIL TO: Bureau of Water Systems & Well Pe			permit # <u>\$6000 17031</u> of well sealed
PO Box 426 Trenton, NJ 08625-0426		DATE WELL SEALED	4-9-10
PROPERTY OWNER Hampshire Gr	0710		1
ADDRESS 15 Maple Auenue, 1	Jornstown	Hudson Coun	ity
ADDRESS 15 Maple Auerus, A WELL LOCATION 872-931 Garfiel Street & No., Towns	d Acu, Jer hip, County	seg City, Hudso	<u> </u>
<u> </u>	<i>Q                                </i>	ot No.	7 (026. ) Block No.
USE OF WELL PRIOR TO ABANDONMENT:_	Monto	ang-Piezometer	
USE OF WELL PRIOR TO ABANDONMENT:	Longer.	Needed	
WAS A NEW WELL DRILLED?  YES	NO	PERMIT # OF NE	W WELL
TOTAL DEPTH OF WELL  DIAMETER  CASING LENGTH  SCREEN LENGTH  NUMBER OF CASINGS  MATERIAL USED TO DECOMMISSION WELL:	Cross-section of sealed well  6/4 de  7 /  Grout Filled	nearest roads, buildings, etc.	RES'
Gallons of Water  1	N.	Dakofa Street  AS-BUILT WELL LOCK (NAD 83 HORIZONTAL) I STATE PLACE COORDINATE IN THING: OR	DATUM) US SURVEY FEET
FORMATION: Consolidated Unconsolidated	LATITUDE:	'" LONGI	TUDE:
To permit adequate grouting, the casing should report be removed. Pressure grouting is the only accepted	main in place, but and method.	ungrouted liner pipes or any off	ner obstructions musi
WAS CASING LEFT IN PLACE? YES	NO CASI	ING MATERIAL: $\mathcal{P}$	VC
WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? DYES 🕏	NO WHAT WERE THE OBS	STRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	(NID	EP Official)	(Date)
Was an alternative decommissioning method used	and/or approval to	decommission granted by a D	EP official? TYES NO
IF "YES", authorization granted by	(NID	EP Official)	ON(Date)
I certify that this well was sealed in accordance of NJ Licensed Well Driller  I certify that this well was sealed in accordance of NJ Licensed Well Driller  Sealed in accordance of NJ Licensed Well Driller			057 <u>4-27-10</u> Mailing Date  MW 44979  Work Registration #

VV EIEIEI X W.	WELL PERMIT # <u>\$6000 77033</u>
MAIL TO: Bureau of Water Systems & Well Pe	rmitting WELL PERMIT # 1/20/00 1700 of well sealed
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 4-9-/D
PROPERTY OWNER Hampshire Gr	Coup
ADDRESS 15 Maple Auenue, 1	forristown, Hudson County
WELL LOCATION 872-931 Garfield Street & No., Towns	d Au, Versey Urg Thason
<u>P2-9</u> Well No.	2 A 2026. / Block No.
USE OF WELL PRIOR TO ABANDONMENT:_	Montoring-Pieroneter
REASON FOR ABANDONMENT: NO	Longer Needed
WAS A NEW WELL DRILLED?  YES	NO PERMIT # OF NEW WELL
TOTAL DEPTH OF WELL  DIAMETER  CASING LENGTH  SCREEN LENGTH  NUMBER OF CASINGS  MATERIAL USED TO DECOMMISSION WELL:  S Gallons of Water Lbs. of Cement Lbs. of Sand/Gravel (none if well is contaminated)  FORMATION:  Consolidated  Unconsolidated  Unconsolidated  To permit adequate grouting, the casing should removed. Pressure grouting is the only accepted	
WAS CASING LEFT IN PLACE? ☐ YES ☐	LL? DYES NO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	
	and/or approval to decommission granted by a DEP official? TYES NO
IF "YES", authorization granted by	(NJDEP Official) ON(Date)
I certify that this well was sealed in accordance  Im Sall's 256 N. Church  Performing Work (Print or Type)	re with N.J.A.C. 7:9D-3 et seq.  1 St. Modultown 75 08057  Address  Mailing Date MW 44979  ignature of NJ Licensed Well Driller Performing Work  Registration #
	Dist Harth Dont Goldenrod Driller

## WELL ABANDONMENT REPORT

PROPERTY OWNER HURAPS FULL SEALED H-9-10  ADDRESS 15 Maple Arthrough Morristown Huraps (Location Street & No. Townsip). County  WELL LOCATION 692-924 Carried Au Jersey Cuty Hudson  Street & No. Townsip. County  Well No. Lot No. Block No.  USE OF WELL PRIOR TO ABANDONMENT:  WAS A NEW WELL DRILLED? YES NO PERMIT # OF NEW WELL  TOTAL DEPTH OF WELL  DIAMETER  CASING LENGTH  SCREEN LENGTH  NUMBER OF CASINGS  MATERIAL USED TO DECOMMISSION WELL:  B Gallons of Water  9 4 Dis. of Sendiffravel (none if well is contaminated)  FORMATION:  Consolidated Location (NAD 3) HORIZONTAL DATUM (NAD 3) HORIZONTAL DATUM)  NI STATE FLACE COORDINATE IN US SURVEY FEET (NORTHURE)  NORTHING:  EASTING:  OR ADDRESS 15 Maple Arthrough (NORTHURE)  WAS A SABURITY WELL LOCATION (NAD 3) HORIZONTAL DATUM)  NI STATE FLACE COORDINATE IN US SURVEY FEET (NORTHURE)  NORTHING:  EASTING:  OR ADDRESS 15 Maple Arthrough (NORTHURE)  WAS A CASING LEFT IN PLACE? EYES INO CASING MATERIAL:  PIC  WERE OTHER OBSTRUCTIONS LEFT IN WELL? IYES INO WHAT WERE THE OBSTRUCTIONS:  E 'YES', AUTHORIZATION GRANTED BY (NIDEP Official) (Date)  Was an elternative decommissioning method used and/or approval to decommission granted by a DEP official? IYES INO  MAIling Date  Mailing	WELLA	DAINDUINING THE DAY
PROPERTY OWNER HOT SOME COUNTY  ADDRESS IS Magle Paurue, Monistown tuason County  WELL LOCATION 873-931 Caurfield Afun Jersey Cuty, Hudson  Street & No., Township, County  PL. D  Well No.  Lot No.  Block No.  USE OF WELL PRIOR TO ABANDONMENT:  WELL DOOR ABANDONMENT:  WELL DRILLED?   YES   NO  PERMIT & OF NEW WELL  TOTAL DEPTH OF WELL  DIAMETER  CROSS-section of sealed well  Grade   Season Solid Soli		well permit # <u>2600017034</u> ermitting of well sealed
PROPERTY OWNER HOT SOME COUNTY  ADDRESS IS Magle Paurue, Monistown tuason County  WELL LOCATION 873-931 Caurfield Afun Jersey Cuty, Hudson  Street & No., Township, County  PL. D  Well No.  Lot No.  Block No.  USE OF WELL PRIOR TO ABANDONMENT:  WELL DOOR ABANDONMENT:  WELL DRILLED?   YES   NO  PERMIT & OF NEW WELL  TOTAL DEPTH OF WELL  DIAMETER  CROSS-section of sealed well  Grade   Season Solid Soli		DATE WELL SEALED 4-9-10
WELL LOCATION 892-931 Courfield Atu, Jersey City, Hudson  Street & No., Township, County  Pi-lo Well No. Lot No. Block No.  USE OF WELL PRIOR TO ABANDONMENT.  WELL DOUBLED? I YES IN NO PERMIT # OF NEW WELL  TOTAL DEPTH OF WELL DIAMETER CASING LENGTH SCREEN LENGTH SCRE	PROPERTY OWNER Hampshire G	COUP
USE OF WELL PRIOR TO ABANDONMENT:  WAS A NEW WELL DRILLED?  WAS A NEW WELL DRILLED?  TOTAL DEPTH OF WELL DIAMETER CASHNO LENGTH SCREEN LENGTH NUMBER OF CASINOS  MATERIAL USED TO DECOMMISSION WELL:  Solution of sealed well  Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.  Or gealed well  ASBUILT WELL LOCATION NA 38 HORZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: OR ASBUILT WELL LOCATION NA 38 HORZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: OR ASBUILT WELL LOCATION NA 38 HORZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: OR ASBUILT WELL LOCATION NA 38 HORZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: OR ASBUILT WELL LOCATION NA THING: OR ASBUILT WELL LOCATION NA SHORZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: OR ASBUILT WELL LOCATION NA SHORZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: OR ASBUILT WELL LOCATION NA SHORZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: OR ASBUILT WELL LOCATION NA SHORZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: OR ASBUILT WELL LOCATION NA SHORZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: OR ASBUILT WELL LOCATION NA SHORZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: OR ASBUILT WELL LOCATION NA SHORZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: OR ASBUILT WELL LOCATION NA SHORZONTAL DATUM NA SHORZONTAL DATUM NA SHORZONTAL DATUM NA SHORZONTAL DATUM NA SHORZONTAL	ADDRESS 15 Maple Auenue, 1	Jornstown, Hudson County
Well No.  USE OF WELL PRIOR TO ABANDONMENT:  WAS A NEW WELL DRILLED?  WES NO  PERMIT # OF NEW WELL  Or of Permit # OF NEW WELL  Or of sealed well	WELL LOCATION 892-931 Garfiel Street & No., Towns	mp, county
WAS A NEW WELL DRILLED? YES NO PERMIT # OF NEW WELL  TOTAL DEPTH OF WELL  DIAMETER  CASING LENGTH SCREEN LENGTH SCREEN LENGTH NUMBER OF CASINGS  MATERIAL USED TO DECOMMISSION WELL:  S Gallons of Water  Q Lbs. of Semontic No. of Sand/Gravel (none if well is contaminated)  FORMATION:  Consolidated Unconsolidated  To permit adequate grouting, the casing should remain in place, but ungrouted liner pipes or any other obstructions must be removed. Pressure grouting is the only accepted method.  WAS CASING LEFT IN PLACE?  WERE OTHER OBSTRUCTIONS LEFT IN WELL?  Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official?  Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official?  I NOTEP Official)  (NJDEP Official)  (Date)  Lertify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.  JIPA SAAS (Part)  Mailing Date	337-11 NTo	Lot No. Block No.
WAS A NEW WELL DRILLED? YES NO PERMIT # OF NEW WELL  TOTAL DEPTH OF WELL  DIAMETER  CASING LENGTH SCREEN LENGTH SCREEN LENGTH NUMBER OF CASINGS  MATERIAL USED TO DECOMMISSION WELL:  S Gallons of Water  Q Lbs. of Semontic No. of Sand/Gravel (none if well is contaminated)  FORMATION:  Consolidated Unconsolidated  To permit adequate grouting, the casing should remain in place, but ungrouted liner pipes or any other obstructions must be removed. Pressure grouting is the only accepted method.  WAS CASING LEFT IN PLACE?  WERE OTHER OBSTRUCTIONS LEFT IN WELL?  Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official?  Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official?  I NOTEP Official)  (NJDEP Official)  (Date)  Lertify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.  JIPA SAAS (Part)  Mailing Date	USE OF WELL PRIOR TO ABANDONMENT:_	Montoring-PieroMeter
WAS A NEW WELL DRILLED? YES NO PERMIT # OF NEW WELL  TOTAL DEPTH OF WELL  DIAMETER  CASING LENGTH SCREEN LENGTH SCREEN LENGTH NUMBER OF CASINGS  MATERIAL USED TO DECOMMISSION WELL:  S Gallons of Water  Q Lbs. of Semontic No. of Sand/Gravel (none if well is contaminated)  FORMATION:  Consolidated Unconsolidated  To permit adequate grouting, the casing should remain in place, but ungrouted liner pipes or any other obstructions must be removed. Pressure grouting is the only accepted method.  WAS CASING LEFT IN PLACE?  WERE OTHER OBSTRUCTIONS LEFT IN WELL?  Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official?  Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official?  I NOTEP Official)  (NJDEP Official)  (Date)  Lertify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.  JIPA SAAS (Part)  Mailing Date	REASON FOR ABANDONMENT: NO	Longer Needed
TOTAL DEPTH OF WELL  DIAMETER CASING LENGTH SCREEN LENGTH NUMBER OF CASINGS  MATERIAL USED TO DECOMMISSION WELL:  S  Gallons of Water QY Lbs. of Sendorite Lbs. of Sand/Gravel (none if well is contaminated)  FORMATION:  Consolidated Unconsolidated Unconsolidated To permit adequate grouting, the casing should remain in place, but ungrouted liner pipes or any other obstructions must be removed. Pressure grouting is the only accepted method.  WAS CASING LEFT IN PLACE?  WERE OTHER OBSTRUCTIONS LEFT IN WELL?  Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official?  Consultation  CASING MATERIAL:  PC  WHAT WERE THE OBSTRUCTIONS:  IF "YES", AUTHORIZATION GRANTED BY (NIDEP Official)  (NIDEP Official)  Consultation  (NIDEP Official)  (NIDEP Official)  (NIDEP Official)  (NIDEP Official)  (Date)  Lettify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.  ITM SACE A CHARCH SI Address  Mailing Date Address  Signature of NJ Licensed Well Driller Performing Work  Registration #		NO PERMIT # OF NEW WELL
Gallons of Water  QU Lbs. of Cement  Lbs. of Cement  Lbs. of Sand/Gravel (none if well is contaminated)  FORMATION:  Consolidated  Unconsolidated  Consolidated  Consolidated  LATITUDE:  Consolidated  NORTHING:  CASING  CASING	TOTAL DEPTH OF WELL  DIAMETER  CASING LENGTH  SCREEN LENGTH  19'  14'  5'	Cross-section of sealed well nearest roads, buildings, etc.
FORMATION: Consolidated Unconsolidated LATITUDE: LONGITUDE: LONGIT	MATERIAL USED TO DECOMMISSION WELL:  Gallons of Water Lbs. of Cement Lbs. of Bentonite Lbs. of Sand/Gravel	AS-BUILT WELL LOCATION  OLAD 83 HORIZONTAL DATUM)
To permit adequate grouting, the casing should remain in place, but ungrouted liner pipes or any other obstructions intest be removed. Pressure grouting is the only accepted method.  WAS CASING LEFT IN PLACE?  WERE OTHER OBSTRUCTIONS LEFT IN WELL?  ON  (NJDEP Official)  (Date)  Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official?  ON  IF "YES", authorization granted by  (NJDEP Official)  (Date)  I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.  INN  SACE  Address  Mailing Date  Performing Work (Print or Type)  Name of NJ Licensed Well Driller  Signature of NJ Licensed Well Driller Performing Work  Registration #	FORMATION: Consolidated	OR  LATITUDE:' ' LONGITUDE:'"
WERE OTHER OBSTRUCTIONS LEFT IN WELL?	be removed. Pressure grouting is the only accepted	main in place, but ungrouted liner pipes or any other obstructions must ed method.
IF "YES", AUTHORIZATION GRANTED BY ON (NJDEP Official) (Date)  Was an alternative decommissioning method used and/or approval to decommission granted by a DEP official? YES (NO)  IF "YES", authorization granted by (NJDEP Official) (Date)  I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.  I'M Salis (ASC) (ASC) (MWC) SI (MOCOSTOWN) (D8057 (4-27-10))  Performing Work (Print or Type) Name of NJ Licensed Well Driller  Signature of NJ Licensed Well Driller Performing Work  Registration #	WAS CASING LEFT IN PLACE? YES	NO CASING MATERIAL: PVC
Was an alternative decommissioning method used and/or approval to decommission granted by  IF "YES", authorization granted by  (NJDEP Official)  I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.  I'M Sari Jasa N. Church St. Hoocustown NJ 08057  Performing Work (Print or Type)  Name of NJ Licensed Well Driller  Signature of NJ Licensed Well Driller Performing Work  Registration #	WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? DYES ONO WHAT WERE THE OBSTRUCTIONS:
Was an alternative decommissioning method used and/or approval to decommission granted by  IF "YES", authorization granted by  (NJDEP Official)  I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.  I'M Sari Jasa N. Church St. Hoocustown NJ 08057  Performing Work (Print or Type)  Name of NJ Licensed Well Driller  Signature of NJ Licensed Well Driller Performing Work  Registration #	IF "YES", AUTHORIZATION GRANTED BY_	ONON(Date)
I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.    I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   Address	Was an alternative decommissioning method used	and/or approval to decommission granted by a 2 22
I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.    I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.   Address	IF "YES", authorization granted by	ONON(Date)
	I certify that this well was sealed in accordant with the sealed in accordant was sealed in accordant with the sealed in accordant was sealed was sealed in accordant was sealed was sealed in accordant was sealed in accorda	Address  Mailing Date  Mailing Date  Mu 44979  Signature of NJ Licensed Well Driller Performing Work  Registration #

COPIES: White - Water Allocation

WELLA	BANDON	IVIDIVI IXEI OIX	2000000025
MAIL TO: Bureau of Water Systems & Well Pe	ermitting	WEL	L PERMIT # <u>2600077025</u> of well sealed
PO Box 426 Trenton, NJ 08625-0426		DATE WELL SEALED	4-9-10
PROPERTY OWNER Hampshire Gr	eoup		1
ADDRESS 15 Maple Auenue, 1	Jornstown	Hudson Cour	Ty
ADDRESS 15 Maple Aurwe, A WELL LOCATION 892-931 Garfiel Street & No., Towns	d Acu, Jer ship, County	rsey City, Hudse	00
PZ-11	21	7	2026.1
Well No.		Lot No.	Block No.
USE OF WELL PRIOR TO ABANDONMENT:_	Mondo	ring - PiezoMet	er
REASON FOR ABANDONMENT: NO	Longer	Needed	
WAS A NEW WELL DRILLED?  YES	NO	PERMIT # OF N	EW WELL
TOTAL DEPTH OF WELL  DIAMETER  CASING LENGTH  SCREEN LENGTH  NUMBER OF CASINGS  18' 3/4" 5' NUMBER OF CASINGS	Cross-section of sealed well  Orable	nearest roads, buildings, etc.	nce and relations of well site to
MATERIAL USED TO DECOMMISSION WELL:  Gallons of Water Lbs. of Cement Lbs. of Bentonite Lbs. of Sand/Gravel (none if well is contaminated)	E Filled	AS-BUILT WELL LOC (NAD 83 HORIZONTAL J STATE PLACE COORDINATE I THING:EAS	DATUM) N US SURVEY FEET
FORMATION: Consolidated  \( \frac{\chi}{\chi} \) Unconsolidated	LATITUDE:	'" LONG	ITUDE:
To permit adequate grouting, the casing should rebe removed. Pressure grouting is the only accepted WAS CASING LEFT IN PLACE?	emain in place, but ed method.	ungrouted liner pipes or any o	ther obstructions must
WERE OTHER OBSTRUCTIONS LEFT IN WE	ELL? DYES D	NO WHAT WERE THE OE	STRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY_	(NJI	OEP Official)	(Date)
Was an alternative decommissioning method used	d and/or approval t	to decommission granted by a	DEP official? TYES ANO
IF "YES", authorization granted by	(NJI	DEP Official)	
I certify that this well was sealed in accordant to the Saris (250 N). Church Performing Work (Print or Type)  Name of NJ Licensed Well Driller	Signature of NJ Lie	Address  censed Well Driller Performing	Mailing Date  Mul 44979  g Work Registration #  Goldenrod - Driller
COPIES: White - Water Allocation	, ICHOW - OW	***	

VELLA	DAINDOIN	IVARII VA AGASA		# <u>3600017026</u>
MAIL TO: Bureau of Water Systems & Well Pe	ermitting			of well sealed
PO Box 426 Trenton, NJ 08625-0426		DATE WELL SEALE	iD 4-9	-/0
PROPERTY OWNER Hampshire Gr	LOUP			
ADDRESS 15 Maple Auenue, 1	Jorristown	Hudson Con	enty_	
ADDRESS 15 Maple Aurul, Mell Location 892-931 Garfiel Street & No., Towns	d Acu, Jer hip, County	rsey City, Hud	130n	
P7-12 Wall No		ot No.	Blo	2 <i>(o. )</i> ck No.
USE OF WELL PRIOR TO ABANDONMENT:_	Monto	ang-Piezome Needed	ter	
REASON FOR ABANDONMENT: NO	Longer	Needed		
WAS A NEW WELL DRILLED? ☐ YES ☐		PERMIT # OI	F NEW WELL_	
TOTAL DEPTH OF WELL  DIAMETER  CASING LENGTH	Cross-section of sealed well	Draw a sketch showing d nearest roads, buildings,	etc.	tions of well site to
SCREEN LENGTH  NUMBER OF CASINGS  /		13 10° 10	p212	
MATERIAL USED TO DECOMMISSION WELL:	= Groot Filled	Q 135		
Gallons of Water  Lbs. of Cement  Lbs. of Bentonite  Lbs. of Sand/Gravel		Dakofa Stree AS-BUILT WELL (NAD 83 HORIZON J STATE PLACE COORDINA	LOCATION TAL DATUM)	Y FEET
(none if well is contaminated)	NOR'	THING: OR	EASTING:	
FORMATION: Consolidated  \( \frac{\chi}{\chi} \) Unconsolidated	LATITUDE:	'" L(	ONGITUDE:	
To permit adequate grouting, the casing should re be removed. Pressure grouting is the only accepted.	ed memod.			
WAS CASING LEFT IN PLACE? YES D	INO CAS	ING MATERIAL:/	PVC	
WERE OTHER OBSTRUCTIONS LEFT IN WE	ell? 🗆 yes 🕏	NO WHAT WERE THE	OBSTRUCTIO	NS:
IF "YES", AUTHORIZATION GRANTED BY	(NJE	OEP Official)	٧(D	ate)
Was an alternative decommissioning method used	i and/or approval t	o decommission granted by	y a DEP official?	Y LIYES LALINO
IF "YES", authorization granted by	(NJI	DEP Official)	ON	(Date)
I certify that this well was sealed in accordant Salis 1250 N. Church Performing Work (Print or Type) Name of NJ Licensed Well Driller	nce with N.J.A.C.  Solution  Sara  Signature of NJ Lie	7:9D-3 et seq.  Address  Censed Well Driller Perfort	08057 ning Work	Mailing Date MW 44979  Registration #
COPIES: White - Water Allocation	Yellow - Ow	ner Pink - Health De	pt. Golden	rod - Driller

WELLA	DANDON	IVALUITA ARAMA	AND A TOTAL TOTAL	# 2600077017
MAIL TO: Bureau of Water Systems & Well Pe	rmitting			Of Merr Regied
PO Box 426 Trenton, NJ 08625-0426		DATE WELL SEA	LED 4-9	-10
PROPERTY OWNER HAMPShire Gr	2ουρ			
ADDRESS 15 Maple Auenue 1	fornstown	+ Hudson C	ounty	
ADDRESS 15 Maple, Auchul, Mell Location 892-931 Garfiel Street & No., Towns	d Acu, Jer hip, County	seg City, the	udson	
P2-13	2A		200	10.1
**Y 11 NT.				ock No.
USE OF WELL PRIOR TO ABANDONMENT:_	Monto	ring - Piezon	Jelier_	
REASON FOR ABANDONMENT: NO	Longer	Need ed		
WAS A NEW WELL DRILLED?  YES		PERMIT #	OF NEW WELL_	
TOTAL DEPTH OF WELL 17	Cross-section of sealed well	Draw a sketch showin nearest roads, building	g distance and rela gs, etc.	tions of well site to
DIAMETER CASING LENGTH  2/4"  12'	brade.		(%	
SCREEN LENGTH5'	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2 / 30 D	pri	
NUMBER OF CASINGS /		They		
MATERIAL USED TO DECOMMISSION WELL:	= Grout Filled	0 3	•	
Gallons of Water Lbs. of Cement		Dakota_Sti		
Lbs. of Bentonite		ALAD 83 HORIZA	LL LOCATION ONTAL DATUM)	N
Lbs. of Sand/Gravel (none if well is contaminated)	1	STATE PLACE COORDI	•	1
	NOR	THING:	EASTING: OR	
V I Inconsolidated	LATITUDE:		LONGITUDE:	Linea mayat
To permit adequate grouting, the casing should rebe removed. Pressure grouting is the only accepted	main in place, but a	ungrouted liner pipes or	any other obstruct	JOHS Must
WAS CASING LEFT IN PLACE? YES	INO CAS	ING MATERIAL:	PVC	
WERE OTHER OBSTRUCTIONS LEFT IN WE	TI2 OVES A	NO WHAT WERE TI	HE OBSTRUCTIO	NS:
WERE OTHER OBSTRUCTIONS LEFT IN WE	ישו טענונים יעע	,,,,	OM	
IF "YES", AUTHORIZATION GRANTED BY	(NJE	EP Official)	(D	vate)
Was an alternative decommissioning method used	l and/or approval to	o decommission granted	i by a DEP official	? LIYES LAINO
IF "YES", authorization granted by	(NJI)	DEP Official)	ON	(Date)
I certify that this well was sealed in accordant Saris 1250 N. Church Performing Work (Print or Type) Name of NJ Licensed Well Driller	ce with N.J.A.C.	7:9D-3 et seq.	08057	4-27-10
Tim Saris Laste W. Church	151, 17000	Address Address		Mailing Date
Name of NJ Licensed Well Driller	u Sar	Address censed Well Driller Perf	Forming Work	MW 44979 J Registration #
	Signature of 143 LAC	CHSCA WON DIMON TON		arod - Driller
COPIES: White - Water Allocation	renow - Ow.	1 11111 - 11011111		

VV III I REPLAT	WELL PERMIT # <u>2600077018</u>
MAIL TO: Bureau of Water Systems & Well Permitting	g of well seated
PO Box 426	DATE WELL SEALED 4-9-10
Trenton, NJ 08625-0426	DATE WHILE DELICATION OF THE PROPERTY OF THE P
PROPERTY OWNER Hampshire Group	
ADDRESS 15 Maple Auenue, Morris	stown, Hudson County
ADDRESS 15 Maple Aurwe, Morris WELL LOCATION 872-931 Garfield Au Street & No., Township, Co	u Versey City Hudson
P2-14	2A 2026.1
Well No.	20110.
USE OF WELL PRIOR TO ABANDONMENT:	Coniforing - Pieroyeter
REASON FOR ABANDONMENT: No Long	ger Needed
WAS A NEW WELL DRILLED? YES YOU NO	PERMIT # OF NEW WELL
Cross-s	led well nearest roads, buildings, etc.
MATERIAL USED TO DECOMMISSION WELL:    S	Dakofa-Street  AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET  NORTHING: OR
FORMATION: Consolidated Unconsolidated LATI	ITUDE: " LONGITUDE: =
To permit adequate grouting, the casing should remain in phe removed. Pressure grouting is the only accepted method	place, but ungrouted liner pipes or any other obstructions must od.
WAS CASING LEFT IN PLACE?	CASING MATERIAL: PVC
WERE OTHER OBSTRUCTIONS LEFT IN WELL?	YES NO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	ONONOndete)  (NJDEP Official) (Date)  approval to decommission granted by a DEP official?
Was an alternative decommissioning method used and/or	approval to decommission granted by a DEP official? TYES TOO
IF "YES", authorization granted by	ONONOnte
I certify that this well was sealed in accordance with  I'm Saris 1256 D. Church S. Performing Work (Print or Type)  Name of NJ Licensed Well Driller  Signature	(NJDEP Official)  N.J.A.C. 7:9D-3 et seq.  N.J.A.C. 7:9D-3 et seq.  Mailing Date  Mu 44979  Registration #  Pink - Health Dept. Goldenrod - Driller



#### Environmental and Geotechnical Drilling Services

1256 North Church Street, Winnestown NJ Cales Phone, 856 722 1/11 Fax dos 742 1745

State of New Jersey Bureau of Water Allocation P.O. Box 426 Trenton, NJ 08625-0426

March 24, 2010

ATTN: Well Abandonment Department

RE: Approval to Decommission 2-Double Cased Monitoring Wells

NJDEP Permit Number 2600069776, Well ID - PPG-6B Outer Casing - 6" Ø Steel x 18' Inner Casing - 2" Ø PVC x 21' Screen - 2" PVC from 21' to 31' - .010 slot

NJDEP Permit Number 2600069769, Well ID - PPG-2B Outer Casing - 6" Ø Steel x 21' Inner Casing - 2" Ø PVC x 16' Screen - 2" PVC from 16" to 26' - .010 slot

Owner: PPG Industries, Inc. Facility: PPG Industries, Garfield & Carteret Ave, Jersey City, Hudson County. Block 2026.1, Lot 1

East Coast Drilling, Inc. (ECDI) is requesting approval to decommission the above referenced double cased wells. Attached please find a copies of the Well Records.

ECDI will terminate both casings 1'-foot below grade, tremie grout wells with coment-bentonite slurry. ECDI will ensure grout is present between the inner and outer casing, return in 24 hours to check for settlement and install a concrete pad at existing grade, and submit well abandonment reports to NJDEP.

Thank you in advance for your help with this matter. Should you require further information or wish to discuss this matter, do not hesitate to contact this office

Approver to BRANDAN BUTY WELLS GRANTES 3/25/10

Very truly yours,

EAST COAST DRILLING, INC

ApprovaL #:17/003046

James W. Duffy. President NJ Master Driller M1224

SEE "OFFICIAL" COPY OF WELL RELORD # 2600069769. ATTACHED-

\\Eng4\drilling\Company-Proposal\AECOM\NIDEP Decommission 2-Double Cased Wells PPG Industries | iercey City | NI wpd Fax Transmission: 609-633-1231

DWR-020 9/05

COPIES:

#### New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems & Well Permitting

WELLA	DANDONNENT REST OFF
MAIL TO: Bureau of Water Systems & Well Pe	well permit # <u>36006976</u> of well seale
PO Box 426 Trenton, NJ 08625-0426	DATE WELL SEALED 4-8.10
P.P.C. Today de	ine Toc
ADDRESS 4325 ROSANA DR	ue allison Park, Pa 15101
WELL LOCATION <u>Exertel</u> & Conter Street & No., Towns	et Aue, Versey City, Hudson Courty hip, County
<i>PPG-3B</i> Well No.	2026.     Block No.
USE OF WELL PRIOR TO ABANDONMENT:_	Monitoring
REASON FOR ABANDONMENT: NO L	onger Needed
WAS A NEW WELL DRILLED? YES	NO PERMIT # OF NEW WELL
TOTAL DEPTH OF WELL  DIAMETER  CASING LENGTH  SCREEN LENGTH  NUMBER OF CASINGS  MATERIAL USED TO DECOMMISSION WELL:   34	Cross-section  of sealed well  Stand 2  PAS-BUILT WELL LOCATION  (NAD 83 HORIZONTAL DATUM)  NJ STATE PLACE COORDINATE IN US SURVEY FEET  NORTHING:  EASTING:  EASTING:
Unconsolidated  To permit adequate grouting, the casing should re-	Main in place, but ungrouted liner pipes or any other obstructions must
be removed. Pressure grouting is the only accepted	INO CASING MATERIAL: Steel PVC
WAS CASING LEFT IN PLACE? YES	INO CASING MAI ERIAL. OF THE OBSTRUCTIONS:
	LL? DYES NO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	ONON(Date) (NJDEP Official) (Date)  (NJDEP Official) (Date)
Was an alternative decommissioning method used	and/or approval to decommission granted by a DEI official.
IF "YES", authorization granted by Sleve	Reja ON 3/25/10 (Date)
	St. Moores foun NJ 08057  Address  Address  Signature of NJ Licensed Well Driller Performing Work  Address  Registration #
COPIES: White - Water Allocation	

DWR-020 9/05

#### New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems & Well Permitting

WELLA	DANDON	WELL PERMIT # \$600069776
MAIL TO: Bureau of Water Systems & Well Pe	rmitting	of well sealed
PO Box 426 Trenton, NJ 08625-0426		DATE WELL SEALED 4-8-/0
PROPERTY OWNER PPG Industr	ies The	
ADDRESS 4325 ROSana DRI	ue, alliso	on Park, Pa 15701
WELL LOCATION Garfield & Carter Street & No., Towns	et Aue, Je hip, County	rsey City, Hudson County
<i>PPG-6B</i> Well No.		2026. l ot No. Block No.
USE OF WELL PRIOR TO ABANDONMENT:_	Monut	wing
REASON FOR ABANDONMENT: No L	onger Ne	eeded
WAS A NEW WELL DRILLED?  YES	NO	PERMIT # OF NEW WELL
TOTAL DEPTH OF WELL  DIAMETER  CASING LENGTH  SCREEN LENGTH  NUMBER OF CASINGS  31  3'/6"  31'/18'  0	Cross-section of sealed well Seacl	nearest roads, buildings, etc.
MATERIAL USED TO DECOMMISSION WELL:	= Geout = Filled	\frac{1}{2}
Gallons of Water  374 Lbs. of Cement  20 Lbs. of Bentonite  D Lbs. of Sand/Gravel (none if well is contaminated)	NJ	AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) I STATE PLACE COORDINATE IN US SURVEY FEET  THING: OR
FORMATION: Consolidated  Vunconsolidated	LATITUDE:	LONGITUDE:
To permit adequate grouting, the casing should rembe removed. Pressure grouting is the only accepte	nain in place, but ted method.	ungrouted liner pipes or any other obstructions must
WAS CASING LEFT IN PLACE? ☐ YES ☐	NO CASI	ING MATERIAL: PUC   Stee!
WERE OTHER OBSTRUCTIONS LEFT IN WE	LL? 🗆 YES 🔯 1	NO WHAT WERE THE OBSTRUCTIONS:
IF "YES", AUTHORIZATION GRANTED BY	(NJD	EP Official) (Date)
Was an alternative decommissioning method used	and/or approval to	decommission granted by a DEP official? LIFES LINO
IF "YES", authorization granted by Steve	Reya (NJD	ON 3 25 10 (Date)
I certify that this well was sealed in accordance in Saris 1250 D. Chunch Serforming Work (Print or Type)  Name of NJ Licensed Well Driller	ce with N.J.A.C. 31. Moorest	7.0D_3 et seg
	~	

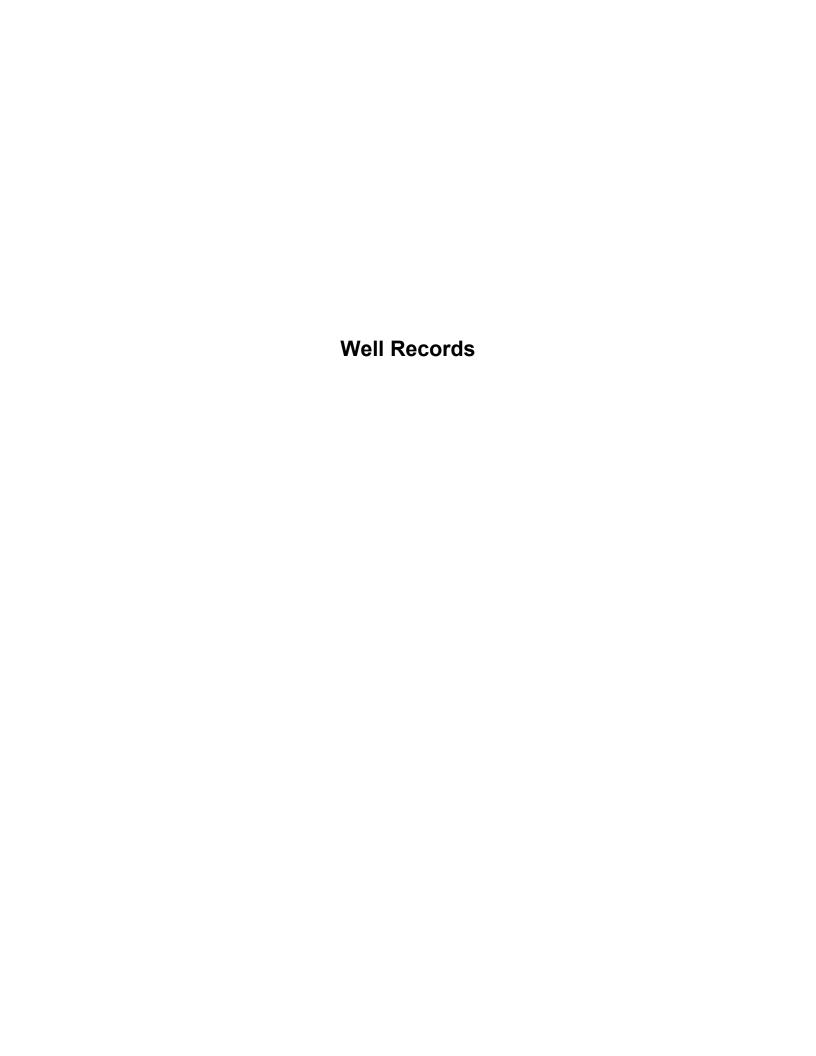
Garfield	al Action Report – Site 114 (AOC 114-1A, AOC 114-2, AOC 114-3, AOC 114-4A, AOC 114-4B, and AOC 114-5) Soil Avenue Group rsey City, New Jersey
C-2	Well Decommissioning Records for Wells Decommissioned During Remediation

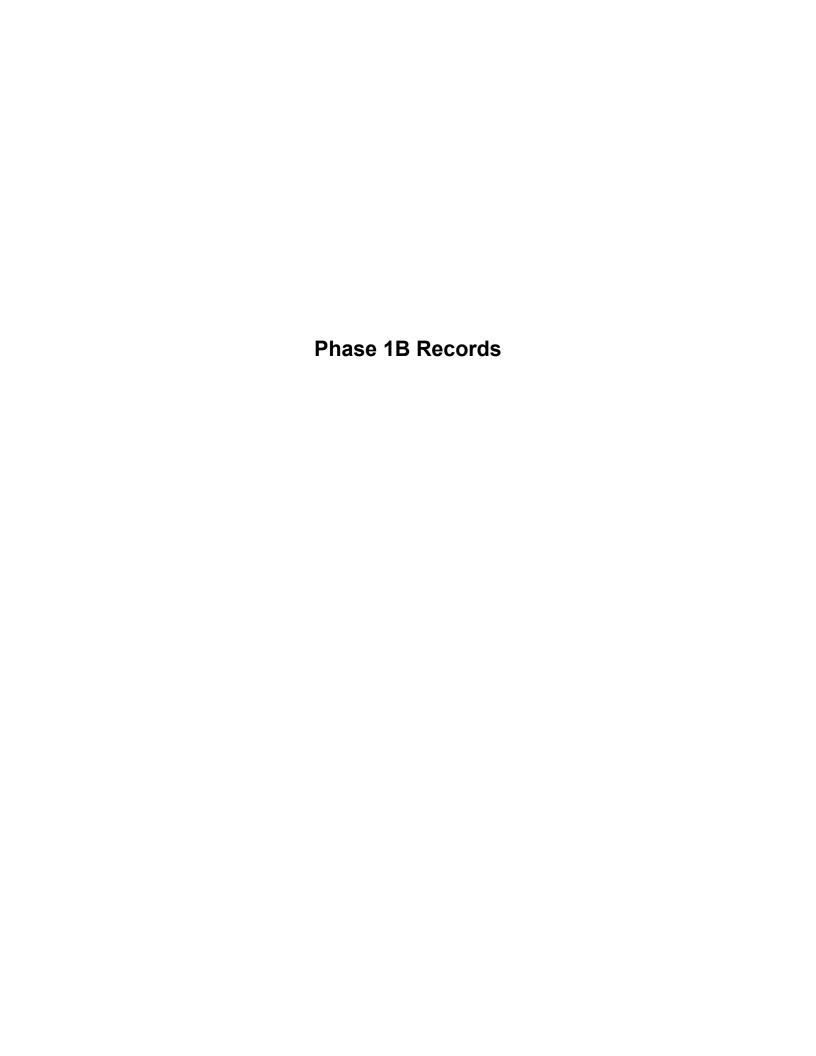
# Appendix C-2 Wells Decommissioning Records for Wells Decommissioned During Remediation Site 114, Garfield Avenue Group PPG, Jersey City, New Jersey

Well ID	Permit Number	Phase	Purpose
MW1A	2600069756	Phase 1B	Monitoring
MW1B	2600069760	Phase 1B	Monitoring
MW4A	2600069757	Phase 1B	Monitoring
MW4B	2600069761	Phase 1B	Monitoring
MW5A	2600069758	Phase 1B	Monitoring
MW5B	2600069762	Phase 1B	Monitoring
MW12A	2600076987	Phase 1B	Monitoring
MW12B	2600076984	Phase 1B	Monitoring
MW-32	E201211013	Phase 1B	Monitoring
MW-33	E201211014	Phase 1B	Monitoring
PZ-1	2600076979	Phase 1B	Piezometer
PZ-2	2600076980	Phase 1B	Piezometer
MW3A	2600069766	Phase 1C	Monitoring
MW21A	2600080776	Phase 1C	Monitoring
MW21B	2600080777	Phase 1C	Monitoring
MW3D	2600068664	Phase 2A	Monitoring
MW3S	2600068658	Phase 2A	Monitoring
MW4D	2600068665	Phase 2A	Monitoring
MW4F	2600075535	Phase 2A	Monitoring
MW4S	2600068659	Phase 2A	Monitoring
MW5D	2600068666	Phase 2A	Monitoring
MW5S	2600068660	Phase 2A	Monitoring
MW6D	2600068667	Phase 2A	Monitoring
MW6S	2600068661	Phase 2A	Monitoring
W-3A	266524	Phase 2A	Monitoring
W-3B	"NA" listed on Decommissioning Record	Phase 2A	Monitoring
114-MW23A	2600081649	Phase 2B-1	Monitoring
114-MW23B	2600081703	Phase 2B-1	Monitoring
MW1S	2600068656	Phase 2B-1	Monitoring
MW2D	2600068663	Phase 2B-3	Monitoring
MW2S	2600068657	Phase 2B-3	Monitoring
MW7A	2600069759	Phase 2B-3	Monitoring
MW7B	2600069763	Phase 2B-3	Monitoring
MW7C	2600076985	Phase 2B-3	Monitoring
MW10A	2600076986	Phase 2B-3	Monitoring
MW8A	2600069768	Phase 2B-4	Monitoring
MW8B	2600069764	Phase 2B-4	Monitoring
MW13A	2600077352	Phase 2B-4	Monitoring
MW13B	2600077351	Phase 2B-4	Monitoring
W-1A	not listed on Decommissioning Record	Phase 2B-4	Monitoring
W-1B	not listed on Decommissioning Record	Phase 2B-4	Monitoring

#### Notes:

IRM - interim remedial measure





Well Permit Number 2600069756

#### WELL DECOMMISSIONING REPORT

PROPERTY OWNER: PPG INDUSTRIES INC.							
Company/Org	ganization: P	PG Industries, 1	Inc				
Address: 43	26 Rosanna D	rive Allison Pa	ırk, Pennsylvani	a 15101			
WELL LOC	ATION: PP	G Industries					
Address: Ga	ARFIELD AV	E. & CARTER	RET AVE.				
County: Huc	dson	Municipality	y: Jersey City		Lot: 2A	Block: 202	26.1
-			(Y): <u>683479</u> NAD83) - USFI	EET		E WELL SIONED: December 9	, 2011
WELL USE:	MONITOR	ING					
Other Use(s)	<b>.</b>				Local ID: PPo	5-1A	
Reason for De	ecommissionii	ng: No longer	in use				
Finished Well	Depth (ft.):	10		W	as a New Well Dril	led? N	
Formation Ty	pe: Unconso	lidated		Ne	ew Well Permit Nun	nber:	
WELL DEC	OMMISSION	NING INFORM	MATION				
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		/Screen # Used /ch no.)
Borehole	0	10	8.25				
Casing	0	5	2		PVC		H40
Screen	5	10	2	PVC 0.010"			
MATERIAL	S USED						
	Depth to	Depth to	Outer	Inner		Material	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Sand/Gravel	U	10	2	O	U	10	1
ADDITIONA	AL INFORMA	ATION		1			
Obstructions:	No			1	Authorization Offic	ial:	
Obstruction Type: Authorization Number:							
Alternative Decomm. Method? No Authorization Date:							
Method Used							
ATTACHME	NTS:						

Warren Blewett B & B DRILLING INC **JOURNEYMAN** BOX 8 RT 206 Sealing Driller: LICENSE # 0014578

Netcong (Morris), NJ 07857 Company:

Well Permit Number
2600069760

#### WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: _ I	PPG INDUSTR	RIES INC.			_		
Company/Org	ganization: Pl	PG Industries, 1	Inc					
Address: 43	26 Rosanna D	rive Allison Pa	ark, Pennsylvani	a 15101				
WELL LOCA	ATION: PP	G Industries						
		E. & CARTER	PET AVE					
					I -4: 24	D11 20	226.1	
County: Huc	ason	_ wiumcipant	y: <u>Jersey City</u>		Lot: 2A Block: 2026.1		020.1	
Easting (X): 610820 Northing (Y): 683487  Coordinate System: NJ State Plane (NAD83) - USFEET				EET	DATE WELL DECOMMISSIONED: December 12, 2011			
WELL USE:	MONITOR	ING						
Other Use(s):	·				Local ID: PP	6-1B		
Reason for De		ng: No longer						
Finished Well	Depth (ft.):	29		V	Vas a New Well Dri	lled? N		
Formation Ty	pe: Unconso	lidated		N	ew Well Permit Nur	mber:		
WELL DEC	OMMISSION	ING INFORM	MATION					
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material			Wgt/Rating/Screen # Used (lbs/ch no.)	
Borehole	0	12	12					
Borehole	12	29	6					
Casing	0	12	6	Steel		(	0.144"	
Casing	0	19	2	PVC			SH40	
Screen	19	29	2	PVC 0.010"			0.010"	
MATERIALS USED								
	Depth to	Depth to	Outer	Inner	D (11)	Material	***	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.) 52	Water (gal.)	
Sand/Gravel	U	29	2	0	0	32	<u> </u>	
ADDITIONA	L INFORMA	ATION	<u> </u>					
Obstructions:	No				Authorization Offic	eial: Lynn Stout		
Obstruction Type: Authorization Number: A1112081								
Alternative Decomm. Method? No					Authorization D	ate: December 9, 201	1	
Method Used								
ATTACHMENTS:								

Warren Blewett

JOURNEYMAN

BOX 8 RT 206

Sealing Driller: LICENSE # 0014578 Company: Netcong (Morris), NJ 07857

Well Permit Number
2600069757

#### WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: _I	PPG INDUSTE	RIES INC.					
Company/Organization: PPG Industries, Inc								
Address: 43	326 Rosanna D	rive Allison Pa	ark, Pennsylvani	a 15101				
WELLLOC	ATION. DD	C Industria	•					
	ATION: PP							
		E. & CARTEF						
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 2A	Block: 20	26.1	
Easting (X):	610811	Northing	(Y): 683250		БАП	112 XX/121 X		
-			NAD83) - USFI			<b>E WELL</b> <b>SIONED:</b> December 9	. 2011	
WELL USE:	MONITOR	ING				<u> </u>	,	
Other Use(s)					Local ID: PP	6-4A		
Reason for De		ng: No longer						
Finished Well	Depth (ft.):	14		W	/as a New Well Dril	lled? N		
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nur	mber:		
WELL DEC	OMMISSION	ING INFOR	MATION					
	Depth to	Depth to	Diameter		Material		Wgt/Rating/Screen # Used	
D 1 . 1 .	Top (ft.)	Bottom (ft.)	(inches)			(lbs	(lbs/ch no.)	
Borehole	0	14	6 2		DVG GW40			
Casing Screen	4	14	2		PVC SH40			
	<u> </u>	14	2		PVC 0.010"			
MATERIAL	S USED  Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	-	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	14	2	0	0	25	1.5	
Sand/Gravel								
ADDITIONAL INFORMATION								
Obstructions: No Authorization Official:								
Obstruction Type:					Authorization Number:			
Alternative Decomm. Method? No				Authorization Da	ate:			
Method Used								
ATTACHMENTS:								

Warren Blewett B & B DRILLING INC JOURNEYMAN BOX 8 RT 206

Sealing Driller: LICENSE # 0014578 Company: Netcong (Morris), NJ 07857

Well Permit Number
2600069761

#### WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: I	PPG INDUSTR	RIES INC.			_		
Company/Or	ganization: Pl	PG Industries, 1	Inc					
- •			ark, Pennsylvani	a 15101				
7 Idd1033	320 Rosanna D	71110 711113011 1 0	irk, i emisyivam	<u>a 13101</u>				
WELL LOC	CATION: PP	G Industries						
Address: G	ARFIELD AV	E. & CARTER	RET AVE.					
County: Hu	idson	_ Municipality	y: <u>Jersey City</u>	Lot: 2A Block: 2026.1		26.1		
Easting (X):	610817	Northing	(Y): 683247		DATE WELL			
Coordi	nate System: N	IJ State Plane (	NAD83) - USFI	EET		SIONED: December	12, 2011	
WELL USE	: MONITOR	ING						
Other Use(s)	):				Local ID: PPe	5-4B		
Reason for D		ng: No longer		_				
	ll Depth (ft.):			V	Vas a New Well Dril	led? N		
	ype: Unconso				ew Well Permit Nun			
		NING INFORM	MATION				<del></del>	
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material			Wgt/Rating/Screen # Used (lbs/ch no.)	
Borehole	0	16	12			(10)	(	
Borehole	16	38	6					
Casing	0	16	6	Steel 0.144"			).144"	
Casing	16	0	28	PVC		;	SH40	
Screen	28	38	2		PVC	(	0.010"	
MATERIAI								
	Depth to	Depth to	Outer	Inner		Material		
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.) 70	Water (gal.) 4	
Sand/Gravel	0	36	2	0	U	70	4	
	AL INFORMA	ATION						
Obstructions	: No				Authorization Offic	ial: Lynn Stout		
Obstruction Type:				Authorization Number: A1112082				
Alternative Decomm. Method? No				Authorization Date: December 9, 2011				
Method Used	1							
ATTACHMI								

Warren Blewett
JOURNEYMAN
Sealing Driller: LICENSE # 0014578
B & B DRILLING INC
BOX 8 RT 206
Netcong (Morris), NJ 07857

Well Permit Number
2600069758

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: PPG INDUSTRIES INC.										
Company/Organization: PPG Industries, Inc										
Address: 4326 Rosanna Drive Allison Park, Pennsylvania 15101										
WELL LOCATION: PPG Industries										
Address: GARFIELD AVE. & CARTERET AVE.										
County: <u>Hudson</u> <u>Municipality: Jersey City</u> <u>Lot: 2A</u> <u>Block: 2026.1</u>										
Fasting (X): 610817 Northing (Y): 683248										
			NAD83) - USFI	EET		<b>E WELL</b> SIONED: December 9.	, 2011			
WELL USE:	MONITOR	ING				<u> </u>				
Other Use(s)	:				Local ID: PPo	6-5A				
Reason for De	ecommissionir	ng: No longer	in use							
Finished Well	Depth (ft.): _	16		W	/as a New Well Dril	led? N				
Formation Ty	pe: Unconso	lidated		Ne	ew Well Permit Nur	nber:				
WELL DEC	OMMISSION	ING INFORM	MATION							
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material Wgt/Rating/Screen # Used (lbs/ch no.)					
Borehole	0	16	6							
Casing	0	5	2		PVC		H40			
Screen	5	16	2		p	0.	010"			
MATERIAL		I								
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in )	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)			
Grout	0	16	2	0	0	30	1.5			
Sand/Gravel										
ADDITIONA	AL INFORMA	ATION								
Obstructions: No Authorization Official:										
Obstruction Type: Authorization Number:										
Alternative Decomm. Method? No Authorization Date:										
Method Used										
ATTACHMENTS:										

Warren Blewett B & B DRILLING INC **JOURNEYMAN** BOX 8 RT 206 Sealing Driller: LICENSE # 0014578

Well Permit Number
2600069762

# WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: _I	PPG INDUSTR	RIES INC.							
Company/Organization: PPG Industries, Inc										
Address: 4326 Rosanna Drive Allison Park, Pennsylvania 15101										
WELL LOC	ATION: PP	G Industries								
Address: Ga	ARFIELD AV	E. & CARTER	RET AVE.							
County: Hudson Municipality: Jersey City Lot: 2A Block: 2026.1										
-			(Y): <u>683531</u> NAD83) - USFI	EET		E WELL SIONED: December 1	2, 2011			
WELL USE:	MONITOR	ING								
Other Use(s): Local ID: PP6 - 5B										
		ng: No longer								
Finished Well	Depth (ft.):	41		V	as a New Well Dril	led? N				
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nur	mber:				
WELL DEC	OMMISSION	ING INFORM	MATION							
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)			
Borehole	0	18	12							
Borehole	18	41	6							
Casing	0	31	2		PVC		SH40			
Screen	31	41	2		PVC	0	.010"			
MATERIAL										
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)			
Grout	0	41	2	0	0	75	4			
Sand/Gravel										
ADDITIONA	L INFORMA	ATION								
Obstructions:	No				Authorization Offic	ial: Lynn Stout				
Obstruction T	ype:				Authorization Numl	per: A1112083				
Alternative Decomm. Method? No Authorization Date: December 9, 2011										
Method Used										
ATTACHME	NTS:									

Warren Blewett
JOURNEYMAN

B & B DRILLING INC
BOX 8 RT 206

Well Permit Number
2600076987

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: JERSEY CITY JCDPW										
Company/Organization: JCDPW										
Address: 575 Route 440 Jersey City, New Jersey 07305										
WELL LOCATION: PPG Industries										
Address: 872-931 GARFIELD AVENUE PPG GARFIELD AVENUE										
County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.1										
Fasting (X): 610967 Northing (Y): 683335										
			NAD83) - USFI			<b>E WELL</b> SIONED: December 9	. 2011			
WELL USE:	MONITOR	ING				<u> </u>	, -			
Other Use(s):  Local ID: MW-12A										
Reason for D	ecommissionir	ng: No longer	in use							
Finished Wel	l Depth (ft.):	16		W	/as a New Well Dril	led? N				
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nur	nber:				
WELL DEC	OMMISSION	NING INFORM	MATION							
	Depth to	Depth to	Diameter		Material		/Screen # Used			
D 1.1	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)			
Borehole	0	16	6 2		DVC		11140			
Casing	3	16	2		PVC PVC		SH40 .010"			
Screen	,	10	2		PVC	0	.010			
MATERIAL		Dt. c.	0.4	<b>T</b>		M 1				
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)			
Grout	0	16	2	0	0	30	2			
Sand/Gravel										
ADDITION	AL INFORMA	ATION								
Obstructions:	No				Authorization Offic	ial:				
Obstruction Type: Authorization Number:										
Alternative Decomm. Method? No Authorization Date:										
Method Used	Method Used									
ATTACHMENTS:										

Warren Blewett
JOURNEYMAN
Sealing Driller: LICENSE # 0014578
B & B DRILLING INC
BOX 8 RT 206
Netcong (Morris), NJ 07857

Well Permit Number **2600076984** 

# WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: 1	JERSEY CITY	JCDPW	01/11/11/02/01		· <del></del>			
Company/Org			VODI VI						
Address: <u>57</u>	5 Route 440 J	ersey City, Nev	w Jersey 07305						
WELL LOC	ATION: PP	G Industries					_		
Address: 87	2-931 GARFI	ELD AVENU	E PPG GARFIE	LD AVENUE					
County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.1									
Easting (X):	610972	Northing	(Y): 683342	DAT	TE WELL				
Coordin	nate System: N	J State Plane (	NAD83) - USFI	EET		SIONED: December	12, 2011		
WELL USE:	MONITOR	ING							
Other Use(s)	<b>:</b>				Local ID: MY	W-12B	_		
Reason for De	ecommissionir	ng: No longer	in use						
Finished Well	Depth (ft.):	36		V	Vas a New Well Dri	lled? N			
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nu	mber:			
WELL DEC	OMMISSION	NING INFORM	MATION						
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)		
Borehole	0	15	12						
Borehole	15	36	6						
Casing	0	15	6		Steel		.250"		
Casing	0	26	2		PVC		SH40		
Screen	26	36	2		PVC	(	0.010"		
MATERIAL			,	<del>,</del>					
	Depth to	Depth to	Outer	Inner	D : (11 )	Material	XX . ( 1)		
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.) 65	Water (gal.) 3.5		
Sand/Gravel	0	30	2	O	U	03	5.5		
ADDITIONA	AL INFORMA	ATION							
Obstructions:	No				Authorization Offic	cial: Lynn Stout			
Obstruction Type: Authorization Number: A1112084									
Alternative Decomm. Method? No Authorization Date: December 9, 2011									
Method Used	-								
ATTACHME									

Warren Blewett
JOURNEYMAN
Sealing Driller: LICENSE # 0014578
B & B DRILLING INC
BOX 8 RT 206
Netcong (Morris), NJ 07857

Well Permit Number **E201211013** 

PROPERTY	OWNER:	N/A JERSEY (	CITY REDEVE	LOPMENT AC	ENCY				
Company/Or	ganization:Je	ersey City Rede	evelopment Age	ncy					
Address: 30	0 Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 073	02				
WELL LOC	CATION: HO	CC SUITE 114							
Address: 90	00 garfield ave	:							
County: Hu	idson	_ Municipalit	y: Jersey City		Lot: 18	Block: _2	1501		
Easting (X): 610829 Northing (Y): 683528 Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL DECOMMISSIONED: July 15, 2012									
WELL USE	: MONITOR	ING							
Other Use(s)	):			· · · · · · · · · · · · · · · · · · ·	Local ID: my	w-32			
			vated/Demolish						
Finished Wel	ll Depth (ft.):	12		V	Vas a New Well Dri	lled? N			
	ype: Unconsc					mber:			
WELL DEC	OMMISSION	NING INFOR	MATION						
	Depth to	Depth to	Diameter		Material	_	g/Screen # Used		
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lb	os/ch no.)		
Casing	0	2	2		PVC		Sch 40		
Screen	2	12	2		PVC		.020		
MATERIAL	LS USED								
	Depth to	Depth to	Outer	Inner		Material			
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)		
Sand/Gravel		12	2		3	23	2		
ADDITION	AL INFORM.	ATION			· · · · · · · · · · · · · · · · · · ·				
Obstructions:	No				Authorization Offic	cial:			
ATTACHME									
ATTACHIVIE	EN15:								
		L Hanley				NORTH AMERICA II	NC.		
Sealing Dri	JOURNI iller: LICENS					OX 423 Creek (Ocean), NI 08	092		
Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092									

Well Permit Number E201211014

Well Permit Number 2600076979

			WELL DEC	OMMISSIC	<u> DNING REPOR</u>	<u>(1</u>				
PROPERTY	OWNER: _	JERSEY CITY	/ JCDPW							
Company/Or	ganization:J	CDPW								
Address: 5	75 Route 440.	Jersey City, Ne	w Jersey 07305							
WELL LOC	CATION: PI	PG Industries								
Address: 8	72-931 GARF	IELD AVENU	E PPG GARFIE	LD AVENUE						
County: Hudson Municipality: Jersey City Lot: 3A,3B,4A Block: 2026.1										
Easting (X):611021 Northing (Y):683231 <b>DATE WELL</b>										
Coordi	nate System: 1	NJ State Plane	(NAD83) - USF	EET	DECOMMIS	SSIO	NED: December 9	9, 2011		
WELL USE	PIEZOME	ΓER								
Other Use(s)	):				Local ID: pz	-1				
Reason for D	ecommissioni	ng: No longe	r in use							
Finished Wel	l Depth (ft.): _	20		V	Vas a New Well Dri	illed?	N			
Formation Ty	pe: <u>Unconsc</u>	olidated		N	ew Well Permit Nu	mber:				
WELL DEC		NING INFOR		13-10-111111111111111111111111111111111						
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		,	g/Screen # Used s/ch no.)		
Borehole	0	20	6							
Casing	0	15	0.75		PVC			SH40		
Screen	15	20	0.75		PVC		<u>S</u>	CH40		
MATERIAL	S USED  Depth to	Depth to	Outer	Inner			Material			
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Ne	at Cement (lbs.)	Water (gal.)		
Grout	0	20	0.75	0	0		9	0.5		
Sand/Gravel										
	AL INFORMA									
Obstructions:	No				Authorization Office	cial: _				
Obstruction T	уре:				Authorization Num	ber: _				
Alternative D	ecomm. Metho	od? No			Authorization D	ate: _				
Method Used										
ATTACHME	NTS:									

Warren Blewett **JOURNEYMAN** Sealing Driller: LICENSE # 0014578

B & B DRILLING INC **BOX 8 RT 206** Netcong (Morris), NJ 07857

Well Permit Number **2600076980** 

# WELL DECOMMISSIONING REPORT

				THIT G INDI OL					
OWNER: _	JERSEY CITY	' JCDPW							
ganization: _ J	CDPW								
75 Route 440.	Jersey City, Ne	w Jersey 07305							
ATION: PE	G Industries								
		E PPG GARFIE	LD AVENUE						
				Lot: 3A 3B 4A	Block: 20	026.1			
	•				DIOOR	520.1			
Easting (X):611045 Northing (Y):683196 DATE WELL									
nate System: N	NJ State Plane (	(NAD83) - USF	EET	DECOMMIS	SSIONED: December	9, 2011			
PIEZOME	ΓER								
:				Local ID: P2	J-2	***********			
ecommissioni	ng: No longe	r in use			**************************************				
l Depth (ft.):	18		W	/as a New Well Dri	lled? N				
pe: Unconso	lidated		N	ew Well Permit Nu	mber:				
OMMISSION	NING INFOR	MATION							
Depth to	Depth to	Diameter		Material	· · · · ·	g/Screen # Used			
	1				(Ib	s/ch no.)			
0				PVC		SH40			
3	18	0.75		PVC		SCH40			
S USED									
Depth to	Depth to	Outer	Inner		Material				
<del></del>	· · · · · · · · · · · · · · · · · · ·		• • • • • •	· , ,	<del>                                       </del>	Water (gal.)			
U	18	0.75	U	U	] 9	0.5			
L INFORM	ATION								
			,	Authorization Offic	eial:				
				Tumorization D	u.c.				
NTS:									
	ganization: _J 75 Route 440 .  CATION: _PF 72-931 GARF dson  611045 nate System: N : _PIEZOMET : _COMMISSION Depth to Top (ft.) 0 0 3 SUSED Depth to Top (ft.) 0 AL INFORMA No Sype: ecomm. Methology	ganization: JCDPW 75 Route 440 Jersey City, Ne 75 Route 440 Jersey City, Ne 72-931 GARFIELD AVENU dson	ATION: PPG Industries  72-931 GARFIELD AVENUE PPG GARFIE  dson Municipality: Jersey City  611045 Northing (Y): 683196  mate System: NJ State Plane (NAD83) - USF  PIEZOMETER  PIEZOMETER  Commissioning: No longer in use  I Depth (ft.): 18  Pre: Unconsolidated  OMMISSIONING INFORMATION  Depth to Depth to Diameter  Top (ft.) Bottom (ft.) (inches)  0 18 6 0 3 0.75 3 18 0.75  S USED  Depth to Depth to Diameter (in.)  0 18 0.75  AL INFORMATION  No  Pre: Line Commission (ft.) (inches)  No  Poeth to Depth to Diameter (in.)  O 18 0.75  Commission (ft.) (inches)  Outer Diameter (in.)  O 18 0.75  Commission (ft.) (inches)  No  Poeth to Depth to Diameter (in.)  O 18 0.75  Commission (ft.) (inches)  Outer Diameter (in.)  O 18 0.75  Commission (ft.) (inches)  Outer Diameter (in.)  O 18 0.75  Commission (ft.) (inches)  Outer Diameter (in.)  No  Poeth (ft.) (inches)  No  No  Poeth (ft.) (inches)  Outer Diameter (in.)  Outer Diameter (in.)  Outer Diameter (in.)	ganization: JCDPW 75 Route 440 Jersey City, New Jersey 07305  CATION: PPG Industries 72-931 GARFIELD AVENUE PPG GARFIELD AVENUE ddson	ganization: JCDPW 75 Route 440 Jersey City, New Jersey 07305  CATION: PPG Industries 72-931 GARFIELD AVENUE PPG GARFIELD AVENUE  discon	ganization: JCDPW 75 Route 440 Jersey City, New Jersey 07305  CATION: PPG Industries 72-931 GARFIELD AVENUE PPG GARFIELD AVENUE  ddson			

Warren Blewett

JOURNEYMAN
Sealing Driller: LICENSE # 0014578

B & B DRILLING INC BOX 8 RT 206

Company: Netcong (Morris), NJ 07857



Well Permit Number **2600069766** 

PROPERTY OWNER: _ PPG INDUSTRIES, INC. PPG INDUSTRIES, INC.										
Company/Organization: PPG Industries, Inc.										
Address: 4325 Rosanna Drive Allison Park, Pennsylvania 15101										
WELL LOC	CATION: PE	PG Industries								
Address: G	ARFIELD AN	ND CARTERE								
County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.1										
Easting (X): 611154 Northing (Y): 683927 Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL DECOMMISSIONED: November 28, 2012										
WELL USE: MONITORING										
Other Use(s)	):				Local ID: PP	6-3A				
Reason for D	ecommissionii	ng: No longe	r in use							
Finished Wel	ll Depth (ft.):	8		V	Was a New Well Dri	lled? N				
Formation Ty	pe: Unconso	lidated				nber:				
WELL DEC		NING INFOR	MATION							
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used			
Borehole	Тор (п.)	Dottom (It.)	(mones)			(lb	s/ch no.)			
Casing	0	3	2		PVC		sch 40			
Screen	3	8	2		PVC		.01			
MATERIAL						*				
	Depth to Top (ft.)	Depth to	Outer	Inner		Material				
Grout	0	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.) 23.5	Water (gal.)			
Sand/Gravel				0	1.5	23.3	2			
ADDITIONA	AL INFORMA	ATION								
Obstructions:	No			,	Authorization Offic	ial:				
Obstruction T					Authorization Numl	per:				
Alternative D	ecomm. Metho	od? No			Authorization Da	ate:				
Method Used						( <del></del>				
ATTACHME	NTS:									
	Paul Len									
	MONITO					NORTH AMERICA IN	VC.			
Sealing Driller: LICENSE # 545066 PO BOX 423  Company: West Creek (Ocean), NJ 08092							92			

Well Permit Number
2600080776

# WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: _I	HAMPSHIRE (	GROUP N/A					
Company/Org	ganization: 90	00 garfield ave	ppg					
Address: 90	00 garfield ave	Jersey City, N	ew Jersey 0730	2				
WELL LOC	ATION: ppg	g garfield ave						
Address: 90	00 GARFIELD	AVE. PPG G	ARFIELD AVE	•				
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 1	Block: 202	26.1	
Easting (X):	611159	Northing	(Y): 683602		DAT	TE WELL		
Coordinate System: NJ State Plane (NAD83) - USFEET				EET		SIONED: March 15, 2	2013	
WELL USE:	MONITOR	ING						
Other Use(s)	<b>:</b>				Local ID: PP	G-114-21A		
Reason for D	ecommissionir	ng: No longer	in use					
Finished Wel	l Depth (ft.):	18		W	as a New Well Dril	lled? N		
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nur	mber:		
WELL DEC	OMMISSION	NING INFORM	MATION					
	Depth to	Depth to	Diameter		Material		Screen # Used	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)	
Casing	0	3	2		PVC	Si	ch 40	
Screen	3	18	2		pvc		.10	
MATERIAL	S USED		l .		•			
	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Sand/Gravel	0	18	2	0		10	5	
	AL INFORMA	ATION						
					Authorization Offic	ial.		
						vial:		
Alternative Decomm. Method? No				Authorization D	ate:			
Method Used								
ATTACHME	ENTS:							

Thomas Lynch SGS NORTH AMERICA INC.
MONITORING PO BOX 423

Sealing Driller: LICENSE # 435631

Company:

West Creek (Ocean), NJ 08092

Well Permit Number 2600080777

# WELL DECOMMISSIONING DEPORT

			JOI MILITED DI	MING RELON	<u> </u>		
OWNER: _	HAMPSHIRE	GROUP					
ganization:I	Hampshire Grou	ир			-		
Maple Ave 1	Morristown, Ne	w Jersey 07960					
ATION: Fo	ormer PPG						
00 GARFIELI	O AVE. PPG G	ARFIELD AVE					
dson	Municipalit	y: _Jersey City		Lot: 1	Block: 20	026.1	
			EET			012	
				DECOMMIS	April 10, 2	013	
				Local ID: PP	G-114-21B		
	ng: No longer	r in use			V . 1 1 2 1 W		
			V	Vas a New Well Dri	lled? N		
OMMISSIO	NING INFORI	MATION					
Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter		Material		g/Screen # Used s/ch no.)	
					(10,	5/ CH HO.)	
0	29	2		PVC		40	
	19	6		Steel		.280	
	34	2		PVC		.010	
		Outer			Material		
0				Bentonite (lbs.)		Water (gal.)	
		2			94	5.2	
L INFORM	ATION						
No				Authorization Offic	cial: Lynn Stout		
уре:							
ecomm. Meth	od? No						
NTS:							
	ganization: Is Maple Ave Is Map	ganization: Hampshire Groot Maple Ave Morristown, New Sation: Former PPG DO GARFIELD AVE. PPG Godson Municipality Municipality Municipality Monthing that System: NJ State Plane (State Plane) Monthing that System: NJ State Plane (State Plane) Monthing that System: NJ State Plane (State Plane) Monthing that System: No longer that Depth (ft.): 34 Month Mo	ganization: Hampshire Group  Maple Ave Morristown, New Jersey 07960  ATION: Former PPG  O GARFIELD AVE. PPG GARFIELD AVE dson Municipality: Jersey City  611394 Northing (Y): 683875 nate System: NJ State Plane (NAD83) - USFI  MONITORING  Hopeth (ft.): 34  Pee: Unconsolidated  OMMISSIONING INFORMATION  Depth to Depth to Diameter (inches)  O 29 2  O 19 6  29 34 2  S USED  Depth to Depth to Diameter (inches)  Depth to Depth to Diameter (inches)  O 34 2  S USED  Depth to Depth to Diameter (in.)  O 34 2  AL INFORMATION  No  ype: ecomm. Method? No	ganization: Hampshire Group  5 Maple Ave Morristown, New Jersey 07960  CATION: Former PPG  DO GARFIELD AVE. PPG GARFIELD AVE.  dson Municipality: Jersey City  611394 Northing (Y): 683875  nate System: NJ State Plane (NAD83) - USFEET  MONITORING  : ecommissioning: No longer in use  I Depth (ft.): 34  pe: Unconsolidated N  OMMISSIONING INFORMATION  Depth to Depth to Top (ft.) Bottom (ft.) (inches)  0 29 2 0 19 6 29 34 2  S USED  Depth to Depth to Top (ft.) Bottom (ft.) Diameter (in.) Diameter (in.) 0 34 2 0  AL INFORMATION  No  ype:	TOWNER: HAMPSHIRE GROUP ganization: Hampshire Group 5 Maple Ave Morristown, New Jersey 07960  ATION: Former PPG DO GARFIELD AVE. PPG GARFIELD AVE. dson	ganization: _Hampshire Group	

Keith Butcher JOURNEYMAN Sealing Driller: LICENSE # 203616

SGS NORTH AMERICA INC. PO BOX 423 Company: West Creek (Ocean), NJ 08092



DWR 12/08

New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems and Well Permitting

# WELL DECOMMISSIONING REPORT

A1210018

MAIL TO: Bureau of Water Systems and Well Permitting

PO Box 426 Trenton, NJ 08625-0426

WELL PERMIT #	26006866	4
	of well decomm	issioned

1 renton, 183 08625-0426				DATE	WELL DECOM	MISSIONED $10$	-15-2012
PROPERTY	OWNER:	PSE6	Service	S Corr	)		
Mailing Add	ress: <u></u> &O_	Park Pla	27Q /	100001K	, UJ O	7102	
FACILITY/L	OCATION	NAME: FOO!	yer Hol	Liday 5	+ Gas W	Jor143	
Location Des	cription: <u>H</u>	alliday +	forest.	. <u>St,                                    </u>			
Well Address	: Halli	day it f	orest	<u>St </u>	.0.11		2:26 1
County:	ludson	Municipa	iliny: Jersey	City -	_ Lot: <u>2, 4</u>	5 Block	: <u>XUXQ : 1</u>
Easting (X):		Northin			•	•	,
			ine in US Survey Fee	et	Was a New W	'ell Drilled? \( \subseteq \text{Yes}	⊠№
Method: Survey Digital Image GPS			GPS	Pennit # of N	ew Well: <u>NA</u>	·	
WELL USE:	Moni	toring		Reason	for Decommissio	ning: Site exco	ruc from
WELL DECO	OMMISSION	ING INFORM	IATION				~
	1	Well Depth (ft.):	5	0	Local	1D: YW-3	D
	ĺ	Depth to	Depth to	Diamete		Material	Wgt./Rating or
		Top (ft.)	Bottom (ft.		) Place?		Screen Slot #
Borehole(s)		<u>o</u>	40/56	12/6	- AYTH	PVC	(lbs/sch no.)
Single/Inner	<del>-</del>	O	46			PVC	1 40
i	g/Tail Piece	<u>~</u>	40	1		Steel	40
Outer Casing Screen(s)		46	40	$\frac{\phi}{2}$		DV.C	010,
<u> </u>	LIOPE TO		ONWELL				1 1010
MATERIAL	Depth to	DECOMMISSI Depth to	ON WELL	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)		.) Water (gal.)
Grout	0	36	2	0	15	5	10
Gravel Pack							
Formation T	ype: 🔲 Co	onsolidated 😾	Unconsolidated	d		•	
ADDITIONA		•					
Obstructions	Yes `	Z No			Authorization (	Official:	
Obstruction 1	Гуре:/	JA			Authorization N	lumber: <u>NA</u>	
			y BWSWP?	] Yes ⊠No	Authorizatio	on Date: NA	
Method Used	I AJA :			·			
Drilling Com	pany Name &	: Address: Z	EBRAL EN	ישאל מסליימי	10/ 629	uright Deb	icw Bd
			d in accordance				
6.00	A +		61/0	9777	-	MDi	540
	srensed Well I Vork (Print o		nature of NJ Lic	ensed Well Dri	ller Performing W	ork	Registration #

DWR 12/08

# New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems and Well Permitting

MAIL TO: Bureau of Water Systems and Well Permitting PO Box 426				WELL PERMIT # 160068638				
_	Frenton, NJ	08625-0426		DATI	E WELL DECOM	IMISSIONED	10-1	5-12
	· · · · · · · · · · · · · · · · · · ·				.,,		• • • • • • • • • • • • • • • • • • • •	
PROPERTY	OWNER:	<u>PGEG</u>	Service	5 COL	<u> </u>			<del></del>
Company/Or	ganization:							
Mailing Add	ress: <u>80</u>	Park Plaz	e / Lewo	ich, WI	07/02	2		<u> </u>
FACILITY/L	OCATION I	NAME:	<u> </u>					
Location Des	cription: <u>H</u>	alliday T	torres	t 5ts f	OIHEL +	lalliday	<u> Gos</u>	WORKS
Wall Address	11 115 1	· · · / [	-motor	1.		· .		and the second second
County:	Judson	Municipa	ility: Jersey	Cy	Lot: 2, 4,	5	Block:	2026.1
Easting (X):		Northin						
	D 83 Horizontal		ine in US Survey Fe	et	Was a New	Well Drilled?	] Yes ▶	₹\No
Method		urvey 🔲 Dig		GPS	Permit # of ?	dew Well:		
WELL USE:	Joni	foring.		Reasor	n for Decommissi	oning: <u>Exca</u>	Jating	site
		NING INFORM	IATION	_		-	۲	
.,		Well Depth (ft.):	1 /	2	Loc	al ID: <u>HW</u>	<u>.35</u>	<u>)                                    </u>
	·	Depth to	Depth to	Diamete	· · · · · · · · · · · · · · · · · · ·	Material		Wgt./Rating or
<u></u>		Top (fl.)	Bottom (ft.		) Place?			Screen Slot #
Borehole(s)			12	6	NV DV	0.1.6		(lbs/sch no.)
Single/Inner				<u> </u>	и [] Y-K] и [] V []	PV C	<del></del>	Sch 40
Middle Casir	<del>-</del> - +	<u> </u>			N N			
Outer Casing Screen(s)		NA 1	1,7	1	N Y N	DIC		010 sch 40
		DECOMMEN	ONWELL		יים י ובקו			010 9(1)1()
MATERIAL	Depth to	DECOMMISSI Depth to	ON WELL	lnner		Mat	lerial	
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs			Water (gal.)
Grout	0	12	$\mathcal{A}$	0	16	2		10
Gravel Pack								
Formation T	уре: 🔲 Со	nsolidated 📈	(Unconsolidated	d				
ADDITIONA								
Obstructions:	☐ Yes	X No			Authorization	Official:		
Obstruction 7	ype:	<u></u>			Authorization	Number:		
			y BWSWP? 🗀		Authorizati	on Date:		
Method Used								
Drilling Com	pany Name &	Address: Zt	BEH Env	iron yen)	(a/			
I certify that t	his well was	decommissioned	in accordance	with N.J.A.C. 7	:9D-3 et seq.			-
Cary R	irent		6 Taite	A		<i>M</i>	D15	40
Name Of Lie Performing V	censed Well I		nature of NJ Lic	ensed Well Dri	ller Performing V	Vork	Reş	gistration #

	***************************************
DWR	5
12/08	

Name Of Licensed Well Driller Performing Work (Print or Type)

New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems and Well Permitting

WELL DECOMMISSIONING REPORT

APX	A121003C
PL.	H171002C

Registration #

C 2 3 2 C	بالما مايناتية	 Down itti	n a ·

Trenton, N	IJ 08	625-0426
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WELL PERMIT#	2600068665
	of well decommissional

PO Box 426	•				,, <u>, , , , , , , , , , , , , , , , , ,</u>	of well decommissioned
	J 08625-0426					
			DATE	WELL DECOMM	iissioned <u>10 ~</u>	12-4014
PROPERTY OWNER:	DSFG	Services	(10)			
PROPERTY OWNER: Company/Organization:	<del>1</del> · · · · · ·	'1	y 1	1		•
Mailing Address: SC	Dal Pl	370 11	01:014	. UT O	7102	
		•		-		
FACILITY/LOCATION				- 605 li	10195	
Location Description:				·		
Well Address: Hal	liday & f	oiest s	<u>* -                                   </u>			2.26
County: Hudson	Municipa	lity: Jersey	<u>City</u>	_ Lot: <u>2, 4</u> _	.5 Block:	2026:1
	Northing			- '		
	tal Datum) NJ State Pla		<del></del> [.	Was a New Wo	ell Drilled? 🗌 Yes 🏋	∑No
·	Survey 🔲 Digi		PS		w Well: <u> </u>	
WELL USE: HO	.1				ing: Site excau	e Lico
WELL DECOMMISSION						9 119/1
MELL DECOMMISSION		11/2		1 0001	1D: <u>HW4D</u>	
	Well Depth (ft.):					111 + /D
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Left in Place?	Material	Wgt./Rating or Screen Slot #
Borehole(s)	1 (1)	32/36	12/6	-   '	·	(lbs/sch no.)
Single/Inner Casing	10	38	2	BYON	PVC	40
Middle Casing/Tail Piec	:e			O Y DN		
Outer Casing	6.	32_	6	DY DN	Steel	40
Screen(s)	38	48	1 2	N P	PVC	
MATERIALS USED TO					<b>k</b> F <b>1</b> . 1	
Depth to Top (ft		Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)
Grout O	48	2	0	75	5	10
Gravel Pack						
Formation Type:	Consolidated 😾	Unconsolidated				
ADDITIONAL INFOR	<i>Y</i>	/				
	No No			Authorization O	fficial: A A	
	, ,				, .	
Obstruction Type:	•	outours F3:		Authorization No		
Alt. Decomm. Method/	Approval granted b	ARM2ML3 []	res IXI No	Authorization	Date: NA	
Method Used				1 1		N 1
Drilling Company Name	e & Address: 7 F	BDA Fin	MAN MAIN	10/ 629 1	windst Debai	:. i5d

I certify that this well was decommissioned in accordance with NS

Signature of NI Licensed Well Driller Performing Work

DWR 12/08

. MAIL TO: Bureau of Water Systems and Well Permitting

New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems and Well Permitting

# WELL DECOMMISSIONING REPORT

WELL PERMIT #

PQ Box 426 Trenton, NJ 08625-0426 DATE WELL DECOMMISSIONED 10 - 15-2012 PROPERTY OWNER: PSEG Company/Organization: Mailing Address: S() Location Description: Halliday Well Address: Holliday Municipality: \ Northing (Y): Easting (X): Was a New Well Drilled? 

Yes No (NAD 83 Horizontal Datum) NJ State Plane in US Survey Feet Permit # of New Well: Survey Digital Image DGPS Method: Reason for Decommissioning: Site excavo fica Monitoring WELL USE: WELL DECOMMISSIONING INFORMATION Well Depth (ft.): Wgt./Rating or Diameter Left in Material Depth to Depth to Place? Screen Slot # Bottom (ft.) (inches) Top (ft.) (lbs/sch no.) Borehole(s) Single/Inner Casing 40 +2 Middle Casing/Tail Piece  $\square$  Y  $\square$ N Outer Casing Screen(s) MATERIALS USED TO DECOMMISSION WELL Material Inner Depth to Depth to Outer Diameter (in) Neat Cement (lbs.) Top (ft.) Bottom (ft.) Diameter (in.) Bentonite (lbs.) Water (gal.) Grout Gravel Pack Consolidated Unconsolidated Formation Type: ADDITIONAL INFORMATION Yes X No Authorization Official: AA Obstructions: Authorization Number: 117-Alt. Decomm. Method/Approval granted by BWSWP? Yes No Authorization Date: NA Method Used \_\_\_//A\_ Drilling Company Name & Address: ZEBRA Environ Hentol 629 Wright I certify that this well was decommissioned in accordance with N.J.A.C. 7:9D-3 et seq. Gary Parent Signature of NJ Licensed Well Driller Performing Work Name Of Licensed Well Driller Registration #

Performing Work (Print or Type)

DWR 12/08

# New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems and Well Permitting

MAIL TO: Bureau of W PO Box 426	ater Systems and	l Well Permittir	ıg		WELL PERMIT#	2600068659 of well decommissioned
	08625-0426	Ť .	DATE	WELL DECOM	NISSIONED 10	-15-12
PROPERTY OWNER: Company/Organization:						
Mailing Address:OC	YOSK I	10 24	<u>NEMOLR</u>		1	
FACILITY/LOCATION	NAME: FOR	Her Ha	Hiday	St 605	WORKS	
Location Description:	1011100Y +	<u>) Orres</u> li	/			
County: Hod SO 17	Municipal	liv Jancou	City	Lot: 2 4	5 Bloc	k: 2026.1
				<del></del>		
Easting (X):	Northing  1 Datum) NJ State Plar			Was a New W	ell Drilled? 🔲 Yes	s 📈 No
· ·	Survey 🔲 Digi		i	Permit # of No	w Well:	
WELL USE: MOU	. 7			for Decommission	ning: <u>excava</u>	41017
WELL DECOMMISSIO			,			· · · · · · · · · · · · · · · · · · ·
	Well Depth (ft.):_			Local	ID: <u>MW - 4</u>	15
·	Depth to Top (fl.)	Depth to Bottom (ft.)	Diamete (inches	1 1	Material	Wgt./Rating or Screen Slot #
Borehole(s)	0	12	6	NV DV	216	(lbs/sch no.)
Single/Inner Casing	0	1 2	- L		PVC	70
Middle Casing/Tail Piece Outer Casing		<u> </u>	<del> </del>	N Y N		
Screen(s)	2	12	12	ØY □N	PV C	1010 Sch 40
MATERIALS USED TO	DECOMMISSION	ON WELL				
Depth to	Depth to	Outer	Inner	Doutonite (lbs.)	Material Neat Cement (Ib	os.) Water (gal.)
Grout (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	1 2	(Ss.) Water (gail.)
Gravel Pack	10					
Formation Type: XC	onsolidated	Unconsolidated				
ADDITIONAL INFORM				•		
Obstructions:	No No			Authorization C	Official:	
Obstruction Type:				Authorization N	umber:	
Alt. Decomm. Method/A	pproval granted by	BWSWP?	Yes 💢 No	Authorizatio	n Date:	
Method Used				-		
Drilling Company Name	& Address: ZE	BPA 629	9 Wrigh	+ Debow	Rd. Vog	4.5017
I certify that this well was		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		•	
Con Daront	-	Colonis	1		MD	1540
Name Of Licensed Well	•	nature of NJ Lice	nsed Well Dri	ller Performing W	ork	Registration #

DWR 5

New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems and Well Permitting

# WELL DECOMMISSIONING REPORT

MAIL TO: Bureau of Water Systems and Well Permitting

PO Box 426

Trenton, NJ 08625-0426

ll Permitting	A1210017
WELL PERMİT	#260006 8666

of well decommissioned

				DATE	WELL DECOM	MISSIONED 10	10-2012
PROPERTY	OWNER:	PSE6	Service	5 COND	)		
Company/Ors	enization:	71	• •	, ,			
Mailing Addr	ess: _&O_	Park Pla	17a, 1	Lowork	O TU,	7102	
					t Gas L		
Location Des	cription: H	alliday +	Forest.	St			·
Well Address	: Hall	day of I	7501m	SK-			
County: L	100 50 K	Municipa	ulity: Jersey	City	Lot: 2.4	5 Block:	2026.1
	<u> </u>				_ 33/-1-	-	
Easting (X):	3 B3 Harimanal	Northin	g (Y); .ne in US Survey Fee		Was a New W	'ell Drilled? ☐ Yes ∫	Z No
Method		urvey 🔲 Dig		GPS		ew Well: NA	<b>Q</b>
		1	nar mage [	· · · · · · · · · · · · · · · · · · ·		ning: Site excar	10 V tora
WELL USE:			· mon	Reason	· Of Decommissio	mile: JIFE ENCOL	70 F1011
WELL DECC		ING INFORM	1771		s 1	ID: MW5[	`
	<u>'</u>	Well Depth (ft.):					
		Depth to	Depth to Bottom (ft.)	Diamete (inches)	I	Material	Wgt./Rating or Screen Slot #
Borehole(s)		Top (ft.)	53/7/	12/6	) Trace:		(lbs/sch no.)
Single/Inner (	Casing	- <del>8</del> -	61	1 2	DYON	PVC	40
Middle Casin		87			□ Y □N		
Outer Casing		0	53	6	12Y DN	Steel	40
Screen(s)		al	171_	<u> </u>		<u>PVC</u>	,010
MATERIALS	USED TO	DECOMMISSI	ON WELL	······································		·······	
	Depth to	Depth to	Outer	Inner	Daniel (Iba)	Material Next Compat (lbs.)	Water (gal.)
C-out	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	20
Grout Gravel Pack	<u> </u>		<u> </u>			1.79	1_0
<del></del>	ne: Co	nsolidated &	Unconsolidated	1			
ADDITIONA		· · · · · · · · · · · · · · · · · · ·	•				
Obstructions:		,		,	Authorization C	Official: ///4	
Obstruction T					Authorization N	, ,	
			y BWSWP?	Yes No	Authorizatio	n Date: NA	
Method Used			, <u> </u>		٠.		
	•	Address: Z.F	BRA EN	MAN AUTHOR	10/ 629 1	Uright Debo	w Rd
			i in accordance v			)	
/ D	1	,	(1)			MDIZ	540
Vary You	rensed Well I	Oriller Sign	nature of NI Lie	ensed Well Dril	ler Performing W	,	gistration #
Performing W		•	and office and			•	•

DWR 12/08

# New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems and Well Permitting

MAIL TO: I	Bureau of W	ater Systems an	d Well Permitt	ing	,	WELL PERMIT #	1600068660
PO Box 426 Trenton, NJ 08625-0426							of well decommissioned
1	frenton, NJ	08625-0426		DATE	WELL DECOM	MISSIONED 10	- 15-2012
					<b> </b>		
PROPERTY	OWNER:	PSEG_S	enice	5			· .
Company/Or	ganization: _	<u> </u>	17				
Mailing Addi	ess: <u>80</u>	Pork P	laze i	kwoik_	NJ 071	6,2	<u>.                                    </u>
FACILITY/L	OCATION	NAME: Hal	Viday Go	s works		,	·
Location Des	cription:	NAME: Hal	11 1	1			······································
Wall Address	. Halled	ay + 7at	NY 4 SY			<u></u>	
Well Address		Ay + JOA	line Town	Cike	10: 24°	Block:	2026.1
County: 171	UU SCWI	Municipa	illy. 141-1-4	<u> </u>	<del>[0] _127 [] =</del>	Diock.	
Easting (X):_		Northin	g (Y):			CHEN METV.	1 <del>-1/1</del>
(NA)		Datum) NJ State Pla				Vell Drilled? ☐ Yes	M NO
Method	i: <u>S</u>	Survey Dig	ital Image	GPS	•	ew Well: <u>ルパー</u>	<u> </u>
WELL USE:	Mcni	KNUG	······································	Reason	for Decommission	ming: <u>excavo i</u>	icu
WELL DECO	OMMISSIO	NING INFORM	IATION		•	ا	
		Well Depth (ft.):	12	±-1	Loca	IID: MW5	<u>S</u>
	ĺ	Depth to	Depth to	Diamete		Material	Wgt./Rating or
		Top (ft.)	Bottom (ft.		) Place?		Screen Slot #
Borehole(s)	á ·	<u>O</u>	12.	16	TOY ON	PVC	(lbs/sch no.)
Single/Inner			- 2		NO Y D	FVC	<u> </u>
Outer Casing	<u> </u>	<del></del>			N Y		
Screen(s)		2	172	12	NO Y C	PVC	:010
	LISED TO	— <i>∞</i> DECOMMISSI	ON WELL	1			· · · · · · · · · · · · · · · · · · ·
MATERIAL	Depth to	Depth to	Outer	lnner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.	Neat Cement (lbs.	· · · · · · · · · · · · · · · · · · ·
Grout	C	12	2	0	15		10
Gravel Pack							
Formation T	ype: 🔲 Co	onsolidated 🗵	Unconsolidate	d			
ADDITIONA	L INFORM	ATION		•			
Obstructions:	☐ Yes	[☑ No			Authorization (	Official:	
Obstruction 7	ype:	4			Authorization S	lumber:	
Alt, Decomm	. Method Ap	proval granted b	y BWSWP? 📋	Yes WNo	Authorizatio		
Method Used	NA	-	·. ·				
		& Address: Z	EBRA E	NVIB. 3	Jackson,	NJ	
I certify that t	his well was	decommissione	d in accordance	with N.J/A.C. 7	:9D-3-et-seq?		
Const	ZOLOWAN			restrict		MN	1540
Name Of Lie	censed Well	Driller Sio	nature of NJ Lic	censed Well Dri	ller Performing W	ork R	Registration #
Performing V		_			· · · · · · · · · · · · · · · · · · ·	•	<del></del>

12/08

# New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems and Well Permitting

WELL.	DECOM	MISSIONING	REPORT
- 77 15 13 13		DELLEGISTOR	ILLI UILL

PO Box 4	<del>-</del>	a Well Permittin	g	,	WELL PERMIT # 📈	of well decommissioned
Trenton,	NJ 08625-0426		DATE	WELL DECOMM	IISSIONED 10 -	15-2012
PROPERTY OWNER Company/Organization	: PSEG	Services	COLD		· · · · · · · · · · · · · · · · · · ·	
	··					
Mailing Address: 50	) Park Pla	iza U	owork	O TU.	7102	····
FACILITY/LOCATIO	-	•		•		•
Location Description:	Halliday +	Inct 5	16 in		,	,
Well Address: Ha	Hidan & E	7-05+ C				-
County: Hedsei	) Municipa	lity: Jersey	City	Lot: 2, 4	5 Block:	2026.1
Easting (X):	<del>.</del>					
(NAD 83 Horizo	ontal Datum) NJ State Plan	ne in US Survey Feet			ell Drilled? 🗌 Yes 🕽	<b></b> N₀
Method:	Survey 🗌 Digi	tal Image 🔲 G		•	w Well: <u>NA</u>	
WELL USE: MC	mitaring_		Reason	for Decommission	ing: 5, to excal	ic kien
WELL DECOMMISS	,					$\overline{}$
	Well Depth (ft.):	.5/ /		Local	id: <u>MW: 61</u>	
	Depth to	Depth to	Diameter	1	Material	Wgt./Rating or Screen Slot #
	Top (ft.)	Bottom (ft.) 38/5()	(inches)	Place?		(lbs/sch no.)
Borehole(s) Single/Inner Casing	0	40	10/2	NOV	PVC ·	90
Middle Casing/Tail Pic		238		OY_N		
Outer Casing	0	38	6	ZYUN	Steel	40
Screen(s)	40	50	1 2	N DA	Pv'C	1070
MATERIALS USED	TO DECOMMISSI	ON WELL		. <u> </u>	3.6 (-) (-)	
Depth		Outer Diameter (in.)	lnner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)
Grout O	ft.) Bottom (ft.)	2	O	15	3	10
Gravel Pack	- 1,50					
Formation Type:	Consolidated	Unconsolidated				•
ADDITIONAL INFO	•					
Obstructions: Y	es 🛛 No			Authorization O	fficial: <u>////</u>	·
Obstruction Type: NA Authorization Number: NA						
Alt, Decomm. Method		y BWSWP?	Yes No	Authorization	n Date: NA	
Method Used AJA		•	, .			
Drilling Company Na		TROA FIN	LUMN HON	10/ 629 1	urialt lebo	3d
I certify that this well	was decommissioned	d in acgordance w	ith N.J.A.C. 7:	9D-3 et seq.	)	<del>-</del> -
	1	10 10			MDI	547)
Name Of Licensed W	/ell Driller Sig	nature of NJ Lice	rsed Well Dril	ler Performing Wo	ork R	egistration ≠

Performing Work (Print or Type)

DWR 12/08

# New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems and Well Permitting

MAIL TO: Bureau of Water Systems and Well Permitting				ing	WELL PERMIT # 26006 566/			
PO Box 426				•			of well decommissioned	
r	renton, NJ	08625-0426		DATE	WELL DECOM	MISSIONED 10	n-15-2012	
			,	DATE			7 10 0010	
PROPERTY	OWNER:	PSEG S	ervice :	5	-		· · · · · · · · · · · · · · · · · · ·	
Company/Or		<i>!</i> I	1/					
Mailina Adda	.acc: 2/	Drok P	1076 1	Bunne	NJ 071	62		
	•			1				
		NAME: <u>. Hal</u>	liday Go	s works	<del></del>			
Location Des			<i>"</i>	· · ·		<del></del> -		
Well Address	: Halled	ay + For	My St	- 3				
County: H	ud son	Municipa	ility: Tersoy	City	_ Lot: <u>24,</u> 5	Blo	ck: <u>2026,/</u>	
<u>, — — — — — — — — — — — — — — — — — — —</u>		<u></u>		·				
Easting (X):_	D 92 Havi matel	Northin Datum) NJ State Pla	g (Y): no in US Survey Fe	et	Was a New V	Vell Drilled? 🔲 Yo	es No	
		urvey Dig		GPS		ew Well: WA-		
Method		1	itar mage				7	
WELL USE:				Reason	i for Decommissio	oning: <u>CKCAN</u> C	J [(U)]	
WELL DECO	OMMISSIO!	NING INFORM	IATION 15	_		MULL	$\varsigma$	
	•	Well Depth (fl.):		, 	Loca	11D: <u>MW 6</u>	<u> </u>	
	ſ	Depth to	Depth to	Diamete	1 1	Material	Wgt./Rating or	
		Top (fl.)	Bottom (ft.		) Place?		Screen Slot # (lbs/sch no.)	
Borehole(s)	<u> </u>	<u> </u>	15	6	TOY ON	PVIC	Sch 48	
Single/Inner Middle Casin			<del>-   3</del>	<del></del>	NO Y			
Outer Casing					NO Y			
Screen(s)		<del></del>	15	12	NOVO	PVC	,010	
· · ·	LICED TO	DECOMMISSI			<u> </u>			
MAIERIAL	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.	) Neat Cement (I	bs.) Water (gal.)	
Grout	0	15		0	15		1_/0	
Gravel Pack								
Formation T	ype: 🔲 Co	onsolidated 🗵	Unconsolidate	d				
ADDITIONA								
Obstructions:	Yes	ID No			Authorization	Official:		
Obstruction 7				_	Authorization Number:			
		proval granted b	v RWSWP?	1 Yes TVNo	Authorizati	· — · · · · · · · · · · · · · · · · · ·		
		protar granted o	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.00 [2]				
Method Used			TEN! T	ahub +	7 1	11		
	• •	& Address: <u>Z</u>			Jackson,			
I certify that	this well was	decommissione	d in accordance	with N.J.A.C.	4915-3 et seq.		~ . > 1 B	
Court	DULPUH	<b></b> - ·	(0) 7017Ti	T		$\mathcal{M}$	) 1540	
	censed Well		nature of NJ Lic	censed Well Dri	ller Performing W	ork	Registration #	
Performing V	Vork (Print o		V	•				

DWR 12/08

PROPERTY OWNER:
Company/Organization:
Mailing Address:

Location Description:

County: Hu

Easting (X):

Borehole(s)

Outer Casing Screen(s)

Single/Inner Casing
Middle Casing/Tail Piece

Formation Type:

Performing Work (Print or Type)

Method:

New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems and Well Permitting Approval

# WELL DECOMMISSIONING REPORT

MAIL TO: Bureau of Water Systems and Well Permitting

Northing (Y):

Depth to

Bottom (ft.)

Unconsolidated

(NAD 83 Horizontal Datum) NJ State Plane in US Survey Feet

Well Depth (ft.):

Depth to

Top (ft.)

Consolidated

Survey Digital Image

PO Box 426

Trenton, NJ	08625-0426
-------------	------------

FACILITY/LOCATION NAME: FULL EL

WELLUSE: MONIYONING

WELL DECOMMISSIONING INFORMATION

of well decommissioned
15-2012
• .
2026
N₀
evo from
Wgt./Rating or
Screen Slot # (lbs/sch no.)
Sch 40
J. 7. 7
Sch 40 .010

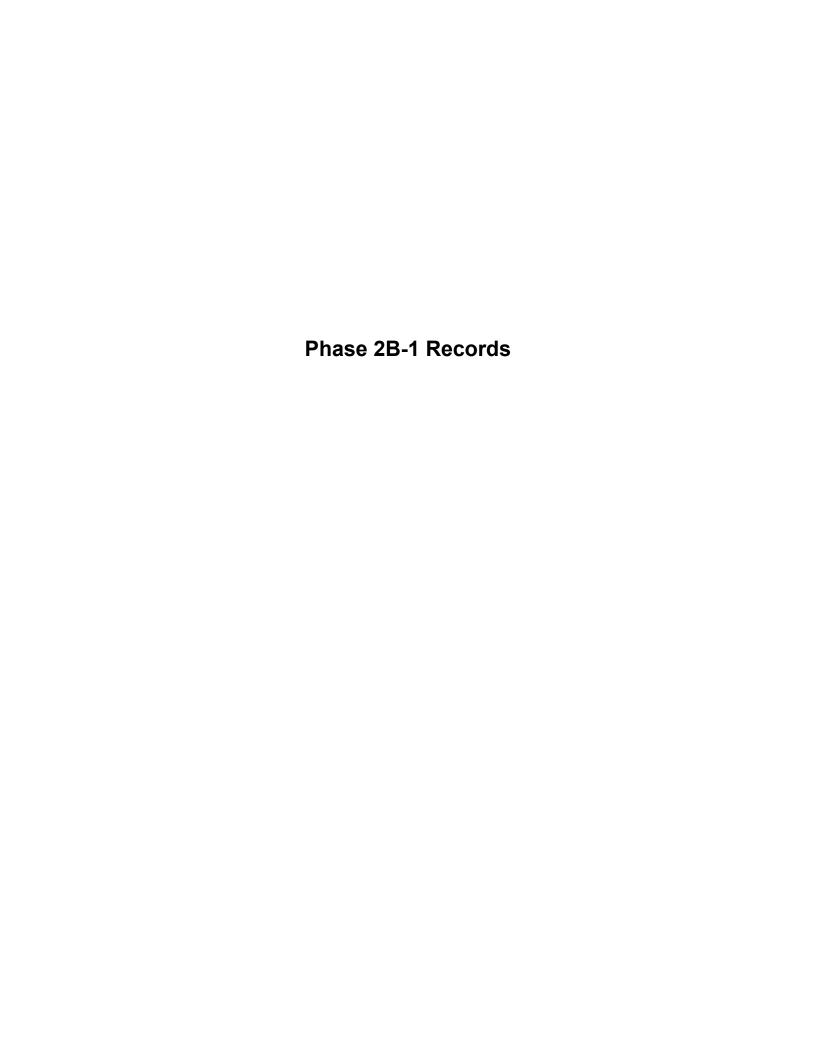
MATERIALS	USED TO D	<b>ECOMMISSI</b>	ON WELL			Material	
	Depth to	Depth to	Outer	Inner			
	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	Ö	66	2	0	35		20
Gravel Pack							

ADDITIONAL INFORMATION	•
Obstructions: Yes No	Authorization Official:
Obstruction Type: NA	Authorization Number:
Alt, Decomm, Method/Approval granted by BWSWP? Yes No	Authorization Date:
Method Used	
Drilling Company Name & Address: ZEBD EININON	ypnial Jockson, NJ
I certify that this well was decommissioned in accordance with N.J.A.q. 7	
Cory Parent 1/Kall/IX	MD1540
Name Of Licensed Well Driller Signature of N. Licensed Well Dri	iller Performing Work Registration #

DWR 12/08

New Jersey Department of Environmental Protection Division of Water Supply - Bureau of Water Systems and Well Permitting

		· · · · · · · · · · · · · · · · · · ·	1111 11 11 11 1111		,		WELL PERMIT # _	NA
	Bureau of Wa O'Box 426	ater Systems an	d Well Permitti	ing			WELL PERMIT # _	of well decommissioned
	renton, NJ	08625-0426						
			-	DATE	WE	LL DECOM	MISSIONED	-13-2012_
PROPERTY	OWNER:	CLIF	1550Cia	105				
Company/Org		11	11					
Mailing Addr	ress: $\frac{1}{2}$	520 P	alk St	· UNIC	100	NJ.		
		NAME: FOR						
FACILITY	OCATION:	NAME: 101	allidara	54 1006	11	6165		
Location Des	cription: 🔫	SINET M	Tallast	C+		201_175		* .
Well Address	: Mallia	ay 37 1.	101NOS/_	01 C.V.	·	7-	K Disabi	2026
County: <u> </u>	udson.	Municipa	lity: <u>Jerse</u>	<u> </u>	_	.ot: <u>5 ~ .</u>	Block:	
Easting (X):		Northin	g (Y):	,	ļ			J
. (NAI	D 83 Horizontal	Datum) NJ State-Pla	ne in US Survey Fee	et			Well Drilled? Yes	₩ No
Method		urvey 🗌 Dig		GPS	•	'	lew Well:	
WELL USE:	MONI	YORING	<u> </u>	Reason	for I	Decommissi	oning: Site exce	avatron
		VING INFORM		,	,		1.1 -217	
		Well Depth (ft.):		) ′		Loca	11D:W-313	
	(	Depth to	Depth to	Diamete		Left in	Material	Wgt./Rating or
		Top (ft.)	Bottom (ft.		)	Place?		Screen Slot # (lbs/sch no.)
Borehole(s)		0	30	- 6		WYIN	PVC	Sch 40
Single/Inner ( Middle Casin			20			N Y N		JCV) 10
Outer Casing						□ Y □N		
Screen(s)		20	30	<b>Q</b> 8		DY DN	PVC	Sch 40 .010
	S USED TO	DECOMMISSI						
	Depth to	Depth to	Outer	Inner			Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Be	entonite (lbs.	) Neat Cement (lbs.	
Grout	0	30	2			15		10
Gravel Pack								
		onsolidated [2	Unconsolidate	d				
ADDITIONA							or ' l	
Obstructions:		_						
Obstruction 7				· · ·	. Au			
		proval granted b	y BWSWP?	]Yes ∐No		Authorizati	on Date:	
Method Used			7 7 h l 7			Vil		· · · · · · · · · · · · · · · · · · ·
		& Address: Z					Tockson,	0)
I certify that t	this well was	decommissioned	1 in accordance	with N.J.A.V.	₩)•.	et seq.	N.	ICUA.
Gary Po	rent		UIC	ellur_				1570
Name Of Lie Performing V	censed Well Vork (Print o		nature of NJ Lic	ensed Well Dri	Her P	erforming V	/ork f	Registration #



Well Permit Number 2600081649

			WELL DEC	COMMISSIC	ONING REPOR	<u>T</u>				
PROPERTY	OWNER: _	JERSEY CITY	ζ							
Company/Organization:										
Address: 575 Route 440 Jersey City, New Jersey 07305										
WELL LOC	CATION: Fo	rmer PPG								
Address: 2 DAKOTA ST. PPG INDUSTRIES (FORMER)										
County: Hudson Municipality: Jersey City Lot: 3A Block: 2026A										
			(Y): <u>683774</u> NAD83) - USFI			TE WELL	010			
WELL USE: MONITORING  DECOMMISSIONED: April 10, 2013										
Other Use(s)					Local ID: PP	G-114 <b>-</b> 23A				
		ng: No longer								
	l Depth (ft.):			V	Vas a New Well Dri	lled? N				
Formation Ty	pe: Unconsc	olidated				nber:				
WELL DEC		ING INFOR	MATION			-				
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used			
Borehole	Top (It.)	Dottom (It.)	(menes)			(1b)	s/ch no.)			
Casing	0	2	2		PVC		40			
Screen	2	18	2		PVC		.010			
MATERIAL										
	Depth to	Depth to	Outer	Inner		Material				
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.) 5.2			
Sand/Gravel		10	2	U		94	5.2			
ADDITIONA	AL INFORMA	ATION								
Obstructions:	No				Authorization Offic	cial:				
Obstruction T	ype:				Authorization Num	ber:				
	ecomm. Meth	ado Ma		-	Authorization D					
Method Used		-				3=				

Keith Butcher JOURNEYMAN Sealing Driller: LICENSE # 203616

SGS NORTH AMERICA INC. PO BOX 423 Company: West Creek (Ocean), NJ 08092

Well Permit Number 2600081703

PROPERTY OWNER: JERSEY CITY  Company/Organization: Jersey City  Address: 575 Route 440 Jersey City, New Jersey 07305  WELL LOCATION: Former PPG  Address: 2 DAKOTA ST. PPG INDUSTRIES INC.  County: Hudson Municipality: Jersey City Lett 3A Placks 2026A											
Address: 575 Route 440 Jersey City, New Jersey 07305  WELL LOCATION: Former PPG  Address: 2 DAKOTA ST. PPG INDUSTRIES INC.											
WELL LOCATION: Former PPG  Address: 2 DAKOTA ST. PPG INDUSTRIES INC.											
Address: 2 DAKOTA ST. PPG INDUSTRIES INC.											
County: Hudson Municipality: Jersey City, Lett 24											
County: Hudson Municipality: Jersey City Lot: 3A Block: 2026A											
Easting (X): 611569 Northing (Y): 683780 Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL DECOMMISSIONED: April 10, 2013											
WELL USE: MONITORING											
Other Use(s): Local ID: PPG-114-23B											
Reason for Decommissioning: No longer in use											
Finished Well Depth (ft.): 40 Was a New Well Drilled? N											
Formation Type: Unconsolidated New Well Permit Number:											
WELL DECOMMISSIONING INFORMATION											
Depth to Depth to Diameter Material Wgt/Rating/Screen # Used Top (ft.) Bottom (ft.) (inches) (lbs/ch no.)											
Borehole Top (ft.) Bottom (ft.) (inches) (lbs/ch no.)											
Casing 0 35 2 PVC 40											
Casing 0 19 6 Steel .280											
Screen 35 40 2 PVC .010											
MATERIALS USED											
Depth to Depth to Outer Inner Material Top (ft.) Bottom (ft.) Diameter (in.) Diameter (in) Bentonite (lbs.) Neat Cement (lbs.) Water (cal											
Top (ft.) Bottom (ft.) Diameter (in.) Diameter (in) Bentonite (lbs.) Neat Cement (lbs.) Water (gal. Grout 0 40 2 0 94 5.2											
Sand/Gravel 5.2											
ADDITIONAL INFORMATION											
Obstructions: No Authorization Official: Lynn Stout											
Obstruction Type: Authorization Number: A1303058											
Alternative Decomm. Method? No Authorization Date: March 18, 2013											
Method Used											
ATTACHMENTS:											

Keith Butcher **JOURNEYMAN** Sealing Driller: LICENSE # 203616

SGS NORTH AMERICA INC. PO BOX 423

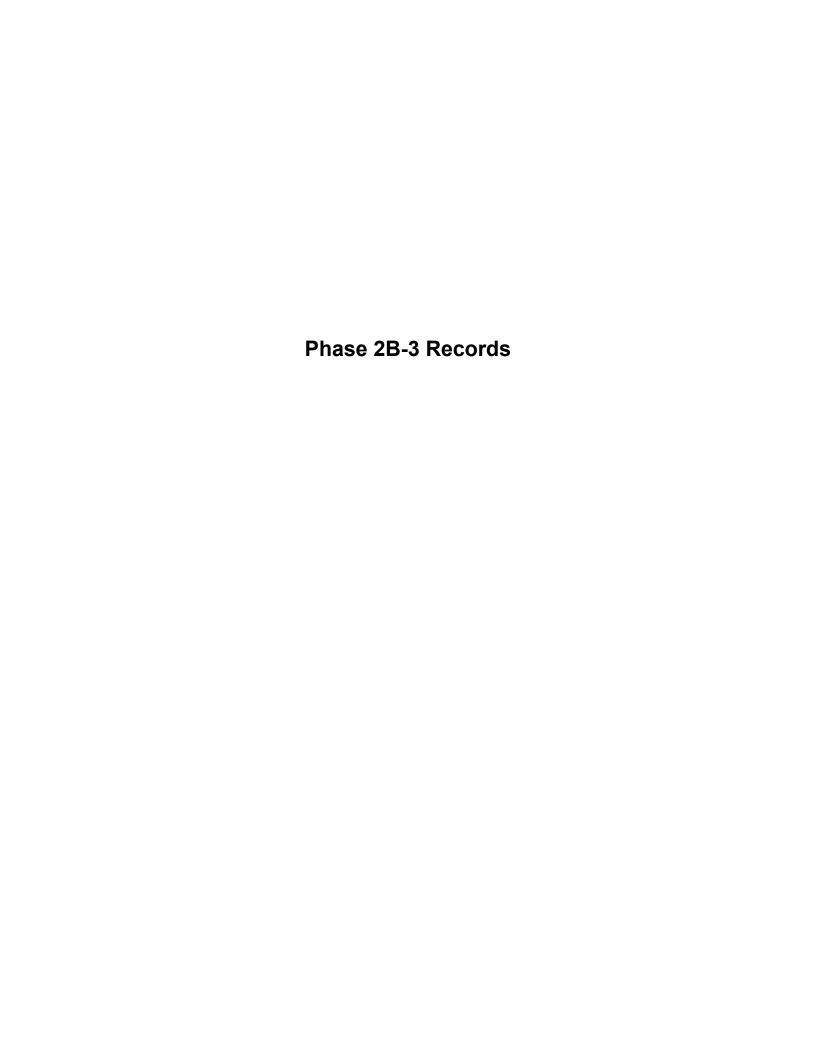
Company: West Creek (Ocean), NJ 08092

Well Permit Number **2600068656** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY										
Company/Organization: Jersey City Redevelopment Agency										
Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302										
WELL LOCATION: PPG										
Address: HALLIDAY & FORREST STS FORMER HALLIDAY ST GAS WORKS										
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 16	Block: 21	501			
Easting (X): 611430 Northing (Y): 683837 DATE WELL										
·			NAD83) - USFI			SIONED: November:	21, 2012			
WELL USE:	MONITOR	ING					•			
Other Use(s): Local ID: MW-1S										
			vated/Demolishe							
Finished Well Depth (ft.): 12 Was a New Well Drilled? N										
Formation Type: Unconsolidated New Well Permit Number:										
WELL DEC	OMMISSION	NING INFORM	MATION							
	Depth to	Depth to	Diameter		Material		g/Screen # Used			
D 1.1	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)			
Borehole	0	2	2		PVC		Sch 40			
Casing Screen	2	12	2		PVC	2	SCII 40			
		12	2		1 V C					
MATERIAL	Depth to	Depth to	Outer	Inner		Material				
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)			
Grout	0	12	2	0	3	47	5			
Sand/Gravel										
ADDITIONA	AL INFORM	ATION								
Obstructions:	No				Authorization Offic	ial:				
Obstruction T	_				Authorization Numb	oer:				
Alternative D	ecomm. Method	od? No			Authorization D	ate:				
Method Used										
ATTACHMENTS:										

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423



Well Permit Number **2600068663** 

# WELL DECOMMISSIONING REPORT

WELL DECOMMISSIONING REPORT										
PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY										
Company/Organization: Jersey City Redevelopment Agency										
Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302										
WELL LOC	ATION: PP	G								
Address: HALLIDAY & FORREST STS FORMER HALLIDAY ST GAS WORKS										
County: Hudson Municipality: Jersey City Lot: 18 Block: 21501										
			(Y): <u>683110</u> NAD83) - USFI	EET	DATE WELL DECOMMISSIONED: June 5, 2014					
WELL USE:	MONITOR	ING								
Other Use(s):         Local ID:         MW-2D										
Reason for D	ecommissionii	ng: Site Excar	vated/Demolishe	ed						
Finished Wel	l Depth (ft.):	43		V	Vas a New Well Dri	lled? N				
Formation Ty	pe: Unconso	lidated		N	ew Well Permit Nur	nber:				
WELL DECOMMISSIONING INFORMATION										
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)			
Borehole										
Casing	0	33	2		PVC		Sch 40			
Casing	0	19	6		Steel	1	Sch 40			
Screen	33	43	2		PVC					
MATERIAL	S USED									
	Depth to	Depth to	Outer	Inner	D (11)	Material	**** ( 1 )			
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)			
Sand/Gravel	0	73	2	U	13	141	10			
ADDITION	AL INFORMA	ATION								
Obstructions:	No				Authorization Offic	eial: Michael Schuma	acher			
Obstruction T	Sype:				Authorization Numl	ber: A1405021				
Alternative D	ecomm. Metho	od? No			Authorization Date: May 7, 2014					
Method Used	·									
ATTACHMENTS:										

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **2600068657** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY										
Company/Organization: Jersey City Redevelopment Agency										
Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302										
WELL LOCATION: PPG										
Address: HALLIDAY & FORREST STS FORMER HALLIDAY ST GAS WORKS										
County: Hudson Municipality: Jersey City Lot: 18 Block: 21501										
Easting (X): 611070 Northing (Y): 683117 DATE WELL										
			NAD83) - USFI			E WELL SIONED: November 2	26, 2013			
WELL USE:	MONITOR	ING				<u> </u>				
WELL USE: MONITORING  Other Use(s): Local ID: MW-2S										
Reason for Decommissioning: Site Excavated/Demolished										
		12			/as a New Well Dril	lled? N				
Formation Ty	pe: Unconso	lidated				mber:				
WELL DECOMMISSIONING INFORMATION										
	Depth to	Depth to	Diameter		Material		g/Screen # Used			
D 1.1	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)			
Borehole	0	2	2		PVC		-1- 40			
Casing Screen	2	12	2		PVC		.010			
		12	Z		rvc		.010			
MATERIAL	Depth to	Depth to	Outer	Inner		Material				
	Top (ft.)	Bottom (ft.)		Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)			
Grout	0	12	2	0	5	94	6			
Sand/Gravel										
ADDITIONA	AL INFORMA	ATION								
Obstructions:	No				Authorization Offic	ial:				
Obstruction T	Type:				Authorization Numb	oer:				
Alternative Decomm. Method? No Authorization Date:										
Method Used										
ATTACHMENTS:										

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Well Permit Number **2600069759** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY										
Company/Org	Company/Organization: Jersey City Redevelopment Agency									
Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302										
WELL LOCATION: PPG										
Address: GARFIELD AVE. & CARTERET AVE.										
County: Hudson Municipality: Jersey City Lot: 18 Block: 21501										
Easting (X): 611186 Northing (Y): 683317										
			NAD83) - USFI			<b>E WELL</b> SIONED: May 13, 20:	14			
WELL USE:	MONITOR	ING								
					Local ID: PP	6-7A				
			vated/Demolishe							
Finished Well	l Depth (ft.):	17		V	Vas a New Well Dril	lled? N				
Formation Ty	rpe: Unconso	lidated		No	ew Well Permit Nur	nber:				
WELL DECOMMISSIONING INFORMATION										
	Depth to	Depth to	Diameter		Material		/Screen # Used			
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)			
Casing	0	5	2		PVC	S	ch 40			
Screen	5	17	2		PVC		.010			
		1,			1,0		.010			
MATERIAL	Depth to	Depth to	Outer	Inner		Material				
	Top (ft.)	Bottom (ft.)	Diameter (in.)	L	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)			
Grout	0	17	2	0	5	94	6			
Sand/Gravel										
ADDITIONA	AL INFORMA	ATION								
Obstructions:	No				Authorization Offic	ial:				
					Authorization Numb	oer:				
Alternative Decomm. Method? No Authorization Date:										
Method Used										
ATTACHMENTS:										

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **2600069763** 

#### WELL DECOMMISSIONING REPORT

			WELL DEC	OMMISSIC	DNING REPOR	<u>1</u>				
PROPERTY	OWNER: _	N/A JERSEY C	CITY REDEVE	LOPMENT AG	ENCY					
Company/Organization: Jersey City Redevelopment Agency										
Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302										
WELL LOC	ATION: PP	G								
Address: GARFIELD AVE. & CARTERET AVE.										
County: Hudson Municipality: Jersey City Lot: 18 Block: 21501										
Easting (X): 611179 Northing (Y): 683320										
				PPT		TE WELL				
	<u> </u>		NAD83) - USFI	EEI	DECOMMIS	SIONED: May 14, 20	014			
WELL USE:	MONITOR	ING								
Other Use(s):         Local ID:         PP6-7B										
Reason for D	ecommissionii	ng: Site Excar	vated/Demolishe							
Finished Wel	l Depth (ft.):	33		V	Vas a New Well Dri	lled? N				
Formation Ty	pe: Unconso	lidated		N	ew Well Permit Nur	mber:				
WELL DEC		NING INFORM								
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material	_	Wgt/Rating/Screen # Used (lbs/ch no.)			
Borehole	10p (1t.)	Bottom (it.)	(menes)			(IC	S/CH HO.)			
Casing	0	19	6		Steel	,	Sch 40			
Casing	0	23	2		PVC	,	Sch 40			
Screen	23	33	2		PVC					
MATERIAL		1								
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material  .) Neat Cement (lbs.) Water (gal.)				
Grout	0	33	2	0	15	141	10			
Sand/Gravel										
ADDITION	AL INFORM	ATION								
Obstructions:	No				Authorization Offic	eial: Michael Schuma	acher			
Obstruction T	Type:				Authorization Numl	ber: A1405017				
Alternative D	ecomm. Meth	od? No			Authorization Date: May 7, 2014					
Method Used	. <u> </u>									
ATTACHME	ENTS:									

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **2600076985** 

# WELL DECOMMISSIONING REPORT

			WELL DEC	OMMINISSIC	MING KEI OK	<u> </u>				
PROPERTY	OWNER: 1	N/A JERSEY C	CITY REDEVE	LOPMENT AG	ENCY					
Company/Org	ganization: <u>Je</u>	ersey City Rede	evelopment Age	ncy						
Address: _30 Montgomery Street Suite 900 Jersey City, New Jersey 07302										
WELL LOC	ATION: PP	G								
Address: 872-931 GARFIELD AVENUE PPG GARFIELD AVENUE										
County: Hudson Municipality: Jersey City Lot: 18 Block: 21501										
Easting (X): 611186 Northing (Y): 683324 DATE WELL  Coordinate System: NJ State Plane (NAD83) - USFEET DECOMMISSIONED: May 13, 2014										
Coordii	nate System: N	IJ State Plane (	NAD83) - USFI	EET	DECOMMIS	SIONED: May 13, 20	)14			
WELL USE:	MONITOR	ING								
Other Use(s): Local ID: MW-7C										
Reason for De	ecommissionir	ng: Site Exca	vated/Demolishe	ed						
Finished Wel	l Depth (ft.):	52		V	Vas a New Well Dril	led? N	,			
Formation Ty	pe: Unconso	lidated	<u></u>	N	ew Well Permit Nur	mber:				
WELL DEC		ING INFOR								
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material	_	g/Screen # Used s/ch no.)			
Borehole	10p (11.)	Dottom (it.)	(menes)			(10	<u>s/cii iio.)</u>			
Casing	0	42	2		PVC		Sch 40			
Casing	0	34	6		Steel		Sch 40			
Screen	42	52	2		PVC					
MATERIAL		1		ı						
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)			
Grout	0	52	2	0	25	188	13			
Sand/Gravel										
ADDITION	AL INFORMA	ATION								
Obstructions:	No				Authorization Offic	ial: Michael Schuma	ıcher			
Obstruction T	ype:				Authorization Numb	per: A1405018				
Alternative D	ecomm. Metho	od? No			Authorization Da	ate: May 7, 2014				
Method Used										

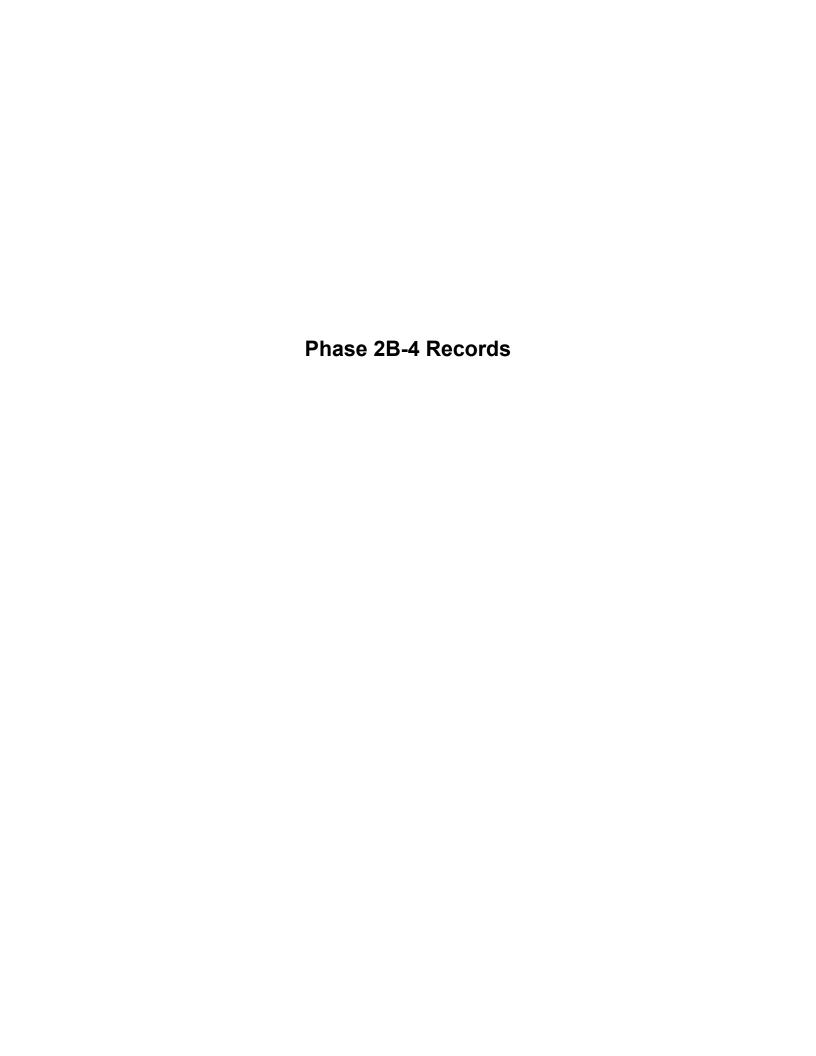
Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **2600076986** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY										
Company/Organization: Jersey City Redevelopment Agency										
Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302										
WELL LOCATION: PPG										
Address: 872-931 GARFIELD AVENUE PPG GARFIELD AVENUE										
County: Hudson Municipality: Jersey City Lot: 18 Block: 21501										
Easting (X): 611338 Northing (Y): 683377 <b>DATE WELL</b>										
Coordii	nate System: N	J State Plane (	NAD83) - USFI	EET		SIONED: September 2	25, 2013			
WELL USE:	MONITOR	ING								
Other Use(s): Local ID: MW-10A										
Reason for Decommissioning: Site Excavated/Demolished										
Finished Wel	l Depth (ft.):	15		V	Vas a New Well Dril	lled? N				
Formation Type: Unconsolidated New Well Permit Number:										
WELL DECOMMISSIONING INFORMATION										
	Depth to	Depth to	Diameter		Material		g/Screen # Used			
	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)			
Borehole										
Casing	0	2	2		PVC		ch 40			
Screen	2	15	2		PVC		.010			
MATERIAL										
	Depth to	Depth to	Outer	Inner	Material					
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)			
Grout Sand/Gravel	0	15	2	0	3	47	4			
	AL INFORMA	ATION								
					A 41 ' 4' OSS'	. 1				
Obstructions:						ial:				
						oer:				
Alternative Decomm. Method? No Authorization Date:										
Method Used										
ATTACHMENTS:										

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423



Well Permit Number **2600069768** 

## WELL DECOMMISSIONING REPORT

PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Company/Org	ganization: Je	ersey City Rede	evelopment Age	ncy				
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	lew Jersey 0730	)2			
WELLLOC	ATION. DD	C	•	•				
	ATION: PP							
		D CARTERE						
County: Hu	County: Hudson Municipality: Jersey City Lot: 17 Block: 21501							
Easting (X):	Easting (X): 611337 Northing (Y): 682896 DATE WELL							
			NAD83) - USFI	EET		SIONED: May 8, 201	4	
WELL USE:	MONITOR	ING				<u> </u>		
					Local ID: PP	6-8A		
			vated/Demolish					
		17			Vas a New Well Dril	lled? N		
	pe: Unconso					nber:		
•	-	NING INFORM	MATION					
	Depth to	Depth to	Diameter		Material	Wgt/Rating	g/Screen # Used	
	Top (ft.)	Bottom (ft.)	(inches)				/ch no.)	
Borehole								
Casing	0	5	2		PVC	S	ch 40	
Screen	5	17	2		PVC		.010	
MATERIAL	S USED							
	Depth to	Depth to	Outer	Inner		Material		
a .	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ,	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Sand/Gravel	0	17	2	0	5	94	6	
	AL INFORMA	ATION						
Obstructions:					Authorization Official:			
Obstruction Type:						oer:		
Alternative Decomm. Method? No					Authorization Da	ate:		
Method Used	Method Used							
ATTACHME	ATTACHMENTS:							

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **2600069764** 

## WELL DECOMMISSIONING REPORT

DDADEDTV	OWNED.	N/A IEDSEV (	CITY REDEVE	OPMENT AC	ENCV	_		
	_		evelopment Agei		ILIVE I			
					02			
Address: 30	Montgomery	Street Suite 90	00 Jersey City, N	ew Jersey 0/3	02			
WELL LOC	ATION: PP	G 114						
Address: G	ARFIELD AV	E. & CARTER	RET AVE.					
County: Hu	County: Hudson Municipality: Jersey City Lot: 17 Block: 21501							501
Easting (X):	611340	Northing	(Y): 682900		рат	E WELL		
Coordin	nate System: N	IJ State Plane (	NAD83) - USFI	EET	DECOMMIS		June 5, 201	4
WELL USE:	MONITOR	ING						
Other Use(s)	:				Local ID: PPo	6-8B		
Reason for De			vated/Demolishe					
Finished Well	Depth (ft.):	45		V	Vas a New Well Dril	lled?	N	
Formation Ty	pe: Unconso	lidated		N	ew Well Permit Nun	nber:		
WELL DEC		ING INFOR	MATION					
	Depth to	Depth to	Diameter		Material			g/Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)				(lbs	s/ch no.)
Casing	0	19	6		Steel		S	Sch 40
Casing	0	35	2		PVC		S	Sch 40
Screen	35	45	2		PVC			.010
MATERIAL	S USED							
	Depth to	Depth to	Outer	Inner			aterial	***
Grout	Top (ft.)	Bottom (ft.) 45	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cen	nent (lbs.)	Water (gal.)
Sand/Gravel	0	73	2	U	13		т	O
ADDITIONA	AL INFORMA	ATION						
Obstructions:	No				Authorization Offic	ial: Mich	ael Schuma	cher
Obstruction T	`ype:				Authorization Number: A1405019			
Alternative D	ecomm. Method	od? No			Authorization Da	ate: May	7, 2014	

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **2600077352** 

## WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: 1	N/A JERSEY C	CITY REDEVE	LOPMENT AG	ENCY			
Company/Org	ganization: Je	ersey City Rede	evelopment Age	ncy				
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2			
			<u> </u>	J				
	ATION: PP							
Address: 87	1-931 GARFI	ELD AVENUI	E PPG GARFIE	LD AVENUE				
County: Hu	County: Hudson Municipality: Jersey City Lot: 18 Block: 21501							
Easting (X):	Easting (X): 611264 Northing (Y): 683088 DATE WELL							
			NAD83) - USFI			SIONED: November:	26, 2013	
WELL USE:	MONITOR	ING				<u> </u>	,	
					Local ID: M	V-13A		
			vated/Demolishe					
Finished Well	l Depth (ft.):	15		V	Vas a New Well Dril	led? N		
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nur	nber:		
WELL DEC	OMMISSION	NING INFORM	MATION					
	Depth to	Depth to	Diameter		Material		g/Screen # Used	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)	
Casing	0	2	2		PVC		Sch 40	
Screen	2	15	2		PVC		.010	
MATERIAL					1,0		.010	
	Depth to	Depth to	Outer	Inner		Material		
<b>-</b>	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	15	2	0	5	94	6	
Sand/Gravel								
	AL INFORMA							
						ial:		
Obstruction Type:					Authorization Numb	oer:		
Alternative Decomm. Method? No					Authorization Da	ate:		
Method Used								
ATTACHMENTS:								

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **2600077351** 

## WELL DECOMMISSIONING REPORT

			WELL DEC	OMMINISSIC	MING KEI OK	<u>L</u>		
PROPERTY	OWNER: 1	N/A JERSEY C	CITY REDEVE	LOPMENT AG	ENCY			
Company/Org	ganization: <u>Je</u>	ersey City Rede	evelopment Agei	ncy				
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	ew Jersey 0730	02			
WELL LOC	ATION: PP	G 114						
			E PPG GARFIE	LD AVENUE				
	County: Hudson Municipality: Jersey City Lot: 18 Block: 21501							
-		_						
			(Y): <u>683084</u> NAD83) - USFE	EFT		E WELL	1.4	
	<u> </u>		11AD03) - USI1	213.1	DECOMMIS	<b>SIONED:</b> June 5, 202	14	
	MONITOR	ING			. ID 10	W 12D		
Other Use(s)		G! - T	1/5 1/1		Local ID: MY	V-13B		
			vated/Demolishe					
	l Depth (ft.):		<u></u>		Vas a New Well Dril			
-	pe: Unconso			N	ew Well Permit Nur	nber:		
WELL DEC		VING INFORM			M-4 - 2 - 1	W. d/D. d'a	· /C · · · · · · # TT · · 1	
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material	_	ng/Screen # Used os/ch no.)	
Borehole	1 ( /	. ,						
Casing	0	32	2		PVC	,	Sch 40	
Casing	0	15	6		Steel		Sch 40	
Screen	32	42	2		PVC			
MATERIAL				<u> </u>		76		
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)	
Grout	0	42	2	0	15	141	10	
Sand/Gravel								
ADDITIONA	AL INFORMA	ATION						
Obstructions:	No				Authorization Offic	ial: Michael Schuma	acher	
Obstruction T	ype:				Authorization Number: A1405020			
Alternative D	ecomm. Metho	od? No			Authorization D	ate: May 7, 2014		
Method Used								
ATTACHME	ENTS:							

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well	Permit	Number

			WELL DEC	OMMISSIC	DNING REPOR	<u>T</u>		
PROPERTY	OWNER: _	N/A JERSEY C	CITY REDEVE	LOPMENT AG	ENCY			
Company/Or	ganization: _Je	ersey City Rede	velopment Agei	ncy				
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 073	02			
WELL LOC	ATION: PP	G 114						
		est Former Hal	liday Gas W					
County: Hu	dson	Municipalit	y: Jersey City		Lot: 17	Block: 21	501	
Fasting (X):	611399	Northing	(Y): 682947					
			NAD83) - USFE			TE WELL SIONED: June 5, 201	4	
	: MONITOR		3			<u> </u>		
					Local ID: W-	-IA		
			vated/Demolishe					
					Vas a New Well Dri	lled? N	·	
		olidated				mber:	<del></del>	
·		NING INFOR						
	Depth to	Depth to	Diameter		Material		g/Screen # Used	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(10	s/ch no.)	
Casing	0	45	2		PVC		Sch 40	
Screen	45	55	2		PVC		.010	
MATERIAL	S USED							
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material	Water (gel)	
Grout	0	55	2	0	15	Neat Cement (lbs.)	Water (gal.)	
Sand/Gravel								
ADDITION	AL INFORM.	ATION						
Obstructions:	No No				Authorization Office	cial: Michael Schuma	cher	
Obstruction 7	Гуре:				Authorization Num	ber: A1405022		
Alternative D	Decomm. Meth	od? No			Authorization D	ate: May 7, 2014		
Method Used	l							
ATTACHME	ENTS:							
					•			
		L Hanley				NORTH AMERICA I	NC.	
		EYMAN			PO E	3OX 423		

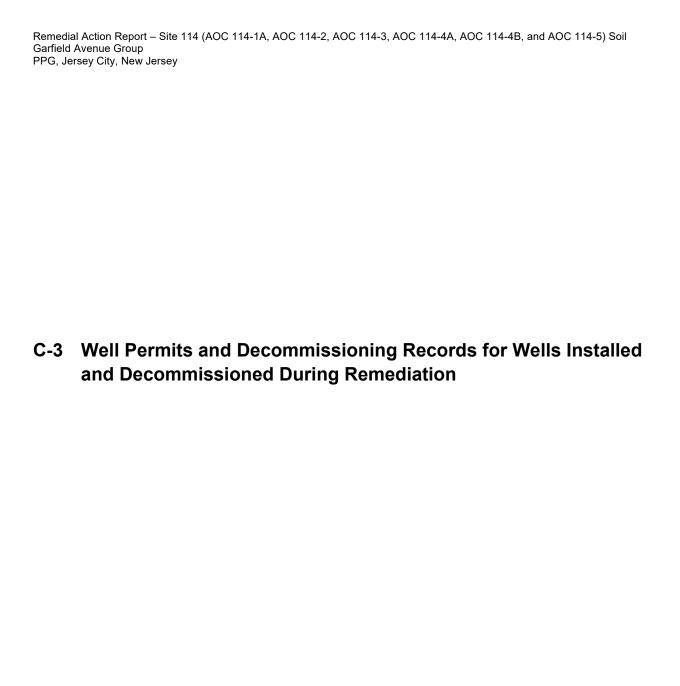
Company: West Creek (Ocean), NJ 08092 Decommissioning Report -- Page 1 of 1

Sealing Driller: LICENSE # 0001181

Well	Permit	Number
------	--------	--------

## WELL DECOMMISSIONING REPORT

	_		CITY REDEVE		ENCY	_	
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 073	02		
WELL LOC	ATION: PP	G 114					
Address: H	alladay & Forr	est Former Hal	liday Gas W				
County: Hu	dson	_ Municipality	y: Jersey City		_ Lot: 17	Block: 21	1501
_			(Y): <u>682995</u> NAD83) - USFI	EET		TE WELL SIONED: June 5, 201	4
WELL USE	MONITOR	ING					
Other Use(s)	:				Local ID: W	-1B	
Reason for D	ecommissionii	ng: Site Excar	vated/Demolishe	ed			
Finished Wel	l Depth (ft.): _			V	Vas a New Well Dri	lled? N	
Formation Ty	pe: Unconso	lidated		N	ew Well Permit Nur	mber:	
WELL DEC	OMMISSION	NING INFORM	MATION				
	Depth to	Depth to	Diameter		Material		g/Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(Ib	s/ch no.)
Casing	0	8	2		PVC		Sch 40
Screen	8	18	2		PVC		.010
MATERIAL	S USED						
	Depth to	Depth to	Outer	Inner		Material	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Sand/Gravel	0	10		U	3	74	0
ADDITION	AL INFORMA	ATION					
					Authorization Offic	cial: Michael Schuma	ncher
					Authorization Num		
	ecomm. Meth					ate: May 7, 2014	
Method Used		110	v		rumon zamon z	ate. 14th 1, 2011	
					7		· · · · · · · · · · · · · · · · · · ·
ATTACHME	:N1S:			N.			<del></del>
							**
		L Hanley EYMAN		S4 .		NORTH AMERICA II BOX 423	NC.
Sealing Dr	iller: LICENS					Creek (Ocean), NJ 08	092



Appendix C-3
Wells Permits and Decommissioning Records for Wells Installed and Decommissioned During Remediation
Site 114, Garfield Avenue Group
PPG, Jersey City, New Jersey

Well ID	Permit Number	Phase	Purpose
114CAN1	E201200538	Phase 1A	Recovery
114CAN2	E201200539	Phase 1A	Recovery
114CAN3	E201200540	Phase 1A	Recovery
114CAN4	E201200541	Phase 1A	Recovery
114CAN5	E201200542	Phase 1A	Recovery
114CAN6	E201200543	Phase 1A	Recovery
114CAN7	E201200544	Phase 1A	Recovery
114CAN8	E201200545	Phase 1A	Recovery
114CAN9	E201200546	Phase 1A	Recovery
114CAN10	E201200547	Phase 1A	Recovery
114CAN11	E201200548	Phase 1A	Recovery
114CAN12	E201200549	Phase 1A	Recovery
114CAN13	E201200550	Phase 1A	Recovery
114MON12	E201201459	Phase 1A	Gauging
114MON13	E201201460	Phase 1A	Gauging
114MON14	E201201461	Phase 1A	Gauging
114MON15	E201201540	Phase 1A	Gauging
114MON16	E201201462	Phase 1A	Gauging
114CAN14	E201200551	Phase 1B	Recovery
114CAN15	E201200552	Phase 1B	Recovery
114CAN16	E201201545	Phase 1B	Recovery
114CAN17	E201200553	Phase 1B	Recovery
114CAN18	E201200554	Phase 1B	Recovery
114CAN19	E201201546	Phase 1B	Recovery
114CAN20	E201201547	Phase 1B	Recovery
114CAN21	E201201548	Phase 1B	Recovery
114CAN22	E201200559	Phase 1B	Recovery
114CAN23	E201200560	Phase 1B	Recovery
114CAN24	E201200561	Phase 1B	Recovery
114CAN25	E201200562	Phase 1B	Recovery
114CAN26	E201200563	Phase 1B	Recovery
114CAN27	E201200564	Phase 1B	Recovery
114CAN28	E201200565	Phase 1B	Recovery
114CAN29	E201200566	Phase 1B	Recovery
114CAN30	E201200567	Phase 1B	Recovery
114CAN31	E201200568	Phase 1B	Recovery
114CAN32	E201200569	Phase 1B	Recovery
114CAN33	E201200570	Phase 1B	Recovery
114MON8	E201201538	Phase 1B	Gauging
114MON9	E201201539	Phase 1B	Gauging
114MON10	E201201532	Phase 1B	Gauging

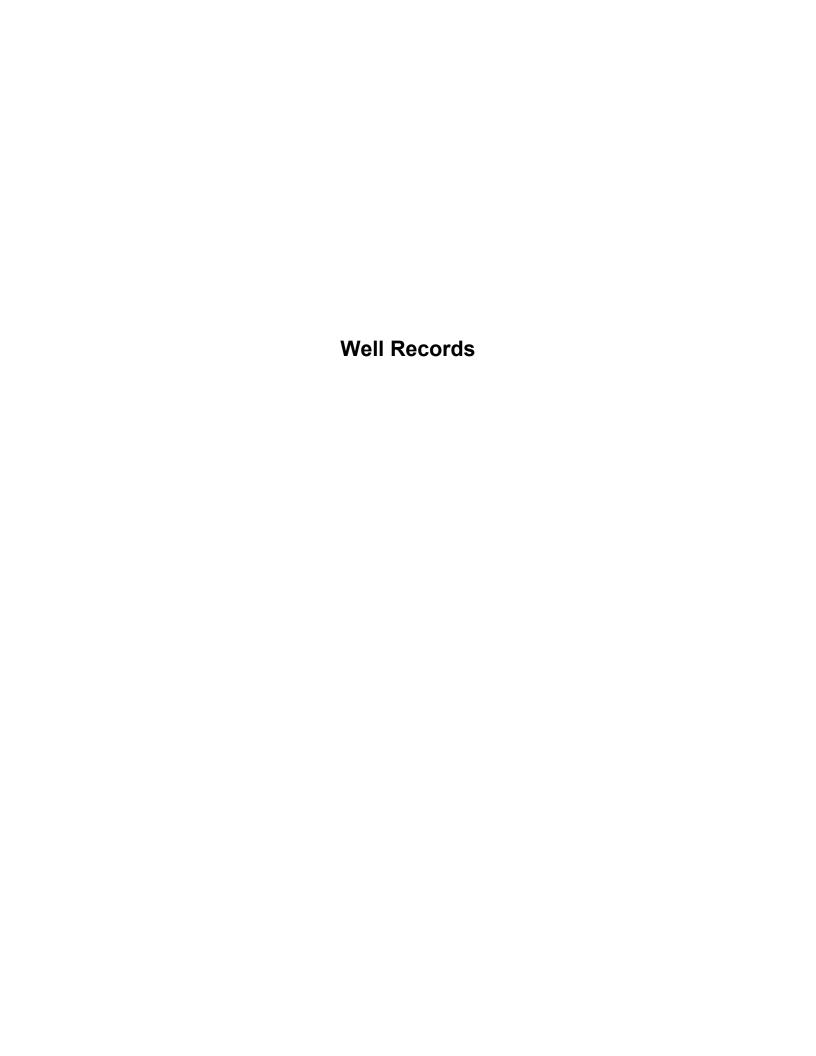
\\USPSW2PFPSW001\\Data\\Data\_USPSW2VFP001\\Environment\\Piscataway\\Project\\PPG-NJCProgram\\7-Deliverables\\7.1B-GAGroup\\RARs\\Site 114\\114-007B-RAR\\2019-04-30 WORKING FINAL\\Appendix C - Well Decomissioning\\App C-3\\App C 3 Table

# Appendix C-3 Wells Permits and Decommissioning Records for Wells Installed and Decommissioned During Remediation Site 114, Garfield Avenue Group PPG, Jersey City, New Jersey

Well ID	Permit Number	Phase	Purpose
114MON11	E201201533	Phase 1B	Gauging
114MON17	E201201544	Phase 1B	Gauging
114MON24	E201201534	Phase 1B	Gauging
114MON31	E201201463	Phase 1C	Gauging
114REL10	E201200584	Phase 1C	Recovery
114REL11	E201200585	Phase 1C	Recovery
114REL12	E201200586	Phase 1C	Recovery
SAP-1	E201117484	Phase 1C	Pilot Testing
SAP-2	E201117485	Phase 1C	Pilot Testing
SAP-3	E201117486	Phase 1C	Pilot Testing
114MON28	E201201541	Phase 2B-1	Gauging
114MON29	E201201542	Phase 2B-1	Gauging
114MON30	E201201543	Phase 2B-1	Gauging
114REL13	E201201549	Phase 2B-1	Recovery
114REL14	E201201550	Phase 2B-1	Recovery
114REL15	E201201551	Phase 2B-1	Recovery
114REL16	E201201552	Phase 2B-1	Recovery
114REL17	E201201553	Phase 2B-1	Recovery
114MON25	E201201535	Phase 2B-2	Gauging
114MON26	E201201536	Phase 2B-2	Gauging
114MON27	E201201537	Phase 2B-2	Gauging
114REL18	E201201554	Phase 2B-2	Recovery
114REL19	E201200571	Phase 2B-2	Recovery
114REL20	E201200572	Phase 2B-2	Recovery
114REL21	E201200573	Phase 2B-2	Recovery
114REL22	E201200574	Phase 2B-2	Recovery
114REL23	E201200575	Phase 2B-2	Recovery
114REL24	E201200576	Phase 2B-2	Recovery

#### Notes:

IRM - interim remedial measure





Well Permit Number **E201200538** 

## **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, JOURNEY	MAN LICENSE # 0021243						
Permit Issued to: SGS NORTH AMERICA INC.	: SGS NORTH AMERICA INC.						
Company Address: PO BOX 423 WEST CREEK, NJ 0	Company Address: PO BOX 423 WEST CREEK, NJ 08092						
PROPERTY OWNER							
Name: N/A 900 GARFIELD AVE. LLC							
Organization: 900 Garfield Ave. LLC							
Address: 1735 Market St #A-400							
City: Philladelphia State: Pennsylva	zip Code: 19103						
PROPOSED WELL LOCATION							
Facility Name: Site 114							
Address: 900 Garfield Ave							
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A						
Easting (X): 611333 Northing (Y): 683735	Local ID: CAN - 1						
Coordinate System: NJ State Plane (NAD83) - USFEET							
SITE CHARACTERISTICS							
SITE CHARACTERISTICS							
SHE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
	Other Use(s):						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY	Regulatory Program						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:						

Approved by the authority of:

Bob Martin Commissioner

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

## 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 E201200538

#### **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. [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. 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 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 E201200538

## MONITORING WELL RECORD

			•		LL RECORD				
			FIELD AVE. L	LC					
Company/Organization: 900 Garfield Ave. LLC									
Address: 17	Address: 1735 Market St #A-400 Philladelphia, Pennsylvania 19103								
WELL LOC	CATION: Site	e 114							
Address: 90	00 Garfield Av	e							
County: Hu	idson	_ Municipality	y: <u>Jersey City</u>		Lot: 1	Block: 20	26.A		
Easting (X): 611333 Northing (Y): 683735 <b>DATE WELL STARTED:</b> February 28, 2012									
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: February 28, 2012									
WELL USE	: RECOVER	Y							
Other Use(s): Local ID: CAN - 1									
WELL CON	STRUCTION	I							
Total Depth	Drilled (ft.):	16	Finished We	ell Depth (ft.):_	16	Well Surface: Flush	h Mount		
	Depth to	Depth to	Diameter	_	Material	Wgt/Rating	g/Screen # Used		
	Top (ft.)	Bottom (ft.)	(inches)				s/ch no.)		
Borehole	0	16	10						
Casing	6	6 16	4		PVC PVC		.020		
Screen					PVC		.020		
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)		
Grout	0	2	10	4	15	50	9		
Gravel Pack	2	16	10	4		# 0 Sand			
Grouting Met	thod: Gravity	method		Dı	rilling Method: Holl	ow Stem Augers			
	AL INFORMA	ATION							
Protective Ca	ising: <u>No</u> Level: 6 ft. be	low lond aunfo			imp Capacity: _ gpm				
	Measure Tool:		ce		otal Design Head: _ ft rilling Fluid:	•			
Well Develop	pment Period:	1 hrs.		Dı	rill Rig: Mobile B-59				
	evelopment: <u>Ce</u>	entrifugal Pum	<u>p</u>	He	ealth and Safety Plan	Submitted? Yes			
Pump Type:	ENTO.								
ATTACHM									
O = 15.5: Red		- Other Fill: M	anufacturing De	hris					
			er highly organi						
ADDITION	AL INFORMA	ATION:							
	William G Petley,								

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0013761

Well Permit Number
F201200538

## WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: _1	N/A 900 GARI	FIELD AVE N/	A			
Company/Org	ganization: 90	00 Garfield Av	e				
Address: 17	735 Market St	Philladelphia, l	Pennsylvania 19	0103			
WELLIOC	ATION: Sit	a 114	-				
	-						
	00 Garfield Av					DI 1 0	
County: Hu	dson	_ Municipality	y: Jersey City		_ Lot:_ <u>l</u>	Block: 20	)26.A
Easting (X):	611333	Northing	(Y): <u>683735</u>	——— DATE WELL			
Coordi	nate System: N	IJ State Plane (	NAD83) - USFI	EET		SIONED: April 26, 2	012
WELL USE:	RECOVER	Y					
Other Use(s): Local ID: CAN - 1							
		ng: No longer		_			
Finished Well Depth (ft.): 16					Vas a New Well Dri	lled? N	
Formation Ty	pe: Unconso	lidated		N	ew Well Permit Nur	mber:	
-		NING INFORM	MATION				
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	1 op (11.)	Dottom (it.)	(menes)			(10	S/CII IIO.)
Casing	0	6	4		PVC		40
Screen	6	16	4		PVC	2	20 slot
MATERIAL	S USED						
	Depth to	Depth to	Outer	Inner			
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.) 5.2
Sand/Gravel	0	10	7	0		) 7	3.2
ADDITION	AL INFORM	ATION					
Obstructions:	No				Authorization Offic	cial:	
Obstruction Type:				Authorization Number:			
Alternative Decomm. Method? No				Authorization Date:			
Method Used							
ATTACHME	ENTS:						

Thomas L Hanley
JOURNEYMAN

SGS NORTH AMERICA INC.
PO BOX 423

Well Permit Number **E201200539** 

## **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

11 8									
Certifying Driller: WESLEY M EICHFELD, JOURNEY	YMAN LICENSE # 0021243								
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.								
Company Address: PO BOX 423 WEST CREEK, NJ 08092									
PROPERTY OWNER									
Name: N/A 900 GARFIELD AVE. LLC									
Organization: 900 Garfield Ave. LLC									
Address: 1735 Market St #A-400									
City: Philladelphia State: Pennsylva	zip Code: 19103								
PROPOSED WELL LOCATION									
Facility Name: Site 114									
Address: 900 Garfield Ave									
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A								
Easting (X): 611324 Northing (Y): 683674 Local ID: CAN - 2  Coordinate System: NJ State Plane (NAD83) - USFEET									
SITE CHARACTERISTICS									
PROPOSED CONSTRUCTION									
WELL USE: RECOVERY	Other Use(s):								
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation								
Depth (ft.): 40	Case ID Number:								
Pump Capacity (gpm): 1	Deviation Requested: N								
Drilling Method: Hollow Stem Augers									
Attachments:									
SPECIFIC CONDITIONS/REQUIREMENTS									

Approved by the authority of:

Bob Martin Commissioner

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

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 E201200539

#### **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. [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. 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 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 E201200539

## MONITORING WELL RECORD

	·		FIELD AVE. L	LC				
Company/Organization: 900 Garfield Ave. LLC								
Address: 17	Address: 1735 Market St #A-400 Philladelphia, Pennsylvania 19103							
WELL LOC	WELL LOCATION: Site 114							
Address: 90	00 Garfield Av	e						
County: Hu	dson	Municipality	y: Jersey City		Lot: 1	Block: 20	26.A	
			(Y): 683674					
			(1). <u>083074</u> NAD83) - USFI	-		FARTED: February 1:		
ZATZ WZZZ GAM ZZTZZ. 1001um y 10, 2012								
WELL USE: RECOVERY								
Other Use(s)	Other Use(s): Local ID: CAN - 2							
WELL CON	STRUCTION	Ī						
Total Depth	Drilled (ft.):	40	Finished We	ell Depth (ft.):_	40	Well Surface: Flus	h Mount	
	Depth to	Depth to	Diameter		Material	Wgt/Rating	g/Screen # Used	
D 1 . 1 .	Top (ft.)	Bottom (ft.)	(inches)			(lb:	s/ch no.)	
Borehole Casing	0	20	10 4		PVC		Sch 40	
Screen	20	40	4		PVC Sch.40 PVC .020			
	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	-	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	17	10	4	15	400	28	
Gravel Pack	17	40	10	4		#1 Sand		
Grouting Met	thod: Pressure	e method (Trer	nie Pipe)	D	rilling Method: Hol	low Stem Augers		
	AL INFORMA	<u>ATION</u>		D	Committee of the commit			
Protective Ca Static Water 1	sing: <u>110</u> Level: <u>6</u> ft. be	low land surfa	ce		ımp Capacity: _ gpm otal Design Head: _ fi	t <b>.</b>		
Water Level 1	Measure Tool:	M-Scope		D	rilling Fluid:			
	oment Period:				rill Rig: Mobile B-59			
	evelopment: <u>Ce</u>		<u>P</u>	Н	ealth and Safety Plan	Submitted? Yes		
ATTACHM								
GEOLOGIC								
		Other Fill; Mar	nufacturing Deb	ris				
			ic silty clays of					
			ds and gravelly		no fines			
36 - 40: Redis	sh Brown SM -	- Silty sands, sa	and-silt mixtures	S				
ADDITIONAL INFORMATION:								
	William G Petley,							

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0013761

Well Permit Number **E201200539** 

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A 900 GARFIELD AVE LLC								
Company/Org	Company/Organization: 900 Garfield Ave LLC							
Address: 17	35 Market St	#A 400 Phillad	elphia, Pennsylv	vania 19103				
	ATION: Sit							
Address: 90	00 Garfield Av	e						
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 1	Block: 20	26.A	
Easting (X):	611324	Northing	(Y): <u>683674</u>		D 4.7	717 XX/171 X		
			NAD83) - USFI			TE WELL SIONED: July 5, 2012	,	
					DECOMMIS	5101(ED. <u>vary 3, 2011</u>	-	
WELL USE: RECOVERY  Other Use(s): Local ID: CAN - 2								
Reason for Decommissioning: Site Excavated/Demolished								
Finished Well Depth (ft.): 40 Was a New Well Drilled? N								
Formation Type: Unconsolidated New Well Permit Number:								
-	-	ING INFORM		1,,,	ov vvoii i ciliiti i vai			
WELL DEC	Depth to	Depth to	Diameter	<del></del>	Material	Wgt/Rating	/Screen # Used	
	Top (ft.)	Bottom (ft.)	(inches)				/ch no.)	
Borehole	0	40	8					
Casing	0	20	4		PVC		ch 40	
Screen	20	40	4		pvc		010	
MATERIAL	S USED							
	Depth to	Depth to	Outer	Inner	Material			
C 1	Top (ft.)	Bottom (ft.)	Diameter (in.)	` '	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Sand/Gravel	0	40	4	0	30	376	28	
	AL INFORMA	ATION						
Obstructions:					Authorization Offic	cial:		
						ber:		
Obstruction Type:						ate:		
					rumorization D			
ATTACHME	ENTS:							

Thomas L Hanley
JOURNEYMAN
Sealing Driller: LICENSE # 0001181
SGS NORTH AMERICA INC.
PO BOX 423
West Creek (Ocean), NJ 08092

Well Permit Number **E201200540** 

## **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, JOURNEY	YMAN LICENSE # 0021243
Permit Issued to: SGS NORTH AMERICA INC.	
Company Address: PO BOX 423 WEST CREEK, NJ (	08092
PROPERTY OWNER	
Name: N/A 900 GARFIELD AVE. LLC	
Organization: 900 Garfield Ave. LLC	
Address: 1735 Market St #A-400	
City: Philladelphia State: Pennsylvi	ania Zip Code: 19103
PROPOSED WELL LOCATION	
Facility Name: Site 114	
Address: 900 Garfield Ave	
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A
Easting (X): 611269 Northing (Y): 683702	Local ID: CAN - 3
Coordinate System: NJ State Plane (NAD83) - USFEET	
SITE CHARACTERISTICS	
PROPOSED CONSTRUCTION	
PROPOSED CONSTRUCTION WELL USE: RECOVERY	Other Use(s):
WELL USE: RECOVERY	Regulatory Program
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation
WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:  Deviation Requested: N
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:  Deviation Requested: N
WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:  Deviation Requested: N
WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:  Deviation Requested: N
WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:  Deviation Requested: N
WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:  Deviation Requested: N

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

## 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 E201200540

#### 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. [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. 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]

Well Permit Number **E201200540** 

## **MONITORING WELL RECORD**

PROPERTY OWNER: N/A 900 GARFIELD AVE. LLC								
Company/Organization: 900 Garfield Ave. LLC								
Address: 17	35 Market St	#A-400 Phillad	elphia, Pennsyl	vania 19103				
WELL LOC	WELL LOCATION: Site 114							
Address: 90	00 Garfield Av	e						
County: Hue	dson	_ Municipality	y: <u>Jersey City</u>		Lot:_1	Block: 20	26.A	
			(Y): <u>683702</u> NAD83) - USFI			FARTED: February 13 PLETED: February 13	•	
WELL USE:	RECOVER	Y	<u> </u>		TIL WELL COM	ELLIED. Toolaary 12	, 2012	
Other Use(s): Local ID: CAN - 3								
	STRUCTION							
Total Depth	Drilled (ft.):	40	Finished We	ell Depth (ft.):_	40	Well Surface: Flush	n Mount	
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		/Screen # Used /ch no.)	
Borehole	0	40	11				,	
Casing	0	10	4		PVC	S	ch 40	
Screen	10	40	4	pvc .010				
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)	
Grout	0	8	11	4	22	402	34	
Gravel Pack	8	40	11	4		#0		
Grouting Met	hod: Pressur	e method (Tren	nie Pipe)	Dr	illing Method: Holl	low Stem Augers		
Grouting Method: Pressure method (Tremie Pipe)  ADDITIONAL INFORMATION  Protective Casing: Yes  Static Water Level: 3 ft. below land surface  Water Level Measure Tool: m scope  Well Development Period: 1 hrs.  Method of Development: pump  Pump Type:  Drilling Method: Hollow Stem Augers  Pump Capacity: _gpm  Total Design Head: _ft.  Drilling Fluid:  Drill Rig: cme 1050  Health and Safety Plan Submitted? Yes								
ATTACHMI	ENTS:							
GEOLOGIC								
0 - 8: black O								
	OT - Other fill		hishle sussuis s	-aila				
		els, gravel-san	highly organic s	SOIIS				
	, 0	els, gravel-sand						
			d Siit iiiixtai es					
ADDITIONA	AL INFORMA	ATION:						
	Jeff Ra	usa.						

Driller of Record: JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

Well Permit Number
E201200540

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A 900 GARFIELD AVE LLC							
Company/Organization: 900 Garfield Ave LLC							
Address: 17	35 Market St	#A 400 Phillad	elphia, Pennsylv	vania 19103			
			•				
WELL LOC							
Address: 90							
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 1	Block: 202	26.A
Easting (X):	611269	Northing (	(Y): 683702		БАТ	TE XX/ET I	
=			NAD83) - USFI			`E WELL SIONED: January 5, 2	012
WELL USE:	RECOVER	Y					
Other Use(s): Local ID: CAN - 3							
Reason for Decommissioning: Site Excavated/Demolished							
Finished Well Depth (ft.): 40 Was a New Well Drilled? N							
Formation Type: _Unconsolidated New Well Permit Number:							
WELL DECOMMISSIONING INFORMATION							
	Depth to	Depth to	Diameter		Material		/Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)
Casing	0	10	4		PVC	St	ch 40
Screen	10	40	4		pvc		010
MATERIAL		10	'		Pve		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	40	4	0	30	376	28
Sand/Gravel							
ADDITIONA	AL INFORMA	ATION					
Obstructions:	No			1	Authorization Offic	ial:	
Obstruction Type:					Authorization Number:		
Alternative Decomm. Method? No Authorization Date:							
Method Used	Method Used						
ATTACHME	NTS:						

Thomas L Hanley
JOURNEYMAN

SGS NORTH AMERICA INC.
PO BOX 423

Well Permit Number **E201200541** 

## **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, JOURNEY	YMAN LICENSE # 0021243
Permit Issued to: SGS NORTH AMERICA INC.	
Company Address: PO BOX 423 WEST CREEK, NJ O	08092
PROPERTY OWNER	
Name: N/A 900 GARFIELD AVE. LLC	
Organization: 900 Garfield Ave. LLC	
Address: 1735 Market St #A-400	
City: Philladelphia State: Pennsylv	zip Code: 19103
PROPOSED WELL LOCATION	
Facility Name: Site 114	
Address: 900 Garfield Ave	
County: Hudson Municipality: Jersey City	Lot: 1 Block: _2026.A
Easting (X): 611310 Northing (Y): 683647  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: CAN - 4
SITE CHARACTERISTICS	
SILE CHARGE LEMS I LES	
PROPOSED CONSTRUCTION	
	Other Use(s):
PROPOSED CONSTRUCTION  WELL USE: RECOVERY	Regulatory Program
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

## 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 E201200541

#### 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. [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. 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 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 E201200541

## MONITORING WELL RECORD

MONITORING WELL RECORD									
PROPERTY OWNER: N/A 900 GARFIELD AVE. LLC									
Company/Organization: 900 Garfield Ave. LLC									
Address: 17	Address: 1735 Market St #A-400 Philladelphia, Pennsylvania 19103								
WELL LOC	ATION: Site	e 114							
Address: 900 Garfield Ave									
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 1	Block: 20	26.A		
			(Y): <u>683647</u>		DATE WELL ST	ARTED: February 1	6, 2012		
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: February 16, 2012									
WELL USE:	RECOVER	Y							
Other Use(s)	) <b>:</b>				Local ID: CA	N - 4			
WELL CON	STRUCTION	I							
Total Depth	Drilled (ft.):	16	Finished We	ell Depth (ft.):	16	Well Surface: Flus	h Mount		
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)		
Borehole	0	16	10						
Casing	0	5.5	4		PVC	S	Sch.40		
Screen	5.5	15.5	4		PVC		.020		
	Depth to	Depth to	Outer	Inner		Material			
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in) 4	Bentonite (lbs.)	Neat Cement (lbs.) 50	Water (gal.)		
Gravel Pack	2	15.5	10	4	13	# 0 Sand	10		
Grouting Met	thod: Gravity	method		Dri	lling Method: Holl	ow Stem Augers			
Protective Ca Static Water I Water Level I Well Develop Method of Do Pump Type:	Level: 6 ft. be Measure Tool: oment Period: evelopment: Co	elow land surfa M-Scope		Tot Dri Dri	mp Capacity: _ gpm cal Design Head: _ ft lling Fluid: ll Rig: <u>Mobile B-59</u> alth and Safety Plan				
0 - 15 5: Brox		Fill; Manufact	uring Dehris						
			er highly organi	c soils					
ADDITION	AL INFORMA	ATION:							
	Willian	n G Petley,							

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0013761

Well Permit Number
E201200541

## WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: N	N/A 900 GARF	FIELD AVE LL	.C			
Company/Org	ganization: 90	00 Garfield Av	e LLC				
Address: 17	35 Market St	#A 400 Phillad	elphia, Pennsylv	vania 19103			
·			<u> </u>				
	ATION: Site						
Address: 90	00 Garfield Av	e					
County: Hue	dson	_ Municipality	y: <u>Jersey City</u>		_ Lot:_1	Block: 202	26.A
Easting (X):	611310	Northing	(Y): 683647		БАТ		
Coordinate System: NJ State Plane (NAD83) - USFEI					<b>TE WELL SIONED:</b> May 24, 20	12	
WELL USE:	RECOVER	Y					
	-				Local ID: CA	N - 4	
			vated/Demolishe				
Finished Well	l Depth (ft.):	16		W	/as a New Well Dril	lled? N	
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nur	mber:	
WELL DEC	OMMISSION	ING INFORM	MATION				
	Depth to	Depth to	Diameter		Material		/Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)
Casing	0	16 5.5	4		PVC	G	ch 40
Screen	5.5	15.5	4		pvc		010
		10.0			p.c		010
MATERIAL	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	0 0,770	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	16	4	0	15	94	10
Sand/Gravel							
ADDITIONA	AL INFORMA	ATION					
Obstructions:	No				Authorization Offic	ial:	
					Authorization Numb	oer:	
Alternative D	ecomm. Metho	od? No			Authorization Da	ate:	
Method Used							
ATTACHME	ENTS:						

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423
LICENSE # 0001181
Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201200542** 

## **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

enumerated in the supporting documents which are agreed to by	the permittee upon deceptance of the permit
Certifying Driller: WESLEY M EICHFELD, JOURNEY	YMAN LICENSE # 0021243
Permit Issued to: SGS NORTH AMERICA INC.	
Company Address: PO BOX 423 WEST CREEK, NJ 0	08092
PROPERTY OWNER	
Name: N/A 900 GARFIELD AVE. LLC	
Organization: 900 Garfield Ave. LLC	
Address: 1735 Market St #A-400	
City: Philladelphia State: Pennsylva	zip Code: 19103
PROPOSED WELL LOCATION	
Facility Name: Site 114	
Address: 900 Garfield Ave	
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A
Easting (X): 611255 Northing (Y): 683675	Local ID: CAN - 5
Coordinate System: NJ State Plane (NAD83) - USFEET	
SITE CHARACTERISTICS	
PROPOSED CONSTRUCTION	
WELL USE: RECOVERY	Other Use(s):
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation
Depth (ft.): 40	Case ID Number:
Pump Capacity (gpm): 1	Deviation Requested: N
Drilling Method: Hollow Stem Augers	
Attachments:	
SPECIFIC CONDITIONS/REQUIREMENTS	

Approved by the authority of:

**Approval Date:** January 17, 2012

Expiration Date: January 16, 2013

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

Well Permit -- Page 1 of 2

Jerry D. P. lawski

## 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 E201200542

#### 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. [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. 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]

Well Permit Number **E201200542** 

## **MONITORING WELL RECORD**

PROPERTY OWNER: N/A 900 GARFIELD AVE. LLC								
Company/Organization: 900 Garfield Ave. LLC								
Address: 17	735 Market St	#A-400 Phillad	lelphia, Pennsyl	vania 19103				
WELL LOCATION: Site 114								
Address: 90	00 Garfield Av	e						
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 1	Block: 20	26.A	
Easting (X):	611255	Northing	(Y): 683675		DATE WELL ST	TARTED: February 14	1, 2012	
Coordin	nate System: N	IJ State Plane (	NAD83) - USFI	EET <b>D</b>		PLETED: February 14		
WELL USE:	RECOVER	Y						
Other Use(s)	:				Local ID: CA	AN - 5		
WELL CON	STRUCTION	1						
Total Depth	Drilled (ft.):	40	Finished We	ell Depth (ft.):_	40	Well Surface: Flus	h Mount	
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)	
Borehole	0	40	11			(10.	,, en no.,	
Casing	0	10	4		PVC	S	ch 40	
Screen	10	40	4		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 8	8 40	11	4 4	22	402	34	
Gravel Pack			11 · p: )	<u> </u>	 	#0		
_		e method (Trer	nie Pipe)	Dr	illing Method: Holl	low Stem Augers		
ADDITIONA Protective Ca	AL INFORMA	<u>ATION</u>		D.,	mp Capacity: _ gpm			
		elow land surfa	ce		tal Design Head: _ fl			
	Measure Tool:				illing Fluid:			
	oment Period:				ill Rig: cme 1050	Calamitta 49 Mag		
Pump Type:	evelopment: <u>pu</u>	<u>ımp</u>		не	alth and Safety Plan	Submitted? Yes		
ATTACHMI	ENTS:							
GEOLOGIC	LOG							
0 - 8: black O								
	OT - Other fill							
			highly organic s	soils				
		els, gravel-san						
30 - 40: red G	ıM - Silty grav	els, gravel-san	d-silt mixtures					
ADDITIONA	AL INFORMA	ATION:						
	Jeff Ra	iusa,						

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number **E201200542** 

## WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: _1	N/A 900 GARF	FIELD AVE LL	.C				
Company/Org	ganization: 90	00 Garfield Av	e LLC					
Address: 17	735 Market St	#A 400 Phillad	elphia, Pennsylv	vania 19103				
WELLLOC	ATION. C:4	a 114	•					
	ATION: Sit							
	00 Garfield Av							
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 1	Block: 202	6.A	
Easting (X):	611255	Northing	(Y): 683675		БАТ	ID 33/DI I		
Coordinate System: NJ State Plane (NAD83) - USF						E WELL SIONED: July 6, 2012		
WELL USE:	RECOVER	Y	<u> </u>			• • • • • • • • • • • • • • • • • • •		
					Local ID: CA	N - 5		
			, 1/D 1:1		Local ID: CA	N - 5		
			vated/Demolishe					
	l Depth (ft.):					led? N		
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nun	nber:		
WELL DEC		ING INFORM						
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		Wgt/Rating/Screen # Used (lbs/ch no.)	
Borehole	0	40	(inches) 8			(108/	ch no.)	
Casing	0	10	4		PVC	sc	h 40	
Screen	10	40	4		PVC			
MATERIAL	S USED		,					
	Depth to	Depth to	Outer	Inner		Material		
T	Top (ft.)	Bottom (ft.)	` '	Diameter (in)	\ /	Neat Cement (lbs.)	Water (gal.)	
Grout Sand/Gravel	0	40	4	0	30	376	28	
<u>u</u>	AL INFORMA	ATION						
	3.7				A 41	• 1		
Obstructions:						ial:		
						per:		
		od? No				ate:		
Method Used								

Thomas L Hanley
JOURNEYMAN

SGS NORTH AMERICA INC.
PO BOX 423

Well Permit Number E201200543

## **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, JOURNEY	MAN LICENSE # 0021243
Permit Issued to: SGS NORTH AMERICA INC.	
Company Address: PO BOX 423 WEST CREEK, NJ 0	08092
PROPERTY OWNER	
Name: N/A 900 GARFIELD AVE. LLC	
Organization: 900 Garfield Ave. LLC	
Address: 1735 Market St #A-400	
City: Philladelphia State: Pennsylva	zip Code: 19103
PROPOSED WELL LOCATION	
Facility Name: Site 114	
Address: 900 Garfield Ave	
County: Hudson Municipality: Jersey City	Lot: 1 Block: _2026.A
Easting (X): 611296 Northing (Y): 683621	Local ID: CAN - 6
Coordinate System: NJ State Plane (NAD83) - USFEET	
SITE CHARACTERISTICS	<del></del>
PROPOSED CONSTRUCTION	
WELL USE: RECOVERY	Other Use(s):
D'and a Caba A	Regulatory Program
Diameter (in.): 4	Requiring Wells/Borings: Owner Investigation
Depth (ft.): 40	Case ID Number:
Pump Capacity (gpm): 1	Deviation Requested: N
Drilling Method: Hollow Stem Augers  Attackments:	
Attachments:	
SPECIFIC CONDITIONS/REQUIREMENTS	
STEET CONTINUE CONTIN	

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

**Bob Martin** Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

## 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 E201200543

#### 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. [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. 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]

Well Permit Number E201200543

	MONITORING WELL RECORD											
PROPERTY OWNER: N/A 900 GARFIELD AVE. LLC												
Company/Organization: 900 Garfield Ave. LLC												
Address: 1735 Market St #A-400 Philladelphia, Pennsylvania 19103												
WELL LOCATION: Site 114												
Address: 900 Garfield Ave												
			y: Jersey City		Lot: 1	Block: 202	26.A					
Easting (X): 611042 Northing (Y): 683230 <b>DATE WELL STARTED:</b> February 17, 2012												
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: February 17, 2012												
	RECOVER		<u> </u>	<b>D</b> F	TE WELL COM	EETED. 1 coldary 17	, 2012					
					Local ID: CA	N - 6						
					Local ID.							
	STRUCTION											
Total Depth	Drilled (ft.):	40	Finished We	ll Depth (ft.):	40 V	Vell Surface: Flush	Mount					
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		/Screen # Used /ch no.)					
Borehole	0	40	11			(103/	, en 110.)					
Casing	0	20	4		PVC	So	ch40					
Screen	20	40	4		PVC		.010					
	Depth to	Depth to	Outer	Inner		Material						
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′	\ /	Neat Cement (lbs.)	Water (gal.)					
Grout Gravel Pack	0 18	18	11 11	8 4	30	564 #1 sand	42					
		e method (Trei		•	lling Method: Hollo							
_			ine i ipe)		ning Method. 110h	ow Stelli Augers						
Protective Ca	AL INFORMA sing: Yes	ATION		Pur	np Capacity: _ gpm							
Static Water I	Level: <u>24</u> ft. b	pelow land surf	ace	Tot	al Design Head: _ ft.							
	Measure Tool:				lling Fluid:							
						Submitted? Ves						
Method of De	vеторинент. <u>рт</u>	шф		1100	Well Development Period: <u>1</u> hrs. Drill Rig: <u>B59</u> Method of Development: <u>pump</u> Health and Safety Plan Submitted? <u>Yes</u>							
Pump Type:												
	ENTS:				·							
ATTACHMI						, <del>-</del>						
ATTACHMI GEOLOGIC	LOG	aded gravels ar	nd gravel-sand m	nixtures, little or								
ATTACHMI GEOLOGIC 0 - 5: brown 0	C <b>LOG</b> GP - Poorly gra		nd gravel-sand m									
ATTACHMI GEOLOGIC 0 - 5: brown C 5 - 40: red brown	C <b>LOG</b> GP - Poorly gra	y gravels, grav										
ATTACHMI GEOLOGIC 0 - 5: brown C 5 - 40: red brown	E LOG GP - Poorly gra own GM - Silt	y gravels, grav										
GEOLOGIC  0 - 5: brown C  5 - 40: red brown	E LOG GP - Poorly gra own GM - Silt	y gravels, grav										
ATTACHMI GEOLOGIC 0 - 5: brown C 5 - 40: red brown	E LOG GP - Poorly gra own GM - Silt	y gravels, grav										
ATTACHMI GEOLOGIC 0 - 5: brown C 5 - 40: red brown	E LOG GP - Poorly gra own GM - Silt	y gravels, grav										
ATTACHMI GEOLOGIC 0 - 5: brown C 5 - 40: red brown	E LOG GP - Poorly gra own GM - Silt	y gravels, grav										
ATTACHMI GEOLOGIC 0 - 5: brown C 5 - 40: red brown	E LOG GP - Poorly gra own GM - Silt	y gravels, grav										
GEOLOGIC  0 - 5: brown C  5 - 40: red brown	E LOG GP - Poorly gra own GM - Silt	y gravels, grav										

Company: SGS NORTH AMERICA INC.

Brian J Siecker,

Driller of Record: MONITORING LICENSE # 195171

Well Permit Number **E201200543** 

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A 900 GARFIELD AVE LLC								
Company/Organization: 900 Garfield Ave LLC								
Address: 1735 Market St #A 400 Philladelphia, Pennsylvania 19103								
WELL LOCATION: Site 114								
Address: 900 Garfield Ave								
County: Hudson		_ Municipality	: Jersey City	Lot: 1		Block: 202	Block: 2026.A	
Easting (X): 611042 Northing (Y): 683230								
			NAD83) - USFI	DATE WELL				
WELL USE: RECOVERY								
Other Use(s): Local ID: CAN - 6								
Reason for Decommissioning: Site Excavated/Demolished								
Finished Well Depth (ft.): 40 Was a New V					/as a New Well Dril	led? N		
Formation Type: Unconsolidated New Well Permit Number:								
WELL DECOMMISSIONING INFORMATION								
	epth to	Depth to	Diameter	Material Wgt/Rating/Scre				
Borehole	op (ft.)	Bottom (ft.)	(inches)			(lbs.	/ch no.)	
Casing	0	20	4	PVC sch 40				
	20	40	4	PVC .010				
MATERIALS USED								
	epth to	Depth to	Outer	Inner	Inner Material			
	op (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	40	4	0	30	352	30	
Sand/Gravel								
ADDITIONAL INFORMATION								
Obstructions: No Authorization Official:								
Obstruction Type:				Authorization Number:				
Alternative Decomm. Method? No				Authorization Date:				
Method Used								
ATTACHMENTS:								

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **E201200544** 

## **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

enumerated in the supporting documents which are agreed to by	the permittee upon deceptance of the permit					
Certifying Driller: WESLEY M EICHFELD, JOURNEY	YMAN LICENSE # 0021243					
Permit Issued to: SGS NORTH AMERICA INC.						
Company Address: PO BOX 423 WEST CREEK, NJ 0	08092					
PROPERTY OWNER						
Name: N/A 900 GARFIELD AVE. LLC						
Organization: 900 Garfield Ave. LLC						
Address: 1735 Market St #A-400						
City: Philladelphia State: Pennsylva	vania Zip Code: 19103					
PROPOSED WELL LOCATION						
Facility Name: Site 114						
Address: 900 Garfield Ave						
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A					
Easting (X): 611242 Northing (Y): 683648 <b>Local ID:</b> CAN - 7						
Coordinate System: NJ State Plane (NAD83) - USFEET						
SITE CHARACTERISTICS						
PROPOSED CONSTRUCTION						
WELL USE: RECOVERY	Other Use(s):					
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation					
Depth (ft.): 40	Case ID Number:					
Pump Capacity (gpm): 1	Deviation Requested: N					
Drilling Method: Hollow Stem Augers						
Attachments:						
SPECIFIC CONDITIONS/REQUIREMENTS						

Approved by the authority of:

**Approval Date:** January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200544

#### 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. [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. 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]

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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]

Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

## Well Permit Number E201200544

# **MONITORING WELL RECORD**

PROPERTY	PROPERTY OWNER: N/A 900 GARFIELD AVE. LLC							
Company/Org	Company/Organization: 900 Garfield Ave. LLC							
Address: 17	Address: 1735 Market St #A-400 Philladelphia, Pennsylvania 19103							
WELL LOC	ATION: Site	e 114						
Address: 90	00 Garfield Av	e						
County: Hu	County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A							
Easting (X):	611242	Northing	(Y): 683648		DATE WELL ST	TARTED: February 15	, 2012	
			NAD83) - USFI			PLETED: February 15		
WELL USE:	RECOVER	Y						
Other Use(s)	:				Local ID: CA	N - 7		
WELL CON	STRUCTION	Ī						
Total Depth	Drilled (ft.):	40	Finished We	ell Depth (ft.):_	40	Well Surface: Flush	Mount	
	Depth to	Depth to	Diameter		Material		/Screen # Used	
Danahala	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)	
Borehole Casing	0	10	11 4		PVC	a.	ch 40	
Screen	10	40	4		pvc		010	
Bereen				<u> </u>	T		010	
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)	
Grout	0	8	11	4	22	402	34	
Gravel Pack	8	40	11	4				
Grouting Met	thod: Pressur	e method (Trer	nie Pipe)	Dı	rilling Method: Holl	low Stem Augers		
ADDITIONA	AL INFORMA	ATION						
Protective Ca					imp Capacity: _ gpm			
	Level: <u>3</u> ft. be Measure Tool:	low land surfa	ce		otal Design Head: _ fi rilling Fluid:	i.		
	oment Period:				rill Rig: cme 1050			
	evelopment: <u>pu</u>				ealth and Safety Plan	Submitted? Yes		
Pump Type:								
ATTACHM	ENTS:							
GEOLOGIC								
0 - 8: black O	OT - Other fill OT - Other fill							
		uals and athen	highly organic s	aila				
				50118				
	17 - 30: red GM - Silty gravels, gravel-sand-silt mixtures 30 - 40: red GM - Silty gravels, gravel-sand-silt mixtures							
ADDITIONA	ADDITIONAL INFORMATION:							
	Jeff Ra	usa						

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number E201200544

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A 900 GARFIELD AVE LLC								
Company/Organization: 900 Garfield Ave LLC								
Address: 17	Address: 1735 Market St #A 400 Philladelphia, Pennsylvania 19103							
WELLLOC	ATION. C:4	- 114	•					
	ATION: Sit							
Address: 90	00 Garfield Av	e						
County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A							6.A	
Easting (X):	611242	Northing	(Y): 683648		БАТ	VE AVIEL I		
· ·			NAD83) - USFI			<b>E WELL SIONED:</b> July 6, 2012		
WELL USE:	RECOVER	Y				· · · · · · · · · · · · · · · · · ·		
					Local ID: CA	N - 7		
			vated/Demolish					
Finished Well	l Depth (ft.):	40		V	/as a New Well Dril	led? N		
Formation Type: Unconsolidated New Well Permit Number:								
WELL DEC	OMMISSION	ING INFORM	MATION					
	Depth to	Depth to	Diameter		Material	Wgt/Rating/	Screen # Used	
I	Top (ft.)	Bottom (ft.)	(inches)			(lbs/	ch no.)	
Borehole	0	40	8				1 10	
Casing	0	10	4		PVC	SC	h 40	
Screen	10	40	4		pvc			
MATERIAL								
	Depth to	Depth to	Outer	Inner		Material		
Const	Top (ft.)	Bottom (ft.)	Diameter (in.)	` /	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Sand/Gravel	U	40	4	0	30	376	28	
	AL INFORMA	ATION						
Obstructions:				,	Authorization Offic	ial:		
Obstructions: No Authorization Official: Obstruction Type: Authorization Number:								
Alternative Decomm. Method? No					ate:			
ATTACHME	N ITTO							

Thomas L Hanley SGS NORTH AMERICA INC. **JOURNEYMAN** PO BOX 423 Sealing Driller: LICENSE # 0001181 West Creek (Ocean), NJ 08092

Well Permit Number E201200545

#### **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, JOURNEY	YMAN LICENSE # 0021243
Permit Issued to: SGS NORTH AMERICA INC.	
Company Address: PO BOX 423 WEST CREEK, NJ (	08092
PROPERTY OWNER	
Name: N/A 900 GARFIELD AVE. LLC	
Organization: 900 Garfield Ave. LLC	
Address: 1735 Market St #A-400	
City: Philladelphia State: Pennsylv	ania Zip Code: 19103
PROPOSED WELL LOCATION	
Facility Name: Site 114	
Address: 900 Garfield Ave	
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A
Easting (X): 611283 Northing (Y): 683594	Local ID: CAN - 8
Coordinate System: NJ State Plane (NAD83) - USFEET	CAN - 6
SITE CHARACTERISTICS	
PROPOSED CONSTRUCTION	
WELL USE: RECOVERY	Other Use(s):
	Regulatory Program
Diameter (in.): 4	Requiring Wells/Borings: Owner Investigation
Depth (ft.): 40	Case ID Number:
Pump Capacity (gpm): 1	Deviation Requested: N
Drilling Method: Hollow Stem Augers	
Attachments:	
SPECIFIC CONDITIONS/REQUIREMENTS	
SFECIFIC CONDITIONS/REQUIREMENTS	

Approved by the authority of:

**Bob Martin** 

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Commissioner

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

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

Well Permit Number E201200545

#### 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]

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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]

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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]

Well Permit Number **E201200545** 

# MONITORING WELL RECORD

	WONITORING WELL RECORD							
PROPERTY	PROPERTY OWNER: N/A 900 GARFIELD AVE. LLC							
Company/Org	ganization: 90	00 Garfield Av	e. LLC					
Address: 17	35 Market St	#A-400 Phillac	lelphia, Pennsyl	vania 19103				
WELL LOC	WELL LOCATION: Site 114							
Address: 900 Garfield Ave								
County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A								
Easting (X):	611286	Northing	(Y): 683594		DATE WELL ST	<b>ΓARTED:</b> February 21	, 2012	
Coordin	nate System: N	IJ State Plane (	NAD83) - USFI	EET DA	ATE WELL COM	PLETED: February 21	, 2012	
WELL USE:	RECOVER	Y						
Other Use(s)	:				Local ID: CA	AN -8		
WELL CON	STRUCTION	J						
		15	Finished We	ll Depth (ft.):	15	Well Surface: Flush	n Mount	
	Depth to	Depth to	Diameter		Material		/Screen # Used	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(108	/ch no.)	
Casing	0	5	4		PVC	S	ch.40	
Screen	5	15	4		PVC		.020	
	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	L.	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	2	10	4	15	50	9	
Gravel Pack	2	15	10	4		# 0 Sand		
Grouting Met	hod: Gravity	method		Dri	lling Method: Hol	low Stem Augers		
ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _ gpm Static Water Level: 6 ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: M-Scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: Mobile B-59 Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes Pump Type:								
ATTACHMENTS:								
GEOLOGIC LOG								
0 - 15: green/yellow OT - Other Fill; Manufacturing Debris								
ADDITIONA	AL INFORMA	ATION:						

William G Petley,
Driller of Record: JOURNEYMAN LICENSE # 0013761 Company: SGS NORTH AMERICA INC.

Well Permit Number
E201200545

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A 900 GARFIELD AVE LLC								
Company/Org	Company/Organization: 900 Garfield Ave LLC							
Address: 17	735 Market St	#A 400 Phillad	lelphia, Pennsylv	vania 19103				
WELLLOC	WELL LOCATION: Site 114							
Address: 900 Garfield Ave								
County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A								
Easting (X):	611283	Northing	(Y): <u>683594</u>		БАТ	E WELL		
			NAD83) - USFI			SIONED: May 24, 20	12	
WELL USE:	RECOVER	Y						
Other Use(s)	:				Local ID: CA	N - 8		
			vated/Demolishe					
Finished Wel	l Depth (ft.): _	15		V	Vas a New Well Dril	lled? N		
Formation Type: Unconsolidated New Well Permit Number:								
WELL DEC	OMMISSION	NING INFORM	MATION					
	Depth to Depth to Diameter Material Wgt/Rating/Screen # Used							
D	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)	
Borehole Casing	0	15 5	10		PVC		ch 40	
Screen	5	15	4		pvc		.020	
MATERIAL		15	Т		pve		.020	
WATERIAL	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	15	4		15	100	10	
Sand/Gravel								
	AL INFORMA							
Obstructions:	No				Authorization Offic	ial:		
Obstruction Type:								
Alternative Decomm. Method? No				Authorization Da	ate:			
Method Used								
ATTACHMENTS:								

Thomas L Hanley
JOURNEYMAN
Sealing Driller: LICENSE # 0001181

SGS NORTH AMERICA INC.
PO BOX 423
West Creek (Ocean), NJ 08092

Well Permit Number **E201200546** 

#### **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, JOURNEY	YMAN LICENSE # 0021243					
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.					
Company Address: PO BOX 423 WEST CREEK, NJ (	PO BOX 423 WEST CREEK, NJ 08092					
PROPERTY OWNER						
Name: N/A 900 GARFIELD AVE. LLC						
Organization: 900 Garfield Ave. LLC						
Address: 1735 Market St #A-400						
City: Philladelphia State: Pennsylva	ania Zip Code: 19103					
PROPOSED WELL LOCATION						
Facility Name: Site 114						
Address: 900 Garfield Ave						
County: Hudson Municipality: Jersey City	Lot: 1 Block: _2026.A					
Easting (X): 611229 Northing (Y): 683621	Local ID: CAN - 9					
Coordinate System: NJ State Plane (NAD83) - USFEET						
SITE CHARACTERISTICS						
PROPOSED CONSTRUCTION						
WELL USE: RECOVERY	Other Use(s):					
	Regulatory Program					
Diameter (in.): 4	Requiring Wells/Borings: Owner Investigation					
Depth (ft.): 40	Case ID Number:					
Pump Capacity (gpm): 1	Deviation Requested: N					
Drilling Method: Hollow Stem Augers						
Attachments:						
SPECIFIC CONDITIONS/REQUIREMENTS						
SFECIFIC CONDITIONS/REQUIREMENTS						

Approved by the authority of:

Bob Martin Commissioner

**Approval Date:** January 17, 2012

Expiration Date: January 16, 2013

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

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

Well Permit Number E201200546

#### 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. [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. 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]

Well Permit Number **E201200546** 

# **MONITORING WELL RECORD**

PROPERTY	PROPERTY OWNER: N/A 900 GARFIELD AVE. LLC						
Company/Organization: 900 Garfield Ave. LLC							
Address: 17	Address: 1735 Market St #A-400 Philladelphia, Pennsylvania 19103						
WELL LOC	ATION: Sit	e 114					
Address: 90	00 Garfield Av	e					
County: Hu	County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A						
Easting (X):	611229	Northing	(Y): 683621		DATE WELL ST	TARTED: February 16	5, 2012
Coordin	nate System: N	IJ State Plane (	NAD83) - USFI	EET <b>D</b>		PLETED: February 16	
WELL USE:	RECOVER	Y					
Other Use(s)	:				Local ID: CA	N - 9	
WELL CON	STRUCTION	Ī					
Total Depth	Drilled (ft.):	40	Finished We	ell Depth (ft.):_	40	Well Surface: Flush	n Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	40	11			(103	(CII IIO.)
Casing	0	10	4		PVC	S	ch 40
Screen	0	8	4		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	8	11	4	22	402	34
Gravel Pack	8	40	11	4	 	#0	
Grouting Met	thod: Pressur	e method (Trer	nie Pipe)	Dr	illing Method: Holl	low Stem Augers	
	AL INFORMA	<u>ATION</u>		D.	C		
Protective Ca Static Water I		low land surfa	ce		mp Capacity: _ gpm tal Design Head: _ fl	<u>.</u>	
Water Level I	Measure Tool:	m scope		Dr	illing Fluid:		
	ment Period:				ill Rig: <u>cme 1050</u>	G 1 1 10 10 17	
Pump Type:	evelopment: <u>pu</u>	<u>ımp</u>		Не	alth and Safety Plan	Submitted? Yes	
ATTACHMI	ENTS:						
GEOLOGIC							
0 - 8: black O							
8 - 15: black	OT - Other fill						
15 - 17: brow	15 - 17: brown PT - Peat, muck, and other highly organic soils						
17 - 30: red GM - Silty gravels, gravel-sand-silt mixtures							
30 - 40: red G	30 - 40: red GM - Silty gravels, gravel-sand-silt mixtures						
ADDITIONAL INFORMATION:							
	Jeff Ra	usa,					

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number
E201200546

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A 900 GARFIELD AVE LLC							
Company/Org	Company/Organization: 900 Garfield Ave LLC						
Address: 17	Address: 1735 Market St #A 400 Philladelphia, Pennsylvania 19103						
	WELL LOCATION: Site 114						
	Address: 900 Garfield Ave						
County: Hu	County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A						
Easting (X): 611229 Northing (Y): 683621 DATE WELL							
			NAD83) - USFI			SIONED: July 6, 2012	2
WELL USE:	RECOVER	Y					
Other Use(s)	:				Local ID: CA	N - 9	
			vated/Demolishe				
Finished Wel	l Depth (ft.):	40		V	Vas a New Well Dril	lled? N	
Formation Type: Unconsolidated New Well Permit Number:							
WELL DEC	OMMISSION	NING INFORM	MATION				
	Depth to	Depth to	Diameter	Material Wgt/Rating/Screen # Use			
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)
Casing	0	8	4		PVC		ch 40
Screen	8	40	4			010	
MATERIAL	S USED				r		
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	40	4	0	30	376	29
Sand/Gravel							
	AL INFORMA						
Obstructions:	No				Authorization Offic	ial:	
Obstruction T	Type:				Authorization Numl	oer:	
Alternative Decomm. Method? No				Authorization D	ate:		
Method Used							
ATTACHME	ENTS:						
					,		

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201200547** 

#### **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, JOURNEY	YMAN LICENSE # 0021243					
Permit Issued to: SGS NORTH AMERICA INC.						
Company Address: PO BOX 423 WEST CREEK, NJ (	PO BOX 423 WEST CREEK, NJ 08092					
PROPERTY OWNER						
Name: N/A 900 GARFIELD AVE. LLC						
Organization: 900 Garfield Ave. LLC						
Address: 1735 Market St #A-400						
City: Philladelphia State: Pennsylv	ania Zip Code: 19103					
PROPOSED WELL LOCATION						
Facility Name: Site 114						
Address: 900 Garfield Ave						
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A					
Easting (X): 611215 Northing (Y): 683594  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: CAN - 10					
SITE CHARACTERISTICS						
PROPOSED CONSTRUCTION						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY	Other Use(s):					
WELL USE: RECOVERY	Regulatory Program					
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation					
WELL USE:         RECOVERY           Diameter (in.):         4           Depth (ft.):         40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:					
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation					
WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:					
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:					
WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:					
WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:					
WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:					

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200547

#### **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. [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. 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]

Well Permit Number E201200547

# **MONITORING WELL RECORD**

PROPERTY	OWNER: _1	N/A 900 GAR	FIELD AVE. LI	LC			
Company/Org	ganization: 90	00 Garfield Av	e. LLC				
Address: 17	735 Market St	#A-400 Phillad	lelphia, Pennsyl	vania 19103			
WELL LOC	ATION: Sit	e 114					
Address: 90	00 Garfield Av	e					
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		_ Lot:_1	Block: 20	26.A
Easting (X):	611215	Northing	(Y): <u>683594</u>		DATE WELL ST	TARTED: February 17	7, 2012
Coordin	nate System: N	IJ State Plane (	NAD83) - USFI	EET <b>D</b>	ATE WELL COM	PLETED: February 17	7, 2012
WELL USE:	RECOVER	Y					
Other Use(s)	<b>:</b>				Local ID: CA	AN - 10	
WELL CON	STRUCTION	1					
Total Depth	Drilled (ft.):	40	Finished We	ell Depth (ft.):_	40	Well Surface: Flush	h Mount
	Depth to	Depth to	Diameter		Material		g/Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)
Casing	0	10	4		PVC	S	ch 40
Screen	10	40	4		pvc		.010
	Depth to	Depth to	Outer	Inner		Material	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in) 4	Bentonite (lbs.)	Neat Cement (lbs.) 402	Water (gal.)
Gravel Pack	8	40	11	4	22	#0	34
Grouting Met	hod: Pressur	e method (Trer	nie Pipe)	Dr	illing Method: Hol	low Stem Augers	
Protective Ca Static Water I Water Level I Well Develop	ADDITIONAL INFORMATION  Protective Casing: Yes Pump Capacity: _ gpm Static Water Level: 3 ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: m scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: cme 1050 Method of Development: pump Health and Safety Plan Submitted? Yes						
<b>ATTACHMI</b>	ENTS:						
GEOLOGIC 0 - 8: black O							
	OT - Other fill						
			highly organic s	soils			
	, .	els, gravel-san					
30 - 40: red GM - Silty gravels, gravel-sand-silt mixtures							
ADDITIONA	AL INFORMA	ATION:					
	Jeff Ra						
Driller of Rec	cord: JOURN	NEYMAN LIC	ENSE # 002012	9	Company:	SGS NORTH AMEI	RICA INC.

Company: SGS NORTH AMERICA INC.

Well Permit Number
E201200547

# WELL DECOMMISSIONING REPORT

PROPERTY	PROPERTY OWNER: N/A 900 GARFIELD AVE LLC						
Company/Org	Company/Organization: 900 Garfield Ave LLC						
Address: 17	35 Market St	#A 400 Phillad	lelphia, Pennsylv	vania 19103			
WELL LOC	WELL LOCATION: Site 114						
Address: 900 Garfield Ave							
	County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A						)26.A
Easting (X): 611215 Northing (Y): 683594 DATE WELL Coordinate System: NJ State Plane (NAD83) - USFEET DECOMMISSIONED: July 6, 2012							
WELL USE:	RECOVER	Y					
Other Use(s)	<u>:</u>				Local ID: CA	AN - 10	
Reason for Do	ecommissionir	ng: Site Exca	vated/Demolishe	ed			
Finished Wel	l Depth (ft.):	40		W	as a New Well Dri	lled? N	
Formation Ty	Formation Type: Unconsolidated New Well Permit Number:						
WELL DEC	OMMISSION	NING INFORM	MATION				
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material Wgt/Rating/Screen # Us (lbs/ch no.)			
Borehole	0	40	8				
Casing	0	10	4	PVC sch 40		sch 40	
Screen	10	40	4		PVC		
MATERIAL		1					
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)
Grout	0	40	4	0	30	376	28
Sand/Gravel							
ADDITIONA	AL INFORMA	ATION					
Obstructions:	No			I	Authorization Offic	cial:	
Obstruction T	ype:			Authorization Number:			
Alternative Decomm. Method? No					Authorization D	ate:	
Method Used							
ATTACHMENTS:							

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201200548** 

#### **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

	the permittee upon deceptance of the permit					
Certifying Driller: WESLEY M EICHFELD, JOURNEY	YMAN LICENSE # 0021243					
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.					
Company Address: PO BOX 423 WEST CREEK, NJ O	08092					
PROPERTY OWNER						
Name: N/A 900 GARFIELD AVE. LLC						
Organization: 900 Garfield Ave. LLC						
Address: 1735 Market St #A-400						
City: Philladelphia State: Pennsylv	ania Zip Code: 19103					
PROPOSED WELL LOCATION						
Facility Name: Site 114						
Address: 900 Garfield Ave						
County: Hudson Municipality: Jersey City	Lot: 1 Block:	2026.A				
Easting (X): 611269 Northing (Y): 683567	Local ID: CAN - 11					
Coordinate System: NJ State Plane (NAD83) - USFEET						
SITE CHARACTERISTICS						
PROPOSED CONSTRUCTION						
WELL USE: RECOVERY	Other Use(s):					
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation					
Depth (ft.): 40	Case ID Number:					
	Deviation Requested: N					
	Deviation Requested: N					
Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Deviation Requested: N					
Pump Capacity (gpm): 1	Deviation Requested: N					
Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Deviation Requested: N					
Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Deviation Requested: N					
Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Deviation Requested: N					
Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Deviation Requested: N					
Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Deviation Requested: N					

Approved by the authority of:

**Approval Date:** January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200548

#### 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. [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. 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]

Well Permit Number **E201200548** 

## **MONITORING WELL RECORD**

PROPERTY	OWNER: 1	N/A 900 GAR	FIELD AVE. L	LC			
Company/Org	ganization: 90	00 Garfield Av	e. LLC				
Address: 17	735 Market St	#A-400 Phillad	lelphia, Pennsyl	vania 19103			
WELL LOC	ATION: Sit	e 114					
Address: 90	00 Garfield Av	e					
County: Hu	dson	_ Municipality	y: Jersey City		_ Lot:_1	Block: 202	6.A
			(Y): <u>683567</u>		DATE WELL ST	TARTED: February 22,	2012
Coordii	nate System: N	IJ State Plane (	NAD83) - USFI	EET D.	ATE WELL COM	PLETED: February 22,	2012
WELL USE:	RECOVER	Y					
Other Use(s)	<b>:</b>				Local ID: CA	N - 11	
WELL CON	STRUCTION	1					
Total Depth	Drilled (ft.):	15	Finished We	ell Depth (ft.):	15	Well Surface: Flush	Mount
	Depth to	Depth to	Diameter		Material	Wgt/Rating/	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(IDS/	ch no.)
Casing	0	5	4	PVC sch 40		h 40	
Screen	5	15	4		pvc	).	)10
	Depth to	Depth to	Outer	Inner		Material	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.) 8	Neat Cement (lbs.)	Water (gal.)
Gravel Pack	3	3 15	11 11	4	0	#0	13
Grouting Met	thod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: Holl	low Stem Augers	
Protective Ca Static Water I Water Level I Well Develop	ADDITIONAL INFORMATION  Protective Casing: Yes Pump Capacity: _ gpm Static Water Level: 3 ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: m scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: cme 1050  Method of Development: pump Health and Safety Plan Submitted? Yes						
ATTACHM	ENTS:						
GEOLOGIC							
0 - 5: black O 5 - 8: black O							
	OT - Other fill						
10 - 14: black	OT - Other fi	11					
14 - 15: brow	n PT - Peat, m	uck, and other	highly organic s	soils			
ADDITION	AL INFORMA	ATION:					
	Jeff Ra	,					
Driller of Red	cord: <u>JOU</u> RN	IEYMAN LIC	ENSE # 002012	9	Company:	SGS NORTH AMER	ICA INC.

Well Permit Number **E201200548** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A 900 GARFIELD AVE LLC							
Company/Org	Company/Organization: 900 Garfield Ave LLC						
Address: 17	Address: 1735 Market St #A 400 Philladelphia, Pennsylvania 19103						
	WELL LOCATION: Site 114						
	Address: 900 Garfield Ave						
County: Hu	County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A						
Easting (X): 611269 Northing (Y): 683567 DATE WELL							
-			NAD83) - USFI			SIONED: July 6, 2012	
WELL USE:	RECOVER	Y	<u> </u>			0101(EDV <u> </u>	
					Local ID: CA	N - 11	
			vated/Demolishe		200m 120 <u></u>		
	l Depth (ft.):				/as a New Well Dril	led? N	
	pe: Unconso					nber:	
•	•		MATION				
WELL DECOMMISSIONING INFORMATION  Depth to Depth to Diameter Mater				Material	Wgt/Rating/	Screen # Used	
	Top (ft.)	Bottom (ft.)	(inches)				ch no.)
Borehole	0	15	10				
Casing	0	5	4		PVC	sc	h 40
Screen	5	15	4		pvc	).	)20
MATERIAL	S USED						
	Depth to	Depth to	Outer	Inner		Material	
C	Top (ft.)	Bottom (ft.)	` /	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout Sand/Gravel	0	15	4	0	15	100	12
l	AL INFORMA	ATION					
Obstructions:					Authorization Offic	ial:	
						per:	
Obstruction Type:							
Method Used							
ATTACHME	ATTACHMENTS:						

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201200549** 

#### **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, JOURNEY	YMAN LICENSE # 0021243						
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.						
Company Address: PO BOX 423 WEST CREEK, NJ (	PO BOX 423 WEST CREEK, NJ 08092						
PROPERTY OWNER							
Name: N/A 900 GARFIELD AVE. LLC							
Organization: 900 Garfield Ave. LLC							
Address: 1735 Market St #A-400							
City: Philladelphia State: Pennsylva	zip Code: 19103						
PROPOSED WELL LOCATION							
Facility Name: Site 114							
Address: 900 Garfield Ave							
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A						
Easting (X): 611201 Northing (Y): 683568	Local ID: CAN - 12						
Coordinate System: NJ State Plane (NAD83) - USFEET							
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
WELL USE: RECOVERY	Other Use(s):						
	Regulatory Program						
Diameter (in.): 4	Requiring Wells/Borings: Owner Investigation						
Depth (ft.): 40	Case ID Number:						
Pump Capacity (gpm): 1	Deviation Requested: N						
Drilling Method: Hollow Stem Augers							
Attachments:							
SPECIFIC CONDITIONS/REQUIREMENTS							

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201200549

#### 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. [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. 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]

Well Permit Number **E201200549** 

## **MONITORING WELL RECORD**

PROPERTY	OWNER: 1	N/A 900 GAR	FIELD AVE. L	LC					
Company/Org	ganization: 90	00 Garfield Av	e. LLC						
Address: 1735 Market St #A-400 Philladelphia, Pennsylvania 19103									
<u></u>	ATION: Sit		1						
Address: 900 Garfield Ave									
County: Hu	dson	_ Municipality	y: Jersey City		Lot:_1	Block: 20	)26.A		
Easting (X): 611201 Northing (Y): 683568 <b>DATE WELL STARTED:</b> February 2, 2012									
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: February 2, 2012									
WELL USE: RECOVERY									
Other Use(s): Local ID: CAN - 12									
WELL CON	STRUCTION	Ī							
Total Depth	Drilled (ft.):	39	Finished We	ell Depth (ft.):_	39	Well Surface: Flus	sh Mount		
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)		
Borehole	0	39	11						
Casing	0	9	4		PVC		sch 40		
Screen	9	39	4	4 pvc .010					
	Depth to	Depth to	Outer	Inner		Material			
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.) 352	Water (gal.)		
Gravel Pack	7	39	11	4 4	19	#0	30		
	<u> </u>	e method (Trei	I		rilling Method: Hol	<del>-</del>			
_	AL INFORMA	•							
Protective Ca		ATTON		Pu	ımp Capacity: _ gpm				
Static Water	Level: <u>3</u> ft. be	elow land surfa	ce	To	otal Design Head: _ f				
	Measure Tool: oment Period: _				rilling Fluid: rill Rig: <u>cme 1050</u>				
	evelopment: <u>pt</u>				ealth and Safety Plan	Submitted? Yes			
						<u></u>			
ATTACHM	ENTS:								
GEOLOGIC									
	OT - Other fill								
	OT - Other fi								
			highly organic s	soils					
	, .	els, gravel-san							
			d-silt mixtures						
ADDITION	AL INFORMA	ATION:							
	Leff Rausa								

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number
E201200549

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A 900 GARFIELD AVE LLC								
Company/Org	Company/Organization: 900 Garfield Ave LLC							
Address: 17	735 Market St	#A 400 Phillad	lelphia, Pennsylv	ania 19103				
WELLLOC	ATION: C'	- 114						
	ATION: Sit							
	00 Garfield Av							
County: Hu	dson	_ Municipality	y: Jersey City		_ Lot:_ 1	Block: 20	26.A	
Easting (X):	611201	Northing	(Y): <u>683568</u>		БАТ	E WELL		
			NAD83) - USFI			SIONED: July 6, 2012	2	
WELL USE:	RECOVER	Y						
Other Use(s): Local ID: CAN - 12								
Reason for Decommissioning: Site Excavated/Demolished								
Finished Well Depth (ft.): 39 Was a New Well Drilled? N								
Formation Type: Unconsolidated New Well Permit Number:								
WELL DECOMMISSIONING INFORMATION								
	Depth to	Depth to	Diameter		Material		g/Screen # Used	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	(lbs/ch no.)	
Casing	0	9	4		PVC	S	ch 40	
Screen	9	39	4		pvc		010	
MATERIAL	S USED	<u> </u>	ll		1			
	Depth to	Depth to	Outer	Inner				
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` /	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Sand/Gravel	0	39	4	0	30	376	29	
	A L INEODM	ATION						
	AL INFORMA					• 1		
						ial:		
Alternative Decomm. Method? No				Authorization D	ate:			
Method Used	·							
ATTACHME	ENTS:							

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201200550** 

#### **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

11 0 0	<u> </u>							
Certifying Driller: WESLEY M EICHFELD, JOURNEY	YMAN LICENSE # 0021243							
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.							
Company Address: PO BOX 423 WEST CREEK, NJ 08092								
PROPERTY OWNER								
Name: N/A 900 GARFIELD AVE. LLC								
Organization: 900 Garfield Ave. LLC								
Address: 1735 Market St #A-400								
City: Philladelphia State: Pennsylva	zip Code: 19103							
PROPOSED WELL LOCATION Facility Name: Site 114 Address: 900 Garfield Ave								
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A							
Easting (X): 611256 Northing (Y): 683540  Coordinate System: NJ State Plane (NAD83) - USFEET	Easting (X): 611256 Northing (Y): 683540 Local ID: CAN - 13							
SITE CHARACTERISTICS								
PROPOSED CONSTRUCTION								
WELL USE: RECOVERY	Other Use(s):							
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation							
Depth (ft.): 40	Case ID Number:							
Pump Capacity (gpm): 1	Deviation Requested: N							
Drilling Method: Hollow Stem Augers								
Attachments:								
SPECIFIC CONDITIONS/REQUIREMENTS								

Approved by the authority of:

Bob Martin Commissioner

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

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

Well Permit Number E201200550

#### **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. [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. 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]

Well Permit Number **E201200550** 

## **MONITORING WELL RECORD**

PROPERTY	PROPERTY OWNER: N/A 900 GARFIELD AVE. LLC							
Company/Org	Company/Organization: 900 Garfield Ave. LLC							
Address: 17	Address: 1735 Market St #A-400 Philladelphia, Pennsylvania 19103							
WELL LOC	WELL LOCATION: Site 114							
Address: 90	00 Garfield Av	e						
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		_ Lot: 1	Block: 20	)26.A	
Easting (X):	611256	Northing	(Y): <u>683540</u>		DATE WELL ST	TARTED: January 31	, 2012	
Coordii	Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: January 31, 2012							
WELL USE:	WELL USE: RECOVERY							
Other Use(s): Local ID:CAN - 13								
WELL CON	STRUCTION	Ī						
Total Depth	Drilled (ft.):	40	Finished We	ell Depth (ft.):	40	Well Surface: Flus	sh Mount	
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)	
Borehole	0	40	11		(105) CH HO.)			
Casing	0	10	4		PVC		sch40	
Screen	10	40	4		pvs		.010	
	Depth to	Depth to	Outer	Inner	Inner Material			
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Gravel Pack	0 8	8 40	11 11	4 4	22	402 #0	34	
•					lling Mothod: Holl			
Grouting Method: Pressure method (Tremie Pipe)  ADDITIONAL INFORMATION  Protective Casing: Yes Static Water Level: 3 ft. below land surface Water Level Measure Tool: m scope Well Development Period: 1 hrs. Drill Rig: cme 1050 Method of Development: sytrifical pump Pump Type:  Drilling Method: Hollow Stem Augers  Pump Capacity: _ gpm Total Design Head: _ ft.  Drilling Fluid: Drill Rig: cme 1050 Health and Safety Plan Submitted? Yes								
ATTACHMI								
0 - 14: grey C		els, gravel-san	d-silt mixtures					
			ic silty clays of	low plasticity				
		els, gravel-san						
	ŭ		l gravel-sand mi	•	no fines			
39 - 40: red S	W - Well-grad	ed sands and g	ravelly sands, li	ttle or no fines				
ADDITION	ADDITIONAL INFORMATION:							
Jeff Rausa,								
	Jeff Ra	usa,						

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number
E201200550

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A 900 GARFIELD AVE LLC							
Company/Organization: 900 Garfield Ave LLC							
Address: 17	35 Market St	#A 400 Phillad	elphia, Pennsylv	vania 19103			
·			1 / 3				
	ATION: Sit						
Address: 90	00 Garfield Av	e					
County: Hudson Municipality: Jersey City					_ Lot:_1	Block: 202	26.A
Easting (X):	611256	Northing	(Y): 683540		БАТ	VE XX/ET I	
l -			NAD83) - USFI			'E WELL SIONED: July 5, 2012	2
WELL USE:	RECOVER	Y				<u> </u>	
Other Use(s): Local ID: CAN - 13							
Reason for Decommissioning: Site Excavated/Demolished							
Finished Well Depth (ft.): 40 Was a New Well Drilled? N							
Formation Type: Unconsolidated New Well Permit Number:							
WELL DECOMMISSIONING INFORMATION							
	Depth to	Depth to	Diameter		Material		Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)
Casing	0	10	4		PVC	Su	ch 40
Screen	10	40	4		pvc		010
MATERIAL	CHCED	<u> </u>			r · ·		
MATERIAL	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	40	4	0	30	376	31
Sand/Gravel							
ADDITIONA	AL INFORMA	ATION					
Obstructions:	No		_		Authorization Offic	ial:	
Obstruction T	ype:				Authorization Numl	oer:	
Alternative Decomm. Method? No					Authorization D	ate:	
Method Used							
ATTACHME	ENTS:						

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201201459** 

#### **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, JOURNEY	YMAN LICENSE # 0021243								
Permit Issued to: SGS NORTH AMERICA INC.									
Company Address: PO BOX 423 WEST CREEK, NJ (	08092								
PROPERTY OWNER									
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	Y								
Organization: Jersey City Redevelopment Agency									
Address: 30 Montgomery Street Suite 900									
City: Jersey City State: New Jersey Zip Code: 07302									
PROPOSED WELL LOCATION									
Facility Name: Site 114									
Address: 900 Garfield Avenue Address Verified Wes Eichfeld									
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A								
Easting (X): 611232 Northing (Y): 683552	Local ID: MON-12								
Coordinate System: NJ State Plane (NAD83) - USFEET									
SITE CHARACTERISTICS									
SITE CHARACTERISTICS									
SILE CHARACTERISTICS									
PROPOSED CONSTRUCTION									
	Other Use(s):								
PROPOSED CONSTRUCTION  WELL USE: MONITORING	Regulatory Program								
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings:								
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings:  Case ID Number:								
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0	Regulatory Program Requiring Wells/Borings:								
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings:  Case ID Number:								
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings:  Case ID Number:								
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings:  Case ID Number:								
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _0  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings:  Case ID Number:								
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _0  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings:  Case ID Number:								

Approved by the authority of:

Bob Martin Commissioner

Approval Date: February 2, 2012

**Expiration Date:** February 1, 2013

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201201459

#### 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. [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. 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]

Well Permit Number **E201201459** 

## MONITORING WELL RECORD

PROPERTY	OWNER: 1	N/A JERSEY (	CITY REDEVE	LOPMENT AC	GENCY				
	Company/Organization: Jersey City Redevelopment Agency  Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302								
	WELL LOCATION: Site 114								
			Verified Wes Ei						
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		_ Lot: 1	Block: 20	26.A		
Easting (X): 611232 Northing (Y): 683552 <b>DATE WELL STARTED:</b> February 1, 2012									
Coordi	Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: February 1, 2012								
WELL USE:	MONITOR	ING							
Other Use(s)	:				Local ID: MC	ON-12			
WELL CON	STRUCTION	I							
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)		Witterful		s/ch no.)		
Borehole	0	40	11						
Casing	0	30	4		PVC	S	sch 40		
Screen	30	40	4		pvc		.010		
	Depth to	Depth to	Outer	Inner	D ( '(11 )	Material	<b>11</b> 7 ( 1)		
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.) 1409	Water (gal.) 120		
Gravel Pack	28	40	11	4	76	#0	120		
Grouting Met	thod: Pressur	e method (Trer	nie Pipe)	Dr	illing Method: Holl	low Stem Augers			
•	AL INFORMA	,	1 /						
Protective Ca	sing: Yes				mp Capacity: _ gpm				
	Level: <u>3</u> ft. be Measure Tool:	elow land surfa	ce		tal Design Head: _ ft	ī.			
	oment Period:				illing Fluid: ill Rig: <u>cme 1050</u>				
	evelopment: <u>pu</u>				alth and Safety Plan	Submitted? Yes			
Pump Type:									
ATTACHM	ENTS:								
GEOLOGIC		1 1	1 11 1						
		els, gravel-san	d-silt mixtures nic silty clays of	lan placticity					
			d-silt mixtures	low plasticity					
			gravel-sand mi	xtures. little or	no fines				
			ravelly sands, li						
ADDITIONAL INFORMATION:									
	Jeff Ra	usa,							

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number **E201201459** 

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY N/A								
Company/Organization: jersey city redevelopment agency								
Address: 30	) montgomery	street suite 900	) Jersey City, Ne	w Jersey 07302	2			
			<u> </u>	·				
	ATION: Sit							
			Verified Wes Eig					
County: Hu	dson	_ Municipality	y: Jersey City		_ Lot: 1	Block: 20	26.A	
Easting (X):	611232	Northing	(Y): <u>683552</u>		БАТ	E WELL		
			NAD83) - USFI			SIONED: February 1,	2012	
WELL USE:	MONITOR	ING						
Other Use(s): Local ID: MON-12								
Reason for Decommissioning: Site Excavated/Demolished								
Finished Well Depth (ft.): 40 Was a New Well Drilled? N								
Formation Type: Unconsolidated New Well Permit Number:								
WELL DECOMMISSIONING INFORMATION								
	Depth to	Depth to	Diameter		Material		g/Screen # Used	
<b>D</b> 1.1	Top (ft.)	Bottom (ft.)	(inches)			(lbs	(lbs/ch no.)	
Borehole	0	20	4		PVC		.1. 40	
Casing Screen	30	30 40	4		PVC		.010	
		40	4		rvc		.010	
MATERIAL	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	40	4	0	16	376	35	
Sand/Gravel								
<b>ADDITION</b>	AL INFORMA	ATION						
Obstructions:	No				Authorization Offic	ial:		
Obstruction T	_							
				Authorization Da	ate:			
Method Used								
ATTACHME	ENTS:							

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201201460** 

#### **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, JOURNEYMAN LICENSE # 0021243				
Permit Issued to: SGS NORTH AMERICA INC.	: 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: 30 Montgomery Street Suite 900				
City: Jersey City State: New Jerse	zip Code: <u>07302</u>			
PROPOSED WELL LOCATION				
Facility Name: Site 114				
Address: 900 Garfield Avenue Address verified Wes Eichfeld				
County: Hudson Municipality: Jersey City	Lot: 1 Block: _2026.A			
Easting (X): 611259 Northing (Y): 683606	Local ID: MON-13			
Coordinate System: NJ State Plane (NAD83) - USFEET				
SITE CHARACTERISTICS				
PROPOSED CONSTRUCTION				
WELL USE: MONITORING	Other Use(s):			
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings:			
Depth (ft.): 40	Case ID Number:			
Pump Capacity (gpm): 0	Deviation Requested: N			
Drilling Method: Hollow Stem Augers				
Attachments:				
SPECIFIC CONDITIONS/REQUIREMENTS				

Approved by the authority of:

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201201460

#### **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. [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. 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]

Well Permit Number **E201201460** 

## MONITORING WELL RECORD

<b>DDODEDTV</b>	OWNED. N	J/A IERSEV	CITY REDEVE	I OPMENT A	GENCY		
			evelopment Age		JENC I		
			00 Jersey City, N		02		
Address. 30	) Monigomery	Sireet Suite 90	o Jersey City, I	iew Jeisey 073	02		
WELL LOC	ATION: Sit	e 114					
Address: 90	00 Garfield Av	enue Address v	verified Wes Eig	hfeld			
County: Hu	dson	Municipality	y: Jersey City		Lot:_1	Block: 20	26.A
Easting (X):	611259	Northing	(Y): 683606		DATE WELL ST	TARTED: February 22	2, 2012
1			NAD83) - USFI	EET D		PLETED: February 22	
WELL USE:	: MONITOR	ING					,
					Local ID: MO	ON-13	
	STRUCTION		Einighad Wa	II Donth (A)	40	Wall Curfage: Elua	h Mount
I otal Deptn	Drilled (ft.):			en Deptn (π.):		<del></del>	h Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	40	11			(10)	5/CH HO.)
Casing	0	30	4		PVC	S	ch 40
Screen	30	40	4		pvc		.010
	Depth to	Depth to	Outer	Inner		Material	
Const	Top (ft.)	Bottom (ft.)	Diameter (in.)	· /		Neat Cement (lbs.)	Water (gal.)
Grout Gravel Pack	0 28	28 40	11 11	4 4	78	1409 #0	120
	ı	e method (Trer			illing Method: Holl	low Stem Augers	
•	AL INFORMA	,	F - )		<u> </u>		
Protective Ca	sing: Yes				mp Capacity: _ gpm		
		elow land surfa	ce		tal Design Head: _ ft		
	Measure Tool: oment Period: _				illing Fluid: ill Rig: <u>cme 1050</u>		
Method of De	evelopment: <u>pu</u>				alth and Safety Plan	Submitted? Yes	
Pump Type:							
ATTACHMENTS:							
GEOLOGIC		1 1	1 11 1				
0 - 10: grey GM - Silty gravels, gravel-sand-silt mixtures  10 - 20: black OL - Organic silts and organic silty clays of low plasticity							
20 - 27: red GM - Silty gravels, gravel-sand-silt mixtures							
27 - 37: red GW - Well-graded gravels and gravel-sand mixtures, little or no fines							
37 - 40: red SW - Well-graded sands and gravelly sands, little or no fines							
ADDITIONAL INFORMATION:							
	Jeff Ra	usa,					

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number **E201201460** 

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY N/A								
Company/Org	ganization: je	rsey city redev	elopment agency	y				
				ew Jersey 07302	2			
				· · · · · · · · · · · · · · · · · · ·				
	ATION: Sit							
			verified Wes Eic					
County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A						6.A		
Easting (X): 611259 Northing (Y): 683606 DATE WELL								
Coordin	nate System: N	JJ State Plane (	NAD83) - USFI	EET		SIONED: March 15, 20	013	
WELL USE:	MONITOR	ING						
Other Use(s)	<b>:</b>				Local ID: MC	DN-13		
Reason for De	ecommissionir	ng: No longer	in use					
Finished Well	Depth (ft.):	40		W	as a New Well Dril	led? N		
Formation Ty	pe: Unconso	lidated		Ne	ew Well Permit Nun	nber:		
WELL DEC	OMMISSION	NING INFORM	MATION					
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	]	Material		Screen # Used ch no.)	
Borehole								
Casing	0	30	4	PVC		sc	sch 40	
Screen	30	40	4	pvc .10			.10	
MATERIAL		1						
	Depth to	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in) D. d. id (II.)			Material Water (rel)	
Grout	Top (ft.)	40	4	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Sand/Gravel	<u> </u>		-					
ADDITIONAL INFORMATION								
Obstructions: No Authorization Official:								
Obstruction Type: Authorization Number:								
Alternative Decomm. Method? No Authorization Date:								
Method Used								
ATTACHMENTS:								

Thomas Lynch SGS NORTH AMERICA INC. MONITORING PO BOX 423

Sealing Driller: LICENSE # 435631 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201201461** 

#### **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, JOURNEY	g Driller: WESLEY M EICHFELD, JOURNEYMAN LICENSE # 0021243			
Permit Issued to: SGS NORTH AMERICA INC.	ed to: SGS NORTH AMERICA INC.			
Company Address: PO BOX 423 WEST CREEK, NJ 0	8092			
PROPERTY OWNER				
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY				
Organization: Jersey City Redevelopment Agency				
Address: 30 Montgomery Street Suite 900				
City: Jersey City State: New Jerse	zip Code: <u>07302</u>			
PROPOSED WELL LOCATION Facility Name: Site 114				
Address: 900 Garfield Avenue Address Verified Wes Eichfeld				
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A			
Easting (X): 611286 Northing (Y): 683659 Local ID: MON-14  Coordinate System: NJ State Plane (NAD83) - USFEET				
SITE CHARACTERISTICS				
PROPOSED CONSTRUCTION				
WELL USE: MONITORING	Other Use(s):			
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings:			
Depth (ft.): 40	Case ID Number:			
Pump Capacity (gpm): 0				
Drilling Method: Hollow Stem Augers				
Attachments:				
SPECIFIC CONDITIONS/REQUIREMENTS				

Approved by the authority of:

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

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

Well Permit -- Page 1 of 2

2010

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

Well Permit Number E201201461

#### **WELL PERMIT**

<b>DEVIATION INFORMATION</b>	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. 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]

Well Permit Number Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831 E201201461

### MONITORING WELL RECORD

WONTOKING WELL RECORD								
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT AG	BENCY			
Company/Or	ganization: <u>Je</u>	ersey City Rede	evelopment Age	ncy				
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	02			
WELL LOC	ATION: Site	e 114						
Address: 90	00 Garfield Av	enue Address V	Verified Wes Ei	chfeld				
County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A								
Easting (X):	611286	Northing	(Y): <u>683659</u>		DATE WELL ST	ARTED: February 2	21, 2012	
Coordi	nate System: N	IJ State Plane (	NAD83) - USFI	EET DA	ATE WELL COM	PLETED: February 2	21, 2012	
WELL USE:	MONITOR	ING						
Other Use(s)	:				Local ID: MC	DN-14		
WELL CON	STRUCTION	1						
Total Depth	Drilled (ft.):	40	Finished We	ell Depth (ft.):	40	Well Surface: Flu	sh Mount	
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		ng/Screen # Used os/ch no.)	
Borehole	0	40	10				,	
Casing	0	30	4		PVC		Sch.40	
Screen	30	40	4		PVC		.020	
	Depth to	Depth to	Outer	Inner		Material	1	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in) 4	Bentonite (lbs.)	Neat Cement (lbs.) 800	Water (gal.) 42	
Gravel Pack	26	40	10	4	30	# 0 Sand	42	
ı	thod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: Holl			
Grouting Method: Pressure method (Tremie Pipe)  ADDITIONAL INFORMATION  Protective Casing: No Static Water Level: 6 ft. below land surface Water Level Measure Tool: M-Scope Well Development Period: 1 hrs. Method of Development: Centrifugal Pump Pump Type:  ATTACHMENTS:  Drilling Method: Hollow Stem Augers  Pump Capacity: _ gpm Total Design Head: _ ft.  Drilling Fluid: Drilling Fluid: Drill Rig: Mobile B-59 Health and Safety Plan Submitted? Yes								
0 - 16: Redish		Other Fill: Mar	nufacturing Deb	ric				
			ic silty clays of					
_			ls and gravelly s		o fines			
36 - 40: Redish Brown SM - Silty sands, sand-silt mixtures								
ADDITIONAL INFORMATION:								
William G Petley,								

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0013761

Well Permit Number **E201201461** 

### WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Org	ganization: Je	ersey City Rede	velopment Age	ncy				
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2			
	WELL LOCATION: Site 114							
			Verified Wes Eig					
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 1	Block: 202	26.A	
Easting (X): 611286 Northing (Y): 683659 DATE WELL								
Coordinate System: NJ State Plane (NAD83) - USFEET  DECOMMISSIONED: February 21, 2012						, 2012		
WELL USE:	MONITOR	ING				· · · · · · · · · · · · · · · · · ·	,	
Other Use(s)					Local ID: MC	N-14		
Reason for Decommissioning: Site Excavated/Demolished								
Finished Well Depth (ft.): 40 Was a New Well Drilled? N								
Formation Type: Unconsolidated New Well Permit Number:								
WELL DEC	OMMISSION	NING INFORM	MATION					
	Depth to	Depth to	Diameter		Material		Rating/Screen # Used	
Danahala	Top (ft.)	Bottom (ft.)	(inches)			(lbs/	(ch no.)	
Borehole Casing	0	30	4		PVC	9.0	eh 40	
Screen	30	40	4		PVC		020	
		40	т		1 1 0	<u> </u>	020	
MATERIAL	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)		Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	40	4	0	16	376	35	
Sand/Gravel								
ADDITIONA	AL INFORMA	ATION						
Obstructions:	No			1	Authorization Offic	ial:		
Obstruction Type:					Authorization Numb	per:		
Alternative Decomm. Method? No					Authorization Da	ate:		
Method Used								
ATTACHME	ENTS:							

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201201540** 

#### **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, JOURNEY	YMAN LICENSE # 0021243								
Permit Issued to: SGS NORTH AMERICA INC.	nit Issued to: SGS NORTH AMERICA INC.								
Company Address: PO BOX 423 WEST CREEK, NJ 08092									
PROPERTY OWNER									
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	7								
Organization: jersey City Redevelopment Agency									
Address: 30 Montgomery Street Suite 900									
City: Jersey City State: New Jerse	zip Code: <u>07302</u>								
PROPOSED WELL LOCATION									
Facility Name: Site 114									
Address: 880 Garfield Ave Address verified Wes Eichfeld									
County: Hudson Municipality: Jersey City	Lot: 3A Block: 2026.1								
Easting (X): 611354 Northing (Y): 683726	Local ID: MON - 15								
Coordinate System: NJ State Plane (NAD83) - USFEET									
SITE CHARACTERISTICS									
PROPOSED CONSTRUCTION									
WELL USE: MONITORING	Other Use(s):								
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation								
Depth (ft.): 40	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

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

**Approval Date:** February 2, 2012 **Expiration Date:** February 1, 2013

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

Well Permit Number E201201540

#### 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. [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. 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]

Well Permit Number E201201540

	MONITORING WELL RECORD							
PROPERTY	OWNER: _1	N/A JERSEY	CITY REDEVE	LOPMENT AG	ENCY			
Company/Org	ganization: <u>je</u>	rsey City Rede	velopment Age	ncy				
Address: 30	Montgomery	Street Suite 90	00 Jersey City, N	New Jersey 0730	)2			
WELL LOC	ATION: Sit	e 114						
Address: 88	30 Garfield Av	e Address verit	fied Wes Eichfe	ld				
County: Hue	dson	_ Municipality	y: Jersey City		Lot: 3A	Block: 20	26.1	
Easting (X): 611354 Northing (Y): 683726 DATE WELL STARTED: February 24, 2012 Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: February 24, 2012								
WELL USE:	MONITOR	ING				<u> 1001441                               </u>	.,	
					Local ID: MON	V - 15		
	STRUCTION							
		15	Finished We	ell Depth (ft.):	W	ell Surface: Flus	h Mount	
Depth to Depth to Diameter Material Wgt/Rating/Screen # Used Top (ft.) Bottom (ft.) (inches) (lbs/ch no.)								
Borehole	0	15	10					
Casing	0	5	4		PVC		Sch.40	
Screen	5	15	4		PVC		.020	
	Depth to	Depth to	Outer	Inner Material				
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.) 50	Water (gal.)	
Gravel Pack	2	15	10	4	13	# 0 Sand	0	
Grouting Met	hod: Gravity	method		Dri	lling Method: Hollov	w Stem Augers		
ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _ gpm Static Water Level: 6_ ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: M-Scope Drilling Fluid: Well Development Period: 1_ hrs. Drill Rig: Mobile B-59 Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes Pump Type:  ATTACHMENTS:								
0 - 14: Redish		Other Fill: Mar	uufacturing Deb	ris				
0 - 14: Redish Brown OT - Other Fill; Manufacturing Debris 14 - 15: Brown PT - Peat, muck, and other highly organic soils								
ADDITIONAL INFORMATION:								
ADDITIONAL INFORMATION:								

Company: SGS NORTH AMERICA INC.

William G Petley, Driller of Record: JOURNEYMAN LICENSE # 0013761

Well Permit Number **E201201540** 

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Org	ganization: Je	ersey City Rede	evelopment Ager	ncy				
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2			
·			<u> </u>	•				
	ATION: Sit							
			fied Wes Eichfel					
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 3A	Block: 20	26.1	
Easting (X): 611345 Northing (Y): 683720 <b>DATE WELL</b>								
Coordin	nate System: N	IJ State Plane (	NAD83) - USFI	EET		SIONED: April 26, 20	)12	
WELL USE:	MONITOR	ING						
Other Use(s)	:				Local ID: MO	ON - 15		
Reason for Decommissioning: Site Excavated/Demolished								
Finished Wel	l Depth (ft.): _	15		V	Vas a New Well Dril	lled? N		
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nur	mber:		
WELL DEC	OMMISSION	ING INFORM	MATION					
	Depth to	Depth to	Diameter		Material		g/Screen # Used	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)	
Casing	0	5	4		PVC			
Screen	5	15	4		1,0			
MATERIAL	S USED	<u> </u>				<u>.</u>		
	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` /	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Sand/Gravel	0	15	4	0	15	94	8	
Li contra di Con	AL INFORMA	ATION						
Obstructions:					Authorization Office	ial:		
Obstruction Type:					per:			
Alternative Decomm. Method? No					Authorization Da	ate:		
Method Used								
ATTACHME	NTS:							

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423
LICENSE # 0001181
Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201201462** 

#### **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, JOURNE	YMAN LICENSE # 0021243								
Permit Issued to: SGS NORTH AMERICA INC.									
Company Address: PO BOX 423 WEST CREEK, NJ 08092									
PROPERTY OWNER									
Name: N/A JERSEY CITY REDEVELOPMENT AGENC	Y								
Organization: Jersey City Redevelopment Agency									
Address: 30 Montgomery Street Suite 900									
City: Jersey City State: New Jers	sey Zip Code: _07302								
PROPOSED WELL LOCATION									
Facility Name: Site 114									
Address: 900 Garfield Avenue Address Verified Wes Eichfeld	I								
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A								
Easting (X): 611292 Northing (Y): 683754	Local ID: MON-16								
Coordinate System: NJ State Plane (NAD83) - USFEET									
SITE CHARACTERISTICS									
PROPOSED CONSTRUCTION									
WELL USE: MONITORING	Other Use(s):								
Diameter (in ). A	Regulatory Program								
Diameter (in.): 4  Depth (ft.): 40	Requiring Wells/Borings:								
Pump Capacity (gpm): 0	Case ID Number:  Deviation Requested: N								
Drilling Method: Hollow Stem Augers	Deviation Requested: N								
Attachments:									
7 Ktachments.									
SPECIFIC CONDITIONS/REQUIREMENTS									

Approved by the authority of:

**Approval Date:** February 2, 2012

**Expiration Date:** February 1, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201201462

#### 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. [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. 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]

Well Permit Number **E201201462** 

### MONITORING WELL RECORD

			MOMI	OMING WE	EL RECORD			
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT A	GENCY			
Company/Org	ganization: Je	rsey City Rede	evelopment Age	ncy				
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	New Jersey 073	802			
WELL LOC	CATION: Site	e 114						
Address: 90	00 Garfield Av	enue Address V	Verified Wes Ei	chfeld				
County: Hu	dson	Municipality	y: Jersey City		Lot: 1	Block: 20	26.A	
County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A  Easting (X): 611292 Northing (Y): 683754 DATE WELL STARTED: February 8, 2012								
			(1). <u>083734</u> NAD83) - USFI	-		·		
			1411003) 0011		ATE WELL COM	PLETED: February 8,	2012	
	: MONITOR				Local ID: MO	DN-16		
	STRUCTION							
	Drilled (ft.):		Finished We	ell Denth (ft )	16	Well Surface: Abov	ve Grade	
rotar Beptin				B eptir (10.)	Material	·		
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Materiai		g/Screen # Used s/ch no.)	
Borehole	0	16	11			,		
Casing	0	6	4		PVC	S	ch 40	
Screen	6	16	4		pvc		.010	
	Depth to	Depth to	Outer	Inner		Material		
Canada	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′	\ /	Neat Cement (lbs.)	Water (gal.)	
Grout Gravel Pack		4 16	11 11	4	11	201 #0	17	
	thod: Pressur	I		l	illing Method: Holl			
•	AL INFORM	,	ine ripe)		mp Capacity: _ gpm	ow stem rugers		
Static Water	Level: 3 ft. be		ce		otal Design Head: _ ft			
	Measure Tool:				illing Fluid:			
	oment Period: _ evelopment: pu				rill Rig: cme 1050 ealth and Safety Plan	Submitted? Yes		
Pump Type:	о сегоринени. <u>ре</u>	<u>p</u>		110	and surety I fair	<u>105</u>		
ATTACHM	ENTS:							
GEOLOGIC								
0 - 5: black O								
	OT - Other fill							
12 - 15: black OT - Other fill 15 - 16: brown PT - Peat, muck, and other highly organic soils								
ADDITIONAL INFORMATION:								
ADDITION	AL INFORMA	ATTON.						
	Jeff Ra	usa,						

Driller of Record: JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

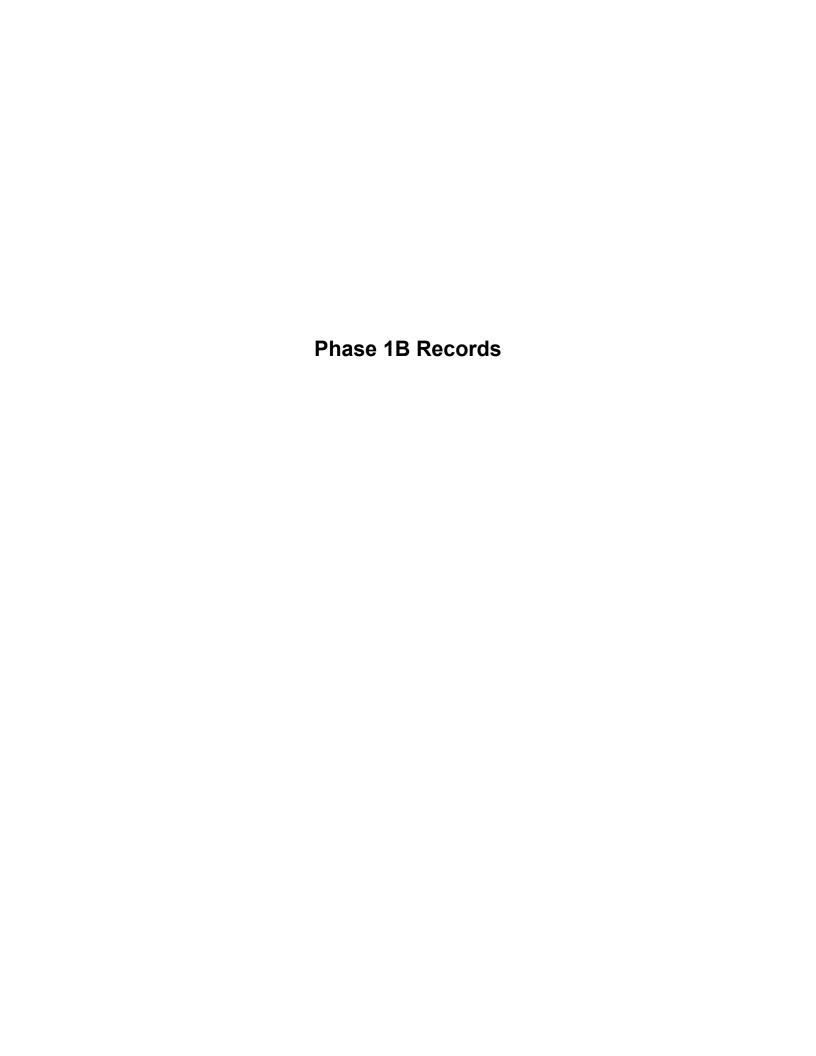
Well Permit Number
F201201462

## WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: _J	JERSEY CITY	REDEVELOP	MENT AGENC	Y			
Company/Org	ganization: Je	ersey City Rede	evelopment Agei	ncy				
		-	0 Jersey City, N	-	)2			
				<u> </u>				
	ATION: Sit							
Address: 90	00 Garfield Av	enue Address V	Verified Wes Eig	chfeld				
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		_ Lot:_1	Block: 20	)26.A	
Easting (X):	611292	Northing	(Y): 683754		БАТ	NE WIEL I		
Coordii	nate System: N	J State Plane (	NAD83) - USFI	EET		'E WELL SIONED: April 26, 2	012	
WELL USE:	MONITOR	ING						
	·				Local ID: MO	ON-16		
		ng: No longer						
Finished Well Depth (ft.): Was a New Well Drilled? N								
Formation Type: Unconsolidated New Well Permit Number:								
WELL DEC	OMMISSION	NING INFORM	MATION					
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)	
Borehole	• • •	, ,				· ·	,	
Casing	0	6	4		PVC		40	
Screen	6	16	4		PVC		10 slot	
MATERIAL	S USED							
	Depth to	Depth to	Outer	Inner	D ( '(1 )	Material	W ( 1)	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.) 4	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.) 94	Water (gal.) 5.2	
Sand/Gravel	0	10	7	U		71	3.2	
ADDITION	AL INFORMA	ATION						
Obstructions:	No				Authorization Offic	ial:		
Obstruction Type:					Authorization Number:			
Alternative Decomm. Method? No					Authorization D	ate:		
Method Used								
ATTACHME								

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092



Well Permit Number E201200551

#### **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, JOURNEY	MAN LICENSE # 0021243			
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.			
Company Address: PO BOX 423 WEST CREEK, NJ (	8092			
PROPERTY OWNER				
Name: N/A 900 GARFIELD AVE. LLC				
Organization: 900 Garfield Ave. LLC				
Address: 1735 Market St #A-400				
City: Philladelphia State: Pennsylva	niia Zip Code: 19103			
PROPOSED WELL LOCATION				
Facility Name: Site 114				
Address: 900 Garfield Ave				
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A			
Easting (X): 611188 Northing (Y): 683541  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: CAN - 14			
SITE CHARACTERISTICS				
PROPOSED CONSTRUCTION				
PROPOSED CONSTRUCTION  WELL USE: RECOVERY	Other Use(s):			
WELL USE: RECOVERY	Regulatory Program			
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation			
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:			
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation			
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:			
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:			
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:			
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:			
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:			

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200551

#### 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. [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. 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]

Well Permit Number **E201200551** 

### **MONITORING WELL RECORD**

PROPERTY OWNER: N/A 900 GARFIELD AVE. LLC							
Company/Org	Company/Organization: 900 Garfield Ave. LLC						
Address: 17	735 Market St	#A-400 Phillad	lelphia, Pennsyl	vania 19103			
WELL LOC	ATION: Site	e 114					
Address: 90	00 Garfield Av	e					
County: Hu	County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A						
Easting (X):	Easting (X): 611188 Northing (Y): 683541 <b>DATE WELL STARTED:</b> January 17, 2012						
Coordii	nate System: N	J State Plane (	NAD83) - USFI	EET D	ATE WELL COM	PLETED: January 17	, 2012
WELL USE:	RECOVER	Y					
					Local ID: CA	N - 14	
WELL CON	STRUCTION	Ī					
Total Depth	Drilled (ft.):	40	Finished We	ell Depth (ft.):	40	Well Surface: Flus	h Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	40	11				,
Casing	0	10	4		PVC		sch 40
Screen	10	40	4		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	0 8	8 40	11 11	4 4	22	#0 #0	34
•					lling Mothod: Holl		
ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De	Grouting Method: Pressure method (Tremie Pipe)  ADDITIONAL INFORMATION  Protective Casing: Yes Pump Capacity: _gpm Static Water Level: 3_ft. below land surface Total Design Head: _ft.  Water Level Measure Tool: m scope Drilling Fluid: Well Development Period: 1_ hrs. Drill Rig: cme 1050  Method of Development: sytriphical pump Health and Safety Plan Submitted? Yes  Pump Type:						
<b>GEOLOGIC</b> 0 - 12: grev C		els, gravel-san	d-silt mixtures				
			nic silty clays of	low plasticity			
		els, gravel-san					
	ŭ		l gravel-sand mi		no fines		
39 - 40: red S	W - Well-grad	ed sands and g	ravelly sands, li	ttle or no fines			
ADDITIONAL INFORMATION:							
	Ioff Do	Juca					
	Jeff Ra	usa,					

Driller of Record: JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

Well Permit Number
E201200551

## WELL DECOMMISSIONING REPORT

Company Organization:   900 Garfield Ave   LLC	PROPERTY	OWNER: _1	N/A 900 GARF	FIELD AVE LL	.C			
WELL LOCATION:   Site   114	Company/Organization: 900 Garfield Ave LLC							
Address: 900 Garfield Ave								
Address: 900 Garfield Ave	WELLLOC	ATION: C'	- 114	•				
County:   Hudson   Municipality:   Jersey City   Lot:   Block: 2026.A								
Basting (X):   611188								
Coordinate System: NJ State Plane (NAD83) - USFEET   DECOMMISSIONED: July 6, 2012	County: Hue	County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A					6.A	
MELL USE   RECOVERY	Easting (X):	Easting (X): 611188 Northing (Y): 683541						
Material   Section   Sec	Coordin	nate System: N	J State Plane (	NAD83) - USFI	EET			
Case   Can   Can	WELL USE:	RECOVER	Y					
Reason for Decommissioning:   Site Excavated/Demolished						Local ID: CA	N - 14	
New Well Permit Number:								
WELL DECOMMISSIONING INFORMATION           Depth to Top (ft.)         Depth to Bottom (ft.)         Diameter (inches)         Material         Wgt/Rating/Screen # Used (lbs/ch no.)           Borehole         0         40         8	Finished Well	Depth (ft.): _	40		W	/as a New Well Dril	led? N	
Depth to Top (ft.)   Diameter (inches)   Depth to Screen   Depth to Top (ft.)   Diameter (inches)   Diam	Formation Ty	pe: Unconso	olidated		No	ew Well Permit Nur	nber:	
Top (ft.)   Bottom (ft.)   (inches)   (lbs/ch no.)	WELL DEC	OMMISSION	NING INFORM	MATION				
Borehole						Material		
Casing         0         10         4         PVC         sch 40           Screen         10         40         4         PVC         sch 40           MATERIALS USED           Depth to Top (ft.)         Depth to Bottom (ft.)         Outer Diameter (in.)         Inner Diameter (in.)         Meat Cement (lbs.)         Water (gal.)           Grout         0         40         4         0         30         376         29           Sand/Gravel         ADDITIONAL INFORMATION           Obstruction Type:         Authorization Official:           Obstruction Type:         Authorization Number:           Authorization Date:	<b>5</b> 1 1		` ′	,			(lbs/	ch no.)
Screen         10         40         4         pvc         .020           MATERIALS USED           Depth to Top (ft.)         Depth to Depth to Top (ft.)         Outer Diameter (in.)         Inner Diameter (in.)         Material Bentonite (lbs.)         Neat Cement (lbs.)         Water (gal.)           Grout         0         40         4         0         30         376         29           Sand/Gravel         ADDITIONAL INFORMATION           Obstructions: No         Authorization Official:           Obstruction Type: Authorization Number:           Alternative Decomm. Method? No         Authorization Date:           Method Used				_		DILC		1 40
MATERIALS USED           Depth to Top (ft.)         Depth to Bottom (ft.)         Outer Diameter (in.)         Inner Diameter (in.)         Material Bentonite (lbs.)         Neat Cement (lbs.)         Water (gal.)           Grout 0 40 40 4 0 30 376         29           Sand/Gravel         ADDITIONAL INFORMATION           Obstructions: No Authorization Official:         Authorization Number:           Alternative Decomm. Method? No Authorization Date:         Authorization Date:			-					
Depth to Top (ft.)   Depth to Bottom (ft.)   Diameter (in.)   Diameter (in.)   Diameter (in.)   Bentonite (lbs.)   Neat Cement (lbs.)   Water (gal.)	Screen	10	40	4		pvc .020		
Top (ft.) Bottom (ft.) Diameter (in.) Diameter (in) Bentonite (lbs.) Neat Cement (lbs.) Water (gal.)  Grout 0 40 4 0 30 376 29  ADDITIONAL INFORMATION  Obstructions: No Authorization Official:  Obstruction Type: Authorization Number:  Alternative Decomm. Method? No Authorization Date:	MATERIAL	S USED						
Grout         0         40         4         0         30         376         29           ADDITIONAL INFORMATION           Obstructions:         No         Authorization Official:           Obstruction Type:         Authorization Number:           Alternative Decomm. Method?         No         Authorization Date:           Method Used         No         Authorization Date:		1						
Sand/Gravel  ADDITIONAL INFORMATION  Obstructions: No Authorization Official: Obstruction Type: Authorization Number: Alternative Decomm. Method? No Authorization Date:  Method Used	Caracat	1 \ /	` /	` /	` /			(O)
ADDITIONAL INFORMATION  Obstructions: No Authorization Official:		0	40	4	0	30	3/6	29
Obstructions: No Authorization Official: Obstruction Type: Authorization Number: Alternative Decomm. Method? No Authorization Date:  Method Used	l	AL INFORMA	ATION					
Obstruction Type: Authorization Number: Alternative Decomm. Method? No Authorization Date: Method Used		3.7				Authorization Offic	ial:	
Alternative Decomm. Method? No Authorization Date:  Method Used								
Method Used								
	ATTACHME							

Thomas L Hanley SGS NORTH AMERICA INC. **JOURNEYMAN** PO BOX 423 Sealing Driller: LICENSE # 0001181 Company:

Decommissioning Report -- Page 1 of 1

Well Permit Number E201200552

#### **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

11 8					
Certifying Driller: WESLEY M EICHFELD, JOURNEY	YMAN LICENSE # 0021243				
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.				
Company Address: PO BOX 423 WEST CREEK, NJ 0	08092				
PROPERTY OWNER					
Name: N/A 900 GARFIELD AVE. LLC					
Organization: 900 Garfield Ave. LLC					
Address: 1735 Market St #A-400					
City: Philladelphia State: Pennsylva	zip Code: 19103				
PROPOSED WELL LOCATION					
Facility Name: Site 114					
Address: 900 Garfield Ave					
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A				
Easting (X): 611242 Northing (Y): 683514  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: CAN - 15				
SITE CHARACTERISTICS					
PROPOSED CONSTRUCTION					
WELL USE: RECOVERY	Other Use(s):				
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation				
Depth (ft.): 40	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:** January 13, 2012

Expiration Date: January 12, 2013

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200552

#### 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. [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. 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]

Well Permit Number **E201200552** 

### MONITORING WELL RECORD

			MONT	OKING WE	LL RECORD		
PROPERTY	OWNER: 1	N/A 900 GAR	FIELD AVE. L	LC			
Company/Org	ganization: 90	00 Garfield Ave	e. LLC				
Address: 17	735 Market St	#A-400 Phillad	lelphia, Pennsyl	vania 19103			
WELL LOC	ATION: Sit	e 114					_
Address: 90	00 Garfield Av	e					
County: Hu	County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A						
Easting (X):	611242	Northing	(Y): 683514		DATE WELL ST	TARTED: January 17,	2012
Coordi	nate System: N	IJ State Plane (	NAD83) - USFI	EET DA	ATE WELL COM	PLETED: January 17,	2012
WELL USE:	RECOVER	Y					
Other Use(s)	:				Local ID: CA	AN - 15	
WELL CON	STRUCTION	Ī					
Total Depth	Drilled (ft.):	15	Finished We	ell Depth (ft.):	15	Well Surface: Flush	n Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	15	11				
Casing	0	5	4		PVC	S	ch 40
Screen	5	15	4		pvc		.010
	Depth to	Depth to	Outer	Inner		Material	
Co. 4	Top (ft.)	Bottom (ft.)	Diameter (in.)	`	· /	Neat Cement (lbs.)	Water (gal.)
Grout Gravel Pack	3	3 15	11 11	4	8	151 #0	13
Grouting Method: Pressure method (Tremie Pipe)  Drilling Method: Hollow Stem Augers							
•	AL INFORMA		1 /			<u> </u>	
Protective Ca		111011			np Capacity: _ gpm		
		elow land surfa	ce		tal Design Head: _ f	t.	
	Measure Tool: oment Period: _				lling Fluid: ll Rig: <u>cme 1050</u>		
		ntrifical pump			alth and Safety Plan	Submitted? Yes	
Pump Type:	_				-		
<b>ATTACHM</b>	ENTS:						
GEOLOGIC							
		ls, gravel-sand					
		els, gravel-san		1 1			
			nic silty clays of nic silty clays of				
	-	_	highly organic s	•			
			inginy organic s	50113			
ADDITION	AL INFORMA	ATION:					

Company: SGS NORTH AMERICA INC.

Jeff Rausa,

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number
E201200552

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A 900 GARFIELD AVE LLC							
Company/Organization: 900 Garfield Ave LLC							
Address: 17	35 Market St	#A 400 Phillad	lelphia, Pennsylv	vania 19103			
WELL LOC	ATLON C'	114	<u> </u>				
	ATION: Sit						
Address: 90	00 Garfield Av	e					
County: Hu	County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A					26.A	
Easting (X):	611242	Northing	(Y): <u>683514</u>		DAT	VE XX/ET I	
· ·			NAD83) - USFI			<b>E WELL</b> <b>SIONED:</b> July 5, 2012	2
WELL USE:	RECOVER	Y					
					Local ID: CA	N - 15	
			vated/Demolishe				
Finished Wel	l Depth (ft.):	15		W	as a New Well Dril	lled? N	
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nur	nber:	
WELL DEC	OMMISSION	NING INFORM	MATION				
	Depth to	Depth to	Diameter		Material		/Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)
Casing	0	5	4		PVC	S.	ch 40
Screen	5	15	4			.010	
MATERIAL		1	·		P		.010
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	\ /	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout Sand/Gravel	0	15	4	0	15	150	10
l e e e e e e e e e e e e e e e e e e e	AL INFORMA	ATION					
					A - 41 : 4: O.C.	1.1.	
				Authorization Official:			
Obstruction Type:			-				
Alternative Decomm. Method? No				Authorization D	ate:		
Method Used							
ATTACHME	ENTS:						

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201201545** 

#### **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

11 0 0	<u> </u>				
Certifying Driller: WESLEY M EICHFELD, JOURNEY	YMAN LICENSE # 0021243				
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.				
Company Address: PO BOX 423 WEST CREEK, NJ (	08092				
PROPERTY OWNER					
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	7				
Organization: jersey City Redevelopment Agency					
Address: 30 Montgomery St., Suite 900					
City: Jersey City State: New Jerse	ey Zip Code: <u>07302</u>				
PROPOSED WELL LOCATION Facility Name: Site 114					
Address: 880 Garfield Ave Address & lot verified by tax map	Wes Ei				
County: Hudson Municipality: Jersey City	Lot: 4A Block: 2026.1				
Easting (X): 611192 Northing (Y): 683505  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: CAN - 16				
SITE CHARACTERISTICS					
PROPOSED CONSTRUCTION					
WELL USE: RECOVERY	Other Use(s):				
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation				
Depth (ft.): _40	Case ID Number:				
Pump Capacity (gpm): 1					
Drilling Method: Hollow Stem Augers					
Attachments:					
SPECIFIC CONDITIONS/REQUIREMENTS					

Approved by the authority of:

Bob Martin Commissioner

**Approval Date:** February 2, 2012

Expiration Date: February 1, 2013

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201201545

#### 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. [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. 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]

Well Permit Number **E201201545** 

## **MONITORING WELL RECORD**

PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT AC	GENCY		
Company/Org	ganization: je	rsey City Rede	velopment Agei	ncy			
Address: 30	) Montgomery	St., Suite 900 .	Jersey City, Nev	v Jersey 07302			
	ATION: Site			•			
Address: 88	30 Garfield Av	e Address & lo	ot verified by tax	map Wes Ei			
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		_ Lot: 4A	Block: 20	26.1
Easting (X):	611192	Northing	(Y): <u>683505</u>		DATE WELL ST	CARTED: January 27,	2012
Coordii	nate System: N	J State Plane (	NAD83) - USFI	EET <b>D</b>	ATE WELL COMI	PLETED: January 27,	2012
WELL USE:	RECOVER	Y					
Other Use(s)	:				Local ID: CA	N - 16	
WELL CON	STRUCTION	I					
Total Depth	Drilled (ft.):	36	Finished We	ell Depth (ft.):	36	Well Surface: Flush	n Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	36	11			(100	<del>/ Ull 110.)</del>
Casing	0	6	4		PVC	S	ch 40
Screen	6	36	11		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	<u>0</u> 4	36	11 11	4 4	11	201 #0	17
					l illing Method: Holl		
_	hod: Pressure		nie Pipe)	<b>D</b> r	illing Method: Holl	ow Stem Augers	
ADDITIONA Protective Ca	AL INFORMA	<u>ATION</u>		Dur	mp Capacity: _ gpm		
	sing. <u>1 es</u> Level: <u>3</u> ft. be	low land surfa	ce		tal Design Head: _ ft		
Water Level I	Measure Tool:	m scope		Dr	illing Fluid:		
	oment Period:				ill Rig: cme 1050	C-1	
Pump Type:	evelopment: <u>pu</u>	<u>ımp</u>		не	alth and Safety Plan	Submitted? Yes	
ATTACHMI	ENTS:						
GEOLOGIC							
0 - 8: black O							
8 - 15: black	OT - Other fill						
			highly organic s	soils			
	, ,	, 0	d-silt mixtures				
25 - 36: red C	3M - Silty grav	els, gravel-san	d-silt mixtures				
ADDITION	AL INFORMA	ATION:					
	1.00 D						
	Jeff Ra	usa,					

Driller of Record: JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

Well Permit Number E201201545

## WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: 1	N/A JERSEY (	CITY REDEVE	LOPMENT AG	ENCY			
Company/Org	ganization: Je	ersey City Rede	evelopment Age	ncy				
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	lew Jersey 0730	)2			
WELLLOC	ATION. CH	. 114	•	•				
	ATION: Sit							
			t verified by tax					
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 4A	Block: 20	)26.1	
Easting (X):	611192	Northing	(Y): 683505		ВАТ			
Coordii	nate System: N	J State Plane (	NAD83) - USFI	EET	DATE WELL			
WELL USE:	RECOVER	Y						
Other Use(s)	:				Local ID: CA	N - 16		
Reason for De	ecommissionir	ng: Site Exca	vated/Demolishe	ed				
Finished Wel	l Depth (ft.): _	36		V	/as a New Well Dril	lled? N		
Formation Type: Unconsolidated New Well Permit Number:								
WELL DEC	OMMISSION	NING INFORM	MATION					
	Depth to	Depth to	Diameter		Material		g/Screen # Used	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(Ib	s/ch no.)	
Casing	0	6	4		PVC		sch 40	
Screen	6	36	4		pvc		.010	
MATERIAL	S USED				-			
	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Sand/Gravel	0	36	4	0	30	376	27	
	AL INFORMA	ATION						
Obstructions:		- '			Authorization Offic	ial:		
	ecomm. Metho	. 49 N.		<u> </u>				
					Authorization Da	ate		
ATTACHME	ENTS:							

Thomas L Hanley SGS NORTH AMERICA INC. **JOURNEYMAN** PO BOX 423 Sealing Driller: LICENSE # 0001181

Well Permit Number **E201200553** 

#### **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

YMAN LICENSE # 0021243
08092
rania Zip Code: 19103
Lot: 1 Block: 2026.A
Local ID: CAN - 17
Other Use(s):
Regulatory Program Requiring Wells/Borings: Owner Investigation
Case ID Number:
Deviation Requested: N

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201200553

#### 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. [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. 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]

Well Permit Number **E201200553** 

### **MONITORING WELL RECORD**

PROPERTY	OWNER: 1	N/A 900 GAR	FIELD AVE. LI	LC			
Company/Org	ganization: 90	00 Garfield Ave	e. LLC				
Address: 17	735 Market St	#A-400 Phillad	lelphia, Pennsyl	vania 19103			
WELL LOC	ATION: Site	e 114					
Address: 90	00 Garfield Av	e					
County: Hu	dson	_ Municipality	y: Jersey City		_ Lot:_1	Block: 20	26.A
Easting (X):	611228	Northing	(Y): 683488		DATE WELL ST	TARTED: January 13,	2012
			NAD83) - USFI			PLETED: January 13,	
WELL USE:	RECOVER	Y					
					Local ID: CA	N - 17	
WELL CON	STRUCTION	I					
Total Depth	Drilled (ft.):	40	Finished We	ll Depth (ft.):	40	Well Surface: Flus	h Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	40	11				······································
Casing	0	20	4		PVC	S	ch 40
Screen	20	40	4		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	18	11	4	50	906	77
Gravel Pack		40	11	4		#0	
Grouting Met	hod: Pressur	e method (Trer	nie Pipe)	Dr	illing Method: Holl	low Stem Augers	
	AL INFORMA	ATION		_			
Protective Ca		low land surfa	CA		mp Capacity: _ gpm tal Design Head: _ ft		
	Measure Tool:		cc		illing Fluid:	••	
Well Develop	ment Period:	<u>1</u> hrs.		Dr	ill Rig: <u>cme 1050</u>		
	-	ntrifical pump		Не	alth and Safety Plan	Submitted? Yes	
<u>ATTACHM</u>	ENTS:						
GEOLOGIC							
		els, gravel-san		1 1 41 . 14			
		els, gravel-san	nic silty clays of	low plasticity			
			gravel-sand mi	xtures little or	no fines		
			ravelly sands, li	•			
ADDITION	AL INFORMA	ATION:	-				
1122111							
	Jeff Ra	usa,					

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number
E201200553

## WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: _1	N/A 900 GARF	FIELD AVE LL	.C			
Company/Org	ganization: 90	00 Garfield Av	e LLC				
Address: 17	35 Market St	#A 400 Phillad	lelphia, Pennsylv	vania 19103			
WELL LOC	ATION: Sit	e 114					
	00 Garfield Av						
			T. C'i		T -4: 1	D11. 20	26.4
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 1	Block: 20	26.A
Easting (X):	611228	Northing	(Y): <u>683488</u>		ВАТ	e wett	
			NAD83) - USFI				
WELL USE:	RECOVER	Y					
Other Use(s)	<b>:</b>				Local ID: CA	N - 17	
Reason for D	ecommissionir	ng: Site Exca	vated/Demolishe	ed			
Finished Wel	l Depth (ft.):	40		W	/as a New Well Dril	led? N	
Formation Type: Unconsolidated New Well Permit Number:							
WELL DEC	OMMISSION	NING INFORM	MATION				
	Depth to	Depth to	Diameter		Material		/Screen # Used
D 1.1	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)
Borehole Casing	0	20	4		PVC		ch 40
Screen	20	40	4		pvc		010
		10			pvc		010
MATERIAL	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	40	4	0	30	376	30
Sand/Gravel							
<b>ADDITION</b>	AL INFORMA	ATION					
Obstructions:	No				Authorization Offic	ial:	
Obstruction T	ype:				Authorization Numb	oer:	
Alternative D	ecomm. Meth	od? No			Authorization Da	ate:	
Method Used							
ATTACHME	ENTS:						

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number E201200554

#### **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

11 0 0 7	
Certifying Driller: WESLEY M EICHFELD, JOURNEY	YMAN LICENSE # 0021243
Permit Issued to: SGS NORTH AMERICA INC.	
Company Address: PO BOX 423 WEST CREEK, NJ (	08092
PROPERTY OWNER	
Name: N/A 900 GARFIELD AVE. LLC	
Organization: 900 Garfield Ave. LLC	
Address: 1735 Market St #A-400	
City: Philladelphia State: Pennsylva	ania Zip Code: 19103
PROPOSED WELL LOCATION	
Facility Name: Site 114	
Address: 900 Garfield Ave	
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A
Easting (X): 611216 Northing (Y): 683493  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: CAN - 18
SITE CHARACTERISTICS	
PROPOSED CONSTRUCTION	
WELL USE: RECOVERY	Other Use(s):
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation
Depth (ft.): 40	Case ID Number:
Pump Capacity (gpm): 1	Deviation Requested: N
Drilling Method: Hollow Stem Augers	•
Attachments:	
SPECIFIC CONDITIONS/REQUIREMENTS	

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

**Bob Martin** Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200554

#### 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. [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. 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]

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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]

Well Permit Number **E201200554** 

### **MONITORING WELL RECORD**

PROPERTY	OWNER: 1	N/A 900 GAR	FIELD AVE. LI	LC			
Company/Org	ganization: 90	00 Garfield Ave	e. LLC				
Address: 17	735 Market St	#A-400 Phillad	lelphia, Pennsyl	vania 19103			
WELL LOC	ATION: Site	e 114					
Address: 90	00 Garfield Av	e					
County: Hu	dson	_ Municipality	y: Jersey City		_ Lot: 1	Block: 2	026.A
Easting (X):	611216	Northing	(Y): <u>683493</u>		DATE WELL ST	TARTED: January 17	, 2012
Coordii	nate System: N	J State Plane (	NAD83) - USFI	EET D	ATE WELL COM	PLETED: January 17	, 2012
WELL USE:	RECOVER	Y					
					Local ID: CA	AN - 18	
WELL CON	STRUCTION	Ī					
Total Depth	Drilled (ft.):	15	Finished We	ell Depth (ft.):	15	Well Surface: Flu	sh Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used os/ch no.)
Borehole	0	15	11				,
Casing	0	5	4		PVC		sch 40
Screen	5	15	4		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	3	3 15	11 11	4 4	8	151 #0	13
•		e method (Trer			l illing Method: Hol		
ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De	AL INFORMA sing: Yes Level: 3 ft. be Measure Tool: oment Period: _ evelopment: ce	ATION  clow land surfaction  m scope  hrs. ntrifical pump	ce	Pui To Dri Dri	mp Capacity: _ gpm tal Design Head: _ fi illing Fluid: ill Rig: <u>cme 1050</u> alth and Safety Plan	i.	
<b>GEOLOGIC</b> 0 - 5: grey GN		ls, gravel-sand	-silt mixtures				
		. 0	d-silt mixtures				
10 - 12: black	OL - Organic	silts and organ	nic silty clays of	low plasticity			
	_	_	nic silty clays of				
14 - 15: brow	n PT - Peat, m	uck, and other	highly organic s	soils			
ADDITION	AL INFORMA	ATION:					
	Jeff Ra	usa.					

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number E201200554

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A 900 GAR	FIELD AVE LI	LC .				
Company/Organization: 900 Garfield A	ve LLC					
Address: 1735 Market St #A 400 Philla	delphia, Pennsyl	vania 19103				
	1 / 3					
WELL LOCATION: Site 114						
Address: 900 Garfield Ave						
County: Hudson Municipali	ty: Jersey City		Lot: 1	Block: 202	26.A	
Easting (X): 611216 Northing	(Y): 683493		<b>.</b>			
Coordinate System: NJ State Plane			DATE WELL			
WELL USE: RECOVERY			BECOMMIS	5101(ED. <u>vary e, 2012</u>		
			Local ID: CA	M - 18		
Other Use(s):			Local ID. CE	AN - 18		
Reason for Decommissioning: Site Exc	avated/Demonsn		, M. W. 11 D. ''	11 10		
Finished Well Depth (ft.): 15				lled? N		
Formation Type: <u>Unconsolidated</u>		No	ew Well Permit Nu	mber:		
WELL DECOMMISSIONING INFOR		<b>-</b>	26	TIT (D)	/G	
Depth to Depth to Top (ft.) Bottom (ft.)	Diameter (inches)		Material		/Screen # Used /ch no.)	
Borehole 0 15	10			(IOS	, <b>c</b> ii	
Casing 0 5	4		PVC	Se	ch 40	
Screen 5 15	4		pvc			
MATERIALS USED						
Depth to Depth to	Outer	Inner		Material		
Top (ft.)   Bottom (ft.)   Grout   0   15	Diameter (in.)	` ^		Neat Cement (lbs.)	Water (gal.)	
Grout 0 15 Sand/Gravel	4	0	15	180	12	
ADDITIONAL INFORMATION						
Obstructions: No			Authorization Offic	cial:		
Obstruction Type:				ber:		
Alternative Decomm. Method? No				ate:		
Method Used	_					
ATTACHMENTS:						

Thomas L Hanley SGS NORTH AMERICA INC. **JOURNEYMAN** PO BOX 423 West Creek (Ocean), NJ 08092

Well Permit Number **E201201546** 

#### **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, JOURNEY	YMAN LICENSE # 0021243
Permit Issued to: SGS NORTH AMERICA INC.	
Company Address: PO BOX 423 WEST CREEK, NJ (	08092
PROPERTY OWNER	
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	Ý.
Organization: _jersey City Redevelopment Agency	
Address: 30 Montgomery St., Suite 900	
City: Jersey City State: New Jers	ey Zip Code: <u>07302</u>
PROPOSED WELL LOCATION	
Facility Name: Site 114	
Address: 880 Garfield Ave Address & Lot verified by tax map	Wes Ei
County: Hudson Municipality: Jersey City	Lot: 4A Block: 2026.1
Easting (X): 611205 Northing (Y): 683498  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: CAN - 19
SITE CHARACTERISTICS	
SITE CHARACTERISTICS	
PROPOSED CONSTRUCTION	
	Other Use(s):
PROPOSED CONSTRUCTION  WELL USE: RECOVERY	Regulatory Program
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: _RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1	Regulatory Program Requiring Wells/Borings: Owner Investigation
PROPOSED CONSTRUCTION  WELL USE: _RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: _RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: _RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: _RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: _RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:

Approved by the authority of:

Approval Date: February 2, 2012

**Expiration Date:** February 1, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201201546

#### 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. [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. 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]

Well Permit Number **E201201546** 

### **MONITORING WELL RECORD**

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY									
Company/Org	ganization: <u>je</u>	rsey City Rede	velopment Ager	ncy					
Address: 30	) Montgomery	St., Suite 900.	Jersey City, Nev	v Jersey 07302					
WELL LOC	ATION: Site	e 114							
Address: 88	30 Garfield Av	e Address & L	ot verified by ta	x map Wes Ei					
County: Hu	County: Hudson Municipality: Jersey City Lot: 4A Block: 2026.1								
Easting (X): 611205 Northing (Y): 683498 <b>DATE WELL STARTED:</b> January 25, 2012									
			NAD83) - USFI			PLETED: January 25,			
WELL USE:	RECOVER	Y				· · <u>- · · · · · · · · · · · · · · </u>			
					Local ID: CA	N - 19			
	STRUCTION								
Total Depth	Drilled (ft.):	40	Finished We	ell Depth (ft.):	40	Well Surface: Flus	h Mount		
	Depth to	Depth to	Diameter		Material	Wgt/Rating	g/Screen # Used		
	Top (ft.)	Bottom (ft.)	(inches)				s/ch no.)		
Borehole	0	40	11						
Casing	0	20	4		PVC		ch 40		
Screen	20	40	4		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	0 18	18 40	11 11	4 4	50	906 #0	77		
		e method (Trer			lling Method: Holl	<del>-</del>			
_			ine i ipe)	Dii	ming without. 110m	ow Stelli Augers			
Protective Ca	AL INFORMA sing: Yes	ATION		Puu	mp Capacity: _ gpm				
		elow land surfa	ce		tal Design Head: _ ft	·			
	Measure Tool:				lling Fluid:				
	oment Period: _ evelopment: <u>pu</u>				ll Rig: <u>cme 1050</u> alth and Safety Plan	Submitted? Vec			
	. veторинент. <u>рт</u>	шр		110	arm and Sarcty I fair	Submitted: 1es			
	ATTACHMENTS:								
GEOLOGIC LOG									
0 - 8: black OT - Other fill									
8 - 15: black OT - Other fill									
15 - 17: brown PT - Peat, muck, and other highly organic soils									
17 - 35: red GM - Silty gravels, gravel-sand-silt mixtures									
35 - 40: red GM - Silty gravels, gravel-sand-silt mixtures									
ADDITIONAL INFORMATION:									
<del></del>	Ieff Ra	1100				·	<del></del>		

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number **E201201546** 

## WELL DECOMMISSIONING REPORT

Company/Organization:   Jersey City Redevelopment Agency	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
WELL LOCATION: Site 114           Address: 880 Garfield Ave Address & Lot verified by tax map Wes Ei           County: Hudson	Company/Org	ganization: Je	ersey City Rede	velopment Age	ncy				
WELL LOCATION: Site 114           Address: 880 Garfield Ave Address & Lot verified by tax map Wes Ei           County: Hudson	Address: 30	Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	12			
Address:   880 Garfield Ave Address & Lot verified by tax map Wes Ei									
County:   Hudson   Municipality:   Jersey City   Lot: 4A   Block: 2026.1									
Easting (X): 611205	Address: 880 Garfield Ave Address & Lot verified by tax map Wes Ei								
Coordinate System: NJ State Plane (NAD83) - USFEET   DECOMMISSIONED: July 6, 2012	County: Hu	dson	_ Municipality	Jersey City		Lot: 4A Block: 2026.1			
Coordinate System: NJ State Plane (NAD83) - USFEET   DECOMMISSIONED: July 6, 2012	Easting (X): 611205 Northing (Y): 683498								
WELL USE: RECOVERY           Local ID: CAN - 19           Reason for Decommissioning: Site Excavated/Demolished           Finished Well Depth (ft.): 40         Was a New Well Drilled? N           Formation Type: Unconsolidated New Well Permit Number:           WELL DECOMMISSIONING INFORMATION           Depth to Top (ft.)         Depth to Bottom (ft.)         Diameter (inches)         Material Wgt/Rating/Screen # Used (lbs/ch no.)           Borehole         0         40         8         Casing         0         10         4         PVC         Sch 40           Screen         10         40         4         PVC         Sch 40           MATERIALS USED           MATERIALS USED           Depth to Top (ft.)         Depth to Bottom (ft.)         Outer Diameter (in.)         Inner Diameter (in.)         Material Bentonite (lbs.)         Water (gal.)           Grout         0         40         4         0         30         376         29           Sand/Gravel         -         -         -         -         -         -         -						DATE WELL			
Cother Use(s):         Local ID: CAN - 19           Reason for Decommissioning:         Site Excavated/Demolished           Finished Well Depth (ft.):         40         Was a New Well Drilled?         N           Formation Type:         Unconsolidated         New Well Permit Number:           WELL DECOMMISSIONING INFORMATION           Depth to Top (ft.)         Depth to Bottom (ft.)         Diameter (inches)         Material         Wgt/Rating/Screen # Used (lbs/ch no.)           Borehole         0         40         8         PVC         Sch 40           Screen         10         40         4         PVC         Sch 40           Screen         10         40         4         PVC         Sch 40           MATERIALS USED           MATERIALS USED           Depth to Top (ft.)         Depth to Depth to Double to Diameter (in.)         Diameter (in.)         Bentonite (lbs.)         Neat Cement (lbs.)         Water (gal.)           Grout         0         40         4         0         30         376         29           Sand/Gravel	WELL USE:	RECOVER	Y				· · · · <u> </u>		
Reason for Decommissioning:   Site Excavated/Demolished						Local ID: CA	N - 19		
New Well Permit Number:   Unconsolidated   New Well Permit Number:									
WELL DECOMMISSIONING INFORMATION           Depth to Top (ft.)         Depth to Bottom (ft.)         Diameter (inches)         Material (lbs/ch no.)         Wgt/Rating/Screen # Used (lbs/ch no.)           Borehole         0         40         8	Finished Well	Depth (ft.):	40		V	as a New Well Dril	led? N		
Depth to Top (ft.)   Depth to Bottom (ft.)   Diameter (inches)   Material   Wgt/Rating/Screen # Used (lbs/ch no.)	Formation Ty	pe: Unconso	lidated		Ne	ew Well Permit Nur	mber:		
Depth to Top (ft.)   Depth to Bottom (ft.)   Diameter (inches)   Material   Wgt/Rating/Screen # Used (lbs/ch no.)									
Borehole			1			Material		Wgt/Rating/Screen # Used	
Casing         0         10         4         PVC         Sch 40           Screen         10         40         4         PVC           MATERIALS USED           Depth to Top (ft.)         Depth to Bottom (ft.)         Outer Diameter (in.)         Inner Diameter (in.)         Material Bentonite (lbs.)         Neat Cement (lbs.)         Water (gal.)           Grout         0         40         4         0         30         376         29           Sand/Gravel         -         -         -         -         -         -         -	D 1.1	1 \ /	` /				(lbs/	(lbs/ch no.)	
Screen         10         40         4         PVC           MATERIALS USED           Depth to Top (ft.)         Depth to Bottom (ft.)         Outer Diameter (in.)         Inner Diameter (in.)         Material Bentonite (lbs.)         Water (gal.)           Grout         0         40         4         0         30         376         29           Sand/Gravel         - <t< td=""><td></td><td></td><td></td><td></td><td></td><td colspan="3"></td></t<>									
MATERIALS USED           Depth to Top (ft.)         Depth to Bottom (ft.)         Outer Diameter (in.)         Inner Diameter (in.)         Material Bentonite (lbs.)         Water (gal.)           Grout         0         40         4         0         30         376         29           Sand/Gravel         -			-				Sc	Scn 40	
Depth to Top (ft.) Bottom (ft.) Diameter (in.) Diameter (in) Bentonite (lbs.) Neat Cement (lbs.) Water (gal.)  Grout 0 40 4 0 30 376 29  Sand/Gravel	ļ		40	4		PVC			
Top (ft.) Bottom (ft.) Diameter (in.) Diameter (in) Bentonite (lbs.) Neat Cement (lbs.) Water (gal.)  Grout 0 40 4 0 30 376 29  Sand/Gravel									
Grout         0         40         4         0         30         376         29           Sand/Gravel								Water (col.)	
Sand/Gravel Sand/Gravel	Grout	1 \ /	` ′	` /	` /	\ /	` /	· · · ·	
	+	<u> </u>	40	7	Ü	30	370	2)	
ADDITIONAL INFORMATION	ADDITIONA	AL INFORMA	ATION		<u></u>				
Obstructions: No Authorization Official:									
Obstruction Type: Authorization Number:									
Alternative Decomm. Method? No Authorization Date:									
Method Used									
ATTACHMENTS:									

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201201547** 

### **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, JOURNEY	MAN LICENSE # 0021243							
Permit Issued to: SGS NORTH AMERICA INC.	: SGS NORTH AMERICA INC.							
Company Address: PO BOX 423 WEST CREEK, NJ 0	ress: PO BOX 423 WEST CREEK, NJ 08092							
PROPERTY OWNER	,							
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Organization: jersey City Redevelopment Agency								
Address: 30 Montgomery St., Suite 900	71. G. 1. 07000							
City: Jersey City State: New Jerse	Zip Code: <u>07302</u>							
PROPOSED WELL LOCATION  Facility Name: Site 114  Address: 880 Garfield Ave Address & Lot verified by tax map	Wes Fi							
County: Hudson Municipality: Jersey City								
Easting (X): 611159 Northing (Y): 683488  Coordinate System: NJ State Plane (NAD83) - USFEET	Easting (X): 611159 Northing (Y): 683488 Local ID: CAN - 20							
SITE CHARACTERISTICS								
PROPOSED CONSTRUCTION								
WELL USE: RECOVERY	Other Use(s):							
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation							
Depth (ft.): 40	Case ID Number:							
Pump Capacity (gpm): 1								
Drilling Method: Hollow Stem Augers								
Attachments:								
SPECIFIC CONDITIONS/REQUIREMENTS								

Approved by the authority of:

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201201547

#### 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. [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. 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]

Well Permit Number **E201201547** 

## **MONITORING WELL RECORD**

PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY						
Company/Org	ganization: <u>je</u>	rsey City Rede	velopment Agei	ncy			
Address: 30	Montgomery	St., Suite 900.	Jersey City, Nev	v Jersey 07302			
WELL LOC	ATION: Sit	e 114					
Address: 88	30 Garfield Av	e Address & Lo	ot verified by ta	x map Wes Ei			
County: Huc	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 4A	Block: 20	26.1
Easting (X):	611159	Northing	(Y): 683488		DATE WELL ST	ARTED: January 19,	2012
_ <del>-</del>			NAD83) - USFI			PLETED: January 19,	
WELL USE:	RECOVER'	Y					
Other Use(s)	<b>:</b>				Local ID: CA	N - 20	
WELL CON	STRUCTION	Ī					
Total Depth	Drilled (ft.):	40	Finished We	ell Depth (ft.):	40	Well Surface: Flush	n Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	40	11				
Casing	0	10	4		PVC	S	ch 40
Screen	10	40	4		pvc		.010
[	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	, ,	\ /	Neat Cement (lbs.)	Water (gal.)
Grout Deals	<u>0</u> 8	8 40	11 11	4	22	#0 #0	34
Gravel Pack		ı			llina Mathada II all		
Grouting Method: Pressure method (Tremie Pipe)  ADDITIONAL INFORMATION  Protective Casing: Yes Pump Capacity: _gpm Static Water Level: 3 ft. below land surface Total Design Head: _ft.  Water Level Measure Tool: m scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: cme 1050 Method of Development: pump Health and Safety Plan Submitted? Yes Pump Type:							
ATTACHMI							
GEOLOGIC 0 - 8: black O							
	OT - Other fill						
		uck, and other	highly organic s	soils			
17 - 35: red G	M - Silty grav	els, gravel-san	d-silt mixtures				
35 - 40: red G	iM - Silty grav	els, gravel-san	d-silt mixtures				
ADDITIONA	ADDITIONAL INFORMATION:						
Jeff Rausa,							
	Jett Ra	usa,					

Driller of Record: JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

Well Permit Number E201201547

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Org	Company/Organization: Jersey City Redelopment Agency							
Address: 30	Address: 30 Mongomery St, Suite 900 Jersey City, New Jersey 07302							
	ATION: Sit							
Address: 88	30 Garfield Av	e Address & L	ot verified by ta	x map Wes Ei				
County: Hudson Municipality: Jersey City Lot: 4A Block: 2026.1								
Easting (X):	611159		(Y): <u>683488</u>					
			NAD83) - USFI			TE WELL SIONED: February 15	5 2013	
	RECOVER'		,		DECOMMIS	STONED. 1 columny 1:	9, 2013	
					Local ID: CA	N - 20		
			vated/Demolishe		Eccar ID:	20		
			, aca Bellionoli		as a New Well Dri	lled? N		
Finished Well Depth (ft.): 40 Was a New Well Drilled? N  Formation Type: Unconsolidated New Well Permit Number:								
				IN 6	ew well Permit Nul	nber:		
WELL DEC		ING INFORM			V. F. J. 1	W /D /	/C // 1	
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material Wgt/Rating/Screen # Used (lbs/ch no.)				
Borehole	0	40	8			(10)	St C11 110.)	
Casing	0	10	4		PVC	S	ch 40	
Screen	10	40	4		pvc		.010	
MATERIAL	S USED							
	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` /	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	40	4	0	25	400	30	
Sand/Gravel								
ADDITIONA	AL INFORMA	ATION						
Obstructions:	No			1	Authorization Office	eial:		
Obstruction Type: Authorization Number:								
Alternative Decomm. Method? No Authorization Date:								
Method Used								
ATTACHME	NTS:							
ATTACHMENTS:								

Thomas L Hanley SGS NORTH AMERICA INC. **JOURNEYMAN** PO BOX 423 Sealing Driller: LICENSE # 0001181

Well Permit Number **E201201548** 

### **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, JOURNEY	MAN LICENSE # 0021243							
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: 30 Montgomery St., Suite 900								
City: Jersey City State: New Jerse	zip Code: <u>07302</u>							
PROPOSED WELL LOCATION								
Facility Name: Site 114								
Address: 880 Garfield Ave Address & Lot verified by tax map	Wes Ei							
County: Hudson Municipality: Jersey City	Lot: 4A Block: 2026.1							
Easting (X): 611212 Northing (Y): 683462 Local ID: CAN - 21  Coordinate System: NJ State Plane (NAD83) - USFEET								
SITE CHARACTERISTICS								
PROPOSED CONSTRUCTION								
WELL USE: RECOVERY	Other Use(s):							
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation							
Depth (ft.): _40	Case ID Number:							
Pump Capacity (gpm): 1 Deviation Requested: N								
Drilling Method: Hollow Stem Augers								
Attachments:								
SPECIFIC CONDITIONS/REQUIREMENTS								

Approved by the authority of:

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201201548

#### 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. [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. 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]

Well Permit Number **E201201548** 

## MONITORING WELL RECORD

PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Company/Org	ganization: <u>je</u>	rsey City Rede	velopment Agei	ncy				
Address: 30	) Montgomery	St., Suite 900.	Jersey City, Nev	w Jersey 07302				
WELL LOC	ATION: Site	e 114		•				
Address: 88	30 Garfield Av	e Address & L	ot verified by ta	x map Wes Ei				
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 4A	Block: 20	26.1	
Easting (X):	611212	Northing	(Y): 683462		DATE WELL ST	ARTED: January 18,	2012	
1			NAD83) - USFI	<u>.</u>		PLETED: January 18,		
WELL USE:	RECOVER	Y						
Other Use(s)	:				Local ID: CA	N - 21		
WELL CON	STRUCTION	1						
Total Depth	Drilled (ft.):	15	Finished We	ell Depth (ft.):	15	Well Surface: Flush	n Mount	
	Depth to	Depth to	Diameter		Material		g/Screen # Used	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(1DS	s/ch no.)	
Casing	0	5	4		PVC	S	ch 40	
Screen	5	15	4		pvc		.010	
	Depth to Depth to Outer Inner Material							
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	3	11	4	8	151	13	
Gravel Pack	3	15	11	4		#0		
Grouting Met	hod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: Holl	ow Stem Augers		
<b>ADDITION</b>	AL INFORMA	ATION						
Protective Ca		1 1 1 6			np Capacity: _ gpm			
	Level: <u>3</u> ft. be Measure Tool:	elow land surfa	ce		tal Design Head: _ ft lling Fluid:			
	ment Period: _				11 Rig: cme 1050			
	evelopment: <u>ce</u>	ntrifical pump		Hea	alth and Safety Plan	Submitted? Yes		
Pump Type:								
<b>ATTACHM</b>	ENTS:							
GEOLOGIC								
		ls, gravel-sand						
			d-silt mixtures					
			nic silty clays of					
12 - 14: black OL - Organic silts and organic silty clays of low plasticity								
14 - 15: brown PT - Peat, muck, and other highly organic soils								
ADDITIONA	AL INFORMA	ATION:					_	
							_	
	Jeff Ra	iusa,						

Driller of Record: JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

Well Permit Number **E201201548** 

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY									
Company/Org	Company/Organization: Jersey City Redevelopment Agency								
Address: 30	Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302								
·			<u> </u>	j					
	ATION: Sit								
Address: 88	30 Garfield Av	e Address & L	ot verified by tax	x map Wes Ei					
County: Hudson Municipality: Jersey City Lot: 4A Block: 2026.1									
Easting (X):	Easting (X): 611212 Northing (Y): 683462								
·-			NAD83) - USFI			<b>E WELL</b> <b>SIONED:</b> February 15.	. 2013		
WELL USE:	RECOVER	Y					,		
					Local ID: CA	N - 21			
			vated/Demolishe						
Finished Wel	l Depth (ft.):	15		W	/as a New Well Dril	led? N			
Formation Ty	pe: Unconso	lidated				mber:			
WELL DEC	OMMISSION	ING INFORM	MATION						
	Depth to	Depth to	Diameter		Material		Wgt/Rating/Screen # Used		
D 1.1	Top (ft.)	Bottom (ft.)	(inches)			(lbs/	/ch no.)		
Borehole	0	5	4		DVC		1. 40		
Casing	5	5	4		PVC PVC		<u>eh 40</u> 010		
Screen		13	4		PVC		010		
MATERIAL		Dandle 4a	Onton	T		Matarial			
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in )	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)		
Grout	0	15	4	0	15	188	12		
Sand/Gravel									
ADDITIONA	AL INFORM	ATION							
Obstructions:	No				Authorization Offic	ial:			
Obstruction Type: Authorization Number:									
Alternative Decomm. Method? No Authorization Date:									
Method Used									
ATTACHMENTS:									

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201200559** 

### **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, JOURNEY	MAN LICENSE # 0021243						
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: 30Montgomery Street, Suite 900							
City: Jersey City State: New Jerse	zip Code: <u>07302</u>						
PROPOSED WELL LOCATION							
Facility Name: Site 114							
Address: 880 Garfield Ave							
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1						
Easting (X): 611132 Northing (Y): 683435  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: CAN - 22						
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
WELL USE: RECOVERY	Other Use(s):						
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
Depth (ft.): _40	Case ID Number:						
Pump Capacity (gpm): 1	Deviation Requested: N						
Drilling Method: Hollow Stem Augers							
Attachments:							
SPECIFIC CONDITIONS/REQUIREMENTS							

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201200559

### **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. [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. 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]

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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]

Well Permit Number Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831 E201200559

## MONITORING WELL RECORD

Company/Organization: Jersey City Redevelopment Agency  Address: 30Montgomery Street, Suite 900 Jersey City, New Jersey 07302  WELL LOCATION: Site 114  Address: 880 Garfield Ave  County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1  Easting (X): 611132 Northing (Y): 683435 DATE WELL STARTED: January 20, 2012  Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: January 20, 2012  WELL USE: RECOVERY  Other Use(s): Local ID: CAN - 22						
WELL LOCATION: Site 114  Address: 880 Garfield Ave  County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1  Easting (X): 611132 Northing (Y): 683435 DATE WELL STARTED: January 20, 2012  Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: January 20, 2012  WELL USE: RECOVERY						
Address: 880 Garfield Ave  County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1  Easting (X): 611132 Northing (Y): 683435 DATE WELL STARTED: January 20, 2012  Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: January 20, 2012  WELL USE: RECOVERY						
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1  Easting (X): 611132 Northing (Y): 683435 DATE WELL STARTED: January 20, 2012  Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: January 20, 2012  WELL USE: RECOVERY						
Easting (X): 611132 Northing (Y): 683435 DATE WELL STARTED: January 20, 2012  Coordinate System: NJ State Plane (NAD83) - USFEET  WELL USE: RECOVERY  DATE WELL COMPLETED: January 20, 2012						
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: January 20, 2012  WELL USE: RECOVERY						
WELL USE: RECOVERY						
Other Use(s): Local ID: CAN - 22						
Other Oscies.						
WELL CONSTRUCTION						
Total Depth Drilled (ft.): 20 Finished Well Depth (ft.): 20 Well Surface: Flush Mount						
Depth toDepth toDiameterMaterialWgt/Rating/Screen # UsedTop (ft.)Bottom (ft.)(inches)(lbs/ch no.)						
Borehole 0 20 11 (						
Casing         0         5         4         PVC         sch 40						
Screen 5 20 4 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 3 11 4 8 151 13						
Grout         0         3         11         4         8         151         13           Gravel Pack         3         15         11         4         #0						
Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers						
ADDITIONAL INFORMATION						
Protective Casing: Yes Static Water Level: 3 ft. below land surface Pump Capacity: _ gpm Total Design Head: _ ft.						
Water Level Measure Tool: m scope  Drilling Fluid:						
Well Development Period: 1 hrs. Drill Rig: cme 1050						
Method of Development: <u>centrifical pump</u> Health and Safety Plan Submitted? <u>Yes</u> Pump Type:						
ATTACHMENTS:						
GEOLOGIC LOG						
0 - 5: grey GM - Silty gravels, gravel-sand-silt mixtures						
5 - 10: grey GM - Silty gravels, gravel-sand-silt mixtures						
10 - 15: black OL - Organic silts and organic silty clays of low plasticity						
15 - 19: black OL - Organic silts and organic silty clays of low plasticity						
19 - 20: brown PT - Peat, muck, and other highly organic soils						
ADDITIONAL INFORMATION:						

Company: SGS NORTH AMERICA INC.

Jeff Rausa,

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number **E201200559** 

## WELL DECOMMISSIONING REPORT

PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Org	ganization: Je	ersey City Rede	evelopment Age	ncy					
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	lew Jersey 0730	)2				
WELLLOC	ATION. C:4	a 114	•	•					
	ATION: Sit								
	Address: 880 Garfield Ave								
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1									
Easting (X):	611132	Northing	(Y): 683435		ВАТ	E WELL			
Coordi	nate System: N	IJ State Plane (	NAD83) - USFI	EET		SIONED: February 1:	5, 2013		
WELL USE:	: RECOVER	Y							
Other Use(s)	:				Local ID: CA	N - 22			
			vated/Demolishe						
Finished Wel	l Depth (ft.):	20		V	Vas a New Well Dril	led? N			
Formation Type: Unconsolidated New Well Permit Number:									
WELL DEC	OMMISSION	ING INFORM	MATION						
	Depth to	Depth to	Diameter		Material		g/Screen # Used		
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)		
Casing	0	5	4		PVC	S	ch 40		
Screen	5	20	4		PVC		.010		
MATERIAL	S USED	<u> </u>				·			
	Depth to	Depth to	Outer	Inner		Material			
Const	Top (ft.)	Bottom (ft.)	Diameter (in.)	`	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)		
Grout Sand/Gravel	U	20	4	0	25	282	18		
	AL INFORMA	ATION							
Obstructions:	No				Authorization Offic	ial:			
Obstruction T									
Obstruction Type: Authorization Number: Authorization Date:									
Method Used									
ATTACHMENTS:									

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201200560** 

### **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, JOURNEYMAN LICENSE # 0021243									
Permit Issued to: SGS NORTH AMERICA INC.									
Company Address: PO BOX 423 WEST CREEK, NJ 08092									
PROPERTY OWNER									
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	,								
Organization: Jersey City Redevelopment Agency									
Address: 30Montgomery Street, Suite 900									
City: Jersey City State: New Jerse	ey Zip Code: <u>07302</u>								
PROPOSED WELL LOCATION									
Facility Name: Site 114									
Address: 880 Garfield Ave									
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1								
Easting (X): 611183 Northing (Y): 683381  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: CAN - 23								
SITE CHARACTERISTICS									
PROPOSED CONSTRUCTION									
WELL USE: RECOVERY	Other Use(s):								
Diameter (in.): _4	Regulatory Program Requiring Wells/Borings: Owner Investigation								
Depth (ft.): _40	Case ID Number:								
Pump Capacity (gpm): 1	Deviation Requested: N								
Drilling Method: Hollow Stem Augers									
Attachments:									
SPECIFIC CONDITIONS/REQUIREMENTS									

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201200560

#### 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]

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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]

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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]

Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

## Well Permit Number E201200560

## **MONITORING WELL RECORD**

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Organization: Jersey City Redevelopment Agency								
Address: 30	Address: 30Montgomery Street, Suite 900 Jersey City, New Jersey 07302							
WELL LOC	ATION: Sit	e 114						
Address: 88	Address: 880 Garfield Ave							
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 2.A	Block: 20	26.1	
Easting (X): 611183 Northing (Y): 683381 <b>DATE WELL STARTED:</b> January 30, 2012								
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: January 30, 2012								
WELL USE:	RECOVER	Y						
Other Use(s)	:				Local ID: CA	N - 23		
WELL CON	STRUCTION	1						
Total Depth	Drilled (ft.):_	15	Finished We	ell Depth (ft.):	15	Well Surface: Flush	1 Mount	
	Depth to	Depth to	Diameter		Material		z/Screen # Used	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)	
Casing	0	5	4		PVC	S	ch 40	
Screen 5 15 4 pvc .010								
Depth to Depth to Outer Inner Material								
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	3	11	4	8	151	13	
Gravel Pack	3	15	11	4		#0		
_		e method (Trei	mie Pipe)	Dri	lling Method: Holl	low Stem Augers		
ADDITIONA Protective Ca	AL INFORM	<u>ATION</u>		Desc	Cit			
		elow land surfa	ce		np Capacity: _ gpm al Design Head: _ ft			
Water Level I	Measure Tool:	m scope		Dri	lling Fluid:			
	ment Period:				ll Rig: cme 1050	C-1:44- 49 W		
Pump Type:	evelopment: <u>sy</u>	trifical pump		Не	alth and Safety Plan	Submitted? Yes		
ATTACHMI	ENTS:							
GEOLOGIC	LOG							
		ls, gravel-sand	-silt mixtures					
5 - 8: grey GN	M - Silty grave	ls, gravel-sand	-silt mixtures					
			d-silt mixtures					
		nds, sand-silt n						
14 - 15: black	OL - Organic	silts and organ	nic silty clays of	low plasticity				
ADDITION	AL INFORMA	ATION:						
	Jeff Ra	iusa,						

Driller of Record: JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

Well Permit Number
E201200560

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY									
Company/Organization: _ Jersey City Redevelopment Agency									
Address: 30	Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2				
				,					
WELL LOCATION: Site 114									
Address: 88	Address: 880 Garfield Ave								
County: Hue	dson	_ Municipality	y: Jersey City		Lot: 2.A	Block: 202	26.1		
Easting (X): 611183 Northing (Y): 683381									
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL  DECOMMISSIONED: February 15, 2013									
WELL USE:	RECOVER	Y				<u> </u>	,		
					Local ID: CA	N - 23			
			vated/Demolish						
Finished Well	l Depth (ft.):	15		V	Vas a New Well Dril	lled? N			
Formation Type: Unconsolidated New Well Permit Number:									
WELL DEC	OMMISSION	ING INFORM	MATION						
	Depth to	Depth to	Diameter		Material		/Screen # Used		
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)		
Casing	0	15 5	11 4		PVC	S.	ch 40		
Screen	5	15	4		PVC		.010		
		13	'		1 1 0		.010		
MATERIAL	Depth to	Depth to	Outer	Inner		Material			
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)		
Grout	0	15	4	0	14	188	12		
Sand/Gravel									
ADDITIONA	AL INFORMA	ATION							
Obstructions:	No				Authorization Offic	ial:			
					Authorization Numl	oer:			
Alternative D	ecomm. Metho	od? No			Authorization D	ate:			
Method Used									
ATTACHME	NTS:								

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201200561** 

### **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, JOURNEY	YMAN LICENSE # 0021243								
Permit Issued to: SGS NORTH AMERICA INC.	o: SGS NORTH AMERICA INC.								
Company Address: PO BOX 423 WEST CREEK, NJ (	ress: PO BOX 423 WEST CREEK, NJ 08092								
PROPERTY OWNER									
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY									
Organization: Jersey City Redevelopment Agency									
Address: 30Montgomery Street, Suite 900									
City: Jersey City State: New Jerse	zip Code: <u>07302</u>								
PROPOSED WELL LOCATION									
Facility Name: Site 114									
Address: 880 Garfield Ave									
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1								
Easting (X): 611105 Northing (Y): 683381  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: CAN - 24								
SITE CHARACTERISTICS									
PROPOSED CONSTRUCTION									
PROPOSED CONSTRUCTION WELL USE: RECOVERY	Other Use(s):								
WELL USE: RECOVERY	Regulatory Program								
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation								
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:								
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation								
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:								
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:								
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:								
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:								
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:								

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200561

#### 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. [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. 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]

Well Permit Number **E201200561** 

## MONITORING WELL RECORD

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY									
Company/Org	Company/Organization: Jersey City Redevelopment Agency								
Address: 30	Montgomery S	Street, Suite 90	00 Jersey City, N	New Jersey 073	02				
WELL LOCATION: Site 114									
Address: 880 Garfield Ave									
County: Hu	County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1								
Easting (X): 611105 Northing (Y): 683381 <b>DATE WELL STARTED:</b> January 23, 2012									
Coordii	Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: January 23, 2012								
WELL USE:	RECOVER	Y							
Other Use(s)	:				Local ID: CA	aN - 24			
WELL CON	STRUCTION	I							
Total Depth	Drilled (ft.):	16	Finished We	ell Depth (ft.):	16	Well Surface: Flus	h Mount		
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)		
Borehole	0	16	11				····		
Casing	0	6	4		PVC	S	sch 40		
Screen	reen 6 16 4 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	4	11	4 4	11	201	17		
Gravel Pack	4	16	11			#0			
ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De	Grouting Method: Pressure method (Tremie Pipe)  ADDITIONAL INFORMATION  Protective Casing: Yes Static Water Level: 3 ft. below land surface Water Level Measure Tool: m scope Well Development Period: 1 hrs. Method of Development: centrifical pump Drilling Method: Hollow Stem Augers  Pump Capacity: _gpm Total Design Head: _ft.  Drilling Fluid: Drilling Fluid: Drilling Fluid: Pump Type:								
GEOLOGIC	LOG								
		ls, gravel-sand		_					
		ls, gravel-sand							
			c silty clays of l						
	_	_	nic silty clays of highly organic s						
			inginy organic s	50113					
ADDITIONA	AL INFORMA	ATION:							
	Jeff Ra	usa,							

Driller of Record: JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

Well Permit Number E201200561

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Organization: Jersey City Redevelopment Agency								
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	lew Jersey 0730	)2			
WELLLOC	ATION. C:4	a 114	•	•				
	ATION: Sit							
	30 Garfield Av							
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 2.A	Block: 20	26.1	
Easting (X): 611105 Northing (Y): 683381 DATE WELL								
Coordinate System: NJ State Plane (NAD83) - USFEET  DECOMMISSIONED: February 15, 2013								
WELL USE:	RECOVER	Y						
Other Use(s)	:				Local ID: CA	N - 24		
Reason for D	ecommissionir	ng: Site Exca	vated/Demolishe	ed				
Finished Wel	l Depth (ft.):	16		V	/as a New Well Dril	led? N		
Formation Type: Unconsolidated New Well Permit Number:								
WELL DEC	OMMISSION	ING INFOR	MATION					
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material			Wgt/Rating/Screen # Used (lbs/ch no.)	
Borehole	0	16	11			(10)	8/011 110.)	
Casing	0	6	4		PVC	S	Sch 40	
Screen	6	16	4		PVC		.010	
MATERIAL	S USED							
	Depth to	Depth to	Outer	Inner		Material		
Crout	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Sand/Gravel	U	16	4	0	14	188	12	
	AL INFORMA	ATION						
Obstructions:					Authorization Offic	ial:		
Obstruction T								
	ecomm. Metho	. 10 N.		_				
Method Used								
ATTACHME	ENTS:							

Thomas L Hanley SGS NORTH AMERICA INC. **JOURNEYMAN** PO BOX 423 Sealing Driller: LICENSE # 0001181

Well Permit Number **E201200562** 

### **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, JOURNEY	MAN LICENSE # 0021243
Permit Issued to: SGS NORTH AMERICA INC.	
Company Address: PO BOX 423 WEST CREEK, NJ (	8092
PROPERTY OWNER	
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	
Organization: Jersey City Redevelopment Agency	
Address: 30Montgomery Street, Suite 900	
City: Jersey City State: New Jerse	zip Code: <u>07302</u>
PROPOSED WELL LOCATION	
Facility Name: Site 114	
Address: 880 Garfield Ave	
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1
Easting (X): 611155 Northing (Y): 683356  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: CAN - 25
SITE CHARACTERISTICS	
SITE CHARACTERISTICS	
PROPOSED CONSTRUCTION	
	Other Use(s):
PROPOSED CONSTRUCTION  WELL USE: RECOVERY	Regulatory Program
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:

Approved by the authority of:

Approval Date: January 17, 2012

**Expiration Date:** January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200562

#### 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. [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. 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]

Well Permit Number **E201200562** 

## MONITORING WELL RECORD

	MONITORING WEEL RECORD							
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT AC	BENCY			
Company/Organization: Jersey City Redevelopment Agency								
Address: 30Montgomery Street, Suite 900 Jersey City, New Jersey 07302								
WELL LOC	ATION: Sit	e 114						
Address: 88	30 Garfield Av	e						
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1								
Easting (X):	611155	Northing	(Y): <u>683356</u>		DATE WELL ST	ARTED: Janua	ary 23,	, 2012
			NAD83) - USFI		ATE WELL COMI	PLETED: Janua	ary 23,	, 2012
WELL USE:	: RECOVER	Y					•	
Other Use(s)					Local ID: CA	N - 25		
WELL CON	STRUCTION	1						
Total Depth	Drilled (ft.):	18	Finished We	ll Depth (ft.):	18	Well Surface:	Flus	h Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material	Wgt		g/Screen # Used s/ch no.)
Borehole	0	18	10				(10)	5/ CH 110.)
Casing	0	8	4		PVC		S	Sch.40
Screen	reen 8 18 4 PVC .020							.020
	Depth to	Depth to	Outer	Inner		Materia		
Consul	Top (ft.)	Bottom (ft.)	Diameter (in.)	` '	Bentonite (lbs.)	Neat Cement (	lbs.)	Water (gal.) 7
Grout Gravel Pack		18	10	4	13	# 0 San	 d	/
	thod: Gravity		<u> </u>	Dri	illing Method: Holl			
ADDITIONA Protective Ca Static Water I Water Level I Well Develop	AL INFORMA sing: No Level: 6 ft. be Measure Tool: oment Period:	ATION  clow land surfa  M-Scope		To Dri Dri	mp Capacity: _ gpm tal Design Head: _ ft illing Fluid: ill Rig: <u>Mobile B-59</u> alth and Safety Plan			
ATTACHM								
O = 6: redish B		her fill,cooper,	Concrete					
			ellow green past	ey material				
			er highly organi	•				
ADDITION	AL INFORMA	ATION:						
William G Petley,								

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0013761

Well Permit Number
E201200562

## WELL DECOMMISSIONING REPORT

PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Company/Org	ganization: Je	ersey City Rede	evelopment Age	ncy				
Address: 30	Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302							
WELL LOC	ATION: Sit	e 114						
Address: 88	30 Garfield Av	e						
County: Hue	dson	Municipality	y: Jersey City		Lot: 2.A	Block: 2020	6.1	
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1  Easting (X): 611155 Northing (Y): 683356 Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL DECOMMISSIONED: March 15, 2013								
WELL USE:	RECOVER	Y						
Other Use(s)	<b>:</b>				Local ID: CA	N - 25		
Reason for De	ecommissionir	ng: Site Excar	vated/Demolishe	ed				
Finished Well Depth (ft.): 18 Was a New Well Drilled? N								
Formation Type: Unconsolidated New Well Permit Number:								
WELL DEC		NING INFORM	MATION					
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		Screen # Used ch no.)	
Borehole	0	18	10				,	
Casing	0	8	4	PVC sch 40			n 40	
Screen	8	18	4	PVC .020			)20	
MATERIAL	S USED							
	Depth to	Depth to	Outer	Inner		Material		
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Sand/Gravel	U	18	4	U	10	188	12	
· ·	AL INFORMA	ATION		l				
Obstructions:	No			1	Authorization Offic	eial:		
Obstruction T	ype:				Authorization Numl	ber:		
Alternative Decomm. Method? No Authorization Date:								
Method Used								
ATTACHMENTS:								

Thomas L Hanley
JOURNEYMAN
Sealing Driller: LICENSE # 0001181

SGS NORTH AMERICA INC.
PO BOX 423
West Creek (Ocean), NJ 08092

Well Permit Number **E201200563** 

### **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, JOURNEY	MAN LICENSE # 0021243							
Permit Issued to: SGS NORTH AMERICA INC.	Permit Issued to: SGS NORTH AMERICA INC.							
Company Address: PO BOX 423 WEST CREEK, NJ 0	Company Address: PO BOX 423 WEST CREEK, NJ 08092							
PROPERTY OWNER								
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Organization: Jersey City Redevelopment Agency								
Address: 30Montgomery Street, Suite 900								
City: Jersey City State: New Jerse	zip Code: <u>07302</u>							
PROPOSED WELL LOCATION								
Facility Name: Site 114								
Address: 880 Garfield Ave								
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1							
Easting (X): 611078 Northing (Y): 683328 Local ID: CAN - 26  Coordinate System: NJ State Plane (NAD83) - USFEET								
SITE CHARACTERISTICS								
PROPOSED CONSTRUCTION								
WELL USE: RECOVERY	Other Use(s):							
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation							
Depth (ft.): _40	Case ID Number:							
Pump Capacity (gpm): 1	Deviation Requested: N							
Drilling Method: Hollow Stem Augers								
Attachments:								
SPECIFIC CONDITIONS/REQUIREMENTS								

Approved by the authority of:

Approval Date: January 17, 2012

**Expiration Date:** January 16, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201200563

#### 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. [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. 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]

Well Permit Number **E201200563** 

### **MONITORING WELL RECORD**

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Company/Org	ganization: <u>Je</u>	ersey City Rede	velopment Age	ncy			
Address: 30	Montgomery	Street, Suite 90	0 Jersey City, N	New Jersey 073	02		
	ATION: Sit						
Address: 880 Garfield Ave							
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1							
Easting (X): 611078 Northing (Y): 683328 <b>DATE WELL STARTED:</b> January 24, 2012							
Coordi	nate System: N	IJ State Plane (	NAD83) - USFI	EET <b>D</b>	ATE WELL COM	PLETED: January 24,	2012
WELL USE:	RECOVER	Y					
					Local ID: CA	AN - 26	
WELL CON	STRUCTION	J					
	Drilled (ft.):		Finished We	ell Depth (ft.):_	20	Well Surface: Flush	Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		/Screen # Used /ch no.)
Borehole	0	20	11				
Casing	0	5	4		PVC		ch 40
Screen         5         20         4         pvc         .010						010	
	Depth to	Depth to	Outer	Inner	D : : (11 )	Material	W ( 1)
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Gravel Pack	3	20	11	4	0	#0	13
Grouting Met	thod: Pressur	e method (Trer	nie Pipe)	Dr	illing Method: Hol	low Stem Augers	
Grouting Method: Pressure method (Tremie Pipe)  ADDITIONAL INFORMATION  Protective Casing: Yes Pump Capacity: _gpm Static Water Level: 3_ft. below land surface Total Design Head: _ft.  Water Level Measure Tool: m scope Drilling Fluid: Well Development Period: 1_ hrs. Drill Rig: cme 1050  Method of Development: sytrifical pump Health and Safety Plan Submitted? Yes  Pump Type:							
ATTACHM	ENTS:						
GEOLOGIC							
		ls, gravel-sand					
	6 - 8: black OL - Organic silts and organic silty clays of low plasticity						
8 - 12: red GM - Silty gravels, gravel-sand-silt mixtures							
12 - 19: red GW - Well-graded gravels and gravel-sand mixtures, little or no fines							
19 - 20: red SW - Well-graded sands and gravelly sands, little or no fines							
ADDITIONAL INFORMATION:							

Company: SGS NORTH AMERICA INC.

Jeff Rausa,

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number
E201200563

## WELL DECOMMISSIONING REPORT

PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Company/Org	Company/Organization: Jersey City Redevelopment Agency							
Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302								
WELL LOC	ATION: Sit	e 114						
Address: 88	30 Garfield Av							
County: Hudson Municipality: Jersey City Lot: 2.A Blo						Block: 2020	6.1	
Easting (X): 611078 Northing (Y): 683328 DATE WELL Coordinate System: NJ State Plane (NAD83) - USFEET DECOMMISSIONED: March 15, 2013								
WELL USE:	RECOVER	Y						
Other Use(s)	•				Local ID: CA	N - 26		
Reason for De	ecommissionir	ng: Site Excar	vated/Demolish	ed				
Finished Well	Depth (ft.):	20		W	as a New Well Dri	lled? N		
Formation Type: Unconsolidated New Well Permit Number:								
WELL DEC	OMMISSION	ING INFORM	MATION					
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		Screen # Used ch no.)	
Borehole	0	20	11					
Casing	0	5	4	PVC Sch 40				
Screen	5	20	4	PVC .010				
MATERIAL		T = .						
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)	
Grout	0	20	4	0	10	203	13	
Sand/Gravel								
ADDITIONA	AL INFORMA	ATION						
Obstructions:	No			1	Authorization Offic	eial:		
	`ype:					ber:		
Alternative Decomm. Method? No Authorization Date:								
Method Used								
ATTACHMENTS:								

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201200564** 

### **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, JOURNEY	rtifying Driller: WESLEY M EICHFELD, JOURNEYMAN LICENSE # 0021243								
Permit Issued to: SGS NORTH AMERICA INC.	to: SGS NORTH AMERICA INC.								
Company Address: PO BOX 423 WEST CREEK, NJ 08092									
PROPERTY OWNER									
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY									
Organization:									
Address: 30Montgomery Street, Suite 900									
City: Jersey City State: New Jerse	zip Code: <u>07302</u>								
PROPOSED WELL LOCATION Facility Name: Site 114									
Address: 880 Garfield Ave	T + 2 A DI 1 2026 1								
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1								
Easting (X): 611126 Northing (Y): 683303	Local ID: CAN - 27								
Coordinate System: NJ State Plane (NAD83) - USFEET									
SITE CHARACTERISTICS									
PROPOSED CONSTRUCTION									
	Other Hardel								
WELL USE: RECOVERY	Other Use(s):  Regulatory Program								
Diameter (in.): 4	Requiring Wells/Borings: Owner Investigation								
Depth (ft.): 40	Case ID Number:								
Pump Capacity (gpm): 1	Deviation Requested: N								
Drilling Method: Hollow Stem Augers									
Attachments:									
SPECIFIC CONDITIONS/REQUIREMENTS									

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Jerry D. P. lawski
Terry Pilawski, Chief

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

Well Permit Number E201200564

#### 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. [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. 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]

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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]

Well Permit Number **E201200564** 

## MONITORING WELL RECORD

			MONTI	JKING WEI	LL RECORD		
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT AG	ENCY		
Company/Organization: _Jersey City Redevelopment Agency							
Address: 30Montgomery Street, Suite 900 Jersey City, New Jersey 07302							
WELL LOC	WELL LOCATION: Site 114						
	30 Garfield Av						
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1							
Easting (X): 611126 Northing (Y): 683303 <b>DATE WELL STARTED:</b> January 24, 2012							
Coordin	nate System: N	J State Plane (	NAD83) - USFI	EET DA	TE WELL COM	PLETED: January 24,	2012
WELL USE:	RECOVER	Y					
Other Use(s)	•				Local ID: CA	AN - 27	
WELL CON	STRUCTION	1					
		16	Finished We	ll Depth (ft.):	16	Well Surface: Flush	Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	-	Material		/Screen # Used /ch no.)
Borehole	0	16	10				,
Casing	0	6	4		PVC	So	ch.40
Screen	6	16	4		PVC		020
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout Gravel Pack	<u>0</u> 2	2 16	10 10	4 4	15	50 # 0 Sand	7
		l	10	J	lina Mathada IIal		
ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _ gpm Static Water Level: 6 ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: M-Scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: Mobile B-59 Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes  ATTACHMENTS:  GEOLOGIC LOG  0 - 16: Redish Brown OT - Other fill,cooper,Concrete  ADDITIONAL INFORMATION:							

William G Petley,

Driller of Record: JOURNEYMAN LICENSE # 0013761 Company: SGS NORTH AMERICA INC.

Well Permit Number **E201200564** 

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Org	Company/Organization: Jersey City Redevelopment Agency							
Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302								
	WELL LOCATION: Site 114							
Address: 88	Address: 880 Garfield Ave							
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 2.A	Block: 202	26.1	
Easting (X):	Easting (X): 611126 Northing (Y): 683303							
•			NAD83) - USFI			'E WELL SIONED: March 15, 20	013	
WELL USE:	RECOVER	Y				· · · · · · · · · · · · · · · · · · ·		
					Local ID: CA	N - 27		
			vated/Demolishe					
Finished Wel	l Depth (ft.):	16		V	Vas a New Well Dril	lled? N		
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nur	nber:		
WELL DEC	OMMISSION	ING INFORM	MATION					
	Depth to	Depth to	Diameter		Material		/Screen # Used	
D1 - 1 -	Top (ft.)	Bottom (ft.)	(inches)			(lbs/	(ch no.)	
Borehole Casing	0	16	10		PVC	So	ob 40	
Screen	6	16	4	PVC Sch 40 PVC .020				
MATERIAL		10			1 10		020	
WIATERIAL	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	16	4	0	7	156	10	
Sand/Gravel								
<b>ADDITION</b>	AL INFORMA	ATION						
Obstructions:	No				Authorization Offic	ial:		
Obstruction Type: Authorization Number:								
Alternative Decomm. Method? No Authorization Date:								
Method Used								
ATTACHMENTS:								

Thomas L Hanley
JOURNEYMAN
Sealing Driller: LICENSE # 0001181

SGS NORTH AMERICA INC.
PO BOX 423
West Creek (Ocean), NJ 08092

Well Permit Number **E201200565** 

### **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, JOURNEYMAN LICENSE # 0021243								
Permit Issued to: SGS NORTH AMERICA INC.	uit Issued to: SGS NORTH AMERICA INC.							
Company Address: PO BOX 423 WEST CREEK, NJ 08092								
PROPERTY OWNER								
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Organization:Jersey City Redevelopment Agency								
Address: 30Montgomery Street, Suite 900								
City: Jersey City State: New Jerse	y Zip Code: <u>07302</u>							
PROPOSED WELL LOCATION								
Facility Name: Site 114								
Address: 880 Garfield Ave								
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1							
Easting (X): 611050 Northing (Y): 683274	Local ID: CAN - 28							
Coordinate System: NJ State Plane (NAD83) - USFEET								
SITE CHARACTERISTICS								
PROPOSED CONSTRUCTION								
WELL USE: RECOVERY	Other Use(s):							
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation							
Depth (ft.): 40	Case ID Number:							
Pump Capacity (gpm): 1 Deviation Requested: N								
Drilling Method: Hollow Stem Augers								
Attachments:								
SPECIFIC CONDITIONS/REQUIREMENTS								

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200565

#### **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]

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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]

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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]

Well Permit Number **E201200565** 

## MONITORING WELL RECORD

	MONITURING WELL RECORD								
PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY									
Company/Org	ganization: <u>Je</u>	ersey City Rede	evelopment Age	ncy			_		
Address: 30Montgomery Street, Suite 900 Jersey City, New Jersey 07302									
WELL LOCATION: Site 114									
Address: 880 Garfield Ave									
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1									
Easting (X): 611050 Northing (Y): 683274 <b>DATE WELL STARTED:</b> January 27, 2012									
		<del></del>	NAD83) - USFI	777		PLETED: January 27,			
WELL USE:	RECOVER	Y				. <u></u>			
					Local ID: CA	AN - 28			
	STRUCTION			_					
		14	Finished We	ll Depth (ft.):	14	Well Surface: Flush	h Mount		
· · · · · · · · · · · · · · · · · · ·	Depth to	Depth to	Diameter		Material		g/Screen # Used		
	Top (ft.)	Bottom (ft.)	(inches)		Material		s/ch no.)		
Borehole	0	14	10			,	,		
Casing	4	14	4		PVC	S	Sch.40		
Screen	4	14	4		PVC		.020		
	Depth to	Depth to	Outer	Inner	er Material				
1	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′		Neat Cement (lbs.)	Water (gal.)		
Grout	0	2	10	4	15	50	8		
Gravel Pack	2								
Grouting Method: Gravity method Drilling Method: Hollow Stem Augers									
ADDITIONAL INFORMATION  Protective Casing: Yes Pump Capacity: _ gpm Static Water Level: _6 ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: M-Scope Drilling Fluid:  Well Development Period: _1 hrs. Drill Rig: Mobile B-59  Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes  Pump Type:									
ATTACHMENTS:									
GEOLOGIC LOG									
0 - 14: Redish Brown OT - Other Fill; Manufacturing Debris									
ADDITIONAL INFORMATION:									

William G Petley,

Driller of Record: JOURNEYMAN LICENSE # 0013761 Company: SGS NORTH AMERICA INC.

Well Permit Number E201200565

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY										
Company/Org	ganization: Je	ersey City Rede	evelopment Age	ncy						
Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302										
WELL LOCATION: Site 114										
Address: 880 Garfield Ave										
County: <u>Hudson</u> <u>Municipality: Jersey City</u>				Lot: 2.A Block: 2026.1			26.1			
Easting (X):	611050	Northing	(Y): <u>683274</u>		DAT	'E WEI I				
			NAD83) - USFI	DATE WELL						
WELL USE:	RECOVER	Y								
Other Use(s)	:				Local ID: CA	N - 28				
Reason for De	ecommissionir	ng: Site Excar	vated/Demolishe	ed						
Finished Wel	l Depth (ft.): _	14		V	Vas a New Well Dril	led? N				
Formation Ty	pe: Unconso			No	ew Well Permit Nur	nber:				
WELL DEC	OMMISSION	ING INFORM	MATION							
	Depth to	Depth to	Diameter	Material			Wgt/Rating/Screen # Used			
Borehole	Top (ft.)	Bottom (ft.)	(inches)	(lbs/ch no.)			s/cn no.)			
Casing	0	4	4	PVC Sch 40			Sch 40			
Screen	4	14	4	PVC			.020			
MATERIAL	S USED	Į.								
	Depth to	Depth to	Outer	Inner	Material					
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)			
Grout Sand/Gravel	0	14	4	0	6	138	9			
	L AL INFORMA	A TION								
					A-41i4i	1.1.				
	Obstructions: No Authorization Official:									
Obstruction Type:										
Alternative Decomm. Method? No					Authorization D	ate:				
Method Used										
ATTACHMENTS:										

Thomas L Hanley SGS NORTH AMERICA INC. **JOURNEYMAN** PO BOX 423 Sealing Driller: LICENSE # 0001181

West Creek (Ocean), NJ 08092 Company:

Well Permit Number **E201200566** 

### **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, JOURNEY	er: WESLEY M EICHFELD, JOURNEYMAN LICENSE # 0021243								
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.								
Company Address: PO BOX 423 WEST CREEK, NJ 0	any Address: PO BOX 423 WEST CREEK, NJ 08092								
PROPERTY OWNER									
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	,								
Organization: Jersey City Redevelopment Agency									
Address: 30Montgomery Street, Suite 900									
City: Jersey City State: New Jerse	zip Code: <u>07302</u>								
PROPOSED WELL LOCATION									
Facility Name: Site 114									
Address: 880 Garfield Ave									
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1								
Easting (X): 611098 Northing (Y): 683250  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: CAN - 29								
SITE CHARACTERISTICS									
PROPOSED CONSTRUCTION									
WELL USE: RECOVERY	Other Use(s):								
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation								
Depth (ft.):40	Case ID Number:								
Pump Capacity (gpm): 1	Deviation Requested: N								
Drilling Method: Hollow Stem Augers									
Attachments:									
SPECIFIC CONDITIONS/REQUIREMENTS									

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200566

#### 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. [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. 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]

Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

# Well Permit Number E201200566

# MONITORING WELL RECORD

DDADEDTV	PROPERTY OWNER AND REPORT OF THE ACTION								
PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY									
Company/Organization: Jersey City Redevelopment Agency									
Address: 30	Address: 30Montgomery Street, Suite 900 Jersey City, New Jersey 07302								
WELL LOC	ATION: Sit	e 114							
Address: 88	Address: 880 Garfield Ave								
County: Hu	County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1								
Easting (X): 611098 Northing (Y): 683250 <b>DATE WELL STARTED:</b> January 26, 2012									
· ·			NAD83) - USFI	777		PLETED: January 26,			
WELL USE:	RECOVER	Y							
					Local ID: CA	N - 29			
WELL CON	STRUCTION	J							
		14	Finished We	ll Denth (ft )·	14	Well Surface: Flush	n Mount		
Total Beptil					Material				
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Materiai		/Screen # Used /ch no.)		
Borehole	0	14	10				,		
Casing	0	4	4		PVC	S	ch.40		
Screen	4	14	10		PVC		.020		
	Depth to	Depth to	Outer	Inner		Material			
	Top (ft.)	Bottom (ft.)	Diameter (in.)		\ /	Neat Cement (lbs.)	Water (gal.)		
Grout Gravel Pack	<u>0</u> 2	2 14	10 10	4 4	15	50 # 0 Sand	8		
I .	hod: Gravity	1	10		lling Method: Holl				
_					ming Method: 11011	ow stem rugers			
Protective Ca	AL INFORMA	ATION		Pun	np Capacity: _ gpm				
		elow land surfa	ce		al Design Head: _ ft				
	Measure Tool:				lling Fluid:				
Well Development Period: 1 hrs.  Drill Rig: Mobile B-59  Well Development Period: 1 hrs.									
Method of Development: Centrifugal Pump  Health and Safety Plan Submitted? Yes  Pump Type:									
ATTACHMENTS:									
GEOLOGIC LOG									
0 - 14: Redish Brown OT - Other Fill; Manufacturing Debris									
ADDITIONAL INFORMATION:									
11221110111									

William G Petley,

Driller of Record: JOURNEYMAN LICENSE # 0013761 Company: SGS NORTH AMERICA INC.

Well Permit Number
E201200566

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Org	Company/Organization: Jersey City Redevelopment Agency							
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	New Jersey 0730	)2			
WELL LOC	WELL LOCATION: Site 114							
	30 Garfield Av							
			I Lamanari Citar		Lat: 2 A	Plank: 20	26.1	
County. <u>Hu</u>	County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1							
Easting (X): 611098 Northing (Y): 683250 DATE WELL								
Coordin	nate System: N	IJ State Plane (	NAD83) - USF	EET		SIONED: March 15, 2	2013	
WELL USE:	RECOVER	Y						
Other Use(s)	:				Local ID: CA	N - 29		
Reason for De			vated/Demolish					
Finished Wel	l Depth (ft.):	14		W	as a New Well Dri	lled? N		
Formation Type: Unconsolidated New Well Permit Number:								
WELL DEC	OMMISSION	ING INFORM	MATION					
	Depth to	Depth to	Diameter		Material		g/Screen # Used	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)	
Casing	0	4	4		PVC	S	ch 40	
Screen	4	14	4		PVC		.020	
MATERIAL	S USED							
	Depth to	Depth to	Outer	Inner		Material		
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)		Neat Cement (lbs.)	Water (gal.)	
Sand/Gravel	U	14	4	U	7	143	9	
	AL INFORMA	ATION		ll.				
Obstructions: No Authorization Official:								
Obstruction Type: Authorization Number:								
Alternative Decomm. Method? No Authorization Date:								
Method Used								
ATTACHME								

Thomas L Hanley
JOURNEYMAN
Sealing Driller: LICENSE # 0001181

SGS NORTH AMERICA INC.
PO BOX 423
West Creek (Ocean), NJ 08092

Well Permit Number **E201200567** 

### **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

11 & & 7	1 1 1								
Certifying Driller: WESLEY M EICHFELD, JOURNEY	YMAN LICENSE # 0021243								
Permit Issued to: SGS NORTH AMERICA INC.									
Company Address: PO BOX 423 WEST CREEK, NJ 0	Company Address: PO BOX 423 WEST CREEK, NJ 08092								
PROPERTY OWNER									
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	7								
Organization: Jersey City Redevelopment Agency									
Address: 30Montgomery Street, Suite 900									
City: Jersey City State: New Jerse	ey Zip Code: 07302								
PROPOSED WELL LOCATION									
Facility Name: Site 114									
Address: 880 Garfield Ave									
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1								
Easting (X): 611098 Northing (Y): 683250  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID:CAN - 30								
SITE CHARACTERISTICS									
on the control of the									
PROPOSED CONSTRUCTION									
WELL USE: RECOVERY	Other Use(s):								
	Regulatory Program								
Diameter (in.): 4	Requiring Wells/Borings: Owner Investigation								
Depth (ft.): 40	Case ID Number:								
Pump Capacity (gpm): 1	Deviation Requested: N								
Drilling Method: Hollow Stem Augers									
Attachments:									
SPECIFIC CONDITIONS/REQUIREMENTS									

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200567

#### **WELL PERMIT**

<b>DEVIATION INFORMATION</b>	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. 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]

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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]

Well Permit Number **E201200567** 

# **MONITORING WELL RECORD**

PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY						
Company/Organization: Jersey City Redevelopment Agency							
Address: 30Montgomery Street, Suite 900 Jersey City, New Jersey 07302							
		-	o Jeisey City, I	New Jersey 07.	502		
	ATION: Site						
Address: 88	30 Garfield Av	e					
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1							
Easting (X): 611098 Northing (Y): 683250 <b>DATE WELL STARTED:</b> February 8, 2012							
Coordin	nate System: N	IJ State Plane (	NAD83) - USFI	EET I	OATE WELL COM	PLETED: February 8.	2012
WELL USE:	: RECOVER	Y					
					Local ID: CA	N - 30	
	STRUCTION						
		17	Finished We	ell Denth (ft )	17	Well Surface: Flus	h Mount
roun Depth			Diameter	Depui (ic.)			
	Depth to Top (ft.)	Depth to Bottom (ft.)	(inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	17	11				
Casing	0	7	4		PVC		40
Screen	7	17	4		Vwire PVC		.10
	Depth to	Depth to	Outer	Inner		Material	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in	Bentonite (lbs.)	Neat Cement (lbs.) 200	Water (gal.)
Gravel Pack	5	17	11	4	13	#0 sand	20
	thod: Gravity	method		Di	rilling Method: Hol		
•	AL INFORMA						
Protective Ca	sing: <u>No</u>				imp Capacity: _ gpm		
	Level: <u>8</u> ft. be Measure Tool:	elow land surfa	ce		otal Design Head: _ fi rilling Fluid:	ī.	
	oment Period:				rill Rig: <u>Mobile B-59</u>		
Method of De	evelopment: W	hale pump			ealth and Safety Plan	Submitted? Yes	
ATTACHM	ENTS:						
GEOLOGIC		1					
0 - 5: Brown OT - Other Fill 5 - 16.5: Green grey SM - Silty sands, sand-silt mixtures							
16.5 - 17: Brown PT - Peat, muck, and other highly organic soils							
	AL INFORMA	•					
ADDITIONA	AL INFORMA	ATTON:					
	******	D.D. d					
	Willian	n R Petley,					

Company: SGS NORTH AMERICA INC.

Driller of Record: MONITORING LICENSE # 545487

Well Permit Number **E201200567** 

# WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: _	ERSEY CITY	REDEVELOP	MENT AGENC	Y		
Company/Or	ganization: Je	ersey City					
Address: 30	) Montgomery	Street Jersey C	City, New Jersey	07302			
WELL LOC	ATION: Sit	e 114					
	30 Garfield Av						
			v. Jersey City		Lot: 2 A	Block: 20	126.1
					Lot. 2.A	Block20	20.1
- , ,			(Y): <u>683250</u>		DAT	TE WELL	
Coordi	nate System: N	IJ State Plane (	NAD83) - USFI	EET	DECOMMIS	SIONED: April 10, 2	013
WELL USE:	RECOVER	Y					
Other Use(s)	:				Local ID: CA	AN - 30	
Reason for D	ecommissionii	ng: <u>No longer</u>	in use				
Finished Well Depth (ft.): 17 Was a New Well Drilled? N							
Formation Type: Unconsolidated New Well Permit Number:							
WELL DEC		ING INFOR	MATION				
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	17	11			(IO	5/ CH HO.)
Casing	0	7	4		PVC		40
Screen	7	17	4	V	wire PVC	1	0 slot
MATERIAL		T	1				
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)
Grout	1 op (1t.)	Dottom (it.)	Diameter (iii.)	Diameter (III)	Dentonite (10s.)	Neat Cement (lbs.)	water (gar.)
Sand/Gravel							
ADDITION	AL INFORM	ATION					
Obstructions:	No			ي	Authorization Office	cial:	
Obstruction Type: Authorization Number:							
Alternative Decomm. Method? No Authorization Date:							
Method Used	well was ex	cavated to orig	inal depth and re	emoved			
ATTACHME	ENTS:						

Keith Butcher SGS NORTH AMERICA INC.
JOURNEYMAN PO BOX 423

Sealing Driller: LICENSE # 203616 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201200568** 

### **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, JOURNEY	Certifying Driller: WESLEY M EICHFELD, JOURNEYMAN LICENSE # 0021243							
Permit Issued to: SGS NORTH AMERICA INC.	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								
Organization:Jersey City Redevelopment Agency								
Address: 30Montgomery Street, Suite 900								
City: Jersey City State: New Jerse	y Zip Code: <u>07302</u>							
PROPOSED WELL LOCATION								
Facility Name: Site 114								
Address: 880 Garfield Ave								
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1							
Easting (X): 611071 Northing (Y): 683196	Local ID: CAN - 31							
Coordinate System: NJ State Plane (NAD83) - USFEET								
SITE CHARACTERISTICS								
PROPOSED CONSTRUCTION								
WELL USE: RECOVERY	Other Use(s):							
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation							
Depth (ft.): 40	Case ID Number:							
Pump Capacity (gpm): 1	Deviation Requested: N							
Drilling Method: Hollow Stem Augers								
Attachments:								
SPECIFIC CONDITIONS/REQUIREMENTS								

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201200568

#### 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]

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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]

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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]

Well Permit Number E201200568

# MONITORING WELL RECORD

Company/Organization:   Jersey City Redevelopment Agency	Company/Organization:   Jersey City Redevelopment Agency		MONITORING WEEL RECORD						
Material   Well Surface: Flush Mount	WELL LOCATION:   Site   114	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
WELL LOCATION:   Site 114	WELL LOCATION:   Site   114	Company/Org	ganization: <u>Je</u>	ersey City Rede	evelopment Age	ncy			
Address:   880 Garfield Ave   County:   Hudson   Municipality:   Jersey City   Lot:   2.A   Block:   2026.1	Address: 880 Garfield Ave	Address: 30	Montgomery	Street, Suite 90	0 Jersey City, N	lew Jersey 0730	)2		
Address:   880 Garfield Ave   County:   Hudson   Municipality:   Jersey City   Lot:   2.A   Block:   2026.1	Address: 880 Garfield Ave	WELL LOC	WELL LOCATION: Site 114						
County:   Hudson	Easting (X): 611071								
Depth to   Depth to   Top (ft.)   Bottom (ft.)   Depth to   Top (ft.)   Bottom (ft.)   Diameter (in.)   Di	Easting (X): 611071								
Coordinate System: NJ State Plane (NAD83) - USFEET	Coordinate System: NJ State Plane (NAD83) - USFEET								
	Note					777			
Content Use(s):	Note   Construction   Construction				NAD63) - USI1	DA DA	ATE WELL COMI	LETED: January 25,	2012
Depth to   Depth to   Top (ft.)   Depth to   Diameter   Depth to   Diameter (in.)   Di	Depth to   Depth to   Depth to   Casing   6   16   4   PVC   Depth to   Depth to   Depth to   Depth to   Depth to   Casing   6   16   4   PVC   Depth to   Diameter (in)   Diameter (in)   Diameter (in)   Diameter (in)   Depth to   Depth to   Depth to   Depth to   Depth to   Depth to   Diameter (in)   Depth to   Diameter (in)   Diameter (in)   Depth to   Diameter (in)   Diameter (in)   Depth to   Depth t			Y					
Total Depth Drilled (ft.):	Total Depth Drilled (ft.):	Other Use(s)	:				Local ID: CA	N - 31	
Depth to   Depth to   Top (ft.)   Bottom (ft.)   Diameter   (inches)   Material   Wgt/Rating/Screen # Used (lbs/ch no.)	Depth to Top (ft.)   Depth to Bottom (ft.)   Diameter (inches)   Material   Wgt/Rating/Screen # Used (lbs/ch no.)	WELL CON	STRUCTION	1					
Top (ft.)   Bottom (ft.)   (inches)   (lbs/ch no.)	Top (ft.)   Bottom (ft.)   (inches)   (ilbs/ch no.)	Total Depth	Drilled (ft.):	16	Finished We	ll Depth (ft.):	16	Well Surface: Flush	n Mount
Borehole   0	Borehole								
Casing   6	Casing         6         16         4         PVC         Sch.40           Screen         6         16         4         PVC         .020           Grout         Depth to Top (ft.)         Depth to Depth to Double (ft.)         Outer Diameter (in.)         Inner Diameter (in.)         Material Bentonite (lbs.)         Neat Cement (lbs.)         Water (gal.)           Grout         0         2         10         4         15         50         8           Gravel Pack         2         16         10         4         # 0 Sand           Grouting Method: Gravity method         Drilling Method: Hollow Stem Augers           ADDITIONAL INFORMATION         Protective Casing: No         Pump Capacity: _gpm           Static Water Level: 6 ft. below land surface         Total Design Head: _ ft.           Water Level Measure Tool: M-Scope         Drilling Fluid:           Well Development Period: _l hrs.         Drill Rig: Mobile B-59           Method of Development: Centrifugal Pump         Health and Safety Plan Submitted? Yes           ATTACHMENTS:      GEOLOGIC LOG           0 - 16: Redish Brown OT - Other Fill; Manufacturing Debris	Borehole						(108	(CII IIO.)
Depth to   Depth to   Depth to   Diameter (in.)   Diame	Depth to   Depth to   Top (ft.)   Depth to   Top (ft.)   Depth to   Diameter (in.)   Diam						PVC	S	ch.40
Top (ft.) Bottom (ft.) Diameter (in) Bentonite (lbs.) Neat Cement (lbs.) Water (gal.)  Grout 0 2 10 4 15 50 8  Gravel Pack 2 16 10 4 #0 Sand  Grouting Method: Gravity method Drilling Method: Hollow Stem Augers  ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _gpm Static Water Level: 6 ft. below land surface Water Level Measure Tool: M-Scope Urilling Fluid: Well Development Period: 1 hrs. Drill Rig: Mobile B-59  Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes  ATTACHMENTS:  GEOLOGIC LOG	Top (ft.) Bottom (ft.) Diameter (in.) Diameter (in) Bentonite (lbs.) Neat Cement (lbs.) Water (gal.)  Grout 0 2 10 4 15 50 8  Gravel Pack 2 16 10 4 #0 Sand  Grouting Method: Gravity method Drilling Method: Hollow Stem Augers  ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _gpm Static Water Level: 6 ft. below land surface Total Design Head: _ft.  Water Level Measure Tool: M-Scope Drilling Fluid:  Well Development Period: 1 hrs. Drill Rig: Mobile B-59  Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes  ATTACHMENTS:  GEOLOGIC LOG  0 - 16: Redish Brown OT - Other Fill; Manufacturing Debris		6	16			PVC		.020
Top (ft.) Bottom (ft.) Diameter (in) Bentonite (lbs.) Neat Cement (lbs.) Water (gal.)  Grout 0 2 10 4 15 50 8  Gravel Pack 2 16 10 4 #0 Sand  Grouting Method: Gravity method Drilling Method: Hollow Stem Augers  ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _gpm Static Water Level: 6 ft. below land surface Total Design Head: _ft.  Water Level Measure Tool: M-Scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: Mobile B-59  Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes  ATTACHMENTS:  GEOLOGIC LOG	Top (ft.) Bottom (ft.) Diameter (in.) Diameter (in) Bentonite (lbs.) Neat Cement (lbs.) Water (gal.)  Grout 0 2 10 4 15 50 8  Gravel Pack 2 16 10 4 #0 Sand  Grouting Method: Gravity method Drilling Method: Hollow Stem Augers  ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _gpm Static Water Level: 6 ft. below land surface Total Design Head: _ft.  Water Level Measure Tool: M-Scope Drilling Fluid:  Well Development Period: 1 hrs. Drill Rig: Mobile B-59  Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes  ATTACHMENTS:  GEOLOGIC LOG  0 - 16: Redish Brown OT - Other Fill; Manufacturing Debris		Depth to	Depth to	Outer	Inner		Material	
Gravel Pack 2 16 10 4 # 0 Sand  Grouting Method: Gravity method Drilling Method: Hollow Stem Augers  ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _ gpm Static Water Level: 6 ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: M-Scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: Mobile B-59  Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes  ATTACHMENTS:  GEOLOGIC LOG	Gravel Pack 2 16 10 4 #0 Sand  Grouting Method: Gravity method Drilling Method: Hollow Stem Augers  ADDITIONAL INFORMATION Protective Casing: No Pump Capacity: _ gpm Static Water Level: 6 ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: M-Scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: Mobile B-59 Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes  ATTACHMENTS:  GEOLOGIC LOG  0 - 16: Redish Brown OT - Other Fill; Manufacturing Debris		-	-		<u> </u>	Bentonite (lbs.)		Water (gal.)
Grouting Method: Gravity method Drilling Method: Hollow Stem Augers  ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _ gpm Static Water Level: 6 ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: M-Scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: Mobile B-59 Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes Pump Type:  ATTACHMENTS: GEOLOGIC LOG	Grouting Method: Gravity method Drilling Method: Hollow Stem Augers  ADDITIONAL INFORMATION Protective Casing: No Pump Capacity: _ gpm Static Water Level: 6 ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: M-Scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: Mobile B-59 Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes  Pump Type:  ATTACHMENTS:  GEOLOGIC LOG  0 - 16: Redish Brown OT - Other Fill; Manufacturing Debris						15		8
ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _ gpm Static Water Level: 6 ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: M-Scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: Mobile B-59 Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes  ATTACHMENTS:  GEOLOGIC LOG	ADDITIONAL INFORMATION Protective Casing: No Pump Capacity: _ gpm Static Water Level: 6 ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: M-Scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: Mobile B-59 Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes Pump Type:  ATTACHMENTS:  GEOLOGIC LOG  0 - 16: Redish Brown OT - Other Fill; Manufacturing Debris				10				
Protective Casing: No Pump Capacity: _ gpm Static Water Level: 6 ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: M-Scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: Mobile B-59 Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes  ATTACHMENTS:  GEOLOGIC LOG	Protective Casing: No Pump Capacity: _ gpm Static Water Level: 6 ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: M-Scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: Mobile B-59 Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes Pump Type:  ATTACHMENTS:  GEOLOGIC LOG  0 - 16: Redish Brown OT - Other Fill; Manufacturing Debris	_				Dri	lling Method: Holl	ow Stem Augers	
GEOLOGIC LOG	GEOLOGIC LOG  0 - 16: Redish Brown OT - Other Fill; Manufacturing Debris	Protective Casing: No Static Water Level: 6 ft. below land surface Water Level Measure Tool: M-Scope Well Development Period: 1 hrs. Drill Rig: Mobile B-59 Method of Development: Centrifugal Pump Pump Type:  Pump Capacity: _ gpm Total Design Head: _ ft. Drilling Fluid: Drill Rig: Mobile B-59 Health and Safety Plan Submitted? Yes							
	0 - 16: Redish Brown OT - Other Fill; Manufacturing Debris								
0 - 16: Redish Brown OT - Other Fill; Manufacturing Debris									
ADDITIONAL INFORMATION:	ADDITIONAL INFORMATION.								
AND ALL CANTELLACTION		IDDITION	II II (I OINIII	1110111					

William G Petley,

Driller of Record: JOURNEYMAN LICENSE # 0013761 Company: SGS NORTH AMERICA INC.

Well Permit Number **E201200568** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Org	Company/Organization: Jersey City Redevelopment Agency							
Address: 30	Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2			
	ATION: Sit		•					
Address: 88	Address: 880 Garfield Ave							
			y: Jersey City		Lot: 2.A	Block: 202	26.1	
Easting (X): 611071 Northing (Y): 683196 DATE WELL Coordinate System: NJ State Plane (NAD83) - USFEET DECOMMISSIONED: April 5, 2013								
WELL USE: RECOVERY								
Other Use(s): Local ID: CAN - 31								
Reason for Decommissioning: Site Excavated/Demolished								
Finished Well Depth (ft.): 16 Was a New Well Drilled? N								
Formation Type: Unconsolidated New Well Permit Number:								
•	-	ING INFORM						
	Depth to	Depth to	Diameter		Material		/Screen # Used /ch no.)	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(IDS	/CH HO.)	
Casing	0	6	4		PVC	Se	ch 40	
Screen	6	16	4		PVC		020	
MATERIAL	S USED					<del></del>		
	Depth to	Depth to	Outer	Inner				
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` /	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Sand/Gravel	0	16	4	0	15	130	10	
l l	AL INFORMA	ATION						
Obstructions:		111011			Authorization Offic	eial:		
Obstruction T								
Obstruction Type:				Authorization Number:  Authorization Date:				
ATTACHME								
ATTACIBIL								

Thomas L Hanley
JOURNEYMAN
Sealing Driller: LICENSE # 0001181

SGS NORTH AMERICA INC.
PO BOX 423
West Creek (Ocean), NJ 08092

Well Permit Number **E201200569** 

### **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, JOURNEYMAN LICENSE # 0021243							
Permit Issued to: SGS NORTH AMERICA INC.	mit Issued to: SGS NORTH AMERICA INC.						
Company Address: PO BOX 423 WEST CREEK, NJ (	Company Address: PO BOX 423 WEST CREEK, NJ 08092						
PROPERTY OWNER							
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	7						
Organization: Jersey City Redevelopment Agency							
Address: 30Montgomery Street, Suite 900							
City: Jersey City State: New Jerse	zip Code: <u>07302</u>						
PROPOSED WELL LOCATION							
Facility Name: Site 114							
Address: 880 Garfield Ave							
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1						
Easting (X): 610983 Northing (Y): 683174  Coordinate System: NJ State Plane (NAD83) - USFEET							
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
PROPOSED CONSTRUCTION  WELL USE: RECOVERY	Other Use(s):						
WELL USE: RECOVERY	Regulatory Program						
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200569

#### 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. [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. 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]

Well Permit Number **E201200569** 

# MONITORING WELL RECORD

					ELL RECORD			
			CITY REDEVE		GENCY			
Company/Or	ganization: <u>Je</u>	ersey City Rede	evelopment Age	ncy				
Address: 30	0Montgomery	Street, Suite 90	00 Jersey City, N	New Jersey 07	302			
WELL LOC	CATION: Sit	e 114						
Address: 88	80 Garfield Av	e						
County: Hu	ıdson	Municipality	y: Jersey City		Lot: 2.A	Block: 20	26.1	
Easting (X):	610983	Northing	(Y): 683174		DATE WELL ST	TARTED: January 30,	2012	
	•		NAD83) - USFI			PLETED: January 30,		
WELL USE	: RECOVER	Y	*		THE WEEL COM	variatify 50,	2012	
					Local ID: CA	N - 32		
	STRUCTION							
Total Depth Drilled (ft.): 18 Finished Well Depth (ft.): 18 Well Surface: Flush Mount								
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)	
Borehole	0	18	11			,	,	
Casing	0	3	4		PVC		40	
Screen	3	18	4		PVC		.010	
	Depth to	Depth to	Outer	Inner Diameter (in	D = 14 = (11 = )	Material	Water (call)	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	4	Bentonite (lbs.)	Neat Cement (lbs.) 25	Water (gal.)	
Gravel Pack	1	18	11	4		#0 sand		
Grouting Met	thod: Gravity	method		D	rilling Method: Holl	low Stem Augers		
	AL INFORMA	ATION						
Protective Ca	ising: <u>No</u> Level: <u>5</u> ft. be	low land ourfa	00		ump Capacity: _ gpm otal Design Head: _ ft			
	Measure Tool:		ce		rilling Fluid:	·•		
Well Develop	pment Period:	1 hrs.		D	rill Rig: Mobile B-59			
	evelopment: W	hale pump		Н	ealth and Safety Plan	Submitted? <u>Yes</u>		
Pump Type:  ATTACHM	ENTS.							
GEOLOGIC								
	OT - Other Fil	1						
5 - 17.5: Gree	en gray SM - S	ilty sands, sand	d-silt mixtures					
17.5 - 18: Bro	own PT - Peat,	muck, and oth	er highly organi	c soils				
ADDITION	AL INFORMA	ATION:						
	Willian	n R Petley,						

Company: SGS NORTH AMERICA INC.

Driller of Record: MONITORING LICENSE # 545487

Well Permit Number **E201200569** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Company/Organization: Jersey City Redevelopment Agency							
Address: 30	Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2		
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
WELL LOC	ATION: Sit	e 114					
Address: 88	30 Garfield Av	e					
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 2.A	Block: 202	26.1
Easting (X):	610983	Northing	(Y): 683174		БАТ	712 XX/12 X X	
· ·			NAD83) - USFI			TE WELL SIONED: April 14, 20	013
WELL USE: RECOVERY							
Other Use(s): Local ID: CAN - 32							
Reason for Decommissioning: Site Excavated/Demolished							
Finished Well Depth (ft.): 18 Was a New Well Drilled? N							
Formation Type: Unconsolidated New Well Permit Number:							
WELL DECOMMISSIONING INFORMATION							
	Depth to	Depth to	Diameter		Material		/Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)
Casing	0	18	4		PVC	G	ch 40
Screen	3	18	4		PVC		.010
MATERIAL		1			1,0		.010
	Depth to	Depth to	Outer	Inner	Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	. ` ′	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	18	4	0	5	143	11
Sand/Gravel	I INFORM	ATLON					
	AL INFORMA						
						eial:	
Obstruction T	ype:			Authorization Number:			
Alternative Decomm. Method? No				Authorization Date:			
Method Used							
ATTACHME	ENTS:						

Thomas L Hanley
JOURNEYMAN
Sealing Driller: LICENSE # 0001181

SGS NORTH AMERICA INC.
PO BOX 423
West Creek (Ocean), NJ 08092

Well Permit Number **E201200570** 

### **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, JOURNEY	MAN LICENSE # 0021243						
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							
Organization: Jersey City Redevelopment Agency							
Address: 30Montgomery Street, Suite 900							
City: Jersey City State: New Jerse	zip Code: <u>07302</u>						
PROPOSED WELL LOCATION							
Facility Name: Site 114							
Address: 880 Garfield Ave							
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1						
Easting (X): 611038 Northing (Y): 683146  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: <u>CAN - 33</u>						
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
WELL USE: RECOVERY	Other Use(s):						
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
Depth (ft.): _40	Case ID Number:						
Pump Capacity (gpm): 1	Deviation Requested: N						
Drilling Method: Hollow Stem Augers							
Attachments:							
SPECIFIC CONDITIONS/REQUIREMENTS							

Approved by the authority of:

Approval Date: January 17, 2012

**Expiration Date:** January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200570

#### 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. [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. 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]

Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201200570

# MONITORING WELL RECORD

		III.			EL RECORD		
				LOPMENT AG	ENCY		
			evelopment Age	-			
Address: 30	)Montgomery	Street, Suite 90	00 Jersey City, N	New Jersey 0730	)2		
WELL LOCATION: Site 114							
Address: 88	30 Garfield Av	e					
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1							
Easting (X):611038 Northing (Y):683146 <b>DATE WELL STARTED:</b> January 26, 2012							
Coordii	nate System: N	IJ State Plane (	NAD83) - USF	EET DA	ATE WELL COMP	LETED: January 26, 2	2012
WELL USE:	RECOVER	Y					
Other Use(s)	:				Local ID: CA	N - 33	
WELL CON	STRUCTION	J					
		19	Finished We	ell Depth (ft.):	19 V	Well Surface: Flush	Mount
Depth to Depth to Diameter Material Wgt/Rating/Screen # Used Top (ft.) Bottom (ft.) (inches) (lbs/ch no.)							
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(108/	cn no.)
Casing	0	4	4	PVC Sch.40			ch.40
Screen	4	19	4		PVC	).	020
	Depth to	Depth to	Outer	Inner		Material	
_	Top (ft.)	Bottom (ft.)	Diameter (in.)	l l	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Ground Davids	0 2	2 19	10	4 4	15	50 # 0 S and	8
Gravel Pack	I		10	l	II: Madha de - II a II	# 0 Sand	
_	thod: Gravity			Dri	lling Method: Hollo	ow Stem Augers	
ADDITIONA Protective Ca	AL INFORMA	<u>ATION</u>		Pur	np Capacity: _ gpm		
		elow land surfa	ce		al Design Head: _ ft.		
	Measure Tool:				lling Fluid:		
	oment Period:	<u>1</u> hrs. entrifugal Pum	n		ll Rig: <u>Mobile B-59</u> alth and Safety Plan S	Submitted? Ves	
Pump Type:	. veторители. <u>еч</u>	onumugan i um	<u> </u>	1100	inin and Sarcty I fan s	Submitted: 1es	
ATTACHMI	ENTS:						
GEOLOGIC							
			nufacturing Deb	ris			
16 - 18.5: Grey SM - Silty sands, sand-silt mixtures							
18.5 - 19: Brown PT - Peat, muck, and other highly organic soils							
ADDITIONAL INFORMATION:							

Company: SGS NORTH AMERICA INC.

William G Petley, Driller of Record: JOURNEYMAN LICENSE # 0013761

Well Permit Number **E201200570** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Org	Company/Organization: Jersey City Redevelopment Agency							
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	lew Jersey 0730	)2			
WELL LOC	ATION. C:4	114	•	•				
	ATION: Sit							
	30 Garfield Av							
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 2.A	Block: 202	6.1	
Easting (X):	611038	Northing	(Y): <u>683146</u>		БАТ	VE 33/EL I		
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL  DECOMMISSIONED: April 14, 2013						13		
WELL USE:	RECOVER	Y						
Other Use(s): Local ID: CAN - 33								
Reason for Decommissioning: Site Excavated/Demolished								
Finished Well Depth (ft.): 19 Was a New Well Drilled? N								
Formation Type: Unconsolidated New Well Permit Number:								
-	-	NING INFORM	MATION					
WEEL BEC	Depth to	Depth to	Diameter		Material	Wgt/Rating/	Screen # Used	
	Top (ft.)	Bottom (ft.)	(inches)				ch no.)	
Borehole	0	19	10					
Casing	0	4	4		PVC	Sc	h 40	
Screen	4	19	4		PVC	).	)20	
MATERIAL	S USED							
	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	` ′	Diameter (in)	\ /	Neat Cement (lbs.)	Water (gal.)	
Grout	0	19	4	0	15	160	12	
Sand/Gravel	AL INFORMA	ATION						
	NT				A - 41 11 41- 11 - OCC -	1.1.		
Obstructions:						ial:		
Obstruction Type:								
Alternative Decomm. Method? No Authorization Date:								
Method Used								
ATTACHME	ENTS:							

Thomas L Hanley
JOURNEYMAN

SGS NORTH AMERICA INC.
PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201201538** 

### **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, JOURNEY	YMAN LICENSE # 0021243							
Permit Issued to: SGS NORTH AMERICA INC.	sued to: SGS NORTH AMERICA INC.							
Company Address: PO BOX 423 WEST CREEK, NJ (	08092							
PROPERTY OWNER								
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	7							
Organization: jersey City Redevelopment Agency								
Address: 30 Montgomery Street Suite 900								
City: Jersey City State: New Jerse	ey Zip Code: <u>07302</u>							
PROPOSED WELL LOCATION								
Facility Name: Site 114								
Address: 880 Garfield Ave								
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1							
Easting (X): 611003 Northing (Y): 683164	Local ID: MON - 8							
Coordinate System: NJ State Plane (NAD83) - USFEET								
SITE CHARACTERISTICS								
PROPOSED CONSTRUCTION								
WELL USE: MONITORING	Other Use(s):							
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation							
Depth (ft.): 40	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:** February 1, 2012

Expiration Date: January 31, 2013

Bureau of V

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

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

Well Permit Number E201201538

#### 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. [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. 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]

Well Permit Number E201201538

	MONITORING WELL RECORD								
PROPERTY	OWNER: _	N/A JERSEY	CITY REDEVE	LOPMENT AC	GENCY				
Company/Org	ganization: <u>je</u>	rsey City Rede	velopment Agei	ncy					
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	New Jersey 073	02				
WELL LOC	ATION: Sit	e 114							
	30 Garfield Av								
			v: Jersey City		Lot: 2 A	Block: 202	26.1		
·			(Y): <u>683164</u>		DATE WELL ST	TARTED: January 30,	2012		
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: January 31, 2012									
WELL USE:	MONITOR	ING							
Other Use(s)	<u> </u>				Local ID: MO	ON - 8			
WELL CON	STRUCTION	<b>J</b>							
Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount						Mount			
	Depth to	Depth to	Diameter		Material		/Screen # Used		
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(IDS	/ch no.)		
Casing	0	30	4		PVC		40		
Screen	30	40	4		Pvc		.10		
	Depth to	Depth to	Outer	Inner		Material			
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)		
Grout	0	27	11	4	50	400	26		
Gravel Pack	27	40	11	4		#0 sand			
Grouting Met	hod: Pressur	e method (Trea	mie Pipe)	Dr	Illing Method: Holl	low Stem Augers			
ADDITIONA Protective Ca	AL INFORM	ATION		Dir	mp Capacity: _ gpm				
		oelow land surf	face		tal Design Head: _ ft				
	Measure Tool:				illing Fluid:				
	ment Period:				ill Rig: Mobile B-59				
Pump Type:	evelopment: <u>W</u>	naie pump		не	alth and Safety Plan	Submitted? <u>Yes</u>			
ATTACHM	ENTS:								
GEOLOGIC									
	OT - Other Fil	1							
5 - 33: Green	gray GM - Sil	ty gravels, grav	vel-sand-silt mix	tures					
33 - 40: Red SM - Silty sands, sand-silt mixtures									
ADDITIONA	ADDITIONAL INFORMATION:								

William R Petley, Driller of Record: MONITORING LICENSE # 545487 Company: SGS NORTH AMERICA INC.

Well Permit Number **E201201538** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Organization: Jersey City Redevelopment Agency								
Address: 30	Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2			
			<i>, , , , , , , , , , , , , , , , , , , </i>	J				
	ATION: Sit							
Address: 88	30 Garfield Av	e						
County: Hudson Municipality: Jersey City					Lot: 2.A	Block: 20	26.1	
Easting (X):	611003	Northing	(Y): 683164		D.4.	757 XX/477 X		
Easting (X): 611003 Northing (Y): 683164  Coordinate System: NJ State Plane (NAD83) - USFEET						TE WELL SIONED: April 5, 201	13	
WELL USE:	MONITOR	ING	<u> </u>		DECONTRIB	<u> </u>		
					Local ID: MO	ON - 8		
Other Use(s): Local ID: MON - 8  Reason for Decommissioning: Site Excavated/Demolished								
Finished Well Depth (ft.): 40 Was a New Well Drilled? N								
Formation Type: Unconsolidated New Well Permit Number:								
-	-	ING INFORM						
VVEEE DEC	Depth to	Depth to	Diameter		Material	Wgt/Rating	g/Screen # Used	
	Top (ft.)	Bottom (ft.)	(inches)				(lbs/ch no.)	
Borehole	0	40	11					
Casing	0	30	4		PVC		ch 40	
Screen	30	40	4		PVC		.010	
MATERIAL	S USED							
	Depth to	Depth to	Outer	Inner	Material			
Const	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Sand/Gravel	U	40	4	0	20	425	26	
	AL INFORMA	ATION						
Obstructions:		11101			Authorization Offic	eial:		
						per:		
	ecomm. Metho			<u> </u>		ate:		
ATTACHME	IN I S.							

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201201539** 

### **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, JOURNEY	MAN LICENSE # 0021243						
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							
Organization: _jersey City Redevelopment Agency							
Address: 30 Montgomery Street Suite 900							
City: Jersey City State: New Jerse	zip Code: <u>07302</u>						
PROPOSED WELL LOCATION							
Facility Name: Site 114							
Address: 880 Garfield Ave							
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1						
Easting (X): 611051 Northing (Y): 683241 Local ID: MON - 9  Coordinate System: NJ State Plane (NAD83) - USFEET							
SITE CHARACTERISTICS							
SITE CHARACTERISTICS							
SITE CHARACTERISTICS  PROPOSED CONSTRUCTION							
	Other Use(s):						
PROPOSED CONSTRUCTION  WELL USE: MONITORING	Regulatory Program						
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0	Regulatory Program Requiring Wells/Borings: Owner Investigation						
PROPOSED CONSTRUCTION  WELL USE: _MONITORING  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _0  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: _MONITORING  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _0  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: _MONITORING  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _0  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: _MONITORING  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _0  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						

Approved by the authority of:

**Approval Date:** February 1, 2012

Expiration Date: January 31, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201201539

#### 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. [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. 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]

Well Permit Number E201201539

					LL RECORD			
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	ELOPMENT AG	ENCY			
Company/Or	ganization: <u>je</u>	rsey City Rede	velopment Age	ncy				
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	New Jersey 0730	)2			
WELL LOC	ATION: Sit	e 114						
Address: 88	30 Garfield Av	e						
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 2.A		Block: 202	6.1
Easting (X): 611051 Northing (Y): 683241 <b>DATE WELL STARTED:</b> February 1, 2012								
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: February 1, 2012								
WELL USE:	: MONITOR	ING						
Other Use(s)	):				Local ID: N	MON -	- 9	
WELL CON	STRUCTION	1						
Total Depth	Drilled (ft.):	19	Finished We	ell Depth (ft.):	19	Wel	ll Surface: Flush	Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material			/Screen # Used /ch no.)
Borehole	0	19	11					
Casing	0	4	4		PVC			40
Screen	4	19	4	V	wire PVC			.10
	Depth to	Depth to	Outer	Inner	D ( '(11 )	1 37	Material	- TT ( 1)
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in) 4	Bentonite (lbs.) 50	No	eat Cement (lbs.)	Water (gal.) 5
Gravel Pack	2	19	11	4		<b>.</b>	#0 sand	<u> </u>
Grouting Met	thod: Gravity	method		Dri	lling Method: Ho	ollow	Stem Augers	
Grouting Method: Gravity method Drilling Method: Hollow Stem Augers  ADDITIONAL INFORMATION Protective Casing: No Pump Capacity: _ gpm Static Water Level: _7 ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: Mscope Drilling Fluid: Well Development Period: _1 hrs. Drill Rig: Mobile B-59 Method of Development: Whale pump Health and Safety Plan Submitted? Yes  ATTACHMENTS:								
GEOLOGIC								
	OT - Other Fill		1 1 1 1					
	• •		vel-sand-silt mix					
			inginiy organic so	0115				
ADDITION	AL INFORMA	ATION:						
	Willian	n R Petley,						

Company: SGS NORTH AMERICA INC.

Driller of Record: MONITORING LICENSE # 545487

Well Permit Number **E201201539** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY									
Company/Org	ganization: <u>Je</u>	ersey City Rede	evelopment Age	ncy					
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	ew Jersey 0730	)2				
WELL LOC	ATION: Sit	e 114							
	30 Garfield Av								
			Iamaaa Cita		I of: 2 A	Dlade 200	26.1		
County. Hu	uson	_ wrumcipanty	y. Jersey City		_ LOI	Block: 202	20.1		
Easting (X): 611051 Northing (Y): 683241					DAT	E WELL			
Coordinate System: NJ State Plane (NAD83) - USFEET				EET		SIONED: April 5, 201	3		
WELL USE:	MONITOR	ING							
Other Use(s): Local ID: MON - 9									
Reason for Decommissioning: Site Excavated/Demolished									
Finished Well Depth (ft.): 19 Was a New Well Drilled? N									
Formation Type: Unconsolidated New Well Permit Number:									
WELL DECOMMISSIONING INFORMATION									
	Depth to	Depth to	Diameter		Material		/Screen # Used		
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)		
Casing	0	4	4		PVC	So	ch 40		
Screen	4	19	4		PVC		010		
MATERIAL	S USED	<b>,</b>							
	Depth to	Depth to	Outer	Inner		Material			
C 4	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)		
Grout Sand/Gravel	0	19	4	0	10	188	12		
	AL INFORMA	ATION							
					Authorization Offic	ial:			
						per:			
						ate:			
					Authorization D	<u> </u>			
ATTACHME	ENTS:								

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201201532** 

### **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, JOURNEY	YMAN LICENSE # 0021243							
Permit Issued to: SGS NORTH AMERICA INC.								
Company Address: PO BOX 423 WEST CREEK, NJ (	Company Address: PO BOX 423 WEST CREEK, NJ 08092							
PROPERTY OWNER								
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	7							
Organization: jersey City Redevelopment Agency								
Address: 30 Montgomery Street Suite 900								
City: Jersey City State: New Jerse	zip Code: <u>07302</u>							
PROPOSED WELL LOCATION								
Facility Name: Site 114								
Address: 880 Garfield Ave								
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1							
Easting (X): 611117 Northing (Y): 683358  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: MON -10							
SITE CHARACTERISTICS								
SITE CHARACTERISTICS								
SITE CHARACTERISTICS								
PROPOSED CONSTRUCTION								
	Other Use(s):							
PROPOSED CONSTRUCTION  WELL USE: MONITORING	Regulatory Program							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0	Regulatory Program Requiring Wells/Borings: Owner Investigation							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							

Approved by the authority of:

**Approval Date:** February 1, 2012

**Expiration Date:** January 31, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201201532

#### 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. [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. 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]

Well Permit Number **E201201532** 

# MONITORING WELL RECORD

PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT A	GENCY			
Company/Organization: jersey City Redevelopment Agency								
			00 Jersey City, N		302			
	ATION: Site							
Address: 880 Garfield Ave								
	dson		v: Jersev City		Lot: 2.A	Block: 20	26.1	
			(Y): <u>683358</u>			TARTED: January 24,		
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: January 24, 2012								
WELL USE:	MONITOR	ING						
Other Use(s): Local ID: MON -10								
WELL CON	STRUCTION	I						
Total Depth Drilled (ft.): 16 Finished Well Depth (ft.): 16 Well Surface: Flush Mount						h Mount		
	Depth to	Depth to	Diameter		Material	Wet/Ratin	g/Screen # Used	
_	Top (ft.)	Bottom (ft.)	(inches)				s/ch no.)	
Borehole	0	16	11					
Casing	0	6	4		PVC	5	sch 40	
Screen	6	16	4		pvc		.010	
	Depth to	Depth to	Outer	Inner	D (11 )	Material	W-1 (1)	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in 4	Bentonite (lbs.)	Neat Cement (lbs.) 201	Water (gal.)	
Gravel Pack	4	16	11	4		#0	- ,	
Grouting Met	hod: Pressur	e method (Trer	mie Pipe)	D:	rilling Method: Holl	low Stem Augers		
<b>ADDITION</b>	AL INFORMA	ATION						
Protective Ca		1 1 1 0			imp Capacity: _ gpm			
	Level: <u>3</u> ft. be Measure Tool:	elow land surfa	ce		otal Design Head: _ ft rilling Fluid:	i.		
	ment Period:				rill Rig: cme 1050			
	evelopment: <u>pu</u>	<u>ımp</u>		H	ealth and Safety Plan	Submitted? Yes		
Pump Type:								
ATTACHM								
GEOLOGIC		ls, gravel-sand	gilt mixtures					
			silty clays of lo	w plasticity				
		ls, gravel-sand		··· prastretty				
			d-silt mixtures					
14 - 16: red C	3M - Silty grav	els, gravel-san	d-silt mixtures					
ADDITION	AL INFORMA	ATION:						
	Jeff Ra	iusa,						

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number **E201201532** 

# WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: 1	N/A JERSEY C	CITY REDEVE	LOPMENT AG	ENCY		
Company/Org	ganization: Je	ersey City Rede	evelopment Ager	ncy			
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2		
WELL LOC	ATION: Site	e 114					
	30 Garfield Av						
<del></del>			T. C'		T	D1 1 20	26.1
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 2,A	Block: 20	26.1
Easting (X): 611117 Northing (Y): 683358					DAT	E WELL	
Coordin	nate System: N	IJ State Plane (	NAD83) - USFI	EET		SIONED: March 15, 2	2013
WELL USE:	MONITOR	ING					
Other Use(s):         Local ID:         MON -10							
Reason for Decommissioning: Site Excavated/Demolished							
Finished Well Depth (ft.): 16 Was a New Well Drilled? N							
Formation Type: _Unconsolidated New Well Permit Number:							
WELL DECOMMISSIONING INFORMATION							
	Depth to	Depth to	Diameter		Material	· ·	/Screen # Used
- · · ·	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)
Borehole	0	16	11		DIVC	G	1.40
Casing	6	6	4		PVC PVC		ch 40
Screen		10	4		PVC		.010
MATERIAL		Depth to	Outer	Inner		Matarial	
	Depth to Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)
Grout	0	16	4	0	7	156	10
Sand/Gravel							
ADDITIONA	AL INFORMA	ATION					
Obstructions:	No				Authorization Offic	ial:	
Obstruction T	ype:						
		od? No		Authorization Date:			
Method Used							

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201201533** 

### **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, JOURNEY	YMAN LICENSE # 0021243							
Permit Issued to: SGS NORTH AMERICA INC.	t Issued to: SGS NORTH AMERICA INC.							
Company Address: PO BOX 423 WEST CREEK, NJ (	Company Address: PO BOX 423 WEST CREEK, NJ 08092							
PROPERTY OWNER								
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Organization: jersey City Redevelopment Agency								
Address: 30 Montgomery Street Suite 900								
City: Jersey City State: New Jerse	zip Code: <u>07302</u>							
PROPOSED WELL LOCATION	PROPOSED WELL LOCATION							
Facility Name: Site 114								
Address: 880 Garfield Ave								
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1							
Easting (X): 611151 Northing (Y): 683458 Local ID: MON - 11  Coordinate System: NJ State Plane (NAD83) - USFEET								
SITE CHARACTERISTICS								
SITE CHARACTERISTICS								
SHE CHARACTERISTICS								
PROPOSED CONSTRUCTION								
	Other Use(s):							
PROPOSED CONSTRUCTION  WELL USE: MONITORING	Regulatory Program							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0	Regulatory Program Requiring Wells/Borings: Owner Investigation							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							

Approved by the authority of:

**Approval Date:** February 1, 2012

Expiration Date: January 31, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201201533

#### **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. [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. 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]

Well Permit Number **E201201533** 

# **MONITORING WELL RECORD**

Company/Organization: jersey City Redevelopment Agency  Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302  WELL LOCATION: Site 114  Address: 880 Garfield Ave  County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1  Easting (X): 611151 Northing (Y): 683458 DATE WELL STARTED: January 20, 2012  Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: January 20, 2012  WELL USE: MONITORING  Other Use(s): Local ID: MON - 11	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
WELL LOCATION: Site 114  Address: 880 Garfield Ave  County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1  Easting (X): 611151 Northing (Y): 683458 DATE WELL STARTED: January 20, 2012  Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: January 20, 2012  WELL USE: MONITORING								
Address: 880 Garfield Ave  County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1  Easting (X): 611151 Northing (Y): 683458 DATE WELL STARTED: January 20, 2012  Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: January 20, 2012  WELL USE: MONITORING	Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	View Jersey 073	02		
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1  Easting (X): 611151 Northing (Y): 683458 DATE WELL STARTED: January 20, 2012  Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: January 20, 2012  WELL USE: MONITORING								
Easting (X): 611151 Northing (Y): 683458 DATE WELL STARTED: January 20, 2012 Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: January 20, 2012 WELL USE: MONITORING	Address: 88	30 Garfield Av	e					
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: January 20, 2012  WELL USE: MONITORING	County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 2.A	Block: 20	26.1
WELL USE: MONITORING	Easting (X):	611151	Northing	(Y): 683458		DATE WELL ST	TARTED: January 20,	2012
	Coordii	nate System: N	IJ State Plane (	NAD83) - USF	EET <b>D</b>	ATE WELL COMI	PLETED: January 20,	2012
	WELL USE:	MONITOR	ING					
Other Oscisi.						Local ID: MO	ON - 11	
WELL CONSTRUCTION								
Total Depth Drilled (ft.): 16 Finished Well Depth (ft.): 16 Well Surface: Flush Mount	Total Depth	Drilled (ft.):	16	Finished We	ell Depth (ft.):	16	Well Surface: Flus	h Mount
Depth to Depth to Diameter Material Wgt/Rating/Screen # Used	<u>.</u>				• \ / _	_		
Top (ft.) Bottom (ft.) (inches) Waterial Waterial Wg Rating/Screen # Osed		1				Material	Č ,	
Borehole 0 16 11	Borehole	0	16	11				
Casing         0         6         4         PVC         sch 40		,				PVC		
Screen         6         16         4         pvc         .010	Screen	6	16	4		pvc		.010
Depth to Depth to Outer Inner Material								
Top (ft.) Bottom (ft.) Diameter (in.) Diameter (in) Bentonite (lbs.) Neat Cement (lbs.) Water (gal.)	Carret	. , ,		` ′	` ′		\ /	
Grout         0         4         11         4         11         201         17           Gravel Pack         4         16         11         4         #0		-				11		1 /
Grouting Method: Pressure method (Tremie Pipe)  Drilling Method: Hollow Stem Augers			l			illing Method: Holl		
	_			ine i ipe)		ming wethod	low Stelli Augers	
ADDITIONAL INFORMATION Protective Casing: Yes Pump Capacity: _ gpm			ATION		Pu	mp Capacity: gpm		
Static Water Level: 3 ft. below land surface Total Design Head: _ ft.	Static Water l	Level: 3 ft. be		ce	То	tal Design Head: _ ft	i.	
Water Level Measure Tool: m scope  Drilling Fluid:								
Well Development Period: 1 hrs. Drill Rig: cme 1050  Method of Development: pump Health and Safety Plan Submitted? Yes							Submitted? Vec	
Pump Type:					110	and Safety I fair	Submitted: 1cs	
ATTACHMENTS:								
GEOLOGIC LOG	GEOLOGIC	LOG						
0 - 5: grey GM - Silty gravels, gravel-sand-silt mixtures			ls, gravel-sand	-silt mixtures				
5 - 10: black OL - Organic silts and organic silty clays of low plasticity		-	-		ow plasticity			
10 - 12: red GM - Silty gravels, gravel-sand-silt mixtures		, ,	, 0					
12 - 14: red GM - Silty gravels, gravel-sand-silt mixtures								
14 - 16: red GM - Silty gravels, gravel-sand-silt mixtures	14 - 16: red C	iM - Silty grav	els, gravel-san	d-silt mixtures				
ADDITIONAL INFORMATION:	ADDITIONA	AL INFORMA	ATION:					
Leff Rausa		1.00 D						

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number **E201201533** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Organization: Jersey City Redevelopment Agency								
Address: _30 Montgomery Street Suite 900 Jersey City, New Jersey 07302								
WELL LOCATION: Site 114								
Address: 880 Garfield Ave								
County: Hudson Municipality: Jersey City					Lot: 2.A Block: 2026.1			
Easting (X): 611151 Northing (Y): 683458					DATE WELL			
Coordin	nate System: N	JJ State Plane (	NAD83) - USFI	EET	DECOMMISSIONED: February 15, 2013			
WELL USE: MONITORING								
Other Use(s): Local ID: MON - 11								
Reason for Decommissioning: Site Excavated/Demolished								
Finished Well Depth (ft.): 16 Was a New Well Drilled? N								
Formation Type: Unconsolidated New Well Permit Number:								
WELL DECOMMISSIONING INFORMATION								
	Depth to Depth to Diameter			Material			Wgt/Rating/Screen # Used	
	Top (ft.)	Bottom (ft.)	(inches)			(lbs/	(lbs/ch no.)	
Borehole	0	16	11	DVC C.1.40				
Casing	0	6	4	PVC			Sch 40	
Screen	6	16	4		PVC .010			
MATERIALS USED								
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	(in) Bentonite (lbs.) Neat Cement (lbs.) Water (gal.)		Water (gel)	
Grout	0	16	4	0	8	175	11	
Sand/Gravel				Ü	0	170		
ADDITIONAL INFORMATION								
Obstructions: No Authorization Official:								
Obstruction Type:					Authorization Number:			
Alternative Decomm. Method? No				Authorization Date:				
Method Used								
ATTACHMENTS:								

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201201544** 

#### **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, JOURNEY	YMAN LICENSE # 0021243					
Permit Issued to: SGS NORTH AMERICA INC.						
Company Address: PO BOX 423 WEST CREEK, NJ 08092						
PROPERTY OWNER						
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	<i>I</i>					
Organization: jersey City Redevelopment Agency						
Address: 30 Montgomery Street Suite 900						
City: Jersey City State: New Jerse	ey Zip Code: <u>07302</u>					
PROPOSED WELL LOCATION						
Facility Name: Site 114						
Address: 880 Garfield Ave Address & lot verified by tax map	Wes Ei					
County: Hudson Municipality: Jersey City	Lot: 4A Block: 2026.1					
Easting (X): 611178 Northing (Y): 683512  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: MON - 17					
SITE CHARACTERISTICS						
PROPOSED CONSTRUCTION						
	Other Use(s):					
PROPOSED CONSTRUCTION  WELL USE: MONITORING	Regulatory Program					
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation					
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:					
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation					
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:					
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:					
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:					
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:					
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:					

Approved by the authority of:

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201201544

#### 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. [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. 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]

Well Permit Number **E201201544** 

## MONITORING WELL RECORD

PROPERTY	OWNER : 1	N/A IERSEY	CITY REDEVE	LOPMENT AC	GENCY		
			evelopment Age		JENC I		
			00 Jersey City, N		n2		
			o sersey erry, r	New Jersey 075	02		
	ATION: Sit						
Address: 88	30 Garfield Av	e Address & lo	ot verified by tax	map Wes Ei			
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 4A	Block: 20	26.1
Easting (X):	611178	Northing	(Y): 683512		DATE WELL ST	<b>FARTED:</b> February 3,	2012
			NAD83) - USFI		ATE WELL COMI	PLETED: February 3,	2012
WELL USE:	: MONITOR	ING					
					Local ID: MC	ON - 17	
WELL CON	STRUCTION	J					
	Drilled (ft.):		Finished We	ell Denth (ft )	40	Well Surface: Flusl	h Mount
rotar Beptin	· · <u>—</u>				_		
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	40	11			,	
Casing	0	30	4		PVC		ch 40
Screen	30	40	4		pvc		.010
	Depth to	Depth to	Outer	Inner		Material	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.) 78	Neat Cement (lbs.) 1409	Water (gal.) 120
Gravel Pack	28	40	11	4	78	#0	120
		e method (Trei	mie Pipe)	Dri	lling Method: Holl	ow Stem Augers	
•	AL INFORMA	,	1 /		<u> </u>		
Protective Ca	sing: Yes			Pui	mp Capacity: _ gpm		
		elow land surfa	ce		tal Design Head: _ ft		
	Measure Tool: oment Period: _				lling Fluid: Il Rig: <u>cme 1050</u>		
	evelopment: <u>p</u> u				alth and Safety Plan	Submitted? Yes	
	<u> </u>					<u> </u>	
<b>ATTACHM</b>	ENTS:						
GEOLOGIC	LOG						
0 - 8: black O							
	OT - Other fill						
			highly organic s d-silt mixtures	SOIIS			
	, ,	, 0					
	35 - 40: red GM - Silty gravels, gravel-sand-silt mixtures						
ADDITION	AL INFORMA	ATION:					
	Jeff Ra	11188					

Company: SGS NORTH AMERICA INC.

Driller of Record: <u>JOURNEYMAN</u> LICENSE # 0020129

Well Permit Number
F201201544

# WELL DECOMMISSIONING REPORT

PROPERTY	OWNER:	N/A JERSEY (	CITY REDEVE	LOPMENT AG	ENCY		
Company/Org	ganization: Je	ersey City Rede	evelopment Age	ncy			
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	lew Jersey 0730	)2		
WELL LOC	ATION: Sit	a 11/1	•				
			4iC - d b 4	was Was Ei			
			t verified by tax	•	T 4 44	DI 1 200	
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 4A	Block: 202	26.1
			(Y): <u>683512</u> NAD83) - USFI	EET		TE WELL SIONED: July 6, 2012	
WELL USE:	: RECOVER	Y					
Other Use(s)	) <b>:</b>				Local ID: MO	ON - 17	
Reason for D	ecommissionii	ng: Site Exca	vated/Demolishe	ed			
Finished Wel	l Depth (ft.):	40		W	as a New Well Dri	lled? N	
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nu	mber:	
WELL DEC	OMMISSION	NING INFORM	MATION				
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		/Screen # Used /ch no.)
Borehole	0	40	8				
Casing	0	30	4		PVC		ch 40
Screen	30	40	4		pvc		020
MATERIAL							
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)
Grout	0	40	4	0	30	376	29
Sand/Gravel							
ADDITION	AL INFORM	ATION					
Obstructions:	No				Authorization Offic	eial:	
Obstruction 7	Гуре:				Authorization Num	ber:	
Alternative Decomm. Method? No Authorization Date:							
Method Used	l						
ATTACHME							

Thomas L Hanley
JOURNEYMAN
Sealing Driller: LICENSE # 0001181

SGS NORTH AMERICA INC.
PO BOX 423
West Creek (Ocean), NJ 08092

Papart Page 1 of 1

Well Permit Number **E201201534** 

#### **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, JOURNEY	MAN LICENSE # 0021243					
Permit Issued to: SGS NORTH AMERICA INC.	mit 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						
Organization: jersey City Redevelopment Agency						
Address: 30 Montgomery Street Suite 900						
City: Jersey City State: New Jerse	zip Code: <u>07302</u>					
PROPOSED WELL LOCATION Facility Name: Site 114						
Address: 880 Garfield Ave						
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1					
Easting (X): 611036 Northing (Y): 683124  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID:MON - 24					
SITE CHARACTERISTICS						
PROPOSED CONSTRUCTION						
WELL USE: MONITORING	Other Use(s):					
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation					
Depth (ft.):40	Case ID Number:					
Pump Capacity (gpm): 0	Deviation Requested: N					
Drilling Method: Hollow Stem Augers						
Attachments:						
SPECIFIC CONDITIONS/REQUIREMENTS						

Approved by the authority of:

**Approval Date:** February 1, 2012

Expiration Date: January 31, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201201534

#### 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. [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. 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]

Well Permit Number **E201201534** 

## **MONITORING WELL RECORD**

Company/Organization: jersey City Redevelopment Agency						
Company organization. Jordey City Redevelophical Agency						
Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302						
WELL LOCATION: Site 114						
Address: 880 Garfield Ave						
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1						
Easting (X): 611036 Northing (Y): 683124 <b>DATE WELL STARTED:</b> February 28, 2012						
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: February 28, 2012						
WELL USE: MONITORING						
Other Use(s): Local ID: MON - 24						
WELL CONSTRUCTION						
Total Depth Drilled (ft.): 14 Finished Well Depth (ft.): 14 Well Surface: Flush Mount						
Depth to Diameter Material Wgt/Rating/Screen # Use	d					
Top (ft.) Bottom (ft.) (inches) (lbs/ch no.)						
Borehole 0 14 11						
Casing 0 4 4 PVC sch 40						
Screen         4         14         4         pvc         .020						
Depth to Depth to Outer Inner Material Top (ft.) Bottom (ft.) Diameter (in.) Diameter (in) Bentonite (lbs.) Neat Cement (lbs.) Water (g	.1 \					
Top (ft.) Bottom (ft.) Diameter (in.) Diameter (in) Bentonite (lbs.) Neat Cement (lbs.) Water (grout 0 2 11 4 6 101 9	11.)					
Gravel Pack 2 14 11 4 #0						
Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers						
ADDITIONAL INFORMATION						
Protective Casing: Yes  Static Water Level: 3 ft. below land surface  Pump Capacity: _ gpm  Total Design Head: _ ft.						
Water Level Measure Tool: m scope Drilling Fluid:						
Well Development Period: 1 hrs.  Drill Rig: cme 1050						
Method of Development: <u>pump</u> Pump Type:  Health and Safety Plan Submitted? <u>Yes</u>						
ATTACHMENTS:						
GEOLOGIC LOG						
0 - 5: grey GM - Silty gravels, gravel-sand-silt mixtures						
5 - 8: black OL - Organic silts and organic silty clays of low plasticity						
8 - 11: black OL - Organic silts and organic silty clays of low plasticity						
11 - 13: red GM - Silty gravels, gravel-sand-silt mixtures						
13 - 14: red GM - Silty gravels, gravel-sand-silt mixtures	13 - 14: red GM - Silty gravels, gravel-sand-silt mixtures					
ADDITIONAL INFORMATION:						
Leff Rausa						

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number **E201201534** 

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER:	N/A JERSEY C	CITY REDEVE	LOPMENT AG	ENCY			
Company/Organization: Je	Company/Organization: Jersey City Redevelopment Agency						
Address: 30 Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2			
·		•	•				
WELL LOCATION: Sit							
Address: 880 Garfield Av							
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1							
Easting (X): 611036	Northing	(Y): 683124		DAT			
Coordinate System: N					E WELL SIONED: May 21, 201	4	
WELL USE: MONITOR	ING				· · · · · · · · · · · · · · · · · ·		
				Local ID: MC	ON - 24		
Reason for Decommissioning							
Finished Well Depth (ft.):	14		W	as a New Well Dril	led? N		
Formation Type: Unconsc	olidated		Ne	ew Well Permit Nun	nber:		
WELL DECOMMISSION	NING INFORM	MATION					
Depth to	Depth to	Diameter		Material		/Screen # Used	
Top (ft.) Borehole	Bottom (ft.)	(inches)			(lbs/	ch no.)	
Casing 0	4	4		PVC	Sc	ch 40	
Screen 4	14	4		PVC		020	
MATERIALS USED							
Depth to	Depth to	Outer	Inner		Material		
Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout 0	14	4	0	8	141	12	
Sand/Gravel							
ADDITIONAL INFORM	ATION						
					ial:		
Obstruction Type: Authorization Number:							
Alternative Decomm. Meth	Alternative Decomm. Method? No Authorization Date:						
Method Used							
ATTACHMENTS:							

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092



Well Permit Number E201201463

#### **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, JOURNE	EYMAN LICENSE # 0021243	
Permit Issued to: SGS NORTH AMERICA INC.		
Company Address: PO BOX 423 WEST CREEK, NJ	08092	
PROPERTY OWNER		
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	CY	
Organization: Jersey City Redevelopment Agency		
Address: 30 Montgomery Street Suite 900		
City: Jersey City State: New Jers	rsey Zip Code: 07302	
PROPOSED WELL LOCATION		
Facility Name: Site 114		
Address: 900 Garfield Avenue Address Verified Wes Eichfeld	ld	
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A	
Easting (X): 611294 Northing (Y): 683767  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: MON-31	
SITE CHARACTERISTICS		
PROPOSED CONSTRUCTION		
WELL USE: MONITORING	Other Use(s):	_
	Regulatory Program	
Diameter (in.): 4	Requiring Wells/Borings:	
Depth (ft.): 40  Pump Capacity (gpm): 0	Case ID Number:	
Duilling Methods - Hellow Stom Augus	Deviation Requested: N	_
		_
Attachments:		
SPECIFIC CONDITIONS/REQUIREMENTS		

Approved by the authority of:

**Bob Martin** 

Approval Date: February 2, 2012

**Expiration Date:** February 1, 2013

Commissioner

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

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

Well Permit Number E201201463

#### 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]

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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]

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

Well Permit Number **E201201463** 

# MONITORING WELL RECORD

			WIOTITY	OMING WE	LE RECORD		
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT AC	BENCY		
Company/Org	ganization: Je	ersey City Rede	evelopment Age	ncy			
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	lew Jersey 073	02		
WELL LOC	ATION: Site	e 114					
			Verified Wes Ei	chfeld			
County: Hu	dson	Municipality	y: Jersey City		Lot: 1	Block: 20	26.A
			(Y): <u>683767</u> NAD83) - USFI			FARTED: February 7,	
	<u> </u>		1411003) 0011	D.	ATE WELL COM	PLETED: February 7,	, 2012
Other Use(s)	: MONITOR				Local ID: MC	)N-31	
					Local ID. 1110	711 31	
	STRUCTION		Fig. 1.1 4 W.	11 D 41- (0.)	40	W-11 C C	1. N
I otal Depth	Drilled (ft.):			ell Depth (ft.):		Well Surface: Flus	
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	40	11				
Casing	0	30	4		PVC		sch 40
Screen	30	40	4		pvc		.010
	Depth to	Depth to	Outer	Inner	Dantanita (II.a.)	Material	W/-1 (1)
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in) 4	Bentonite (lbs.) 78	Neat Cement (lbs.) 1409	Water (gal.) 120
Gravel Pack	28	40	11	4	70	#0	120
Grouting Met	thod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: Holl	ow Stem Augers	
Protective Ca Static Water I Water Level I Well Develop	Grouting Method: Pressure method (Tremie Pipe)  ADDITIONAL INFORMATION  Protective Casing: Yes Pump Capacity: _gpm Static Water Level: _3 ft. below land surface Total Design Head: _ft.  Water Level Measure Tool: m scope Drilling Fluid: Well Development Period: _1 hrs. Drill Rig: _cme 1050 Method of Development: _pump Health and Safety Plan Submitted? Yes						
ATTACHM	ENTS:						
GEOLOGIC							
Ü	, .	els, gravel-san					
			nic silty clays of	low plasticity			
		els, gravel-san		returnos little on	no finas		
	_	_	l gravel-sand mi gravelly sands, li		no imes		
			suverily surius, ii				
ADDITIONA	AL INFORMA	ATION:					
	Jeff Ra	iusa,					

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number
F201201463

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Org	ganization: Je	ersey City Rede	evelopment Age	ncy				
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	lew Jersey 0730	)2			
WELLLOC	ATION: CH	- 114	<u> </u>	·				
	ATION: Sit							
Address: 900 Garfield Avenue Address Verified Wes Eichfeld								
County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A								
Easting (X):	611294	Northing	(Y): 683767		DAT	712 XX/121 I		
·			NAD83) - USFI	EET		TE WELL SIONED: May 11, 20	13	
WELL USE:	MONITOR	ING						
					Local ID: MO	ON-31		
			vated/Demolishe					
Finished Wel	l Depth (ft.): _	40		V	Vas a New Well Dri	lled? N		
Formation Ty	pe: Unconso	lidated		N	ew Well Permit Nur	mber:		
WELL DEC	OMMISSION	NING INFORM	MATION					
Depth to Depth to Diameter			Material			Wgt/Rating/Screen # Used		
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)	
Casing	0	30	4		PVC	S	ch 40	
Screen	30	40	4		PVC		.020	
MATERIAL	SUSED		·					
MATERIAL	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	40	4	0	30	330	25	
Sand/Gravel	A L DVEODA	ATTION						
	AL INFORMA							
						eial:		
					Authorization Numl	ber:		
Alternative D	ecomm. Metho	od? No			Authorization D	ate:		
Method Used								
ATTACHMENTS:								

Thomas L Hanley
JOURNEYMAN
Sealing Driller: LICENSE # 0001181

SGS NORTH AMERICA INC.
PO BOX 423
West Creek (Ocean), NJ 08092

Well Permit Number **E201200584** 

#### 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, JOURNEY	MAN LICENSE # 0021243								
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.								
Company Address: PO BOX 423 WEST CREEK, NJ 0	Company Address: PO BOX 423 WEST CREEK, NJ 08092								
PROPERTY OWNER									
Name: N/A 900 GARFIELD AVE . LLC									
Organization: 900 Garfield Ave . LLC									
Address: 1735 Market St #A-400									
City: Philadelphia State: Pennsylva	niia Zip Code: 19103								
PROPOSED WELL LOCATION									
Facility Name: Site 114									
Address: 900 Garfield Ave.									
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A								
Easting (X): 611281 Northing (Y): 683760  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: REL - 10								
SITE CHARACTERISTICS	<del></del>								
PROPOSED CONSTRUCTION									
WELL USE: RECOVERY	Other Use(s):								
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation								
Depth (ft.):40	Case ID Number:								
Pump Capacity (gpm): 1	Deviation Requested: N								
Drilling Method: Hollow Stem Augers									
Attachments:									
SPECIFIC CONDITIONS/REQUIREMENTS									

Approved by the authority of:

Approval Date: January 13, 2012

Expiration Date: January 12, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200584

#### 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. [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. 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]

Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201200584

# **MONITORING WELL RECORD**

PROPERTY	OWNER: 1	N/A 900 GAR	FIELD AVE . L	LC			
Company/Org	ganization: 90	00 Garfield Av	e . LLC				
Address: 17	735 Market St	#A-400 Philade	elphia, Pennsylv	vania 19103			
WELL LOC	ATION: Sit	e 114					
Address: 90	00 Garfield Av	e.					
County: Hu	dson	Municipality	y: Jersey City		_ Lot:_ 1	Block: _202	26.A
Easting (X):	611254	Northing	(Y): <u>683706</u>		DATE WELL ST	TARTED: February 6,	2012
			NAD83) - USFI			PLETED: February 6,	
WELL USE:	RECOVER	Y					
Other Use(s)	:				Local ID: RE	L - 10	
WELL CON	STRUCTION	J					
		21	Finished We	ell Depth (ft.):	17	Well Surface: Flush	n Mount
	Depth to	Depth to	Diameter		Material	Wgt/Rating	/Screen # Used
	Top (ft.)	Bottom (ft.)	`			(lbs.	/ch no.)
Borehole	0	21	11	C-1			204
Casing Screen	0 14	14 17	1.5		vanized Steel ainless steel		.10
Sciccii					I IIIICSS SECT		.10
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)
Grout	0.5	12	11	1.5	35	200	15
Gravel Pack	12	17	11	4		#0 sand	
Gravel Pack	17	21	11	0		#0 sand	
Grouting Met	hod: Gravity	method		Dri	Illing Method: Hol	low Stem Augers	
Protective Ca Static Water I Water Level I Well Develop	ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _ gpm Static Water Level: 9 ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: Mscope Drilling Fluid:  Well Development Period: 1 hrs. Drill Rig: Mobile B-59  Method of Development: Whale pump Health and Safety Plan Submitted? Yes						
ATTACHM	ENTS:						
GEOLOGIC							
	OT - Other Fil						
		ty sands, sand-s		goile			
17 - 21: Brown PT - Peat, muck, and other highly organic soils							
ADDITIONA	ADDITIONAL INFORMATION:						
		n R Petley,					
Driller of Red	cord: MONI	FORING LICE	NSE # 545487		Company:	SGS NORTH AMER	RICA INC.

Well Permit Number **E201200584** 

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A 900 GARFIELD AVE LLC									
Company/Org	ganization: 90	00 Garfield Ave	e LLC						
Address: 17	35 Market St	#A 400 Phillad	elphia, Pennsylv	vania 19103					
WELLLOC	ATION. C:	a 114	•						
	ATION: Sit								
	00 Garfield Av								
County: Hu	County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A								
Easting (X):	611254	Northing	(Y): <u>683706</u>		БАТ	E WELL			
			NAD83) - USFI			SIONED: June 12, 201	.3		
WELL USE:	RECOVER	Y				· · · · · · · · · · · · · · · · · · ·			
					Local ID: RE	L - 10			
			vated/Demolishe		<u> </u>				
	l Depth (ft.):				/as a New Well Dril	led? N			
	pe: Unconso					nber:			
·	-	NING INFORM	MATION		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
WEEL DEC	Depth to	Depth to	Diameter		Material	Wgt/Rating/	/Screen # Used		
	Top (ft.)	Bottom (ft.)	(inches)				ch no.)		
Borehole									
Casing	0	14	1.5		Steel	Sc	ch 40		
Screen	14	17	4	Sta	inless Steel		010		
MATERIAL	S USED								
	Depth to	Depth to	Outer	Inner					
Con t	Top (ft.)	Bottom (ft.)		Diameter (in)	` /	Neat Cement (lbs.)	Water (gal.)		
Grout Sand/Gravel	U	17	1.5	0	5	141	12		
<u>u</u>	AL INFORMA	ATION							
Obstructions:					Authorization Offic	ial:			
						per:			
Obstruction Type:									
	Alternative Decomm. Method? No Authorization Date:  Method Used								
ATTACHME	ENTS:								

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201200585** 

#### **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, JOURNEY	er: WESLEY M EICHFELD, JOURNEYMAN LICENSE # 0021243								
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.								
Company Address: PO BOX 423 WEST CREEK, NJ (	ess: PO BOX 423 WEST CREEK, NJ 08092								
PROPERTY OWNER									
Name: N/A 900 GARFIELD AVE . LLC									
Organization: 900 Garfield Ave . LLC									
Address: 1735 Market St #A-400									
City: Philadelphia State: Pennsylva	Zip Code: 19103								
PROPOSED WELL LOCATION									
Facility Name: Site 114									
Address: 900 Garfield Ave.									
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A								
Easting (X): 611308 Northing (Y): 683759	Local ID: REL - 11								
Coordinate System: NJ State Plane (NAD83) - USFEET									
SITE CHARACTERISTICS									
PROPOSED CONSTRUCTION									
PROPOSED CONSTRUCTION  WELL USE: RECOVERY	Other Use(s):								
WELL USE: RECOVERY	Regulatory Program								
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation								
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:								
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation								
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:								
WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:								
WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:								
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:								
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:								

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200585

#### **WELL PERMIT**

<b>DEVIATION INFORMATION</b>	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. 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]

Well Permit Number E201200585

# MONITORING WELL RECORD

			FIELD AVE . L	LC				
		00 Garfield Av						
Address: 17	735 Market St	#A-400 Philade	elphia, Pennsylv	vania 19103				
	ATION: Sit							
	00 Garfield Av							
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 1	Block: 20	26.A	
Easting (X):	611308	Northing	(Y): <u>683759</u>		DATE WELL ST	TARTED: February 7	, 2012	
Coordin	nate System: N	IJ State Plane (	NAD83) - USFI	EET <b>D</b> A	ATE WELL COM	PLETED: February 7	, 2012	
WELL USE:	RECOVER	Y						
Other Use(s)	<b>:</b>				Local ID: RE	L - 11		
WELL CON	STRUCTION	1						
Total Depth	Drilled (ft.):	21	Finished We	ell Depth (ft.):	16	Well Surface: Flus	h Mount	
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)	
Borehole	0	21	11			(10	5/011 110.)	
Casing	0	13	1.5	Galv	vanized Steel		40	
Screen	13	16	4	Sta	inless steel		.10	
	Depth to Depth to Outer Inner Material							
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′		Neat Cement (lbs.)	Water (gal.)	
Grout Deals	0	11	11	1.5	50	100	10	
Gravel Pack Gravel Pack	11 16	16 21	11 11	0		#0 sand #0 sand		
				-	lling Method: Holl			
Grouting Method: Pressure method (Tremie Pipe)  ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _ gpm Static Water Level: _7 ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: Mscope Drilling Fluid: Well Development Period: _1 hrs. Drill Rig: Mobile B-59 Method of Development: Whale pump Health and Safety Plan Submitted? Yes  Pump Type:								
ATTACHMI								
0 - 5: Brown	C <b>LOG</b> OT - Other Fil	1						
		ty sands, sand-s	silt mixtures					
19 - 21: Brow	n PT - Peat, m	nuck, and other	highly organic	soils				
ADDITIONAL INFORMATION:								
Dell on		n R Petley,	NGC # 545407			GOG NORTH AND	DICA INC	
Driller of Rec	cord: MONI	FORING LICE	NSE # 545487		Company:	SGS NORTH AME	RICA INC.	

Well Permit Number **E201200585** 

## WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY									
Company/Org	ganization: Je	ersey City Rede	velopment Age	ncy					
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2				
WELLLOC	ATION. CH	a 114	•	•					
	ATION: Sit								
	00 Garfield Av								
County: Hu	County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A								
Easting (X):	611308	Northing	(Y): 683759		БАТ				
			NAD83) - USFI			E WELL SIONED: May 30, 201	.3		
WELL USE:	RECOVER	Y			2200111120	9101( <b>111)</b>			
					Local ID: RE	L - 11			
			vated/Demolishe		Local ID. Italia				
	l Depth (ft.):		vated/Demonsite		Ios o Novy Wall Dril	led? N			
	_								
·	rpe: Unconso			IN 6	ew well Permit Nun	nber:			
WELL DEC	OMMISSION  Depth to	NING INFORM Depth to	MATION Diameter		Material	Wat/Pating	/Screen # Used		
	Top (ft.)	Bottom (ft.)	(inches)		Material		ch no.)		
Borehole	1 ( /	, ,					,		
Casing	0	13	1.5	Galv	anized Steel		40		
Screen	13	16	1.5	Sta	inless Steel		010		
MATERIAL	S USED								
	Depth to	Depth to	Outer	Inner	D (1)	Material			
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.) 94	Water (gal.)		
Sand/Gravel	0	10	1.3	U	3	74	/		
<u>u</u>	AL INFORMA	ATION		1					
Obstructions:	No			1	Authorization Offic	ial:			
Obstructions:       No       Authorization Official:         Obstruction Type:       Authorization Number:									
Alternative Decomm. Method? No						ate:			
Method Used									
ATTACHME									

Keith Butcher SGS NORTH AMERICA INC.
JOURNEYMAN PO BOX 423

Sealing Driller: LICENSE # 203616 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201200586** 

#### **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, JOURNEY	MAN LICENSE # 0021243								
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.								
Company Address: PO BOX 423 WEST CREEK, NJ 0	Company Address: PO BOX 423 WEST CREEK, NJ 08092								
PROPERTY OWNER									
Name: N/A 900 GARFIELD AVE . LLC									
Organization: 900 Garfield Ave . LLC									
Address: 1735 Market St #A-400									
City: Philadelphia State: Pennsylva	nia Zip Code: 19103								
PROPOSED WELL LOCATION									
Facility Name: Site 114									
Address: 900 Garfield Ave.									
County: Hudson Municipality: Jersey City	Lot: 1 Block: _2026.A								
Easting (X): 611343 Northing (Y): 683746  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: REL - 12								
SITE CHARACTERISTICS									
PROPOSED CONSTRUCTION									
WELL USE: RECOVERY	Other Use(s):								
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation								
Depth (ft.): _40	Case ID Number:								
Pump Capacity (gpm): 1	Deviation Requested: N								
Drilling Method: Hollow Stem Augers									
Attachments:									
SPECIFIC CONDITIONS/REQUIREMENTS									

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200586

#### **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. [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. 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]

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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]

Well Permit Number Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831 E201200586

# MONITORING WELL DECODE

MONITORING WELL RECORD							
PROPERTY	PROPERTY OWNER: N/A 900 GARFIELD AVE . LLC						
Company/Org	Company/Organization: 900 Garfield Ave . LLC						
Address: 1735 Market St #A-400 Philadelphia, Pennsylvania 19103							
WELL LOC	WELL LOCATION: Site 114						
Address: 90	00 Garfield Av	e.					
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 1	Block: 20	)26.A
Easting (X):	611343	Northing	(Y): 683746		DATE WELL ST	<b>FARTED:</b> February 2°	7, 2012
Coordii	nate System: N	IJ State Plane (	NAD83) - USFI	EET DA	ATE WELL COM	PLETED: February 2	7, 2012
WELL USE:	RECOVER	Y					
					Local ID: RE	L - 12	
WELL CON	STRUCTION	1					
		16	Finished We	ell Depth (ft.):	16	Well Surface: Flus	h Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	16	10				
Casing	0	13	1.5		Steel		Sch.40
Screen	13	16	4	Sta	inless Steel		.010
	Depth to	Depth to	Outer	Inner		Material	
1	Top (ft.)	Bottom (ft.)	Diameter (in.)	` '		Neat Cement (lbs.)	Water (gal.)
Grout Pools	0 2	13	10 10	1.5	15	50 # 0 Sand	9
Gravel Pack Gravel Pack	13	16	10	1.5		# 0 Sand # 0 Sand	
	hod: Gravity		10		lling Method: Holl		
_	AL INFORMA						
Protective Ca		ATION		Pur	np Capacity: _ gpm		
		elow land surfa	ce		al Design Head: _ ft		
	Measure Tool:				lling Fluid:		
	oment Period:	<u>1 </u> hrs. entrifugal Pum			ll Rig: Mobile B-59	Cubmitted Vec	
Pump Type:	evelopment: <u>C</u>	entriugai Pulli	<u>δ</u>	пеа	alth and Safety Plan	Submitted? 1es	
ATTACHM	ENTS:						
GEOLOGIC	LOG						
			anufacturing De				
15.5 - 16: Bro	15.5 - 16: Brown PT - Peat, muck, and other highly organic soils						
ADDITIONAL INFORMATION:							

Driller of Record: JOURNEYMAN LICENSE # 0013761

William G Petley,

Company: SGS NORTH AMERICA INC.

Well Permit Number **E201200586** 

# WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: _1	N/A 900 GARF	FIELD AVE LL	С				
Company/Organization: 900 Garfield Ave LLC								
Address: 17	35 Market St	#A 400 Phillad	elphia, Pennsylv	vania 19103				
			<i>yy</i>					
WELL LOC	ATION: Sit	e 114						
Address: 900 Garfield Ave.								
County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A								
Easting (X): 611343 Northing (Y): 683746								
			NAD83) - USFI			<b>E WELL</b> SIONED: May 30, 20	13	
WELL USE:	RECOVER	Y						
					Local ID: RE	L - 12		
			vated/Demolishe					
Finished Well	l Depth (ft.):	16		W	/as a New Well Dril	lled? N		
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nur	nber:		
WELL DEC	OMMISSION	NING INFORM	MATION					
	Depth to	Depth to	Diameter		Material		g/Screen # Used	
D 1 . 1 .	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)	
Borehole Casing	0	13	1.5	Goly	vanized Steel		ch 40	
Screen	13	16	1.5		inless Steel		.010	
MATERIAL		10	1.5	Sta	mess Steel		.010	
WIATERIAL	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	16	1.5	0	15	94	7	
Sand/Gravel								
ADDITIONA	AL INFORM	ATION						
Obstructions:	No				Authorization Offic	ial:		
Obstruction Type:					Authorization Numb	oer:		
Alternative Decomm. Method? No					Authorization Da	ate:		
Method Used								
	ATTACHMENTS:							

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201117484** 

#### **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

11 0 0 7	<u> </u>
Certifying Driller: H. ROBERT SEYBOLD, JOURNEY	YMAN LICENSE # 0001348
Permit Issued to: B & B DRILLING INC	
Company Address: BOX 8 RT 206 NETCONG, NJ 07	857
PROPERTY OWNER	
Name: PPG INDUSTRIES, INC.	
Organization: PPG Industries, Inc.	
Address: 4325 Rosanna Drive	
City: Allison Park State: Pennsylva	zip Code: 15101
PROPOSED WELL LOCATION	
Facility Name: PPG Industries	
Address: 900 Garfield Ave.	
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A
Easting (X): 611250 Northing (Y): 683826  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: MW-SAP-1
SITE CHARACTERISTICS	
PROPOSED CONSTRUCTION	
WELL USE: MONITORING	Other Use(s):
WEEL COLUMNICATION OF THE COLU	Regulatory Program
Diameter (in.): 2	Requiring Wells/Borings: NJDEP
Depth (ft.): _20	Case ID Number: <u>G000008791</u> , G000005480
Pump Capacity (gpm): 0	Deviation Requested: N
Drilling Method: Hollow Stem Augers	
Attachments:	
SPECIFIC CONDITIONS/REQUIREMENTS	

Approved by the authority of:

Approval Date: October 26, 2011

Expiration Date: October 25, 2012

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201117484

#### **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]

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

Well Permit Number
F201117484

MONITORING WELL RECORD							
PROPERTY OWNER: PPG INDUSTRIES, INC.							
Company/Org	Company/Organization: PPG Industries, Inc.						
Address: 43	25 Rosanna D	Prive Allison Pa	ark, Pennsylvani	a 15101			
WELL LOC	ATION: PP	G Industries					
Address: 90	0 Garfield Av	e.					
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 1	Block: 20	26.A
			(Y): <u>683912</u>		DATE WELL ST	FARTED: October 29,	2011
Coordin	nate System: N	IJ State Plane (	NAD83) - USFI	EET DA	ATE WELL COMI	PLETED: October 30,	2011
WELL USE:	MONITOR	ING					
Other Use(s)	<b>:</b>				Local ID: M	W-SAP-1	
WELL CON	STRUCTION	<b>N</b>					
Total Depth	Drilled (ft.):	17	Finished We	ell Depth (ft.):	17	Well Surface: Flush	n Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	17	6				7
Casing	0	7	2		PVC	S	SH 40
Screen	7	17	2		PVC	0	.010"
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	, ,		Neat Cement (lbs.)	Water (gal.)
Grout Gravel Pack	5	5 17	6	2 2	0	70   MORIE #1	4
		re method (Tre			lling Method: Holl		
_	AL INFORMA		1 /	<del></del>			
Protective Ca		<u> </u>		Pur	np Capacity: _ gpm		
		below land sur	face		al Design Head: _ ft		
	Measure Tool: oment Period:				lling Fluid: ll Rig: <u>GUS PECH</u>		
	evelopment: A				alth and Safety Plan	Submitted? Yes	
Pump Type:	_				•		
<b>ATTACHM</b>	ENTS:						
GEOLOGIC							
	T - Other BLA		1 11 1				
		. •	nd-silt mixtures				
10 - 17: RED-BRN SM - Silty sands, sand-silt mixtures							
ADDITIONAL INFORMATION:							

Driller of Record: JOURNEYMAN LICENSE # 0014578 Record -- Page 1 of 1

Warren Blewett,

Company: B & B DRILLING INC

Well Permit Number
F201117484

# WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: _1	PPG INDUSTR	RIES, INC. PPG	INDUSTRIES,	, INC.		
Company/Organization: PPG Industries, Inc.							
Address: 43	325 Rosanna D	rive Allison Pa	ırk, Pennsylvani	a 15101			
	ATION: PP						
	00 Garfield Av						
County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A							
Easting (X):	611240	Northing	(Y): 683912		БАТ		
			NAD83) - USFI	EET		'E WELL SIONED: November 2	28, 2012
WELL USE	MONITOR	ING					
Other Use(s)	:				Local ID: MV	W-SAP-1	
Reason for D	ecommissionir	ng: No longer	in use				
Finished Wel	l Depth (ft.):	17		V	Vas a New Well Dril	led? N	
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nur	nber:	
WELL DEC	OMMISSION	NING INFORM	MATION				
	Depth to	Depth to	Diameter	Material Wgt/Rating/Screen # Used			
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(1bs	/ch no.)
Casing	0	7	2		PVC	Si	ch 40
Screen	7	17	2		PVC		.01
MATERIAL	S USED						
	Depth to	Depth to	Outer	Inner		Material	
<u> </u>	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout Sand/Gravel	0	17	2	0	2.5	47	4
	AL INFORMA	ATION					
					Authorization Offic	ial:	
Obstructions: No Authorization Official: Obstruction Type: Authorization Number:							
Alternative Decomm. Method? No				Authorization Date:			
Method Used							
	Method UsedATTACHMENTS:						

Paul Lentz SGS NORTH AMERICA INC.
MONITORING PO BOX 423

Sealing Driller: LICENSE # 545066 Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201117485** 

#### **WELL PERMIT**

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Certifying Driller: H. ROBERT SEYBOLD, JOURNEY	MAN LICENSE # 0001348
Permit Issued to: B & B DRILLING INC	
Company Address: BOX 8 RT 206 NETCONG, NJ 07	857
PROPERTY OWNER	
Name: PPG INDUSTRIES, INC.	
Organization: PPG Industries, Inc.	
Address: 4325 Rosanna Drive	
City: Allison Park State: Pennsylva	nnia Zip Code: 15101
PROPOSED WELL LOCATION	
Facility Name: PPG Industries	
Address: 900 Garfield Ave.	
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A
Easting (X): 611244 Northing (Y): 683817	Local ID: MW-SAP-2
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: NJDEP
Diameter (in.): 2	Case ID Number: G000008791, G000005480
Depth (ft.): 20 Pump Capacity (gpm): 0	Deviation Requested: N
Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers	Deviation Requested. N
Attachments:	
Attachments.	
SPECIFIC CONDITIONS/REQUIREMENTS	
STEET CONTINUE CONTIN	

Approved by the authority of:

Bob Martin Commissioner

Approval Date: October 26, 2011

Expiration Date: October 25, 2012

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

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

Well Permit Number E201117485

#### WELL PERMIT

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

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

Well Permit Number **E201117485** 

# MONITORING WELL RECORD

	MONITORING WELL RECORD						
PROPERTY	PROPERTY OWNER: PPG INDUSTRIES, INC.						
Company/Org	ganization: Pl	PG Industries,	Inc.				
Address: 43	325 Rosanna D	rive Allison Pa	ırk, Pennsylvani	a 15101			
WELL LOC	WELL LOCATION: PPG Industries						
	00 Garfield Av						
			y: Jersey City		Lot: 1	Block: 202	26.A
· ·			(Y): <u>683817</u> NAD83) - USFI			ARTED: October 30,	
			NAD83) - USFI	DE I	ATE WELL COM	PLETED: October 30,	2011
	MONITOR						
Other Use(s)	<b>:</b>				Local ID: MV	V-SAP-2	
WELL CON	STRUCTION	J					
Total Depth	Drilled (ft.):	17	Finished We	ll Depth (ft.):	17	Well Surface: Below	v Grade
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		/Screen # Used /ch no.)
Borehole	0	17	6				
Casing	0	7	2		PVC		H 40
Screen	7	17	2		PVC	0.	010"
	Depth to	Depth to	Outer	Inner		Material	
Canada	Top (ft.)	Bottom (ft.)	Diameter (in.)	`	\ /	Neat Cement (lbs.)	Water (gal.)
Grout Gravel Pack	5	5 17	6	2 2	0	70 MORIE #1	4
		e method (Tre			lling Method: Holl		
_			<b>.</b> (140)		g 111 <b>0</b> 1110 <b>1</b> 11	0 W 200 M 1 10 B 0 10	
ADDITIONAL INFORMATION  Protective Casing: Yes Pump Capacity: _ gpm  Static Water Level: 8.7 ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: M-SCOPE Drilling Fluid:  Well Development Period: 1 hrs. Drill Rig: GUS PECH  Method of Development: AIR LIFT Health and Safety Plan Submitted? Yes  Pump Type:							
<b>ATTACHM</b>	ENTS:						
GEOLOGIC							
0 - 17: GRAY GM - Silty gravels, gravel-sand-silt mixtures DGA FILL							
ADDITIONAL INFORMATION:							

Warren Blewett,

Driller of Record: JOURNEYMAN LICENSE # 0014578 Company: B & B DRILLING INC

Well Permit Number
E201117485

# WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: _I	PPG INDUSTR	RIES, INC. PPG	INDUSTRIES	, INC.			
Company/Org	ganization: Pl	PG Industries, 1	Inc.					
Address: 4325 Rosanna Drive Allison Park, Pennsylvania 15101								
	ATION: PP							
Address: 900 Garfield Ave.								
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>	Lot: 1		Block: 20	Block: 2026.A	
Easting (X): 611244 Northing (Y): 683817								
Coordinate System: NJ State Plane (NAD83) - USF							28, 2012	
WELL USE:	MONITOR	ING					,	
Other Use(s)	:				Local ID: M	W-SAP-2		
Reason for Do	ecommissionir	ng: No longer	in use					
Finished Well Depth (ft.): 17 Was a New Well Drilled? N								
Formation Type: Unconsolidated New Well Permit Number:								
WELL DEC	OMMISSION	NING INFORM	MATION					
	Depth to	Depth to	Diameter	Material			Wgt/Rating/Screen # Used	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(1bs	(lbs/ch no.)	
Casing	0	7	2	PVC		S	sch 40	
Screen	7	17	2	PVC			.010	
MATERIALS USED								
	Depth to	Depth to	Outer	Inner				
<b>G</b>	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Sand/Gravel	0	17	2	0	2.5	47	4	
	AL INFORMA	ATION						
	ADDITIONAL INFORMATION  Obstructions: No Authorization Official:							
Obstruction Type:								
Alternative Decomm. Method? No			Authorization Date:					
Method Used								
Method Used  ATTACHMENTS:								

Paul Lentz SGS NORTH AMERICA INC.
MONITORING PO BOX 423

Sealing Driller: LICENSE # 545066

Company: West Creek (Ocean), NJ 08092

Well Permit Number **E201117486** 

#### **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: H. ROBERT SEYBOLD, JOURNEY	YMAN LICENSE # 0001348							
Permit Issued to: B & B DRILLING INC	B & B DRILLING INC							
Company Address: BOX 8 RT 206 NETCONG, NJ 07	BOX 8 RT 206 NETCONG, NJ 07857							
PROPERTY OWNER								
Name: PPG INDUSTRIES, INC.								
Organization: PPG Industries, Inc.								
Address: 4325 Rosanna Drive								
City: Allison Park State: Pennsylva	ania Zip Code: 15101							
PROPOSED WELL LOCATION								
Facility Name: PPG Industries								
Address: 900 Garfield Ave.								
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A							
Easting (X): 611231 Northing (Y): 683800 Local ID: MW-SAP-3  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: NJDEP							
Depth (ft.): 20	Case ID Number: G000008791, G000005480							
Pump Capacity (gpm): 0	Deviation Requested: N							
Drilling Method: Hollow Stem Augers								
Attachments:								
SPECIFIC CONDITIONS/REQUIREMENTS								

Approved by the authority of:

Approval Date: October 26, 2011

Expiration Date: October 25, 2012

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201117486

#### **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. [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. 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]

Well Permit Number E201117486

MONITORING WELL RECORD								
PROPERTY	OWNER: _I	PPG INDUST	RIES, INC.					
Company/Org	ganization: Pl	PG Industries,	Inc.					
Address: 4325 Rosanna Drive Allison Park, Pennsylvania 15101								
WELL LOC	ATION: PP	G Industries						
Address: 900 Garfield Ave.								
County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A							26.A	
Easting (X): 611219 Northing (Y): 683855 DATE WELL STARTED: October 30, 2011  Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: October 30, 2011								
			NAD83) - USFI	D <sub>A</sub>	ATE WELL COMI	PLETED: October 30,	2011	
	MONITOR							
Other Use(s)	<b>:</b>				Local ID: MV	V-SAP-3		
WELL CON	STRUCTION	I						
Total Depth Drilled (ft.): 17 Finished Well Depth (ft.): 17 Well Surface: Above Grade								
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material			Wgt/Rating/Screen # Used (lbs/ch no.)	
Borehole	0	17	6			(103/	en no.)	
Casing	0	7	2		PVC	S	SH 40	
Screen	7	17	2	PVC		0.	0.010"	
	Depth to	Depth to	Outer	Inner		Material	Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout		5	6	2	0	70	4	
Gravel Pack	5	17	6	2 MORIE #1				
Grouting Met	hod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: Holl	ow Stem Augers		
ADDITIONAL INFORMATION Protective Casing: Yes Static Water Level: 8.1 ft. below land surface Water Level Measure Tool: M-SCOPE Well Development Period: 1 hrs. Method of Development: AIR LIFT Pump Type:				Pump Capacity: _ gpm Total Design Head: _ ft. Drilling Fluid: Drill Rig: <u>GUS PECH</u> Health and Safety Plan Submitted? <u>Yes</u>				
ATTACHMENTS:								
GEOLOGIC		СК ТОР						
0 - 1: BLK OT - Other BLACK TOP 1 - 10: BRN SM - Silty sands, sand-silt mixtures								
10 - 17: RED-BRN SM - Silty sands, sand-silt mixtures								
ADDITIONAL INFORMATION:								
		*						

Warren Blewett, Driller of Record: JOURNEYMAN LICENSE # 0014578

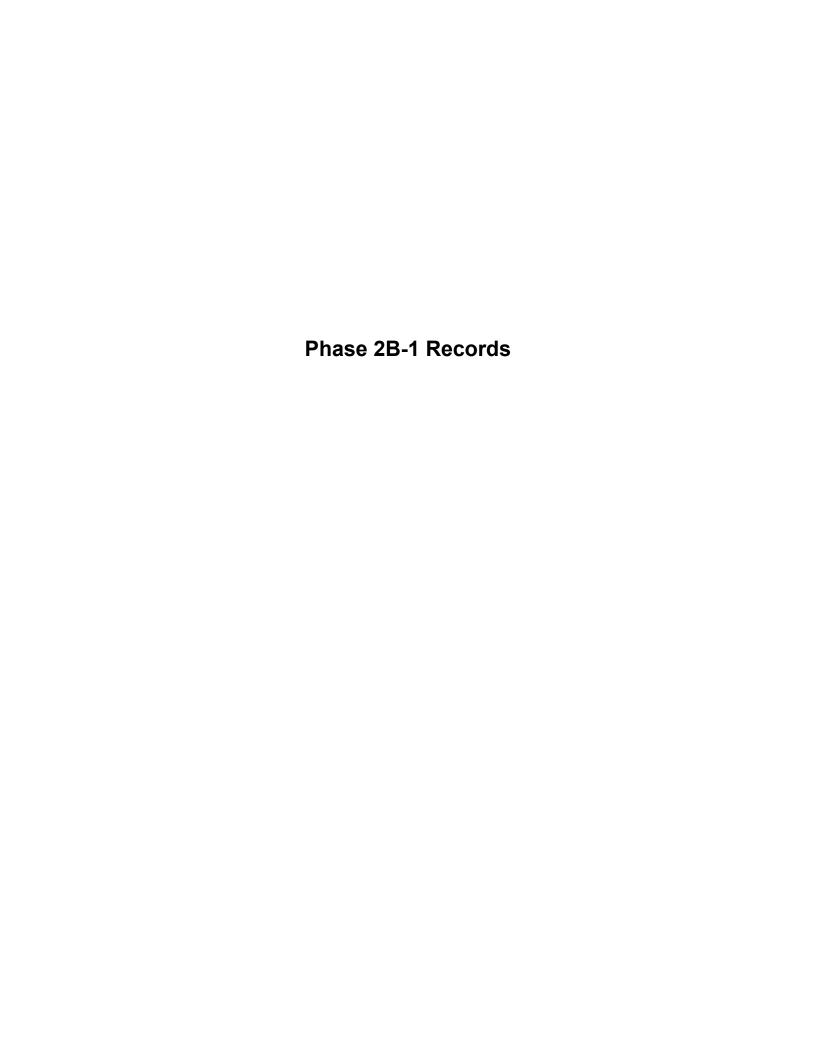
Well Permit Number **E201117486** 

# WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: _I	PPG INDUSTE	RIES, INC. PPG	INDUSTRIES	, INC.			
Company/Org	Company/Organization: PPG Industries, Inc.							
Address: 43	325 Rosanna D	rive Allison Pa	ark, Pennsylvani	a 15101				
WELLLOC	ATION: PP	G Industries						
	00 Garfield Av		T. C'.		T 1	DI 1 20	2006	
				_	_ Lot:_ <u>1</u>	Block: 20	026.A	
Easting (X): 611219 Northing (Y): 683855 DATE WELL								
			NAD83) - USFI			SIONED: November	28, 2012	
WELL USE:	MONITOR	ING						
Other Use(s)	:				Local ID: MV	W-SAP-3		
		ng: No longer						
Finished Wel	l Depth (ft.): _	17		V	Vas a New Well Dril	led? N		
Formation Type: Unconsolidated New Well Permit Number:								
WELL DEC	OMMISSION	ING INFORM	MATION					
	Depth to	Depth to	Diameter		Material		g/Screen # Used	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(Ib	s/ch no.)	
Casing	0	17	2		PVC	5	sch 40	
Screen	7	17	2		PVC		.01	
MATERIAL	S USED							
	Depth to	Depth to	Outer	Inner				
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.) 2.5	Neat Cement (lbs.) 47	Water (gal.)	
Sand/Gravel	U	1 /	2	0	2.3	47	4	
	AL INFORMA	ATION						
					Authorization Offic	ial:		
	ecomm. Metho			Authorization Date:				
Method Used								
ATTACHME	ENTS:							

Paul Lentz SGS NORTH AMERICA INC.
MONITORING PO BOX 423

Sealing Driller: LICENSE # 545066



Well Permit Number **E201201541** 

# **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, JOURNEY	MAN LICENSE # 0021243						
Permit Issued to: SGS NORTH AMERICA INC.							
Company Address: PO BOX 423 WEST CREEK, NJ 08092							
PROPERTY OWNER							
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Organization: _jersey City Redevelopment Agency							
Address: 30 Montgomery Street Suite 900							
City: Jersey City State: New Jerse	zip Code: <u>07302</u>						
PROPOSED WELL LOCATION							
Facility Name: Site 114							
Address: 880 Garfield Ave Address verified Wes Eichfeld							
County: Hudson Municipality: Jersey City	Lot: 3A Block: 2026.1						
Easting (X): 611265 Northing (Y): 683535  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: MON - 28						
SITE CHARACTERISTICS							
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
	Other Use(s):						
PROPOSED CONSTRUCTION  WELL USE: MONITORING	Regulatory Program						
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0	Regulatory Program Requiring Wells/Borings: Owner Investigation						
PROPOSED CONSTRUCTION  WELL USE: _MONITORING  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _0  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: _MONITORING  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _0  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: _MONITORING  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _0  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: _MONITORING  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _0  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						

Approved by the authority of:

Approval Date: February 2, 2012

**Expiration Date:** February 1, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201201541

#### 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. [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. 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]

Well Permit Number **E201201541** 

# MONITORING WELL RECORD

			WIONITY	OKING WI	LL RECORD			
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT A	GENCY			
Company/Or	Company/Organization: jersey City Redevelopment Agency							
Address: 30	Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302							
WELL LOC	CATION: Sit	e 114						
Address: 88	80 Garfield Av	e Address veri	fied Wes Eichfe	ld				
					Lot: 3A	Block: 20	26.1	
			(Y): <u>683535</u> NAD83) - USFI	FET F		CARTED: March 5, 20		
			(NAD65) - USIT		PATE WELL COMI	PLETED: March 5, 20	012	
	: MONITOR				I 110 1/6	NI 20		
Other Use(s)	):				Local ID: MC	JN - 28		
WELL CON	STRUCTION	I						
Total Depth Drilled (ft.): 14 Finished Well Depth (ft.): 14 Well Surface: Flush Mount						n Mount		
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)	
Borehole	0	14	11		(100) 111 111/			
Casing	0	4	4		PVC 40			
Screen	4	14	4		Vwire PVC		.10	
	Depth to	Depth to	Outer	Inner Diameter (in	Dente vite (II-e)	Material	Wister (cell)	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	4	Bentonite (lbs.)	Neat Cement (lbs.) 50	Water (gal.)	
Gravel Pack	2	14	11	4		#0 sand		
Grouting Met	thod: Gravity	method		D:	rilling Method: Holl	ow Stem Augers		
Protective Ca Static Water Water Level Well Develop	ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _ gpm Static Water Level: _5 ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: Mscope Drilling Fluid: Well Development Period: _1 hrs. Drill Rig: Mobile B59 Method of Development: Whale pump Health and Safety Plan Submitted? Yes							
ATTACHM	ENTS:							
GEOLOGIC	C <b>LOG</b> OT - Other Fil	1						
	grey SM - Silt		silt mixtures					
	<u> </u>	•	highly organic	soils				
ADDITION	AL INFORMA	ATION:						
TIDDITION	IL II (I OIL)	1110111						
	Willian	n R Petley,						

Company: SGS NORTH AMERICA INC.

Driller of Record: MONITORING LICENSE # 545487

Well Permit Number **E201201541** 

# WELL DECOMMISSIONING REPORT

Company/Organization:   Jersey City Redevelopment Agency	PROPERTY	OWNER: 1	N/A JERSEY C	CITY REDEVE	LOPMENT AG	ENCY			
WELL LOCATION: Site 114           Address: 880 Garfield Ave Address verified Wes Eichfeld           County: Hudson         Municipality: Jersey City         Lot: 3A         Block: 2026.1           Easting (X): 611265 Northing (Y): 683535 DATE WELL OF COORDING           Coordinate System: NJ State Plane (NAD83) - USFEET         DATE WELL DECOMMISSIONED: September 11, 2013           WELL USE: MONITORING           Coher Use(s): Local ID: MON - 28           Reason for Decommissioning: Site Excavated/Demolished           Finished Well Depth (ft.): 14 Was a New Well Drilled? N           Pormation Type: Unconsolidated New Well Permit Number:           WELL DECOMMISSIONING INFORMATION           Well Depth (ft.): 10 Depth to Top (ft.) Bottom (ft.) Diameter (iniches)         Material Material Wgt/Rating/Screen # Used (lbs/ch no.)           Borehole           Casing 0 4 4 4 PVC Sch 40           Screen # Used (lbs/ch no.)           MATERIALS USED           MATERIALS USED           Depth to Top (ft.) Bottom (ft.) Diameter (in.) Diameter (in.) Diameter (in.) Bentonite (lbs.) Neat Cement (lbs.) Water (gal.)           ADDITIONAL INFORMATION	Company/Org	Company/Organization: Jersey City Redevelopment Agency							
WELL LOCATION: Site 114           Address: 880 Garfield Ave Address verified Wes Eichfeld           County: Hudson         Municipality: Jersey City         Lot: 3A         Block: 2026.1           Easting (X): 611265 Northing (Y): 683535 DATE WELL OF COORDING           Coordinate System: NJ State Plane (NAD83) - USFEET         DATE WELL DECOMMISSIONED: September 11, 2013           WELL USE: MONITORING           Coher Use(s): Local ID: MON - 28           Reason for Decommissioning: Site Excavated/Demolished           Finished Well Depth (ft.): 14 Was a New Well Drilled? N           Pormation Type: Unconsolidated New Well Permit Number:           WELL DECOMMISSIONING INFORMATION           Well Depth (ft.): 10 Depth to Top (ft.) Bottom (ft.) Diameter (iniches)         Material Material Wgt/Rating/Screen # Used (lbs/ch no.)           Borehole           Casing 0 4 4 4 PVC Sch 40           Screen # Used (lbs/ch no.)           MATERIALS USED           MATERIALS USED           Depth to Top (ft.) Bottom (ft.) Diameter (in.) Diameter (in.) Diameter (in.) Bentonite (lbs.) Neat Cement (lbs.) Water (gal.)           ADDITIONAL INFORMATION	Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2			
Address:   880 Garfield Ave Address verified Wes Eichfeld				•	•				
County:   Hudson   Municipality:   Jersey City   Lot: 3A   Block: 2026.1									
Easting (X):   611265									
Note	County: Hu	dson	_ Municipality	y: Jersey City		Lot: 3A	Block: 202	26.1	
Name	Easting (X): 611265 Northing (Y): 683535								
WELL USE: MONITORING           Local ID: MON - 28           Reason for Decommissioning: Site Excavated/Demolished           Finished Well Depth (ft.): 14								1, 2013	
Content Use(s):   Site Excavated/Demolished	WELL USE:	MONITOR	ING					,	
Reason for Decommissioning:   Site Excavated/Demolished						Local ID: MC	ON - 28		
New Well Permit Number:   Well Depth to   Depth to   Top (ft.)   Depth to   Screen   4									
WELL DECOMMISSIONING INFORMATION           Depth to Top (ft.)         Depth to Bottom (ft.)         Diameter (in.)         Material         Wgt/Rating/Screen # Used (lbs/ch no.)           Borehole         Image: Casing of the Casing o	Finished Wel	l Depth (ft.):	14		W	as a New Well Dril	led? N		
Depth to Top (ft.)   Depth to Bottom (ft.)   Diameter (inches)   Material   Wgt/Rating/Screen # Used (lbs/ch no.)	Formation Ty	pe: Unconso	lidated		Ne	ew Well Permit Nun	nber:		
Borehole         Top (ft.)         Bottom (ft.)         (inches)         (lbs/ch no.)           Casing         0         4         4         PVC         Sch 40           Screen         4         14         4         V wire PVC         .010           MATERIALS USED         Depth to Top (ft.)         Depth to Bottom (ft.)         Outer Diameter (in.)         Inner Diameter (in.)         Material Bentonite (lbs.)         Water (gal.)           Grout         0         14         4         0         15         141         12           Sand/Gravel         -         -         -         -         -         -         -	WELL DEC	OMMISSION	NING INFORM	MATION					
Borehole         Casing         0         4         4         PVC         Sch 40           Screen         4         14         4         V wire PVC         .010           MATERIALS USED           Depth to Top (ft.)         Depth to Bottom (ft.)         Outer Diameter (in.)         Inner Diameter (in.)         Material Bentonite (lbs.)         Water (gal.)           Grout         0         14         4         0         15         141         12           Sand/Gravel         -			1		Material			9	
Casing         0         4         4         PVC         Sch 40           Screen         4         14         4         V wire PVC         .010           MATERIALS USED           Depth to Top (ft.)         Depth to Bottom (ft.)         Outer Diameter (in.)         Inner Diameter (in.)         Material Bentonite (lbs.)         Water (gal.)           Grout         0         14         4         0         15         141         12           Sand/Gravel         -         -         -         -         -         -         -         -           ADDITIONAL INFORMATION         -	Danahala	Top (ft.)	Bottom (ft.)	(inches)			(lbs/	ch no.)	
Screen         4         14         4         V wire PVC         .010           MATERIALS USED           Depth to Top (ft.)         Depth to Bottom (ft.)         Outer Diameter (in.)         Inner Diameter (in.)         Material Diameter (in.)         Water (gal.)           Grout 0 14         4         0         15         141         12           Sand/Gravel         INFORMATION		0	4	Δ		PVC	So	ch 40	
MATERIALS USED           Depth to Top (ft.)         Depth to Bottom (ft.)         Outer Diameter (in.)         Inner Diameter (in.)         Material Bentonite (lbs.)         Water (gal.)           Grout 0 14 4 4 0 15         141 12           Sand/Gravel         141 12   ADDITIONAL INFORMATION		-			V				
Depth to Top (ft.)   Depth to Bottom (ft.)   Diameter (in.)   Diameter (in.)   Diameter (in.)   Bentonite (lbs.)   Neat Cement (lbs.)   Water (gal.)			1		<u> </u>				
Top (ft.)   Bottom (ft.)   Diameter (in.)   Diameter (in)   Bentonite (lbs.)   Neat Cement (lbs.)   Water (gal.)	MATERIAL		Depth to	Outer	Inner	Material			
Sand/Gravel ADDITIONAL INFORMATION				Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
ADDITIONAL INFORMATION		0	14	4	0	15	141	12	
Obstructions: No Authorization Official:			ATION						
	Obstructions:	No			1	Authorization Offic	ial:		
Obstruction Type: Authorization Number:	Obstruction Type: Authorization Number:								
Alternative Decomm. Method? No Authorization Date:	Alternative D	ecomm. Meth	od? No			Authorization Da	ate:		
Method Used	Method Used								
ATTACHMENTS:									

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number E201201542

# **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, JOURNEY	MAN LICENSE # 0021243						
Permit Issued to: SGS NORTH AMERICA INC.							
Company Address: PO BOX 423 WEST CREEK, NJ 08092							
PROPERTY OWNER							
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	,						
Organization:jersey City Redevelopment Agency							
Address: 30 Montgomery Street Suite 900							
City: Jersey City State: New Jerse	zip Code: <u>07302</u>						
PROPOSED WELL LOCATION Facility Name: Site 114							
Address: 880 Garfield Ave Address verified Wes Eichfeld							
County: Hudson Municipality: Jersey City	Lot: 3A Block: 2026.1						
Easting (X): 611318 Northing (Y): 683642  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID:MON - 29						
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
WELL USE: MONITORING	Other Use(s):						
Diameter (in.): _4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
Depth (ft.): 40	Case ID Number:						
Pump Capacity (gpm): 0	Deviation Requested: N						
Drilling Method: Hollow Stem Augers							
Attachments:							
SPECIFIC CONDITIONS/REQUIREMENTS							

Approved by the authority of:

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201201542

#### 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. [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. 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]

Well Permit Number E201201542

			1/101/11/	ORING WE	EL RECORD		
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT AG	ENCY		
Company/Org	ganization: <u>je</u>	rsey City Rede	velopment Agei	псу			
Address: 30	Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	02		
WELL LOC	ATION: Sit	e 114					
			fied Wes Eichfel	ld			
County: Hudson Municipality: Jersey City Lot: 3A Block: 2026.1							
Easting (X): 611318 Northing (Y): 683642 DATE WELL STARTED: February 14, 2012							
			NAD83) - USFI	EET D	ATE WELL COMPI	<u></u>	
	MONITOR				ATE WELL COMIT	ETED. Peditiary 14	F, 2012
					Local ID: MON	I 20	
					Local ID. MOI	N - 29	
	STRUCTION						
Total Depth	Drilled (ft.):	15	Finished We	ll Depth (ft.):	15 W	ell Surface: Flush	n Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	15	(inches)			(108	/сп по.)
Casing	0	4.5	4		PVC	S	ch.40
Screen	4.5	14.5	4		PVC		.020
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)			Neat Cement (lbs.)	Water (gal.)
Grout	Grout 0 2 10 4 15 50 7					7	
		14.5					,
Gravel Pack	2	14.5	10	4	lling Method: Holloy	# 0 Sand	,
Gravel Pack Grouting Met	2 hod: Gravity	method		4	lling Method: Hollo	# 0 Sand	,
Gravel Pack Grouting Met	2 hod: Gravity  AL INFORM	method		4 Dri	lling Method: Hollow	# 0 Sand	,
Gravel Pack Grouting Met  ADDITIONA Protective Ca Static Water 1	2 hod: Gravity AL INFORM sing: No Level: 6 ft. be	method ATION elow land surfa	10	4 Dri Pur	mp Capacity: _ gpm al Design Head: _ ft.	# 0 Sand	,
Gravel Pack Grouting Met  ADDITIONA Protective Ca Static Water I Water Level I	2 hod: Gravity AL INFORM sing: No Level: 6 ft. be Measure Tool:	method  ATION  clow land surfa  M-Scope	10	4 Dri Pur Tot	np Capacity: _ gpm ral Design Head: _ ft. Iling Fluid:	# 0 Sand	,
Gravel Pack Grouting Met  ADDITIONA Protective Ca Static Water I Water Level I Well Develop	hod: Gravity  AL INFORM sing: No Level: 6 ft. be Measure Tool: oment Period:	method  ATION  clow land surfa  M-Scope  1 hrs.	10	4 Dri Pur Tot Dri	mp Capacity: _ gpm al Design Head: _ ft.	# 0 Sand w Stem Augers	,
Gravel Pack Grouting Met  ADDITIONA Protective Ca Static Water I Water Level I Well Develop	hod: Gravity  AL INFORM sing: No Level: 6 ft. be Measure Tool: oment Period:	method  ATION  clow land surfa  M-Scope	10	4 Dri Pur Tot Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Mobile B-59</u>	# 0 Sand w Stem Augers	,
Gravel Pack Grouting Met  ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De	hod: Gravity  AL INFORM sing: No Level: 6 ft. be Measure Tool: ment Period: evelopment: Co	method  ATION  clow land surfa  M-Scope  1 hrs.	10	4 Dri Pur Tot Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Mobile B-59</u>	# 0 Sand w Stem Augers	,
Gravel Pack Grouting Met  ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC	hod: Gravity  AL INFORM sing: No Level: 6 ft. be Measure Tool: be welopment: Co  ENTS:	method ATION  clow land surfa M-Scope 1 hrs. entrifugal Pum	10 ce	4 Dri Pur Tot Dri Hea	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Mobile B-59</u>	# 0 Sand w Stem Augers	,
Gravel Pack Grouting Met  ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type:  ATTACHMI  GEOLOGIC 0 - 14.5: Redi	hod: Gravity  AL INFORM sing: No Level: 6 ft. be Measure Tool: benent Period: evelopment: Co  ENTS: LOG sh Brown OT	elow land surfa M-Scope 1 hrs. entrifugal Pum	ce  anufacturing De	4 Dri Pur Tot Dri Dri Hea	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Mobile B-59</u>	# 0 Sand w Stem Augers	,
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Gravel Pack Grouting Met  ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type:  ATTACHMI  GEOLOGIC 0 - 14.5: Redi 14.5 - 15: Bro	hod: Gravity  AL INFORM sing: No Level: 6 ft. be Measure Tool: benent Period: evelopment: Co  ENTS: LOG sh Brown OT own PT - Peat,	elow land surfa M-Scope 1 hrs. entrifugal Pum  Other Fill; M muck, and other	ce  anufacturing De	4 Dri Pur Tot Dri Dri Hea	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Mobile B-59</u>	# 0 Sand w Stem Augers	,
Gravel Pack Grouting Met  ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type:  ATTACHMI  GEOLOGIC 0 - 14.5: Redi 14.5 - 15: Bro	hod: Gravity  AL INFORM sing: No Level: 6 ft. be Measure Tool: benent Period: evelopment: Co  ENTS: LOG sh Brown OT own PT - Peat,	elow land surfa M-Scope 1 hrs. entrifugal Pum  Other Fill; M muck, and other	ce  anufacturing De	4 Dri Pur Tot Dri Dri Hea	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Mobile B-59</u>	# 0 Sand w Stem Augers	,
Gravel Pack Grouting Met  ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type:  ATTACHMI  GEOLOGIC 0 - 14.5: Redi 14.5 - 15: Bro	hod: Gravity  AL INFORM sing: No Level: 6 ft. be Measure Tool: benent Period: evelopment: Co  ENTS: LOG sh Brown OT own PT - Peat,	elow land surfa M-Scope 1 hrs. entrifugal Pum  Other Fill; M muck, and other	ce  anufacturing De	4 Dri Pur Tot Dri Dri Hea	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Mobile B-59</u>	# 0 Sand w Stem Augers	,
Gravel Pack Grouting Met  ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type:  ATTACHMI  GEOLOGIC 0 - 14.5: Redi 14.5 - 15: Bro	hod: Gravity  AL INFORM sing: No Level: 6 ft. be Measure Tool: benent Period: evelopment: Co  ENTS: LOG sh Brown OT own PT - Peat,	elow land surfa M-Scope 1 hrs. entrifugal Pum  Other Fill; M muck, and other	ce  anufacturing De	4 Dri Pur Tot Dri Dri Hea	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Mobile B-59</u>	# 0 Sand w Stem Augers	,
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Company: SGS NORTH AMERICA INC.

William G Petley, Driller of Record: JOURNEYMAN LICENSE # 0013761

Well Permit Number **E201201542** 

# WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: 1	N/A JERSEY C	CITY REDEVE	LOPMENT AG	ENCY		
Company/Org	Company/Organization: Jersey City Redevelopment Agency						
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2		
			•	•			
	ATION: Sit						
			ied Wes Eichfe				
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 3A	Block: 202	26.1
Easting (X): 611318 Northing (Y): 683642 DATE WELL							
			NAD83) - USFI			SIONED: September 1	1, 2013
WELL USE:	MONITOR	ING				· · · <u>- · · · · · · · · · · · · · ·</u>	,
Other Use(s)					Local ID: MC	ON - 29	
Reason for D			vated/Demolishe				
Finished Wel	l Depth (ft.):	15		W	/as a New Well Dril	led? N	
Formation Type: Unconsolidated New Well Permit Number:							
WELL DEC	OMMISSION	NING INFORM	MATION				
	Depth to	Depth to	Diameter		Material		/Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs/	ch no.)
Casing	0	4.5	4		PVC	Sc	ch 40
Screen	4.5	14.5	4		PVC		020
MATERIAL	S USED	<u>I</u>					
	Depth to	Depth to	Outer	Inner	Material		
	Top (ft.)	Bottom (ft.)	` , ,	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	15	4	0	18	141	13
Sand/Gravel	A I INTEGRAL	ATTON					
	AL INFORMA						
Obstructions:	-					ial:	
Obstruction Type:				Authorization Number:			
Alternative D	ecomm. Method	od? No			Authorization Da	ate:	
Method Used							
ATTACHME	ENTS:						

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **E201201543** 

# **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, JOURNEY	MAN LICENSE # 0021243						
Permit Issued to: SGS NORTH AMERICA INC.							
Company Address: PO BOX 423 WEST CREEK, NJ 08092							
PROPERTY OWNER							
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	,						
Organization: jersey City Redevelopment Agency							
Address: 30 Montgomery Street Suite 900							
City: Jersey City State: New Jerse	zy Zip Code: <u>07302</u>						
PROPOSED WELL LOCATION Facility Name: Site 114							
Address: 880 Garfield Ave Address verified Wes Eichfeld							
County: Hudson Municipality: Jersey City	Lot: 3A Block: 2026.1						
Easting (X): 611364 Northing (Y): 683736  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: MON - 30						
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
WELL USE: MONITORING	Other Use(s):						
Diameter (in.): _4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
Depth (ft.): 40	Case ID Number:						
Pump Capacity (gpm): 0	Deviation Requested: N						
Drilling Method: Hollow Stem Augers							
Attachments:							
SPECIFIC CONDITIONS/REQUIREMENTS							

Approved by the authority of:

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201201543

### **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. [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. 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]

Well Permit Number Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831 E201201543

# MONITORING WELL RECORD

	MONITORING WELL RECORD						
PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Company/Org	ganization: <u>je</u>	rsey City Rede	velopment Agei	ncy			
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2		
WELL LOC	ATION: Sit	e 114					
			fied Wes Eichfe	ld			
			y: Jersey City		Lot: 3A	Block: 20	 26.1
·			·				
Easting (X): 611364 Northing (Y): 683736 DATE WELL STARTED: February 13, 2012  Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: February 13, 2012							
Coordin	nate System: N	IJ State Plane (	NAD83) - USFI	DA DA	ATE WELL COM	PLETED: February 13	3, 2012
WELL USE:	MONITOR	ING					
Other Use(s)	•				Local ID: MO	ON - 30	
WELL CON	STRUCTION	<b>J</b>					
Total Depth	Drilled (ft.):	17	Finished We	ll Depth (ft.):	17	Well Surface: Flush	n Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material Wgt/Rating/Screen # Used			g/Screen # Used s/ch no.)
Borehole	0	17	10			(108	/CII IIO.)
Casing	0	7	4		PVC	S	ch.40
Screen	7	17	4		PVC		.020
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	3	10	4	15	60	9
Gravel Pack	3	17	10	4		# 0 Sand	
=	hod: Gravity			Dri.	lling Method: Hol	low Stem Augers	
	AL INFORMA	<u>ATION</u>		ъ	G .		
Protective Car Static Water I		elow land surfa	ce		np Capacity: _ gpm al Design Head: _ f		
	Measure Tool:		cc		lling Fluid:		
Well Develop	ment Period:	<u>1</u> hrs.		Dri	ll Rig: Mobile B-59		
	evelopment: <u>Co</u>	entrifugal Pum	<u>p</u>	Hea	alth and Safety Plan	Submitted? <u>Yes</u>	
Pump Type:							
ATTACHMENTS:							
GEOLOGIC		Other Fill: Mer	nufacturing Debi	ric			
			iuraciuring Debi	115			
ADDITIONA	AL INFORMA	ATION:					

William G Petley, Driller of Record: JOURNEYMAN LICENSE # 0013761 Company: SGS NORTH AMERICA INC.

Well Permit Number **E201201543** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Org	Company/Organization: Jersey City Redevelopment Agency							
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2			
			•	•				
	ATION: Sit							
			ied Wes Eichfe					
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 3A	Block: 202	6.1	
Easting (X):	611364	Northing	(Y): 683736		БАТ	E WELL		
			NAD83) - USFI			SIONED: October 16,	2013	
WELL USE:	MONITOR	ING				· · · · · · · · · · · · · · · · · · ·		
Other Use(s): Local ID: MON - 30								
Reason for Decommissioning: Site Excavated/Demolished								
Finished Well Depth (ft.): 17 Was a New Well Drilled? N								
Formation Type: Unconsolidated New Well Permit Number:								
WELL DEC	OMMISSION	NING INFORM	MATION					
	Depth to	Depth to	Diameter	Material			Screen # Used	
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs/	(lbs/ch no.)	
Casing	0	7	4		PVC	Sc	eh 40	
Screen	7	17	4		PVC		020	
MATERIAL	S USED							
	Depth to	Depth to	Outer	Inner	Material			
_	Top (ft.)	Bottom (ft.)	` , ,	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	17	4	0	20	141	15	
Sand/Gravel	AL INFORMA	ATION						
					A (1 - 1 - 1 - 1 - 1 - 0 CC' -	• . 1.		
Obstructions:	-					ial:		
Obstruction Type:								
Alternative Decomm. Method? No					Authorization Da	ate:		
Method Used	·							
ATTACHME	ENTS:							

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Well Permit Number **E201201549** 

# **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, JOURNEY	MAN LICENSE # 0021243
Permit Issued to: SGS NORTH AMERICA INC.	
Company Address: PO BOX 423 WEST CREEK, NJ O	98092
PROPERTY OWNER	
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	,
Organization: jersey City Redevelopment Agency	
Address: 30 Montgomery St., Suite 900	
City: Jersey City State: New Jerse	zip Code: <u>07302</u>
PROPOSED WELL LOCATION	
Facility Name: Site 114	
Address: 880 Garfield Ave Address Verified Wes Eichfeld	
County: Hudson Municipality: Jersey City	Lot: 3A Block: 2026.1
Easting (X): 611360 Northing (Y): 683724  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: REL - 13
SITE CHARACTERISTICS	
PROPOSED CONSTRUCTION	
PROPOSED CONSTRUCTION  WELL USE: RECOVERY	Other Use(s):
WELL USE: RECOVERY	Regulatory Program
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation
WELL USE:         RECOVERY           Diameter (in.):         4           Depth (ft.):         40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:

Approved by the authority of:

Approval Date: February 2, 2012

**Expiration Date:** February 1, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201201549

#### 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. [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. 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]

Well Permit Number Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831 E201201549

MONITORING WELL RECORD								
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT AG	ENCY			
Company/Org	ganization: <u>je</u>	rsey City Rede	velopment Agei	ncy				
Address: 30	Montgomery	St., Suite 900	Jersey City, Nev	v Jersey 07302				
WELL LOC	ATION: Sit	e 114						
Address: 88	0 Garfield Av	e Address Veri	fied Wes Eichfe	eld				
County: Hud	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 3A	Block: 2026	5.1	
Easting (X):	611360	Northing	(Y): <u>683724</u>		DATE WELL ST	FARTED: February 13,	2012	
Coordin	nate System: N	IJ State Plane (	NAD83) - USFI	EET DA	ATE WELL COMI	PLETED: February 13,	2012	
WELL USE:	RECOVER'	Y						
Other Use(s): Local ID: REL - 13								
WELL CONSTRUCTION								
		13	Finished We	ll Depth (ft.):	13	Well Surface: Flush I	Mount	
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material			Screen # Used ch no.)	
Borehole	0	13	10			(10.6)		
Casing	0	10	1.5		Steel	Sch	n.40	
Screen	10	13	4	Sta	inless Steel	.0	.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	2	10	1.5	15	100	12	
Gravel Pack	2	10	10	1.5		# 0 Sand		
Gravel Pack	10	13	10	<u> </u>		# 0 Sand		
Grouting Met				Dri	lling Method: Holl	low Stem Augers		
ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _ gpm Static Water Level: 6 ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: M-Scope Drilling Fluid:  Well Development Period: 1 hrs. Drill Rig: Mobile B-59  Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes  Pump Type:  ATTACHMENTS:								
GEOLOGIC								
		Other Fill; Mar	nufacturing Deb	ris				
ADDITIONA	AL INFORMA	ATION:						
	· -							

William G Petley, Driller of Record: JOURNEYMAN LICENSE # 0013761 Company: SGS NORTH AMERICA INC.

Well Permit Number **E201201549** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Organization: Je	Company/Organization: Jersey City Redevelopment Agency							
Address: 30 Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2				
		•	•					
WELL LOCATION: Site								
Address: 880 Garfield Ave								
County: Hudson	_ Municipality	: Jersey City		Lot: 3A	Block: 202	26.1		
Easting (X): 611360	Northing (	(Y): 683724		DAT	E WELL			
Coordinate System: N					SIONED: October 16,	2013		
WELL USE: RECOVERY	Y							
Other Use(s): Local ID: REL - 13								
Reason for Decommissioning: Site Excavated/Demolished								
Finished Well Depth (ft.): 13 Was a New Well Drilled? N								
Formation Type: Unconsolidated New Well Permit Number:								
WELL DECOMMISSION	ING INFORM	MATION						
Depth to	Depth to	Diameter	Material			/Screen # Used		
Top (ft.) Borehole	Bottom (ft.)	(inches)			(Ibs/	/ch no.)		
Casing 0	10	1.5		Steel	Su	ch40		
Screen 10	13	4	Sta	inless Steel		010		
MATERIALS USED						-		
Depth to	Depth to	Outer	Inner		Material			
Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)		
Grout 0	13	4	0	20	141	12		
Sand/Gravel								
ADDITIONAL INFORMA	ATION							
					ial:			
Obstruction Type:		Authorization Number:						
Alternative Decomm. Metho			Authorization Da	ate:				
Method Used								
ATTACHMENTS:								

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **E201201550** 

# **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, JOURNEY	MAN LICENSE # 0021243							
Permit Issued to: SGS NORTH AMERICA INC.	: SGS NORTH AMERICA INC.							
Company Address: PO BOX 423 WEST CREEK, NJ 0	mpany Address: PO BOX 423 WEST CREEK, NJ 08092							
PROPERTY OWNER								
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	•							
Organization: _jersey City Redevelopment Agency								
Address: 30 Montgomery St., Suite 900								
City: Jersey City State: New Jerse	zy Zip Code: <u>07302</u>							
PROPOSED WELL LOCATION								
Facility Name: Site 114								
Address: 880 Garfield Ave Address verified Wes Eichfeld								
County: Hudson Municipality: Jersey City	Lot: 3A Block: 2026.1							
Easting (X): 611332 Northing (Y): 683670  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: REL - 14							
SITE CHARACTERISTICS								
PROPOSED CONSTRUCTION								
PROPOSED CONSTRUCTION  WELL USE: RECOVERY	Other Use(s):							
WELL USE: RECOVERY	Regulatory Program							
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation							
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation							
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							

Approved by the authority of:

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201201550

#### 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. [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. 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]

Well Permit Number Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831 E201201550

# MONITORING WELL RECORD

	MONITORING WELL RECORD						
PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Company/Org	ganization: <u>je</u>	rsey City Rede	velopment Age	ncy			
Address: 30	) Montgomery	St., Suite 900	Jersey City, Nev	w Jersey 07302			
WELL LOC	WELL LOCATION: Site 114						
Address: 880 Garfield Ave Address verified Wes Eichfeld							
County: Hu	dson	Municipality	y: Jersey City		Lot: 3A	Block: 202	26.1
Easting (X):	611322	Northing	(Y): <u>683670</u>		DATE WELL ST	ARTED: February 14	l, 2012
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: February 14, 2012							
WELL USE:	RECOVER	Y					
Other Use(s)	:			_	Local ID: REI	L - 14	
	STRUCTION Drilled (ft.):	15	Finished We	ell Denth (ft.):	15 V	Well Surface: Flush	ı Mount
Depth to Depth to Diameter Material Wgt/Rating/Screen # Top (ft.) Bottom (ft.) (inches) (lbs/ch no.)							
Borehole	0	15	10			,	,
Casing	0	11.5	1.5		Steel	S	ch.40
Screen	11.5	14.5	4	Sta	inless Steel		.010
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` '	\ /	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	1.5	15	60 # 0.5 - 1	9
Gravel Pack Gravel Pack	2 11.5	11.5 14.5	10 10	1.5		# 0 Sand # 0 Sand	
		ı	10		II Madhada II.all		
_	hod: Gravity			Dn	lling Method: Holle	ow Stem Augers	
	AL INFORMA	ATION		D	C		
Protective Ca Static Water I		elow land surfa	ce		np Capacity: _ gpm al Design Head: _ ft.		
	Measure Tool:		cc		lling Fluid:		
Well Develop	ment Period:	<u>1</u> hrs.		Dri	ll Rig: Mobile B-59		
	evelopment: <u>C</u> e	entrifugal Pum	<u>p</u>	Hea	alth and Safety Plan S	Submitted? Yes	
Pump Type:							
ATTACHMI	-						
GEOLOGIC		Other Fill: M	anufacturing De	heig			
14.5 - 15: Brown PT - Peat, muck, and other highly organic soils							
ADDITIONA	AL INFORMA	ATION:					

Company: SGS NORTH AMERICA INC.

William G Petley, Driller of Record: JOURNEYMAN LICENSE # 0013761

Well Permit Number **E201201550** 

# WELL DECOMMISSIONING REPORT

PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Company/Org	Company/Organization: Jersey City Redevelopment Agency							
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2			
WELLLOC	ATION. Sit	o 114	•	•				
	ATION: Sit							
			fied Wes Eichfel					
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 3A	Block: 20	26.1	
Easting (X):	611322	Northing	(Y): <u>683670</u>		ВАТ	E WELL		
1			NAD83) - USFI	EET		SIONED: October 16,	2013	
WELL USE:	RECOVER	Y						
Other Use(s): Local ID: REL - 14								
Reason for Decommissioning: Site Excavated/Demolished								
Finished Well Depth (ft.): 15 Was a New Well Drilled? N								
Formation Type: Unconsolidated New Well Permit Number:								
WELL DECOMMISSIONING INFORMATION								
VVEZE DEC	Depth to	Depth to	Diameter	Material		Wgt/Rating	/Screen # Used	
	Top (ft.)	Bottom (ft.)	(inches)				(lbs/ch no.)	
Borehole								
Casing	0	11.5	1.5		Steel	S	ch 40	
Screen	11.5	14.5	4	Sta	inless Steel		.010	
MATERIAL	S USED							
	Depth to	Depth to	Outer	Inner		Material		
G .	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ′	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Sand/Gravel	0	15	4	0	15	94	8	
	AL INFORMA	A TION						
					A41: Off: -	:_1.		
Obstructions:						ial:		
Obstruction Type:						per:		
					Authorization Da	ate:		
Method Used								
ATTACHME	ENTS:							

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number E201201551

# **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, JOURNEY	YMAN LICENSE # 0021243							
Permit Issued to: SGS NORTH AMERICA INC.								
Company Address: PO BOX 423 WEST CREEK, NJ (	Company Address: PO BOX 423 WEST CREEK, NJ 08092							
PROPERTY OWNER								
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	(							
Organization: _jersey City Redevelopment Agency								
Address: 30 Montgomery St., Suite 900								
City: Jersey City State: New Jerse	ey Zip Code: _07302							
PROPOSED WELL LOCATION								
Facility Name: Site 114								
Address: 880 Garfield Ave Address Verified Wes Eichfeld								
County: Hudson Municipality: Jersey City	Lot: 3A Block: 2026.1							
Easting (X): 611305 Northing (Y): 683617	Local ID: REL - 15							
Coordinate System: NJ State Plane (NAD83) - USFEET								
SITE CHARACTERISTICS								
PROPOSED CONSTRUCTION								
PROPOSED CONSTRUCTION  WELL USE: RECOVERY	Other Use(s):							
WELL USE: RECOVERY	Regulatory Program							
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation							
WELL USE:         RECOVERY           Diameter (in.):         4           Depth (ft.):         40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:							
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation							
WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:  Deviation Requested: N							
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:  Deviation Requested: N							
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:  Deviation Requested: N							
WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:  Deviation Requested: N							
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:  Deviation Requested: N							
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:  Deviation Requested: N							

Approved by the authority of:

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

**Bob Martin** Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201201551

#### 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. [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. 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]

Well Permit Number **E201201551** 

# MONITORING WELL RECORD

			MONT	OKING WE	LL KECOKD		
PROPERTY	OWNER: _1	N/A JERSEY	CITY REDEVE	LOPMENT AG	ENCY		
Company/Org	ganization: je	rsey City Rede	velopment Age	ncy			
Address: 30	) Montgomery	St., Suite 900	Jersey City, Nev	v Jersey 07302			
WELL LOC	ATION: Sit	e 114					
Address: 88	30 Garfield Av	e Address Veri	fied Wes Eichfe	eld			
County: Hu	dson	Municipalit	y: Jersey City		Lot: 3A	Block: 20	26.1
Facting (X):	611298	Northing	(Y): 683621		DATE WELL ST	TARTED: February 14	1 2012
1			NAD83) - USFI	EET DA		PLETED: February 14	
WELL USE:	RECOVER	Y	<u> </u>		TIE WELL COM	<u> </u>	.,
					Local ID: RE	EL - 15	
WELL CON	STRUCTION	J					
WELL CONSTRUCTION  Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount							
Depth to Depth to Diameter Material Top (ft.) Bottom (ft.) (inches)			Material		g/Screen # Used s/ch no.)		
Borehole	0	15	10				
Casing	0	12	1.5		Steel	S	Sch 40
Screen	12	15	4	Stainless Steel .010			.010
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` ,	\ /	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	1.5	15	94	9
Gravel Pack Gravel Pack	2 12	12 15	10 10	1.5		#0 Sand # 0 Sand	
		e method (Trei			lling Method: Holl		
_	AL INFORMA		nie Pipe)	Dn	lling Method: Hol	low Stem Augers	
Protective Ca					np Capacity: _ gpm		
	Level: <u>6</u> ft. be Measure Tool:	elow land surfa	ce		al Design Head: _ for the control of	t.	
	ment Period:				ll Rig: <u>Mobile B 59</u>		
	-	entrifugal Pum	<u>p</u>		alth and Safety Plan	Submitted? Yes	
Pump Type:							
<u>ATTACHM</u>	,						
GEOLOGIC		T7'11 3 6	134	D 1 :			
			d Manufacturing				
12 - 15: Brown PT - Peat, muck, and other highly organic soils							
ADDITIONA	AL INFORMA	ATION:					

Thomas L Hanley,

Driller of Record: JOURNEYMAN LICENSE # 0001181 Company: SGS NORTH AMERICA INC.

Well Permit Number **E201201551** 

# WELL DECOMMISSIONING REPORT

PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Org	ganization: <u>Je</u>	ersey City Rede	evelopment Agei	ncy					
Address: 30	Montgomery	Street Suite 90	00 Jersey City, N	ew Jersey 0730	)2				
WELL LOC	ATION: Sit	e 114							
Address: 88	30 Garfield Av	e Address Veri	fied Wes Eichfe	ld					
County: Hudson Municipality: Jersey City Lot: 20 Block: 21501							501		
Easting (X): 611298 Northing (Y): 683621 DATE WELL Coordinate System: NJ State Plane (NAD83) - USFEET DECOMMISSIONED: September 11, 2013									
WELL USE:	RECOVER	Y							
Other Use(s)	<b>:</b>				Local ID: RE	L - 15			
Reason for De	ecommissionir	ng: Site Exca	vated/Demolishe	ed				_	
Finished Well	Depth (ft.):	15		V	Vas a New Well Dri	lled?	N		
Formation Ty	pe: Unconso	lidated		No	ew Well Permit Nur	nber:			
WELL DEC	OMMISSION	ING INFOR	MATION						
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material			g/Screen # Used s/ch no.)	
Borehole									
Casing	0	12	1.5		Steel		S	Sch 40	
Screen	12	15	4	Sta	inless Steel			.010	
MATERIAL									
	Depth to	Depth to	Outer	Inner			Material		
Consent	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Ce	ement (lbs.)	Water (gal.)	
Grout Grout	0 12	12 15	1.5	0	<u>5</u> 5		47	4	
Sand/Gravel	12	13	7	0	3	l	7/	<del>-</del>	
ADDITION	AL INFORMA	ATION							
Obstructions:	No				Authorization Offic	ial:			
Obstruction Type: Authorization Number:									
Alternative Decomm. Method? No					Authorization Date:				
Method Used									
ATTACHMENTS:									

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **E201201552** 

# **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, JOURNEY	MAN LICENSE # 0021243								
Permit Issued to: SGS NORTH AMERICA INC.	Issued to: SGS NORTH AMERICA INC.								
Company Address: PO BOX 423 WEST CREEK, NJ 08092									
PROPERTY OWNER									
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	•								
Organization: <u>jersey City Redevelopment Agency</u>									
Address: 30 Montgomery St., Suite 900									
City: Jersey City State: New Jerse	zip Code: _07302								
PROPOSED WELL LOCATION Facility Name: Site 114									
Address: 880 Garfield Ave Address verified Wes Eichfeld	P. 1. 2027								
County: Hudson Municipality: Jersey City	Lot: <u>3A</u> Block: <u>2026.1</u>								
Easting (X): 611278 Northing (Y): 683563  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: REL - 16								
SITE CHARACTERISTICS									
PROPOSED CONSTRUCTION									
WELL USE: RECOVERY	Other Use(s):								
Diameter (in.): _4	Regulatory Program Requiring Wells/Borings: Owner Investigation								
Depth (ft.): _40	Case ID Number:								
Pump Capacity (gpm): 1	Deviation Requested: N								
Drilling Method: Hollow Stem Augers									
Attachments:									
SPECIFIC CONDITIONS/REQUIREMENTS									

Approved by the authority of:

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201201552

#### 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]

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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]

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

Well Permit Number **E201201552** 

# MONITORING WELL RECORD

			WIONITY	UKING WE	LL KECOKD		
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT AG	ENCY		
Company/Org	ganization: <u>je</u>	rsey City Rede	velopment Age	ncy			
Address: 30	) Montgomery	St., Suite 900.	Jersey City, Nev	w Jersey 07302			
WELL LOC	ATION: Sit	e 114					
			fied Wes Eichfe	ld			
					Lot: 3A	Block: 202	6.1
Easting (X):	611278	Northing	(Y): 683563		DATE WELL ST	<b>ARTED:</b> February 21,	2012
			NAD83) - USFI	EET DA		PLETED: February 21,	
WELL USE:	RECOVER	Y					
Other Use(s)	:				Local ID: REI	L - 16	
WELL CON	STRUCTION	Ī					
		16.5	Finished We	ell Depth (ft.):	16.5 V	Well Surface: Flush	Mount
	Depth to	Depth to	Diameter		Material		Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs/	ch no.)
Casing	0	13.5	1.5		Steel	SC	h 40
Screen	13.5	16.5	4		SS		010
Serven				т			
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)
Grout	0	2	11	1.5	6	114	10
Gravel Pack	2	13.5	11	1.5		#0	
Gravel Pack	13.5	16.5	11	4		#0	
Grouting Met	thod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: Holle	ow Stem Augers	
	AL INFORMA	<u>ATION</u>					
Protective Ca		low land surfa			np Capacity: _ gpm		
	Measure Tool:		ce		al Design Head: _ ft. lling Fluid:		
	oment Period:				ll Rig: <u>CME 1050</u>		
Method of De	evelopment: <u>pu</u>				alth and Safety Plan S	Submitted? Yes	
Pump Type:							
ATTACHM	ENTS:						
GEOLOGIC		1 1	1 11				
0 - 12: grey GM - Silty gravels, gravel-sand-silt mixtures							
12 - 16.5: grey GM - Silty gravels, gravel-sand-silt mixtures							
ADDITIONAL INFORMATION:							

Company: SGS NORTH AMERICA INC.

Jeff Rausa,
Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number **E201201552** 

# WELL DECOMMISSIONING REPORT

PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Company/Org	ganization: Je	ersey City Rede	velopment Age	ncy				
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	ew Jersey 0730	)2			
WELL LOC	ATION: Sit	e 114						
Address: 88	30 Garfield Av	e Address verit	fied Wes Eichfel	d				
County: Hudson Municipality: Jersey City Lot: 3A Block: 2026.1								26.1
		Northing  NJ State Plane (	(Y): <u>683563</u> NAD83) - USFI	EET	DAT DECOMMIS	E WELL SIONED:_	September 1	1, 2013
WELL USE:	RECOVER	Y						
Other Use(s)	<b>:</b>				Local ID: RE	L - 16		
Reason for De	ecommissionii	ng: Site Excar	vated/Demolishe	ed				
Finished Well	l Depth (ft.):	16.5		W	as a New Well Dril	lled?	N	
Formation Ty	pe: Unconso	lidated		Ne	ew Well Permit Nur	nber:		
WELL DEC	OMMISSION	NING INFORM	MATION					
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	•	Material			/Screen # Used /ch no.)
Borehole								
Casing	0	13.5	1.5		Steel			ch 40
Screen	13.5	16.5	4	Sta	inless Steel			.010
MATERIAL								
	Depth to	Depth to	Outer	Inner	D (II )	Material Neat Cement (lbs.) Water (gal.)		
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.) 1.5	Diameter (in)	Bentonite (lbs.)	Neat Cem 4'	, ,	Water (gal.)
Grout	13.5	16.5	4	0	3	4′		3
Sand/Gravel						•	•	
ADDITIONA	AL INFORM	ATION						
Obstructions:	No			1	Authorization Offic	ial:		
Obstruction Type:					Authorization Number:			
Alternative Decomm. Method? No					Authorization Date:			
Method Used								
ATTACHME	ENTS:							

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Well Permit Number **E201201553** 

# **WELL PERMIT**

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Certifying Driller: WESLEY M EICHFELD, JOURNEY	MAN LICENSE # 0021243							
Permit Issued to: SGS NORTH AMERICA INC.	ermit 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: 30 Montgomery St., Suite 900								
City: Jersey City State: New Jerse	zip Code: <u>07302</u>							
PROPOSED WELL LOCATION								
Facility Name: Site 114								
Address: 880 Garfield Ave Address verified Wes Eichfeld								
County: Hudson Municipality: Jersey City	Lot: 3A Block: 2026.1							
Easting (X): 611251 Northing (Y): 683509 Local ID: REL - 17  Coordinate System: NJ State Plane (NAD83) - USFEET								
SITE CHARACTERISTICS								
PROPOSED CONSTRUCTION								
WELL USE: RECOVERY	Other Use(s):							
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation							
Depth (ft.): 40	Case ID Number:							
Pump Capacity (gpm): 1 Deviation Requested: N								
Drilling Method: Hollow Stem Augers								
Attachments:								
SPECIFIC CONDITIONS/REQUIREMENTS								

Approved by the authority of:

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201201553

#### 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]

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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]

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

Well Permit Number **E201201553** 

# MONITORING WELL RECORD

MONITORING WELL RECORD							
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT AG	ENCY		
Company/Org	ganization: <u>je</u>	rsey City Rede	velopment Age	ncy			
Address: 30	) Montgomery	St., Suite 900.	Jersey City, Nev	w Jersey 07302			
WELL LOC	ATION: Sit	e 114					
Address: 88	30 Garfield Av	e Address veri	fied Wes Eichfe	ld			
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 3A	Block: 20	26.1
Easting (X):	611251	Northing	(Y): <u>683509</u>		DATE WELL ST	TARTED: March 1, 20	012
Coordii	nate System: N	IJ State Plane (	NAD83) - USFI	EET <b>D</b> A	ATE WELL COM	PLETED: March 1, 20	012
WELL USE:	RECOVER	Y					
Other Use(s)	:				Local ID: RE	EL - 17	
WELL CON	STRUCTION	1					
Total Depth	Drilled (ft.):	14	Finished We	ell Depth (ft.):	14	Well Surface: Flus	h Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	14	11				,
Casing	0	11	1.5		Steel	S	sch 40
Screen	11	14	4		SS		.010
	Depth to	Depth to	Outer	Inner		Material	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Gravel Pack	2	11	11	1.5	0	#0	10
Gravel Pack	11	14	11	4		#0	
Grouting Met	thod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: Hol	low Stem Augers	
ADDITION	AL INFORMA	ATION					
Protective Ca	sing: <u>Yes</u>				np Capacity: _ gpm		
	Level: <u>3</u> ft. be Measure Tool:	elow land surfa	ce		al Design Head: _ f lling Fluid:	t.	
	oment Period:				ll Rig: <u>cme 1050</u>		
Method of De	evelopment: <u>pu</u>				alth and Safety Plan	Submitted? Yes	
Pump Type:							
<u>ATTACHM</u>	ENTS:						
GEOLOGIC LOG							
0 - 12: grey GM - Silty gravels, gravel-sand-silt mixtures 12 - 14: grey GM - Silty gravels, gravel-sand-silt mixtures							
ADDITIONAL INFORMATION:							
ADDITIONA	AL INFORMA	ATION:					

Record -- Page 1 of 1

Jeff Rausa,
Driller of Record: JOURNEYMAN LICENSE # 0020129

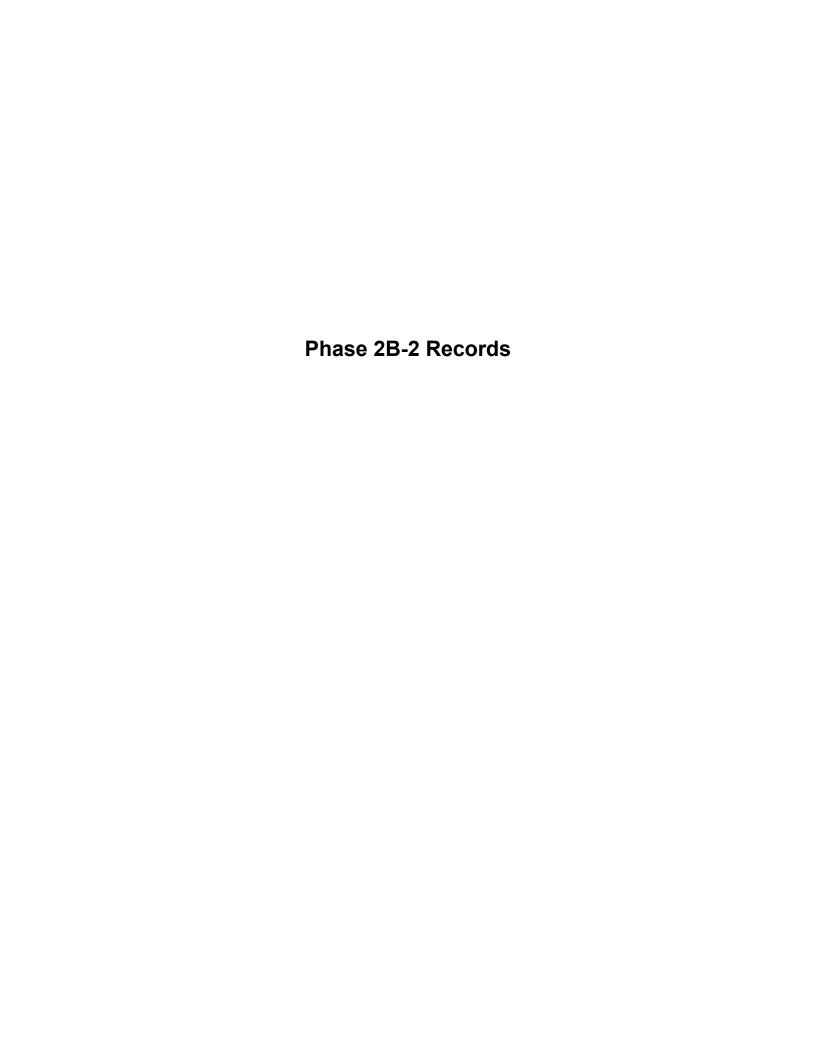
Company: SGS NORTH AMERICA INC.

Well Permit Number **E201201553** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Org	ganization: Je	ersey City Rede	velopment Age	ncy				
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	ew Jersey 0730	)2			
WELL LOC	ATION: Sit	e 114						
Address: 88	30 Garfield Av	e Address verif	fied Wes Eichfel	d				
County: Hudson Municipality: Jersey City Lot: 3A Block: 2026.1								26.1
			(Y): <u>683509</u> NAD83) - USFI	EET	DAT DECOMMIS	E WELL SIONED:_S	September 1	1, 2013
WELL USE:	RECOVER	Y						
Other Use(s)	<b>:</b>				Local ID: RE	L - 17		
Reason for De	ecommissionii	ng: Site Excar	vated/Demolishe	ed				
Finished Wel	l Depth (ft.):	14		W	as a New Well Dril	lled?	N	
Formation Ty	pe: Unconso	lidated		Ne	ew Well Permit Nur	nber:		
WELL DEC	OMMISSION	NING INFORM	MATION					
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material			/Screen # Used /ch no.)
Borehole								
Casing	0	11	1.5		Steel			ch 40
Screen	11	14	4	Sta	inless Steel			010
MATERIAL								
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Dantanita (llas)	Ma Nant Carr	Water (sel)	
Grout	0	11	1.5	0	Bentonite (lbs.)	Neat Cem	, ,	Water (gal.)
Grout	11	14	4	0	3	47		3
Sand/Gravel								
ADDITIONA	AL INFORM	ATION						
Obstructions:	No			1	Authorization Offic	ial:		
Obstruction Type:					Authorization Number:			
Alternative Decomm. Method? No					Authorization Date:			
Method Used								
ATTACHME	ENTS:							

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423



Well Permit Number **E201201535** 

# **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, JOURNEYMAN LICENSE # 0021243								
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.							
Company Address: PO BOX 423 WEST CREEK, NJ 0								
PROPERTY OWNER								
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	7							
Organization: jersey City Redevelopment Agency								
Address: 30 Montgomery Street Suite 900								
City: Jersey City State: New Jerse	zip Code: <u>07302</u>							
PROPOSED WELL LOCATION								
Engility Name: Site 114								
Address: 880 Garfield Ave								
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1							
Easting (X): 611089 Northing (Y): 683220 Local ID: MON - 25								
Coordinate System: NJ State Plane (NAD83) - USFEET								
SITE CHARACTERISTICS								
PROPOSED CONSTRUCTION								
WELL USE: MONITORING	Other Use(s):							
WELL USE. MONITORING	Regulatory Program							
Diameter (in.): 4	Requiring Wells/Borings: Owner Investigation							
Depth (ft.): 40	Case ID Number:							
Pump Capacity (gpm): 0	Deviation Requested: N							
Drilling Method: Hollow Stem Augers								
Attachments:								
SPECIFIC CONDITIONS/REQUIREMENTS								

Approved by the authority of:

**Approval Date:** February 1, 2012

Expiration Date: January 31, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201201535

### **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. [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. 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]

Well Permit Number **E201201535** 

# MONITORING WELL RECORD

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY								
Company/Organization: _jersey City Redevelopment Agency								
Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302								
WELL LOC	ATION: Sit	e 114						
Address: 88	30 Garfield Av	e						
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1								
Easting (X): 611089 Northing (Y): 683220 DATE WELL STARTED: February 2, 2012  Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: February 3, 2012								
	-		NAD83) - USFI	EE1 D	ATE WELL COMI	PLETED: Fe	bruary 3,	2012
	MONITOR					NI 05		
					Local ID: MC	DN - 25		
WELL CON	STRUCTION							
Total Depth	Drilled (ft.):	14	Finished We	ell Depth (ft.):	12	Well Surface:	Flusl	n Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material	W		/Screen # Used /ch no.)
Borehole	0	14	11				`	
Casing	0	7	4		PVC			40
Screen	7	12	4	V	wire PVC			.10
	Depth to	Depth to	Outer	Inner		Mate	rial	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cemer	nt (lbs.)	Water (gal.)
Grout	0	5	11	4	25	100		10
Gravel Pack	5 12	12 14	11 11	0		#0 s: #0 s:		
Gravel Pack Grouting Met	thod: Gravity	I	11		lling Method: Holl			
•	AL INFORM							
Protective Ca		<u>IIION</u>		Pui	np Capacity: _ gpm			
		low land surfa	ce		tal Design Head: _ ft	•		
	Measure Tool:				lling Fluid:			
	oment Period:				ll Rig: Mobile B-59	Ch		
Pump Type:	evelopment: <u>W</u>	naie pump		пе	alth and Safety Plan	Submitted? 1	es	
ATTACHMI	ENTS:							
GEOLOGIC								
	OT - Other Fil							
	<u> </u>	y sands, sand-s						
12 - 14: Brown PT - Peat, muck, and other highly organic soils								
ADDITIONA	AL INFORMA	ATION:						
	Willian	n R Petley,						

Company: SGS NORTH AMERICA INC.

Driller of Record: MONITORING LICENSE # 545487

Well Permit Number **E201201535** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Company/Org	Company/Organization: Jersey City Redevelopment Agency						
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	lew Jersey 0730	)2		
	WITH A OCATION OF 114						
	WELL LOCATION: Site 114						
Address: 88	30 Garfield Av	e					
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 2.A	Block: 20	)26.1
Easting (X):	611089	Northing	(Y): 683220		DAT	E WELL	
			NAD83) - USFI			SIONED: July 9, 201	4
WELL USE:	MONITOR	ING					
Other Use(s): Local ID: MON - 25							
			vated/Demolishe				
Finished Wel	l Depth (ft.):	12		V	Vas a New Well Dril	lled? N	
Formation Type: Unconsolidated New Well Permit Number:							
WELL DEC	OMMISSION	NING INFORM	MATION				
	Depth to	Depth to	Diameter		Material		g/Screen # Used
D 1.1	Top (ft.)	Bottom (ft.)	(inches)			(lbs	s/ch no.)
Borehole Casing	0	7	4		PVC		Sch 40
Screen	7	12	4	V	wire PVC	2	.010
		12	4	v	wherve		.010
MATERIAL	Depth to	Depth to	Outer	Inner	r Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	12	4	0	15	141	11
Sand/Gravel							
ADDITION	AL INFORMA	ATION					
Obstructions:	No				Authorization Offic	ial:	
Obstruction T	ype:				Authorization Numb	oer:	
Alternative D	ecomm. Method	od? No			Authorization Da	ate:	
Method Used							
ATTACHME							

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **E201201536** 

### **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, JOURNEY	Driller: WESLEY M EICHFELD, JOURNEYMAN LICENSE # 0021243						
Permit Issued to: SGS NORTH AMERICA INC.	it Issued to: SGS NORTH AMERICA INC.						
Company Address: PO BOX 423 WEST CREEK, NJ 08092							
PROPERTY OWNER							
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	<i>T</i>						
Organization: _jersey City Redevelopment Agency							
Address: 30 Montgomery Street Suite 900							
City: Jersey City State: New Jerse	ey Zip Code: <u>07302</u>						
PROPOSED WELL LOCATION							
Facility Name: Site 114							
Address: 880 Garfield Ave							
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1						
Easting (X): 611149 Northing (Y): 683326	Local ID: MON - 26						
Coordinate System: NJ State Plane (NAD83) - USFEET							
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
PROPOSED CONSTRUCTION  WELL USE: MONITORING	Other Use(s):						
WELL USE: MONITORING	Regulatory Program						
WELL USE: MONITORING  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
WELL USE: MONITORING  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
WELL USE: MONITORING  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 0  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						

Approved by the authority of:

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

**Approval Date:** February 1, 2012 **Expiration Date:** January 31, 2013

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

Well Permit Number E201201536

### 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. [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. 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]

Well Permit Number E201201536

DDADEDTV	OWNED.	M/A IEDCEW			ENCY		
	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY						
Company/Organization: jersey City Redevelopment Agency  Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302							
Address: 50	Montgomery	Street Suite 90	o jersey City, N	iew Jersey 0750	)/_		
WELL LOCATION: Site 114							
Address: 880 Garfield Ave							
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1							
Easting (X): 611149 Northing (Y): 683326 <b>DATE WELL STARTED:</b> March 6, 2012							
Coordii	nate System: N	IJ State Plane (	NAD83) - USFI	EET DA	ATE WELL COMI	PLETED: March 6, 20	12
WELL USE:	MONITOR	ING					
Other Use(s)	:				Local ID: MO	ON - 26	
WELL CON	STRUCTION	J					
		15	Finished We	ll Depth (ft.):	15	Well Surface: Flush	Mount
	Depth to	Depth to	Diameter		Material		/Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lbs/	/ch no.)
Casing	0	5	4		PVC	So	ch.40
Screen	5	15	4		PVC		020
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	`	\ /	Neat Cement (lbs.)	Water (gal.)
Grout Gravel Pack	0 2	2 15	10 10	4 4	15	50 # 0 Sand	9
	l		10		lling Method: Holl		
Grouting Method: Gravity method Drilling Method: Hollow Stem Augers  ADDITIONAL INFORMATION Protective Casing: No Pump Capacity: _gpm Static Water Level: 6 ft. below land surface Total Design Head: _ft. Water Level Measure Tool: M-Scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: Mobile B-59 Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes  Pump Type:  ATTACHMENTS:  GEOLOGIC LOG 0 - 14.5: Redish Brown OT - Other Fill; Manufacturing Debris 14.5 - 15: Brown PT - Peat, muck, and other highly organic soils  ADDITIONAL INFORMATION:							

Company: SGS NORTH AMERICA INC.

William G Petley, Driller of Record: JOURNEYMAN LICENSE # 0013761

Well Permit Number **E201201536** 

### WELL DECOMMISSIONING REPORT

PROPERTY OWNER:	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY					
Company/Organization: Jersey City Redevelopment Agency						
Address: 30 Montgome	ry Street Suite 90	00 Jersey City, N	New Jersey 0730	)2		
		•	•			
WELL LOCATION: _						
Address: 880 Garfield						
County: Hudson	Municipality	y: Jersey City		_ Lot: 2.A	Block: 202	26.1
Easting (X): 611149	Northing	(Y): 683326		БАТ		
Coordinate System					E WELL SIONED: October 23,	2013
WELL USE: MONITO	ORING				· · · · · · · · · · · · · · · · · · ·	
				Local ID: MC	ON - 26	
Reason for Decommission						
Finished Well Depth (ft.)	Finished Well Depth (ft.): 15 Was a New Well Drilled? N					
Formation Type: Unconsolidated New Well Permit Number:						
WELL DECOMMISSI	ONING INFOR	MATION				
Depth to		Diameter		Material		/Screen # Used
Top (ft.) Borehole	Bottom (ft.)	(inches)			(lbs/	(ch no.)
Casing 0	5	4		PVC	Sc	ch 40
Screen 5	15	4		PVC		020
MATERIALS USED	ļ.					
Depth to	Depth to	Outer	Inner	Material		
Top (ft.		Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout 0	15	4	0	15	141	12
Sand/Gravel						
ADDITIONAL INFOR	MATION					
					ial:	
Obstruction Type:				Authorization Numb	oer:	
Alternative Decomm. Me	thod? No			Authorization Da	ate:	
Method Used						
ATTACHMENTS:						

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **E201201537** 

### **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, JOURNEY	MAN LICENSE # 0021243						
Permit Issued to: SGS NORTH AMERICA INC.	nit Issued to: SGS NORTH AMERICA INC.						
Company Address: PO BOX 423 WEST CREEK, NJ 0	98092						
PROPERTY OWNER							
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	7						
Organization: jersey City Redevelopment Agency							
Address: 30 Montgomery Street Suite 900							
City: Jersey City State: New Jerse	zip Code: 07302						
PROPOSED WELL LOCATION							
Facility Name: Site 114							
Address: 880 Garfield Ave							
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1						
Easting (X): 611207 Northing (Y): 683430 Local ID: MON - 27  Coordinate System: NJ State Plane (NAD83) - USFEET							
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
WELL USE: MONITORING	Other Use(s):						
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
Depth (ft.): _40	Case ID Number:						
Pump Capacity (gpm): 0	Deviation Requested: N						
Drilling Method: Hollow Stem Augers							
Attachments:							
SPECIFIC CONDITIONS/REQUIREMENTS							

Approved by the authority of:

**Approval Date:** February 1, 2012

Expiration Date: January 31, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201201537

#### 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. [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. 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]

Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

# Well Permit Number E201201537

# MONITORING WELL RECORD

			MONIT	JKING WEI	LL RECORD		
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT AG	ENCY		
Company/Org	Company/Organization: jersey City Redevelopment Agency						
Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302							
WELL LOCATION: Site 114							
	30 Garfield Av				· · · · · · · · · · · · · · · · · · ·	D1 1 200	
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 2.A	Block: 202	26.1
Easting (X):	611207	Northing	(Y): <u>683430</u>		DATE WELL ST	ARTED: February 29	, 2012
Coordii	Coordinate System: NJ State Plane (NAD83) - USFEET <b>DATE WELL COMPLETED:</b> February 29, 2012						
WELL USE:	MONITOR	ING				-	
Other Use(s)	:				Local ID: MO	ON - 27	
	STRUCTION		T	11.75			3.6
Total Depth	Drilled (ft.):	14	Finished We	ll Depth (ft.):	14	Well Surface: Flush	Mount
	Depth to Depth to Diameter Material Wgt/Rating/Screen # Used						
Borehole	Top (ft.)	Bottom (ft.)	(inches)	(lbs/ch no.)			
Casing	0	4	4		PVC	So	ch.40
Screen	4	14	4		PVC		020
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	L	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	4	15	50	9
Gravel Pack	2	14	10	4		# 0 Sand	
Grouting Met	hod: Gravity	method		Dril	lling Method: Holl	ow Stem Augers	
ADDITIONA Protective Ca	AL INFORMA sing: No	<u>ATION</u>		Pun	np Capacity: _ gpm		
Static Water l	Level: 6 ft. be	elow land surfa	ce	Tota	al Design Head: _ ft	•	
	Measure Tool: oment Period: _				lling Fluid: ll Rig: Mobile B-59		
		<u>1                                    </u>	<u>p</u>		olth and Safety Plan	Submitted? Yes	
Pump Type:	_	-			·		
<b>ATTACHM</b>	ENTS:						
GEOLOGIC							
0 - 14: green/	yellow OT - O	ther Fill; Manu	ifacturing Debri	s			
ADDITION	AL INFORMA	ATION:					

William G Petley,

Driller of Record: JOURNEYMAN LICENSE # 0013761 Company: SGS NORTH AMERICA INC.

Well Permit Number **E201201537** 

### WELL DECOMMISSIONING REPORT

PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY						
Company/Org	Company/Organization: Jersey City Redevelopment Agency						
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2		
			<u> </u>	•			
	ATION: Sit						
Address: 88	30 Garfield Av	e					
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 2.A	Block: 202	26.1
Easting (X):	611207	Northing	(Y): 683430		БАТ	E WELL	
			NAD83) - USFI			SIONED: October 21,	2013
WELL USE:	MONITOR	ING				- · · · · · · · · · · · · · · · · · · ·	
					Local ID: MO	ON - 27	
			vated/Demolishe				
		14			/as a New Well Dril	led? N	
	pe: Unconso					nber:	
WELL DEC	OMMISSION	ING INFORM	MATION				
	Depth to	Depth to	Diameter	Material			/Screen # Used
	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)
Borehole	0	4	4		PVC		.1. 40
Casing	0 4	14	4		PVC		.020
Screen		14	4		PVC		.020
MATERIAL		Depth to	Outon	Inner		Material	
	Depth to Top (ft.)	Bottom (ft.)	Outer Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	14	4	0	15	141	12
Sand/Gravel							
ADDITIONA	AL INFORMA	ATION					
Obstructions:	No			1	Authorization Offic	ial:	
Obstruction T	Type:					oer:	
Alternative D	ecomm. Method	od? No			Authorization Da	ate:	
Method Used							
ATTACHME	ENTS:						

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **E201201554** 

### **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, JOURNEY	r: _WESLEY M EICHFELD, JOURNEYMAN LICENSE # 0021243						
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.						
Company Address: PO BOX 423 WEST CREEK, NJ 08092							
PROPERTY OWNER							
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	,						
Organization: _jersey City Redevelopment Agency							
Address: 30 Montgomery St., Suite 900							
City: Jersey City State: New Jerse	zip Code: <u>07302</u>						
PROPOSED WELL LOCATION							
Facility Name: Site 114							
Address: 880 Garfield Ave Address verified Wes Eichfeld							
County: Hudson Municipality: Jersey City	Lot: 4A Block: 2026.A						
Easting (X): 611221 Northing (Y): 683456 Local ID: REL - 18  Coordinate System: NJ State Plane (NAD83) - USFEET							
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
WELL USE: RECOVERY	Other Use(s):						
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
Depth (ft.):40	Case ID Number:						
Pump Capacity (gpm): 1	Deviation Requested: N						
Drilling Method: Hollow Stem Augers							
Attachments:							
SPECIFIC CONDITIONS/REQUIREMENTS							

Approved by the authority of:

**Approval Date:** February 2, 2012

Expiration Date: February 1, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201201554

#### 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. [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. 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]

Well Permit Number E201201554

			MONITO	ORING WE	LL RECORD		
PROPERTY	OWNER: _	N/A JERSEY	CITY REDEVE	LOPMENT AG	ENCY		
Company/Org	ganization: je	ersey City Rede	velopment Agei	псу			
Address: 30	) Montgomery	St., Suite 900	Jersey City, Nev	v Jersey 07302			
WELLLOC	WELL LOCATION: Site 114						
			fied Wes Eichfel	la			
					T -4. 4 A	D11 202	
County: Hu	dson	Municipality	y: Jersey City		_ Lot:_4A	Block: 202	.b.A
Easting (X): 611221 Northing (Y): 683456 <b>DATE WELL STARTED:</b> February 29, 2012							
Coordii	Coordinate System: NJ State Plane (NAD83) - USFEET <b>DATE WELL COMPLETED:</b> February 29, 2012						
WELL USE:	RECOVER	Y					
Other Use(s)	<b>:</b>				Local ID: RE	L - 18	
	STRUCTION						
			Einighad Wa	11 Donth (ft )	1.4	Well Surface: Flush	Mount
Total Depui		14					
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		/Screen # Used /ch no.)
Borehole	0	14	10			(103)	en no.)
Casing	0	11	1.5		Steel	Sc	ch.40
Screen	11	14	4	Sta	inless Steel	).	010
	Depth to	Depth to	Outer	Inner		Material	
т	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	1.5	15	50	9
Gravel Pack	2	11	10	1.5		# 0 Sand	
Gravel Pack	11	14	10	4		# 0 Sand	
Grouting Met	hod: Gravity	method		Dri	lling Method: Holl	low Stem Augers	
	AL INFORM	<u>ATION</u>					
Protective Ca		.1. 11			np Capacity: _ gpm		
	Level: <u>6</u> II. be Measure Tool:	elow land surfa	ce		al Design Head: _ ft lling Fluid:		
	ment Period:				ll Rig: <u>Mobile B-59</u>		
		entrifugal Pum	р		alth and Safety Plan	Submitted? Yes	
Pump Type:	_	<u>-</u>	_		·	<del></del>	
<b>ATTACHM</b>	ENTS:						
GEOLOGIC LOG							
0 - 14: Redish Brown OT - Other Fill; Manufacturing Debris							
ADDITIONAL INFORMATION:							

William G Petley,

Driller of Record: JOURNEYMAN LICENSE # 0013761 Company: SGS NORTH AMERICA INC.

Well Permit Number **E201201554** 

### WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: 1	N/A JERSEY C	CITY REDEVE	LOPMENT AG	ENCY			
Company/Org	Company/Organization: Jersey City Redevelopment Agency							
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	ew Jersey 0730	)2			
WELL LOC	ATION: Sit	e 114						
Address: 88	30 Garfield Av	e Address verif	fied Wes Eichfel	d				
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 4A		Block: 202	26.A
Easting (X): 611221 Northing (Y): 683456 Coordinate System: NJ State Plane (NAD83) - USFEET					DATE WELL DECOMMISSIONED: October 16, 2013			
WELL USE: RECOVERY								
Other Use(s)	<b>:</b>				Local ID: RE	L - 18		
Reason for Do	ecommissionii	ng: Site Excar	vated/Demolishe	ed				
Finished Well	l Depth (ft.):	14		W	as a New Well Dril	lled?	N	
Formation Type: Unconsolidated New Well Permit Number:								
WELL DECOMMISSIONING INFORMATION								
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material			/Screen # Used /ch no.)
Borehole								
Casing	0	11	1.5		Steel			ch 40
Screen	11	14	4	Sta	inless Steel			.010
MATERIAL								
	Depth to	Depth to	Outer	Inner		Material		***
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.) 1.5	Diameter (in)	Bentonite (lbs.)	Neat Cem	, ,	Water (gal.)
Grout	11	14	4	0	3	47		3
Sand/Gravel							L	
ADDITION	AL INFORMA	ATION						
Obstructions:	No			1	Authorization Offic	ial:		
Obstruction Type:					Authorization Numb	ber:		
Alternative Decomm. Method? No					Authorization D	ate:		
Method Used								
ATTACHME	ENTS:							

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **E201200571** 

### **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, JOURNEY	MAN LICENSE # 0021243					
Permit Issued to: SGS NORTH AMERICA INC.	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: 30Montgomery Street, Suite 900						
City: Jersey City State: New Jerse	zip Code: <u>07302</u>					
PROPOSED WELL LOCATION						
Facility Name: Site 114						
Address: 880 Garfield Ave						
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1					
Easting (X): 611192 Northing (Y): 683403 Local ID: REL - 19  Coordinate System: NJ State Plane (NAD83) - USFEET						
SITE CHARACTERISTICS						
PROPOSED CONSTRUCTION						
WELL USE: RECOVERY	Other Use(s):					
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation					
Depth (ft.): _40	Case ID Number:					
Pump Capacity (gpm): 1	Deviation Requested: N					
Drilling Method: Hollow Stem Augers						
Attachments:						
SPECIFIC CONDITIONS/REQUIREMENTS						

Approved by the authority of:

Approval Date: January 17, 2012

**Expiration Date:** January 16, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201200571

#### 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. [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. 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]

Well Permit Number **E201200571** 

# MONITORING WELL RECORD

			MONITO	ORING WE	LL RECORD		
PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Company/Org	ganization: <u>Je</u>	ersey City Rede	evelopment Age	ncy			
Address: 30	Montgomery	Street, Suite 90	0 Jersey City, N	lew Jersey 0730	)2		
WELL LOC	ATION: Sit	e 114					
Address: 88	Address: 880 Garfield Ave						
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 2.A	Block: 202	6.1
Easting (X):	611192	Northing	(Y): <u>683403</u>		DATE WELL ST	TARTED: February 29,	2012
Coordii	nate System: N	IJ State Plane (	NAD83) - USFI	EET DA	ATE WELL COM	PLETED: February 29,	2012
WELL USE:	RECOVER	Y					
	-				Local ID: RE	L - 19	
WELL CON	STRUCTION	1					
		14	Finished We	ell Depth (ft.):	14	Well Surface: Flush	Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		Screen # Used ch no.)
Borehole	0	14	10			(	
Casing	0	11	1.5	Steel Sch.40			h.40
Screen	11	14	4	Sta	inless Steel	).	)10
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	1.5	15	50	9
Gravel Pack	2	11	10	1.5		# 0 Sand	
Gravel Pack	11	14	10	4		# 0 Sand	
Grouting Met	hod: Gravity	method		Dri	lling Method: Holl	low Stem Augers	
ADDITIONAL INFORMATION  Protective Casing: No Static Water Level: 6 ft. below land surface Water Level Measure Tool: M-Scope Well Development Period: 1 hrs.  Method of Development: Centrifugal Pump Pump Type:  Pump Capacity: _ gpm Total Design Head: _ ft. Drilling Fluid: Drill Rig: Mobile B-59 Health and Safety Plan Submitted? Yes							
ATTACHMI CEOLOGIC							
GEOLOGIC LOG  0 - 14: Redish Brown OT - Other Fill; Manufacturing Debris							
ADDITIONAL INFORMATION:							
ADDITIONAL IN CALIFORNIA.							

William G Petley,

Driller of Record: JOURNEYMAN LICENSE # 0013761 Company: SGS NORTH AMERICA INC.

Well Permit Number **E201200571** 

### WELL DECOMMISSIONING REPORT

PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Company/Org	Company/Organization: Jersey City Redevelopment Agency							
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2			
			•	•				
	ATION: Sit							
	30 Garfield Av							
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 2.A	Block: 202	26.1	
Easting (X):	611192	Northing	(Y): 683403		БАТ	E WELL		
			NAD83) - USFI			SIONED: October 9, 2	013	
WELL USE:	RECOVER	Y				· · · · · · · · · · · · · · · · · · ·		
Other Use(s)	-				Local ID: RE	L - 19		
Reason for D			vated/Demolishe					
Finished Wel	l Depth (ft.):	14		W	/as a New Well Dril	led? N		
Formation Ty	pe: Unconso	lidated		Ne	ew Well Permit Nun	nber:		
WELL DEC	OMMISSION	NING INFORM	MATION					
	Depth to	Depth to	Diameter	Material			Wgt/Rating/Screen # Used	
D 1 . 1 .	Top (ft.)	Bottom (ft.)	(inches)			(lbs/	/ch no.)	
Borehole Casing	0	14	1.5		Steel	0.0	ch 40	
Screen	11	14	4	Sta	inless Steel		010	
		17		Sta	mess Steel	<u> </u>	010	
MATERIAL	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)		Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout	0	14	4	0	15	141	12	
Sand/Gravel								
ADDITION	AL INFORMA	ATION						
Obstructions:	No				Authorization Offic	ial:		
Obstruction T	ype:				Authorization Numb	per:		
Alternative Decomm. Method? No Authorization Date:								
Method Used								
ATTACHME	ENTS:							

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Well Permit Number **E201200572** 

### **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, JOURNEY	MAN LICENSE # 0021243					
Permit Issued to: SGS NORTH AMERICA INC.	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: 30Montgomery Street, Suite 900						
City: Jersey City State: New Jerse	zip Code: <u>07302</u>					
PROPOSED WELL LOCATION						
Facility Name: Site 114						
Address: 880 Garfield Ave						
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1					
Easting (X): 611163 Northing (Y): 683351 Local ID: REL - 20  Coordinate System: NJ State Plane (NAD83) - USFEET						
SITE CHARACTERISTICS						
PROPOSED CONSTRUCTION						
WELL USE: RECOVERY	Other Use(s):					
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation					
Depth (ft.): 40	Case ID Number:					
Pump Capacity (gpm): 1	Deviation Requested: N					
Drilling Method: Hollow Stem Augers						
Attachments:						
SPECIFIC CONDITIONS/REQUIREMENTS						

Approved by the authority of:

Approval Date: January 17, 2012

**Expiration Date:** January 16, 2013

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

Well Permit -- Page 1 of 2

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

Well Permit Number E201200572

#### 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. [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. 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]

Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

# Well Permit Number E201200572

# **MONITORING WELL RECORD**

	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY						
Company/Organization: Jersey City Redevelopment Agency							
Address: 30	Montgomery	Street, Suite 90	0 Jersey City, N	lew Jersey 0730	)2		
WELL LOCATION: Site 114  Address: 880 Garfield Ave							
			v: Jersey City		Lot: 2.A	Block: 20	)26.1
Easting (X): 611163 Northing (Y): 683351 DATE WELL STARTED: March 6, 2012  Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: March 6, 2012							
	•		14AD03) - 03I I		ATE WELL COM	PLETED: March 6, 2	012
	RECOVER				I IID DI	EL 20	
Other Use(s)	<b>:</b>				Local ID: RE	EL - 20	
WELL CON	STRUCTION	1					
Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount				h Mount			
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material	_	g/Screen # Used s/ch no.)
Borehole	0	15	10				
Casing	0	12	1.5	G.	Steel	2	Sch.40
Screen         12         15         4         Stainless Steel         .010					.010		
	Depth to	Depth to	Outer	Inner	D (11 )	Material	With a first
Grout	Top (ft.)	Bottom (ft.)	10	1.5	Bentonite (lbs.)	Neat Cement (lbs.) 50	Water (gal.) 10
Gravel Pack	_	12	10	1.5		# 0 Sand	10
Gravel Pack	12	15	10	4		# 0 Sand	
Grouting Met	thod: Gravity	method		Dri	lling Method: Hol	low Stem Augers	
	AL INFORMA	<u>ATION</u>		_			
Protective Ca Static Water		elow land surfa	ce.		np Capacity: _ gpm al Design Head: _ f		
	Measure Tool:			Dri	lling Fluid:		
	ment Period:				ll Rig: Mobile B-59		
Pump Type:	evelopment: C	entrifugal Pum	<u>0</u>	Неа	alth and Safety Plan	Submitted? Yes	
ATTACHM	ENTS:						
GEOLOGIC							
		- Other Fill; M	anufacturing De	ebris			
14.5 - 15: Brown PT - Peat, muck, and other highly organic soils							
ADDITIONAL INFORMATION:							

Company: SGS NORTH AMERICA INC.

William G Petley, Driller of Record: JOURNEYMAN LICENSE # 0013761

Well Permit Number **E201200572** 

# WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY							
Company/Org	ganization: Je	ersey City Rede	evelopment Age	ncy			
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	lew Jersey 0730	)2		
WELL LOC	ATION: Sit	e 114					
	30 Garfield Av						
			y: Jersey City		Lot: 2.A	Block: 20	26.1
Easting (X):	611163	Northing	(Y): 683351				
_			NAD83) - USFI	EET		<b>E WELL</b> SIONED: October 15,	, 2013
WELL USE:	RECOVER	Y					
Other Use(s)	Other Use(s): Local ID: REL - 20						
Reason for De	ecommissionii	ng: Site Exca	vated/Demolishe	ed			
Finished Well Depth (ft.): 15 Was a New Well Drilled? N							
Formation Type: Unconsolidated New Well Permit Number:							
WELL DEC		ING INFOR	MATION				
	Depth to	Depth to	Diameter		Material		g/Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(IDS	s/ch no.)
Casing	0	12	1.5		Steel	S	ch 40
Screen	12	15	4	Sta	inless Steel		.010
MATERIAL	S USED	•					
	Depth to	Depth to	Outer	Inner		Material	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.) 1.5	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.) 94	Water (gal.)
Sand/Gravel	0	13	1.5	U	J	74	Ö
<u> </u>	AL INFORMA	ATION					
Obstructions:	No				Authorization Offic	ial:	
Obstruction T	`ype:				Authorization Numb	oer:	
Alternative Decomm. Method? No Authorization Date:							
Method Used							
ATTACHME	ENTS:						

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **E201200573** 

### **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, JOURNEY	MAN LICENSE # 0021243						
Permit Issued to: SGS NORTH AMERICA INC.	to: SGS NORTH AMERICA INC.						
Company Address: PO BOX 423 WEST CREEK, NJ 08092							
PROPERTY OWNER							
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	,						
Organization:							
Address: 30Montgomery Street, Suite 900							
City: Jersey City State: New Jerse	zip Code: <u>07302</u>						
PROPOSED WELL LOCATION Facility Name: Site 114							
Address: 880 Garfield Ave  County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1						
County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1  Easting (X): 611134 Northing (Y): 683298 Local ID: REL - 21  Coordinate System: NJ State Plane (NAD83) - USFEET							
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
WELL USE: RECOVERY	Other Use(s):						
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
Depth (ft.): 40	Case ID Number:						
Pump Capacity (gpm): 1	Deviation Requested: N						
Drilling Method: Hollow Stem Augers							
Attachments:							
SPECIFIC CONDITIONS/REQUIREMENTS							

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

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

Well Permit Number E201200573

#### 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. [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. 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]

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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]

Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

# Well Permit Number E201200573

# MONITORING WELL RECORD

	MONTORING WEEL RECORD						
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT AC	ENCY		
Company/Organization: Jersey City Redevelopment Agency							
Address: 30	Montgomery	Street, Suite 90	0 Jersey City, N	lew Jersey 073	02		
WELL LOC	ATION: Sit	e 114					
Address: 88	30 Garfield Av	e					
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 2.A	Block: 2	026.1
Easting (X):	611134	Northing	(Y): <u>683298</u>		DATE WELL ST	CARTED: March 7, 2	2012
Coordi	nate System: N	IJ State Plane (	NAD83) - USFI	EET D	ATE WELL COMI	PLETED: March 7, 2	2012
WELL USE:	RECOVER	Y					
Other Use(s)	:				Local ID: RE	L - 21	
WELL CON	STRUCTION	1					
Total Depth	Drilled (ft.):	15	Finished We	ll Depth (ft.):	15	Well Surface: Flu	sh Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		ng/Screen # Used
Borehole	0	15	10				is, on non
Casing	0	5	4		PVC		Sch.40
Screen	5	15	4		PVC		.020
	Depth to	Depth to	Outer	Inner		Material	T
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in) 4	Bentonite (lbs.)	Neat Cement (lbs.) 50	Water (gal.)
Gravel Pack	2	15	10	4	13	# 0 Sand	10
I	thod: Gravity	method		Dri	lling Method: Holl		
ADDITIONAL INFORMATION Protective Casing: No Pump Capacity: _ gpm Static Water Level: 6 ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: M-Scope Drilling Fluid: Well Development Period: 1 hrs. Drill Rig: Mobile B-59 Method of Development: Centrifugal Pump Health and Safety Plan Submitted? Yes  ATTACHMENTS:							
GEOLOGIC		Other Fill: M	anufacturing De	hris			
			er highly organi				
ADDITION	AL INFORMA	ATION:					
William G Petley,							

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0013761

Well Permit Number **E201200573** 

# WELL DECOMMISSIONING REPORT

PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY						
Company/Organization: Jersey City Redevelopment Agency							
Address: 30	) Montgomery	Street Suite 90	00 Jersey City, N	lew Jersey 0730	)2		
WELLLOC	ATION: Site	o 114		•			
	30 Garfield Av						
County: Hudson Municipality: Jersey City					_ Lot: <u>2.A</u>	Block: <u>20</u>	)26.1
Easting (X): 611134 Northing (Y): 683298 DATE WELL							
Coordii	nate System: N	IJ State Plane (	NAD83) - USFI	EET		SIONED: November	13, 2013
WELL USE:	RECOVER	Y					
					Local ID: RE	L - 21	
			vated/Demolishe				
Finished Well Depth (ft.): 15 Was a New Well Drilled? N							
Formation Type: Unconsolidated New Well Permit Number:							
WELL DEC	OMMISSION	ING INFORM	MATION				
	Depth to	Depth to	Diameter		Material		g/Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(lb	s/ch no.)
Casing	0	5	4		PVC		Sch 40
Screen	5	15	4		pvc		.020
MATERIAL	S USED		<u> </u>		F		
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` /	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	15	4	0	10	188	16
Sand/Gravel	A L INTEGRAL	ELON					
	AL INFORMA						
						ial:	
Obstruction Type:							
	ecomm. Method	-			Authorization Da	ate:	
Method Used							
ATTACHME	ENTS:						

Thomas L Hanley
JOURNEYMAN
SGS NORTH AMERICA INC.
PO BOX 423

Well Permit Number **E201200574** 

### **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, JOURNEY	MAN LICENSE # 0021243					
Permit Issued to: SGS NORTH AMERICA INC.	Issued to: SGS NORTH AMERICA INC.					
Company Address: PO BOX 423 WEST CREEK, NJ 0	3092					
PROPERTY OWNER						
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY						
Organization:Jersey City Redevelopment Agency						
Address: 30Montgomery Street, Suite 900						
City: Jersey City State: New Jerse	y Zip Code: <u>07302</u>					
PROPOSED WELL LOCATION						
Facility Name: Site 114						
Address: 880 Garfield Ave						
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1					
Easting (X): 611104 Northing (Y): 683246	Local ID: REL - 22					
Coordinate System: NJ State Plane (NAD83) - USFEET						
SITE CHARACTERISTICS						
PROPOSED CONSTRUCTION						
WELL USE: RECOVERY	Other Use(s):					
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation					
Depth (ft.): 40	Case ID Number:					
Pump Capacity (gpm): 1	Deviation Requested: N					
Drilling Method: Hollow Stem Augers						
Attachments:						
SPECIFIC CONDITIONS/REQUIREMENTS						

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Jerry D. K. Jawski Terry Pilawski, Chief

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

Well Permit Number E201200574

#### 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]

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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]

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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]

Well Permit Number **E201200574** 

# MONITORING WELL RECORD

			MONT	OKING WE	LL KECOKD		
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT AC	GENCY		
Company/Organization:Jersey City Redevelopment Agency							
Address: 30	Montgomery	Street, Suite 90	0 Jersey City, N	lew Jersey 073	02		
WELL LOC	ATION: Sit	e 114					
Address: 88	30 Garfield Av	e					
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 2.A	Block: 20	26.1
Easting (X):	611004	Northing	(Y): <u>683246</u>		DATE WELL ST	CARTED: February 3,	2012
Coordi	nate System: N	IJ State Plane (	NAD83) - USFI	EET <b>D</b>	ATE WELL COMI	PLETED: February 6,	2012
WELL USE:	RECOVER	Y					
Other Use(s)	:				Local ID: RE	L - 22	
WELL CON	STRUCTION	Ī					
Total Depth	Drilled (ft.):	14	Finished We	ell Depth (ft.):_	12	Well Surface: Flush	n Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		/Screen # Used /ch no.)
Borehole	0	14	11				
Casing	0	10	1.5		vanized Steel		40
Screen	10	13	4	St	ainless steel		.010
	Depth to	Depth to	Outer	Inner		Material	
Grout	Top (ft.) 5	Bottom (ft.)	Diameter (in.)	Diameter (in) 1.5	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Gravel Pack	7	13	11	4	30	#0 sand	
Gravel Pack	13	14	11	0		#0 sand	
Grouting Met	thod: <u>Gravity</u>	method		Dr	illing Method: Holl	ow Stem Augers	
	AL INFORMA	<b>ATION</b>					
Protective Ca		1 1 1 0			mp Capacity: _ gpm		
	Level: <u>5</u> ft. be Measure Tool:	elow land surfa	ce		tal Design Head: _ ft illing Fluid:	•	
	oment Period:				ill Rig: Mobile B-59		
Method of De	evelopment: W	<del></del> .			alth and Safety Plan	Submitted? Yes	
Pump Type:							
ATTACHM	ENTS:						
GEOLOGIC		1					
	OT - Other Fil	y sands, sand-s	silt mixtures				
			highly organic	soils			
	AL INFORMA						
ADDITIONA	AL INFORMI	ATTON.					
	Willian	n R Petley,					

Driller of Record: MONITORING LICENSE # 545487

Company: SGS NORTH AMERICA INC.

Well Permit Number **E201200574** 

# WELL DECOMMISSIONING REPORT

PROPERTY	PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY						
Company/Organization: Jersey City Redevelopment Agency							
Address: 30	) Montgomery	Street Suite 90	0 Jersey City, N	lew Jersey 0730	)2		
WELLIOC	ATION: Sit	e 11/I					
	-						
	30 Garfield Av		I C'4		I 2 A	D11. 20	26.1
County: Hu	ason	_ Municipality	y: Jersey City		_ Lot:2.A	Block: 20	20.1
Easting (X):	611004	Northing	(Y): <u>683246</u>		DAT	E WELL	
Coordi	nate System: N	IJ State Plane (	NAD83) - USFI	EET		SIONED: November 2	20, 2013
WELL USE:	RECOVER	Y					
Other Use(s)	:				Local ID: RE	L - 22	
Reason for D	ecommissionin	ng: Site Excar	vated/Demolishe	ed			
Finished Well Depth (ft.): 12 Was a New Well Drilled? N							
Formation Type: Unconsolidated New Well Permit Number:							
WELL DEC	OMMISSION	NING INFORM	MATION				
	Depth to	Depth to	Diameter		Material		g/Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(IDS	s/ch no.)
Casing	0	10	1.5		Steel	S	ch 40
Screen	10	13	4	Sta	inless Steel		.010
MATERIAL	S USED	•					
	Depth to	Depth to	Outer	Inner		Material	
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.) 1.5	Diameter (in)	Bentonite (lbs.) 5	Neat Cement (lbs.) 94	Water (gal.)
Sand/Gravel	0	13	1.5	0	3	24	8
ADDITION	AL INFORMA	ATION					
					Authorization Offic	rial:	
						ber:	
Alternative D	ecomm. Metho	od? No			Authorization D	ate:	
Method Used							

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **E201200575** 

### **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, JOURNEY	YMAN LICENSE # 0021243				
Permit Issued to: SGS NORTH AMERICA INC.					
Company Address: PO BOX 423 WEST CREEK, NJ (	Company Address: PO BOX 423 WEST CREEK, NJ 08092				
PROPERTY OWNER					
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	7				
Organization: Jersey City Redevelopment Agency					
Address: 30Montgomery Street, Suite 900					
City: Jersey City State: New Jerse	zip Code: <u>07302</u>				
PROPOSED WELL LOCATION					
Facility Name: Site 114					
Address: 880 Garfield Ave					
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1				
Easting (X): 611075 Northing (Y): 683194  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: REL - 23				
SITE CHARACTERISTICS					
PROPOSED CONSTRUCTION					
I NOI OBED CONSTRUCTION					
WELL USE: RECOVERY	Other Use(s):				
WELL USE: RECOVERY	Regulatory Program				
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation				
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:				
WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation				
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:				
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:				
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:				
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:				
WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:				

Approved by the authority of:

Bob Martin Commissioner

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Jerry D. P. lawski

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

Well Permit Number E201200575

#### 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. [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. 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]

Well Permit Number **E201200575** 

# MONITORING WELL RECORD

			14101111	OMING WE	LL RECORD		
PROPERTY	OWNER: 1	N/A JERSEY	CITY REDEVE	LOPMENT AC	GENCY		
Company/Organization:Jersey City Redevelopment Agency							
Address: 30	Montgomery	Street, Suite 90	0 Jersey City, N	New Jersey 073	02		
WELL LOC	ATION: Sit	e 114					
Address: 88	30 Garfield Av	e					
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 2.A	Block: 20	26.1
Easting (X):	611075	Northing	(Y): <u>683194</u>		DATE WELL ST	CARTED: February 2,	2012
			NAD83) - USFI	0.000	ATE WELL COMI	PLETED: February 2,	2012
WELL USE:	RECOVER	Y					
Other Use(s)	:				Local ID: RE	L - 23	
WELL CON	STRUCTION	1					
Total Depth	Drilled (ft.):	14	Finished We	ell Depth (ft.):	12	Well Surface: Flus	h Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	14	11				
Casing	0	9	1.5		vanized Steel		304
Screen	9	12	4	St	ainless steel		.10
	Depth to	Depth to	Outer	Inner	D : : (II )	Material	W. ( 1)
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.) 50	Neat Cement (lbs.) 250	Water (gal.)
Gravel Pack	7	12	11	4	30	#0 sand	22
Gravel Pack	12	14	11	0		#0 sand	
Grouting Met	thod: <u>Gravity</u>	method		Dri	illing Method: Holl	ow Stem Augers	
<b>ADDITION</b>	AL INFORMA	ATION					
Protective Ca		1 1 1 0			mp Capacity: _ gpm		
	Level: <u>7</u> ft. be Measure Tool:	elow land surfa	ce		tal Design Head: _ ft illing Fluid:	•	
	oment Period:				ill Rig: <u>Mobile B-59</u>		
Method of De	evelopment: W			Не	alth and Safety Plan	Submitted? Yes	
Pump Type:							
ATTACHM							
O = 5: Brown	C <b>LOG</b> OT - Other Fil	1					
		y sands, sand-s	silt mixtures				
	<u> </u>	•	highly organic	soils			
ADDITION	AL INFORMA	ATION:					
		D.D. d					
	Willian	n R Petley,					

Driller of Record: MONITORING LICENSE # 545487

Company: SGS NORTH AMERICA INC.

Well Permit Number **E201200575** 

### WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY					
Company/Organization: Jersey City Redevelopment Agency					
Address: 30 Montgomery Street Sui	te 900 Jersey City, N	New Jersey 0730	)2		
WELL LOCATION: Site 114					
Address: 880 Garfield Ave					
County: Hudson Munici	pality: Jersey City		Lot: 2.A	Block: 202	6.1
Easting (X): 611075 North	ning (Y): 683194		БАТ	E WELL	
Coordinate System: NJ State Pla	nne (NAD83) - USF	EET		SIONED: November 2	0, 2013
WELL USE: RECOVERY					-
Other Use(s): Local ID: REL - 23					
Reason for Decommissioning: Site I					
Finished Well Depth (ft.): 12 Was a New Well Drilled? N					
Formation Type: Unconsolidated New Well Permit Number:					
WELL DECOMMISSIONING INF	ORMATION				
Depth to Depth	o Diameter	Material			Screen # Used
Top (ft.) Bottom (	ft.) (inches)			(lbs/	ch no.)
Borehole			G. 1		1 40
Casing 0 9	1.5	G.	Steel		h 40
Screen         9         12	4	Sta	inless Steel	).	010
MATERIALS USED					
Depth to Depth Top (ft.) Bottom (		Inner Diameter (in)	Dantanita (lba)	Material	Water (sel)
Top (ft.)   Bottom (   Grout   0   12	1.5	0	Bentonite (lbs.)	Neat Cement (lbs.) 94	Water (gal.)
Sand/Gravel	1.5	U	3	77	0
ADDITIONAL INFORMATION		1			
Obstructions: No		1	Authorization Offic	rial:	
				ber:	
Alternative Decomm. Method? No				ate:	
Method Used					

Thomas L Hanley SGS NORTH AMERICA INC. JOURNEYMAN PO BOX 423

Well Permit Number **E201200576** 

### **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						
Certifying Driller: WESLEY M EICHFELD, JOURNEY	MAN LICENSE # 0021243						
Permit Issued to: SGS NORTH AMERICA INC.	Permit Issued to: SGS NORTH AMERICA INC.						
Company Address: PO BOX 423 WEST CREEK, NJ 0	Company Address: PO BOX 423 WEST CREEK, NJ 08092						
PROPERTY OWNER							
Name: N/A JERSEY CITY REDEVELOPMENT AGENCY	•						
Organization: Jersey City Redevelopment Agency							
Address: 30Montgomery Street, Suite 900							
City: Jersey City State: New Jersey Zip Code: 07302							
PROPOSED WELL LOCATION							
Facility Name: Site 114							
Address: 880 Garfield Ave							
County: Hudson Municipality: Jersey City	Lot: 2.A Block: 2026.1						
Easting (X): 611045 Northing (Y): 683141  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: REL - 24						
•							
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
WELL USE: RECOVERY	Other Use(s):						
Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
Donth (ft.): 40	Case ID Number:						
Pump Capacity (gpm): 1	Deviation Requested: N						
Drilling Method: Hollow Stem Augers	Deviation requested: 1						
Attachments:							
SPECIFIC CONDITIONS/REQUIREMENTS							
-							

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

# 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 E201200576

### **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. [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. 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]

Well Permit Number **E201200576** 

## **MONITORING WELL RECORD**

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY  Company/Organization: Jersey City Redevelopment Agency  Address: 30Montgomery Street, Suite 900 Jersey City, New Jersey 07302								
Address. 30	nvionigomery	Sireet, Suite 90	o jersey City, is	new Jersey 0730	J2			
WELL LOC	ATION: Sit	e 114						
Address: 88	30 Garfield Av	e						
County: Hu	dson	_ Municipality	y: <u>Jersey City</u>		Lot: 2.A		Block: 20	26.1
Easting (X):	611045	Northing	(Y): 683141		DATE WELL ST	CARTE	:D· February 28	3 2012
			NAD83) - USFI		ATE WELL COMI			
	RECOVER		, , , , , , , , , , , , , , , , , , ,		ATE WELL COM		D. 1 cordary 20	5, 2012
					Local ID. DE	1 24		
					Local ID: RE	L - 24	1	
WELL CON	STRUCTION	I						
Total Depth	Drilled (ft.):	15	Finished We	ell Depth (ft.):	15	Well Su	urface: Flus	h Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material			g/Screen # Used s/ch no.)
Borehole	0	15	11					
Casing	0	12	1.5		Steel		S	ch 40
Screen	12	15	4		SS			.010
	Depth to	Depth to	Outer	Inner			Material	
C 4	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat (	Cement (lbs.)	Water (gal.)
Grout Gravel Pack	2	12	11 11	1.5 1.5	6		#0	10
Gravel Pack	12	15	11	4			#0	
Grouting Met	hod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: Holl	low Ste	m Augers	
ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type:	Grouting Method: Pressure method (Tremie Pipe)  Drilling Method: Hollow Stem Augers  ADDITIONAL INFORMATION  Protective Casing: Yes Pump Capacity: _ gpm Static Water Level: 3_ ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: m scope Drilling Fluid: Well Development Period: 1_ hrs. Drill Rig: cme 1050 Method of Development: pump Health and Safety Plan Submitted? Yes  Pump Type:  ATTACHMENTS:							
0 - 12: grey G		els, gravel-san	d-silt mixtures					
,		, 0	nd-silt mixtures					
ADDITION	AL INFORMA	ATION:						
	Leff Ra	1100						

Record -- Page 1 of 1

Driller of Record: JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

Well Permit Number **E201200576** 

## WELL DECOMMISSIONING REPORT

PROPERTY	OWNER: 1	N/A JERSEY C	CITY REDEVE	LOPMENT AG	ENCY			
Company/Org	ganization: <u>Je</u>	ersey City Rede	evelopment Agei	ncy				
Address: 30	Address: 30 Montgomery Street Suite 900 Jersey City, New Jersey 07302							
WELL LOC	ATION: Site	e 114						
Address: 88	30 Garfield Av	e						
County: Hu	dson	_ Municipality	y: Jersey City		Lot: 2.A		Block:20	26.1
Easting (X): 611045 Northing (Y): 683141 Coordinate System: NJ State Plane (NAD83) - USFE				DATE WELL				1
WELL USE:	RECOVER	Y						
Other Use(s)	<b>:</b>				Local ID: RE	L - 24		
Reason for Do	ecommissionir	ng: Site Excar	vated/Demolishe	ed				
Finished Wel	l Depth (ft.):	15		W	as a New Well Dril	led?	N	
Formation Type: Unconsolidated New Well Permit Number:								
WELL DEC	OMMISSION	NING INFORM	MATION					
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		Wgt/Rating/Screen # Used (lbs/ch no.)	
Borehole								
Casing	0	12	1.5		Steel		S	ch 40
Screen	12	15	4	Sta	inless Steel			.010
MATERIAL	S USED							
	Depth to	Depth to	Outer	Inner			Material	
Cart	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat (	Cement (lbs.)	Water (gal.)
Grout Grout	0 12	12 15	1.5	0	3 3		47 47	3 3
Sand/Gravel	12	13	7	O	3		47	3
	AL INFORMA	ATION						
Obstructions:	No				Authorization Offic	ial:		
					Authorization Numb	er:		
Alternative Decomm. Method? No					Authorization Da	ate:		
Method Used								
ATTACHME	ENTS:							

Thomas L Hanley SGS NORTH AMERICA INC. PO BOX 423

Sealing Driller: LICENSE # 0001181 Company: West Creek (Ocean), NJ 08092

	Avenue Group rsey City, New Jersey
C-4	Wells Decommissioned via a Request for Alternate Decommissioning

Remedial Action Report - Site 114 (AOC 114-1A, AOC 114-2, AOC 114-3, AOC 114-4A, AOC 114-4B, and AOC 114-5) Soil

## **Appendix C-4**

# Wells Decommissioned via a Request for Alternate Decommissioning Site 114, Garfield Avenue Group PPG, Jersey City, New Jersey

Well ID	Permit Number	Phase	Purpose
114REL6*	E201200587	IRM #1	Recovery
114REL7*	E201200588	IRM #1	Recovery
MW3B	2600069775	Phase 1C	Monitoring
MW4C	2600077353	Phase 1B	Monitoring
MW1D	2600068662	Phase 2B-1	Monitoring
MW11B	2600076983	Phase 2A	Monitoring

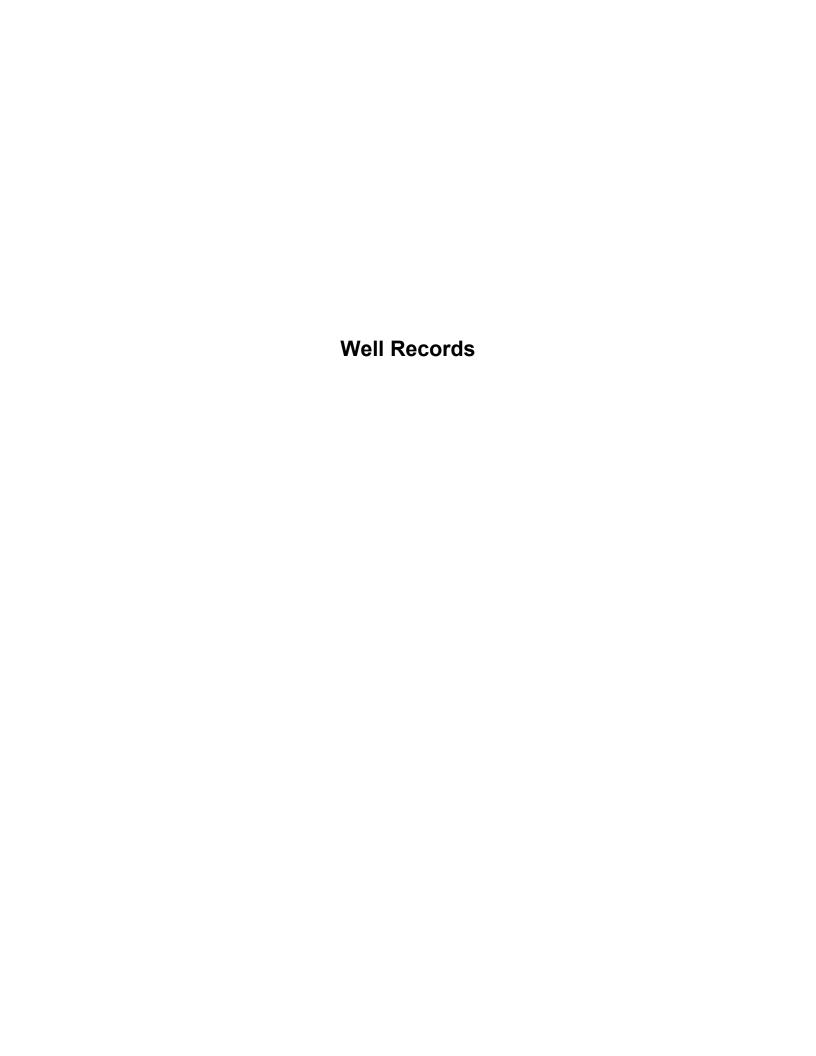
### Notes:

During excavation activities, the wells listed here were not formally decommissioned. Based on field observations, these wells are believed to have been removed/damaged beyond repair during soil remediation activities (i.e., excavation and restoration). In accordance with NJDEP's Well Construction and Maintenance; Sealing of Abandoned Wells Subchapter 3 (N.J.A.C. 7:9D) (NJDEP, 2001), alternate decommissioning reports were requested via submission of the included Memorandum to the Bureau of Water Allocation and Well Permitting.

\*These wells were installed as part of the remedial activities; the well construction permits are included along with the Request for Alternate Decomissioning Memorandum.

IRM - interim remedial measure

NJDEP - New Jersey Department of Environmental Protection



Well Permit Number **E201200587** 

### **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, JOURNEY	YMAN LICENSE # 0021243						
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.						
Company Address: PO BOX 423 WEST CREEK, NJ (	PO BOX 423 WEST CREEK, NJ 08092						
PROPERTY OWNER							
Name: N/A 900 GARFIELD AVE . LLC							
Organization: 900 Garfield Ave . LLC							
Address: 1735 Market St #A-400							
City: Philadelphia State: Pennsylv	Zip Code: 19103						
PROPOSED WELL LOCATION							
Facility Name: Site 114							
Address: 900 Garfield Ave.							
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A						
Easting (X): 611172 Northing (Y): 683542  Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: REL - 6						
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
	Other Use(s):						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY	Regulatory Program						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4	Regulatory Program Requiring Wells/Borings: Owner Investigation						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): 4  Depth (ft.): 40  Pump Capacity (gpm): 1	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation Case ID Number:						
PROPOSED CONSTRUCTION  WELL USE: RECOVERY  Diameter (in.): _4  Depth (ft.): _40  Pump Capacity (gpm): _1  Drilling Method: _Hollow Stem Augers  Attachments:	Regulatory Program Requiring Wells/Borings: Owner Investigation  Case ID Number:						

Approved by the authority of:

Bob Martin Commissioner

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

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 E201200587

### 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. [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. 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]

Well Permit Number **E201200588** 

### **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, JOURNEY	YMAN LICENSE # 0021243						
Permit Issued to: SGS NORTH AMERICA INC.	SGS NORTH AMERICA INC.						
Company Address: PO BOX 423 WEST CREEK, NJ (	PO BOX 423 WEST CREEK, NJ 08092						
PROPERTY OWNER							
Name: N/A 900 GARFIELD AVE . LLC							
Organization: 900 Garfield Ave . LLC							
Address: 1735 Market St #A-400							
City: Philadelphia State: Pennsylva	ania Zip Code: 19103						
PROPOSED WELL LOCATION							
Facility Name: Site 114							
Address: 900 Garfield Ave.							
County: Hudson Municipality: Jersey City	Lot: 1 Block: 2026.A						
Easting (X): 611201 Northing (Y): 683599	Local ID: REL - 7						
Coordinate System: NJ State Plane (NAD83) - USFEET							
SITE CHARACTERISTICS							
PROPOSED CONSTRUCTION							
WELL USE: RECOVERY	Other Use(s):						
WELL USE. RECOVERT	Regulatory Program						
Diameter (in.): 4	Requiring Wells/Borings: Owner Investigation						
• • • • • • • • • • • • • • • • • • • •							
Depth (ft.): 40	Case ID Number:						
	Case ID Number:  Deviation Requested: N						
Depth (ft.): 40							
Depth (ft.): 40 Pump Capacity (gpm): 1							
Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:							
Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers							
Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:							
Depth (ft.): 40  Pump Capacity (gpm): 1  Drilling Method: Hollow Stem Augers  Attachments:							

Approved by the authority of:

Approval Date: January 17, 2012

Expiration Date: January 16, 2013

Bob Martin Commissioner

Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Terry Pilawski, Chief

# 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 E201200588

### 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]

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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]



# Memorandum

То	New Jersey Department of Environmental Protection Bureau of Water Allocation & Well Permitting	Page 1
CC	Dave Doyle, NJDEP	
	Rob Schmitt, Hampshire	
	Chris Fiore, JCRA	
	Jody Overmyer, PPG	
	Mark Terril, PPG	
	Rich Feinberg, PPG	
	Joseph Lagrotteria, LeClairRyan	
	Dorothy Laguzza, LeClairRyan	
	Bill Spronz, AECOM	
	Shannon Gleason, AECOM	
Subject	Request for Alternate Well Decommissioning Reports – Garfield Av	enue Group Sites
From	Abby Small	
	Aimee Ruiter	
Date	July 24, 2019	

On behalf of PPG, AECOM is requesting alternate well decommissioning reports for eight wells located at 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) June 2017 Guidance for Damaged, Destroyed, or Lost Wells.

### **Background**

Between June 2010 and March 31, 2019, approximately 985,000 tons of hazardous and non-hazardous wastes were excavated from the GA Group Sites. The GA Group Sites consist of Hudson County Chromate (HCC) Sites 114, 132, 133 East, 133 West, 135, 137, and 143, adjacent properties, and adjacent roadways.

Prior to excavation activities, monitoring wells within the proposed excavation footprint were either decommissioned or were to be protected to the extent possible during remedial activities. Wells were decommissioned by a New Jersey licensed driller in accordance with the requirements of Well Construction and Maintenance; Sealing of Abandoned Wells, N.J.A.C. 7:9D and appropriate documentation was submitted to the NJDEP BWAWP. To date, more than 180 wells have been properly decommissioned within the GA Group.

During remedial excavation and backfilling activities, eight wells that were to be protected for future use were lost and cannot be decommissioned in accordance with the Well Construction & Maintenance; Sealing of

Abandoned Wells, N.J.A.C. 7:9D. **Table 1** (attached) provides the well information for each lost or damaged well. **Figure 1** shows the location of each well. Well construction specifications are included in **Attachment 1**.

The following sections describe the circumstances resulting in the loss or damage of the wells and the attempt to locate the lost wells.

# Monitoring Wells 135-MW3A and 135-MW3B (Permits E201317207 and E201317208) Located on HCC Site 135

In August and September 2016, remedial excavation and backfilling with dense-graded aggregate (DGA) took place on HCC Site 135 (Block 21501, Lot 2) adjacent to and up to the location of monitoring wells 135-MW3A and 135-MW3B. These wells could not be located during a December 6, 2016 synoptic gauging event.

On March 9, 2017, a field effort was undertaken to locate the wells. A photolog of the field effort is included in **Attachment 2**. The well locations were staked out using global positioning system (GPS) technology. Using an excavator, one to two feet of soil was removed at the surveyed location of well 135-MW3A (Photo 1 in **Attachment 2**). No evidence of the well was encountered. One to two feet of material was then excavated at the surveyed location of well 135-MW3B (Photo 2 in **Attachment 2**) and a damaged metal external casing and polyvinyl chloride (PVC) casing were encountered indicating that the well was damaged beyond repair (Photo 3 in **Attachment 2**). A trench was dug between the observed debris at 135-MW3B and the location of 135-MW3A and no additional signs of 135-MW3A were encountered (Photo 4 in **Attachment 2**). Due to the need for data at the site, new wells (135-P3C-MW102S, permit number E201802598 and 135-MW3BR, permit number E201802596) were installed (at the same approximate locations) to replace the damaged/lost wells.

# Monitoring Wells MW11B, MW1D, MW3B, and MW4C (Permit 26-00076-983, 26-00068-662, 26-00069-775, 26-00077-353) Located on HCC Site 114

Excavation on HCC Site 114 occurred between June 2013 and December 2013. The well information, terminal excavation elevation at each well location, approximate excavation depth, and ground surface elevation in April/May 2019 at each well location is shown on **Table 2**.

Table 2 – Well Information Compared to Excavation and Restoration Elevations – Monitoring Wells MW11B, MW1D, MW3B, and MW4C

Well Name	Well Permit #	Top of Well Casing Elevation (ft NAVD88)	Well Depth (ft bgs)	Approximate Elevation of Bottom of Well (ft NAVD88)	Terminal Excavation Elevation (ft NAVD88)	Restoration Surface Elevation 2019 (ft NAVD88)
MW11B	26-00076-983	14.3	36.0	-18.8	-0.2	10.9
MW1D	26-00068-662	15.6	44.0	-28.4	0.1	13.9
MW3B	26-00069-775	13.8	42.0	-28.2	-1.0	14.4
MW4C	26-00077-353	12.7	69.0	-56.3	3.2	13.2

### Notes:

bgs - below ground surface

ft - feet

NAVD88 - North American Vertical Datum of 1988

Between August 2013 and October 2015, backfilling and re-grading of HCC Site 114 with DGA occurred. Surface restoration of the site was completed in January 2018.

\\uspsw2pfpsw001\\data\Data\_USPSW2VFP001\\Environment\\Piscataway\\Project\\PPG-NJCProgram\\6-ProjectInput\\6.1-FieldData\\6.1A-ProgramFieldData\\Well Information\\2019 Decommissioning Reconciliation\\2019-07-24 Alternate Well Decommissioning Memorandum\_F.docx

In November 2013, correspondence from the field team indicated that these wells were destroyed or damaged beyond repair during remedial excavation.

On April 19, 2019, an attempt was made to locate the wells; the well locations were staked by a licensed surveyor and the surface elevation was recorded (Photos 5 through 8 in **Attachment 2**). The 2019 ground surface elevation of DGA at each well location is shown in **Table 2**. At two of the well locations, the 2019 ground surface elevation was greater than 1 ft below the installed top of casing elevation confirming the field observations that the wells were destroyed or damaged, and not just buried, during excavation and/or restoration activities.

### Recovery Wells REL6 and REL7 (Permits E201200587 and E201200588) Located on HCC Site 114

Recovery wells REL6 and REL7 were installed in February 2012 following the completion of excavation in the IRM #1 area of HCC Site 114. Backfilling and re-grading of the IRM #1 area of HCC Site 114 with DGA occurred between July 2010 and June 2014.

During a September 2015 synoptic gauging event, the wells could not be located.

On May 8, 2019, an attempt was made to locate the wells; the well locations were staked by a licensed surveyor and the surface elevation was recorded (Photo 9 and Photo 10 in **Attachment 2**). The 2019 ground surface elevation of DGA at each well location is shown in **Table 3** and ranged between 0.3 and 1.5 feet below the installed top of casing indicating that the wells were destroyed or damaged, and not just buried, during backfilling activities.

Table 3 – Well Information Compared to Restoration Elevations - Recovery Wells REL6 and REL7

Well Name	Well Permit#	Top of Well Casing Elevation (ft NAVD88)	Well Depth (ft bgs)	Restoration Surface Elevation 2019 (ft NAVD88)
REL6	E201200587	14.7	16.0	13.2
REL7	E201200588	13.4	14.5	13.1

### Notes:

bgs - below ground surface

ft - feet

NAVD88 - North American Vertical Datum of 1988

### **Conclusion**

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 on the GA Group Sites in Jersey City, New Jersey.

Please contact us if additional information is required.

Aimee Ruiter, PE Project Manager aimee.ruiter@aecom.com 603-524-6004 Abby Small, PE Project Engineer abigail.small@aecom.com 612-376-2367

### Attachments:

Table 1 Well Information – Lost or Damaged Wells

Figure 1 Site Plan

Attachment 1 Well Construction Specifications

Attachment 2 Photograph Log

# Table 1 Well Information - Lost or Damaged Wells Garfield Avenue Group PPG, Jersey City, New Jersey

Well Name	NJDEP PI ID	HCC Site	Well Permit #	Northing (ft NAD83)	Easting (ft NAD83)	Well Depth (ft bgs)	Block	Lot
135-MW3A	246332	135	E201317207	682308.2	611125.5	15.0	21509	2
135-MW3B	246332	135	E201317208	682301.5	611114.8	33.0	21509	2
MW11B	G000005480*	114	26-00076-983	683597.5	611383.9	36.0	21501	16
MW1D	G000005480*	114	26-00068-662	683831.3	611427.7	44.0	21501	16
MW3B	G000005480*	114	26-00069-775	683929.2	611160.7	42.0	21501	20
MW4C	G000005480*	114	26-00077-353	683246.7	610824.8	69.0	21501	18
REL6	G000005480*	114	E201200587	611180.4	683559.2	16.0	21501	17
REL7	G000005480*	114	E201200588	611198.6	683599.7	14.5	21501	20

### Notes:

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

CCPW - Chromate Chemical Production Waste

ft - feet

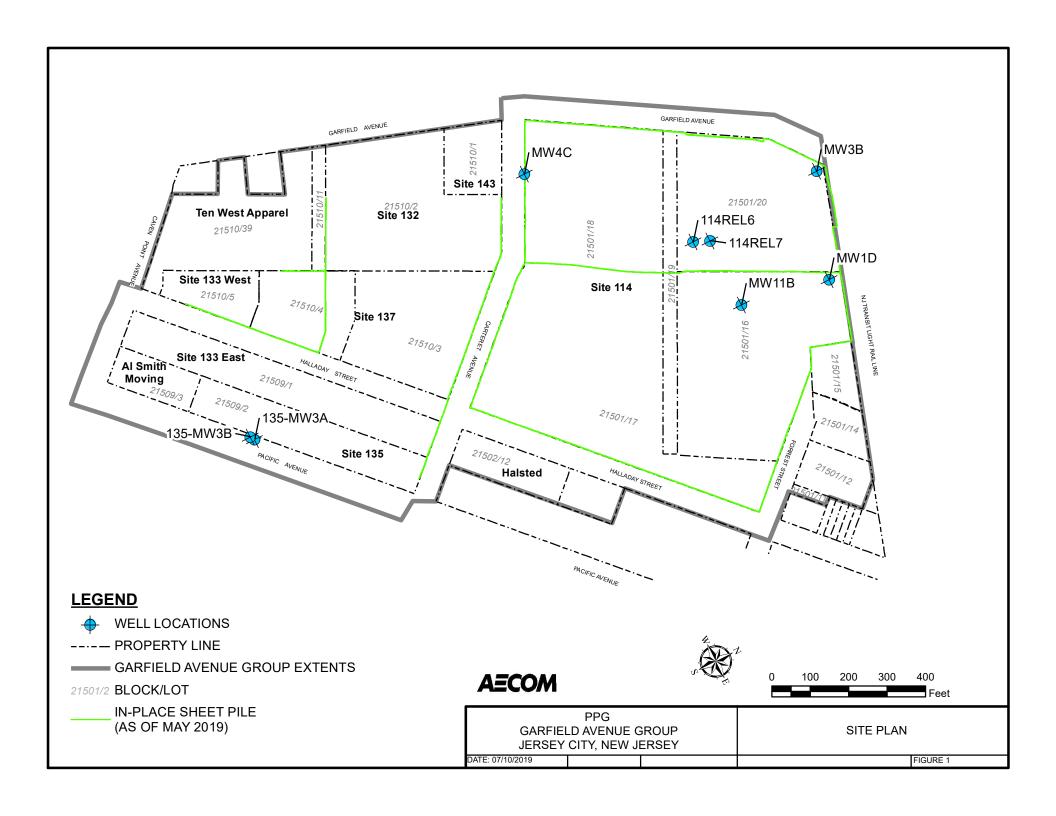
HCC - Hudson County Chromate

NAD83 - North American Datum of 1983

NJDEP - New Jersey Department of Environmental Protection

PI - Program Interest

<sup>\*</sup>Remedial activities associated with CCPW remediation at Site 114 were previously tracked under Pl number G000008791. In June 2018, the NJDEP consolidated remedial activities at Site 114 under Pl number G0000005840.



## **ATTACHMENT 1**

**Well Construction Specifications**Note that a well record was not available for well MW4C. A well construction diagram is included.

Well Permit Number E201200587

# **MONITORING WELL RECORD**

PROPERTY	OWNER: _1	N/A 900 GAR	FIELD AVE . L	LC						
Company/Organization: 900 Garfield Ave . LLC										
Address: 1735 Market St #A-400 Philadelphia, Pennsylvania 19103										
WELL LOC	ATION: Sit	e 114								
Address: 90	00 Garfield Av	e.								
County: Hu	dson	Municipality	y: <u>Jersey City</u>		_ Lot:_1	Block: 202	26.A			
Easting (X): _611172										
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: March 1, 2012										
WELL USE:	RECOVER	Y								
Other Use(s)	:				Local ID: RE	L - 6				
WELL CON	STRUCTION	J								
		16	Finished We	ell Depth (ft.):	16	Well Surface: Flush	n Mount			
	Depth to	Depth to	Diameter		Material	Wgt/Rating	/Screen # Used			
	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)			
Borehole	0	16	11		G. 1		1 40			
Casing	0	13	1.5		Steel		ch 40			
Screen	13	16	4		steel		010			
	Depth to	Depth to	Outer	Inner	D ( '(11 )	Material	W ( 1)			
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	1.5	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)			
Gravel Pack	2	13	11	1.5	0	#0	10			
Gravel Pack	13	16	11	4		#0				
Grouting Met	thod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: Hol	low Stem Augers				
Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type:	Level: 3 ft. be Measure Tool: pment Period: evelopment: pu	elow land surfa m scope 1 hrs.	ce	Tot Dri Dri	mp Capacity: _ gpm tal Design Head: _ fi lling Fluid: Il Rig: <u>cme 1050</u> alth and Safety Plan					
<u>ATTACHM</u>	ENTS:									
GEOLOGIC		1 1	1 11 1							
		rels, gravel-san	d-silt mixtures nd-silt mixtures							
0 3	, ,	, 0	nic silty clays of							
	AL INFORMA			p-marray						
ADDITIONA	AL INFORMA	ATION:								
	Wesley	M Eichfeld,								
Driller of Rec		ER LICENSE #	# 5928 <del>4</del> 8		Company:	SGS NORTH AMER	RICA INC.			

# 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 E201200588

# **MONITORING WELL RECORD**

PROPERTY OWNER: N/A 900 GARFIELD AVE . LLC										
Company/Organization: 900 Garfield Ave . LLC										
Address: 1735 Market St #A-400 Philadelphia, Pennsylvania 19103										
WELL LOCATION: Site 114										
Address: 90	00 Garfield Av	e.								
County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A										
Easting (X): 611201 Northing (Y): 683599 <b>DATE WELL STARTED:</b> February 10, 2012										
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL STARTED: February 10, 2012  DATE WELL COMPLETED: February 10, 2012										
WELL USE:	RECOVER	Y								
Other Use(s)	:				Local ID: RE	L - 7				
WELL CON	STRUCTION	J								
		14.5	Finished We	ell Depth (ft.):	14.5	Well Surface: Flush	n Mount			
_	Depth to	Depth to	Diameter		Material		/Screen # Used			
	Top (ft.)	Bottom (ft.)	(inches)				/ch no.)			
Borehole	0	14.5	11		G. 1		1 40			
Casing Screen	0 11.5	11.5 14.5	1.5 4		Steel		.010			
Screen					SS		.010			
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Dontonito (lha)	Material	Water (col)			
Grout	0	2	11	1.5	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)			
Gravel Pack	2	11.5	11	1.5	, v	#0				
Gravel Pack	11.5	14.5	11	4		#0				
Grouting Met	hod: Pressur	e method (Tren	nie Pipe)	Dr	illing Method: Holl	low Stem Augers				
	AL INFORMA	ATION								
Protective Ca		.11			mp Capacity: _ gpm	_				
	Measure Tool:	elow land surfa m scope	ce		tal Design Head: _ fi illing Fluid:					
	ment Period:				ill Rig: <u>cme 1050</u>					
	evelopment: <u>pu</u>	<u>ımp</u>		Не	alth and Safety Plan	Submitted? Yes				
Pump Type:	ENITO.									
ATTACHMI										
GEOLOGIC 0 - 10: grev G		els. gravel-san	d-silt mixtures							
			nd-silt mixtures							
			sand-silt mixtur							
<b>ADDITION</b>	AL INFORMA	ATION:								
	Jeff Rausa									

Company: SGS NORTH AMERICA INC.

Driller of Record: JOURNEYMAN LICENSE # 0020129

Well Permit Number E201317207

# MONITORING WELL RECORD

PROPERTY OWNER: N/A NARULA REAL ESTATE ASSOC., LLC										
Company/Organization: Narula Real Estate Assoc., LLC										
Address: 389 Old Court House Rd New Hyde Park, New York 11040										
	WELL LOCATION: PPG Industries									
Address: Pa	•									
County: Hudson Municipality: Jersey City Lot: 2 Block: 21509										
Easting (X): 611143 Northing (Y): 682311 DATE WELL STARTED: November 26, 2013										
Coordi	nate System: N	IJ State Plane (	NAD83) - USFI	BET DA	ATE WELL COME	PLETED: November	27, 2013			
WELL USE:	MONITOR	ING				<del></del>				
Other Use(s)	:				Local ID: 135	5-MW3A				
WELL CON	STRUCTION	1								
		15	Finished We	ll Depth (ft.):	15	Well Surface: Flus	h Mount			
•	Depth to	Depth to	Diameter		Material		g/Screen # Used			
	Top (ft.)	Bottom (ft.)	(inches)		Waterial	·	s/ch no.)			
Borehole	0	15	8							
Casing	10	10	2		PVC		sch 40			
Screen		15	2		pvc		.10			
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gel )			
Grout	0	8	8 8	2	Bentomite (108.)	300	Water (gal.) 8			
Gravel Pack	8	15	8	2		medium sand				
Grouting Met	hod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: <u>Holl</u>	ow Stem Augers				
Protective Ca Static Water I Water Level I Well Develop		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 b 80</u> alth and Safety Plan					
<u>ATTACHM</u>	ENTS:									
GEOLOGIC						μ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	T - Other blac		····							
		, sand-silt mixt , sand-silt mixt		***	· · · · · · · · · · · · · · · · · · ·	····	*****			
		s, sand-silt mix								
***************************************	AL INFORMA	***************************************	1	·		**************************************				
ADDITIONA	ALJ RIVE OTORIVEZ	ATTON:								
Driller of Reg		s Lynch, FORING LICE	NCE # 425421			SCC NOPTH AND	DIC'A DIC			
STRICE OF ICE	JOIG. INTOINI	OKINO LICE	1433031		Company:	SGS NORTH AME	KICA INC.			

Well Permit Number **E201317208** 

# MONITORING WELL RECORD

PROPERTY OWNER: N/A NARULA REAL ESTATE ASSOC., LLC											
Company/Org	ganization: N	arula Real Esta	ite Assoc., LLC								
Address: 389 Old Court House Rd New Hyde Park, New York 11040											
	ATION: PP	G Industries									
Address: Pa											
County: Hudson Municipality: Jersey City Lot: 2 Block: 21509											
Easting (X):	Easting (X): 611128 Northing (Y): 682297 <b>DATE WELL STARTED:</b> December 4, 2013										
Coordinate System: NJ State Plane (NAD83) - USFEET  DATE WELL COMPLETED: December 15, 2013											
WELL USE:	WELL USE: MONITORING										
Other Use(s)	:				Local ID: 135	5-MW3B					
WELL CON	STRUCTION	J									
	Drilled (ft.):		Finished We	ll Depth (ft.):	33	Well Surface: Flus	n Mount				
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)				
Borehole	0	33	8								
Borehole	0	20	12								
Casing	0	28	4		PVC		sch40				
Casing	0	20	8	Steel		S	sch80				
Screen	28	33	4		pvc		.10				
	Depth to	Depth to	Outer	Inner		Material					
Count	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)				
Grout Grout	0 20	20 25	12 8	<u>8</u> 4		1700	60				
Gravel Pack	25	33	8	4		480 medium sand					
····		1			lling Method: Muc		· · · · · · · · · · · · · · · · · · ·				
ADDITIONA Protective Ca Static Water I Water Level I Well Develop	Grouting Method: Pressure method (Tremie Pipe)  ADDITIONAL INFORMATION  Protective Casing: No Pump Capacity: _ gpm Static Water Level: 8 ft. below land surface Total Design Head: _ ft.  Water Level Measure Tool: m scope Drilling Fluid: mud,water  Well Development Period: 1 hrs. Drill Rig: mobil drll b 80  Method of Development: pump Health and Safety Plan Submitted? Yes										
<u>ATTACHM</u>	ENTS:										
GEOLOGIC		· · · · · · · · · · · · · · · · · · ·	1944								
7200	T - Other blac	•			374444		MATERIAL DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DEL CONTRACTION DE LA C				
			It mixtures 8in s								
			other highly org	ganic soils 8in s	teel 4in pvc						
···		s, sand-silt mix	tures 4in pvc								
ADDITION	ADDITIONAL INFORMATION:										
Driller of Red	Thomas Lynch,  Driller of Record: MONITORING LICENSE # 435631 Company: SGS NORTH AMERICA INC.										

# New Jersey Department of Environmental Protection Bureau of Water Allocation

# MONITORING WELL RECORD

Well Permit Number 2600068662

Atlas Sheet Coordinates

	PSEG SERVICES CORP				26232	95
Address 80 PARK PLAZA				***************************************		
City Newark	State New Jers	sey		Zip C	Code 07102	STATE OF STREET
WELL LOCATION - If not the sa	me as owner please give address	0	wner's Well N	io. Mi	-ID	Ves.
	funicipality Jersey City		Lot No. 2	يكاريلا ساسان و	ck No. 2026.1	S ar
Address HALLIDAY & FORRES	T STS FORMER HALLIDAY ST	GAS WOR	₹	***	***************************************	1. 14. 1
WELL USE Monitoring		DAT	— 'E WELL STA	A D'TTED	i n ne	M
4 Park	The second section is a second section in the second section in the second section is a section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the se		E WELL CO	_	8-7-03	í
WELL CONSTRUCTION			~ ~~~~	WII DETE	0 11 0	כ
Total Depth Drilled 57) fi	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Finished Well Depth 44 fi	Single/Inner Casine	(")	7.11			
Borehole Diameter:	Middle Casing		27	2	Pue	40
Top /2 in	(for triple cased wells only)					
Bottom / ir	Outer Casing	0	10	/	Steel	144
Well was finished: above grade	Open Hole or Screen	- 100		6	Treer	Wall
Tush mounted		34	44	2	Puc	40
If finished above grade, casing heigh (stick up) above land surface	[ (110. USCQ ) ]					70
	ft. Tail Picco	32		77		
Yes No	Gravel Pack	30	50 32	#	15 and	Filte
Yes No Static Water Level after drilling	Cemin	0	30	FI	Neal Cement	- 1120 los
factored in a	11.	(9)	17		Bentonite	1700 lbs
Well was developed for //2 hour	<u>/ / - /</u>		លេខមេរ ទីរបររល		rence	-4-
at   gpm		Dı	illing Method		18A/ Mu	
Method of development $\beta$ ,	100			GEOLOG		
Pump Capacity	gom	Note forms	each depth where itions	waler was en	countered in consolidat	ed
Pump Type			2	"aun L	elt.	
Drilling Fluid	Type of Rig Jacken	man di tanta		7		
Health and Safety Plan Submitted?		- 20		- K) l.s.	4 wet	
Level of Protection used on site (circle	e one) None (D) C B	A -	Sut	RIL	une, sa	rel_
		17	1-28-	MA ALV	t celt	loid
		147-2 000	WIL		Cla,	
I certify that I have constructed the ab	ove referenced well in	28	-1-321-	Mary	- t-sand	- CAI
accordance with all well permit requir rules and regulations.	rements and applicable State			MILLERA	7-2012	-6117
<del>-</del>	t this his	32	<u>'-50'-</u>	Mary	+ F-SAN	0.
Drilling Company ADVANCED DRI Well Driller (Print)		1	-510-6	44 C	de la	
Well Driller (Print)  Driller's Signature  Smiler's Signature	F ACBERAL H				301	-
stration No. 1152	A Marker of	32.0	W			
7100	Date 10-6-3					
			-			
Christian a pro-						
ORIGINAL: DEP	COPIES: DRILLER		OWNER		HEALTH DEPAI	RTMENT

# New Jersey Department of Environmental Protection Bureau of Water-Allocation

Well Permit Number

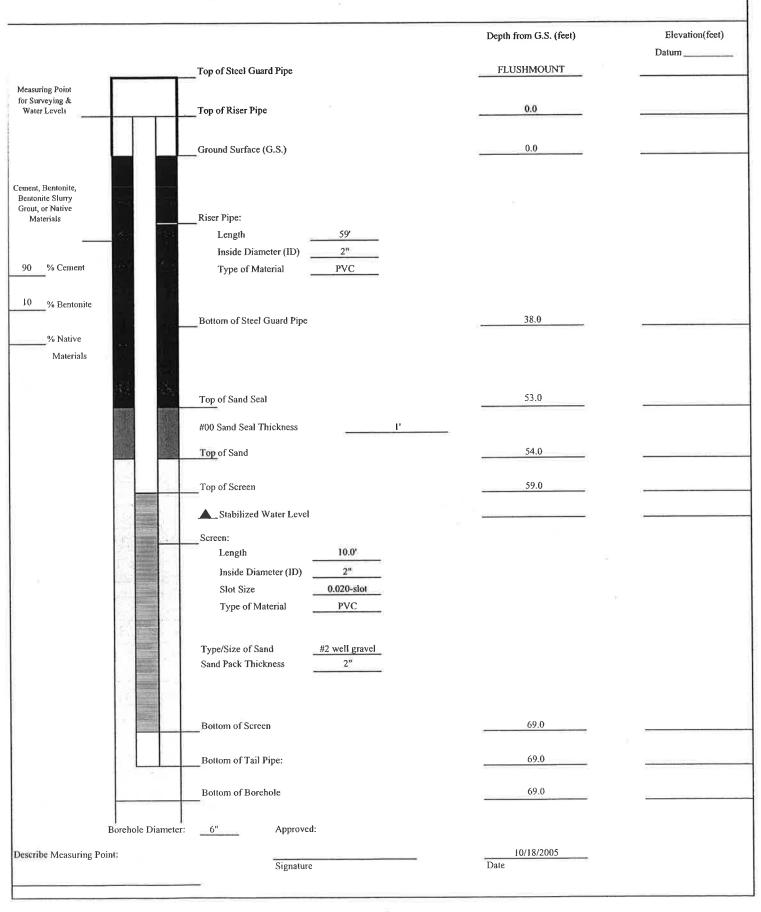
# MONITORING WELL RECORD

2600069775

WNER IDENTIFICATION PPG IN	IDIIOTEN ING DIG		<u>sooid</u>		Atlas Sheet C	oordinates	
Address 4325 ROSANNA DR.	NDUSTRIES INC.				26232	95	
ty ALLISON PARK	State Pennsylv				_		
					ode 15101	•	
WELL LOCATION - If not the same as		Ov	vner's Well N	o. <u>1P6</u>	<u>- 3台</u>	-	
County Hudson Municip			Lot No.	1 Bloc	k No. 2026.1		
Address GARFIELD & CARTERET AV	ES.		_				
WELL USE Monitoring		DAT	E WELL STA	ARTED	11.19-03		
			E WELL CO	and a		5	
WELL CONSTRUCTION	Note: Measure all depths	Depth to			7-01		
Total Depth Drilled 57 ft.	from land surface	Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)	
Finished Well Depth 42 ft.	Single/Inner Casing	Ö	32	2	PVC	40	
Borehole Diameter:	Middle Casing			<i>C</i>		1 70	
Top /2 in.	(for triple cased wells only)	Ŧ					
Bottom / in.	Outer Casing (largest diameter)	0	10	6	steel	144	
Well was finished: above grade	Open Hole or Screen					" Well	
Aftish mounted	(No. Used 10)	32	42	2	PVC	40	
If finished above grade, casing height	Blank Casings (No. Used )				7		
(stick up) above land surface ft.		430	100		10 (		
teel protective casing installed?	Gravel Pack	30	57 30		15and	1 filter	
Static Water Level after drilling U.9 ft	Grout	0	28		Neat Coment	6 00 lbs	
		8	10		Dontonita	1000	
/ater Level was Measured Using Titt	<u>E</u>	G	routing Metho	od	creme		
Well was developed for hours		D	rilling Method	I	HSA / 1100	Cetter	
at gpm  Method of development				GEOLOG	SIC LOG	———/ <sub>1</sub>	
	<u></u>	Note	Note each depth where water was encountered in consolidated formations				
Pump Type	om	loim	83 11 =	anlet	++ Mran		
Drilling Fluid Type	of Rig Vailen;			10140	1 FAU CHA		
Health and Safety Plan Submitted? Yes		- 9	8"-8"- Dug Wet Soid, Self				
Level of Protection used on site (circle one	— ×	A -	Mrsvel- Wood Print, Fell				
(	, None B C B	^ <del>- 8</del>	1- 221-	· FILL O. e. a.	+4-11114 +C	102/11/1	
			- 0.0			22/02	
I amaife about the control of the co		2	2.30 -	wet.	selt 4-F-S	and	
I certify that I have constructed the above r accordance with all well permit requiremen	eferenced well in	7.	20'- 511- 1111 152 1 W				
rules and regulations.			3017 36	MURE XVAI	<u> </u>		
Drilling Company ADVANCED DRILLIN	NG INC	3	1-57'-	West	Siv -Sa	ed Street	
Well Driller (Print) RICA AK.	DEMOSON						
Driller's Signature	Country			11	4 10		
legistration No.	Date / /8704						
	, ———						
				-			
		1					

		Client: PPG Industries, Inc.		WELL ID: MW-4C		
		Project Number: 05510-100				
ENSR		Site Location: Garfield Avenue	e Site 114	Date Installed: 11/22/2005		
		Well Location:	Coords:	Inspector: Dave Sherman		
4		Method: Hollow Stem Auger/I	Mud Rotary	Contractor: Ameridrill, Inc.		

# MONITORING WELL CONSTRUCTION DETAIL



# New Jersey Department of Environmental Protection Bureau of Water Allocation

# MONITORING WELL RECORD

Well Permit Number 2600076983

Atlas Sheet Coordinates

	OWNER IDENTIFICATION JERSEY	CITY - JCDPW					262329	1	
	Address 575 ROUTE 440			<u></u>					
	City Jersey City	State New Jerse	State New Jersey Zip				ip Code <u>07305</u>		
	WELL LOCATION - If not the same as or	wner please give address	Ov	ner's Well N	o. Mli	1-118	•		
	County Hudson Municipal	lity Jersey City			Lot No.	i Bloo	k No. 2026.1		
	Address 872-931 GARFIELD AVENUE P	PG GARFIELD AVENUE			_				
	WELL USE Monitoring		1	DATI	R WELL STA	RTED	11-4-05		
			]	DATI	E WELL CO	MPLETEI	11-7-05	-	
	WIRE A COMPANY OF TON								
	WELL CONSTRUCTION  Total Depth Drilled 36 ft.	Note: Measure all depths from land surface		th to (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Wgt./Rating (lbs/sch no.)	
	Finished Well Depth 36 ft.	Single/Inner Casing	2	2	26	2	Prc	S1440	
	Borehole Diameter:	Middle Casing -(for triple cased wells only)							
	Top	Outer Casing				,	Carre	.250	
	Bottom in.	(largest diameter)	0		17	6	CATBOLL	, 2.50	
	Well was finished: above grade	Open Hote or Screen (No. Used , 0 (0)	2	le.	34	2	PVL	SH 40	
	If finished above grade, casing height (stick up) above land surface ft.	Blank Casings (No. Used )							
		Tail Piece							
	Steel protective casing installed?  Yes No	Gravel Pack	2		36e	6:	Plosie	# (+00	
	Static Water Level after drilling 3.8 ft.	Grout	2	<b>&gt;</b>	21	6+10.	Neat Cement Bentonite	700 lbs	
,	Water Level was Measured Lieing	_	h		auog Methe	d 7/0			
	Well was developed for 1/2 hours			D	rilling Method		gen / Mecch	CONTRACT	
	at Z gpm		[			/	GIC LOG		
-	Method of development Pump Capacity gpm	zia <u>l</u> 9		Note	each depth wher		ncountered in consolida	ated	
	Pump Capacity gpn	n '			ations		AsH Fill	0-11	
	Pump Type			<u>بر.</u>	1410-17140	ex +	H34 FIL	0-16	
	Drilling Fluid Quek al Type o			TEAT 16-20					
	Health and Safety Plan Submitted? Xes	□No		_			,	/	
	Level of Protection used on site (circle one)	None D C B	A	A SANG SOMP GrANGE ZO					
							<b>*</b>		
	l certify that I have constructed the above re	ferenced well in		5		Free Contraction of C	- <u>G</u>		
	accordance with all well permit requirement rules and regulations.			/,					
	Drilling Company AMERIDRILL INC						L LOCATION		
	Well Driller (Print) HUNT=1 Bour	Toille III		זנא			ONTAL DATUM) INATE IN US SUR		
	Driller's Signature	2/				COURD.		YEIREI	
	Registration No. JAL Flelo	Date 1/17/05	-	NOX	RTHING:	· · · · · · · · · · · · · · · · · · ·	_ EASTING:		
	<u> </u>					OR			
				LATI	TUDE:0_		LONGITUDE:0		
	ORIGINAL: DEP	COPIES: DRILLE	R		OWNER		HEALTH DE	PARTMENT	

ATTACHMENT 2

Photograph Log

Client Name: PPG Site Location: Garfield Avenue Group, Jersey City,

Photo No.

**Date:** 3/9/2017

Description:

View of excavation at Location 135-MW3A



Photo No.

**Date:** 3/9/2017

Description:

View of excavation at Location 135-MW3B



Client Name: PPG

Site Location: Garfield Avenue Group, Jersey City,

Photo No.

**Date:** 3/9/2017

Description:

View of damaged well casing at Location 135-MW3B



Photo No.

**Date:** 3/9/2017

Description:

Trench dug between location of 135-MW3B and 135-MW3A



Client Name: PPG

Photo No. 5

Date: 4/19/2019

Description:

Surface conditions at location MW11B



Photo No. 6

Date: 4/19/2019

**Description:** 

Surface conditions at location MW1D



Client Name: PPG

Site Location: Garfield Avenue Group, Jersey City,

Photo No.

**Date:** 4/19/2019

Description:

Surface conditions at location MW3B



Photo No.

**Date:** 4/19/2019

Description:

Surface conditions at location MW4C



Client Name: PPG

Site Location: Garfield Avenue Group, Jersey City,

Photo No.

**Date:** 5/8/2019

Description:

Surface conditions at location REL6



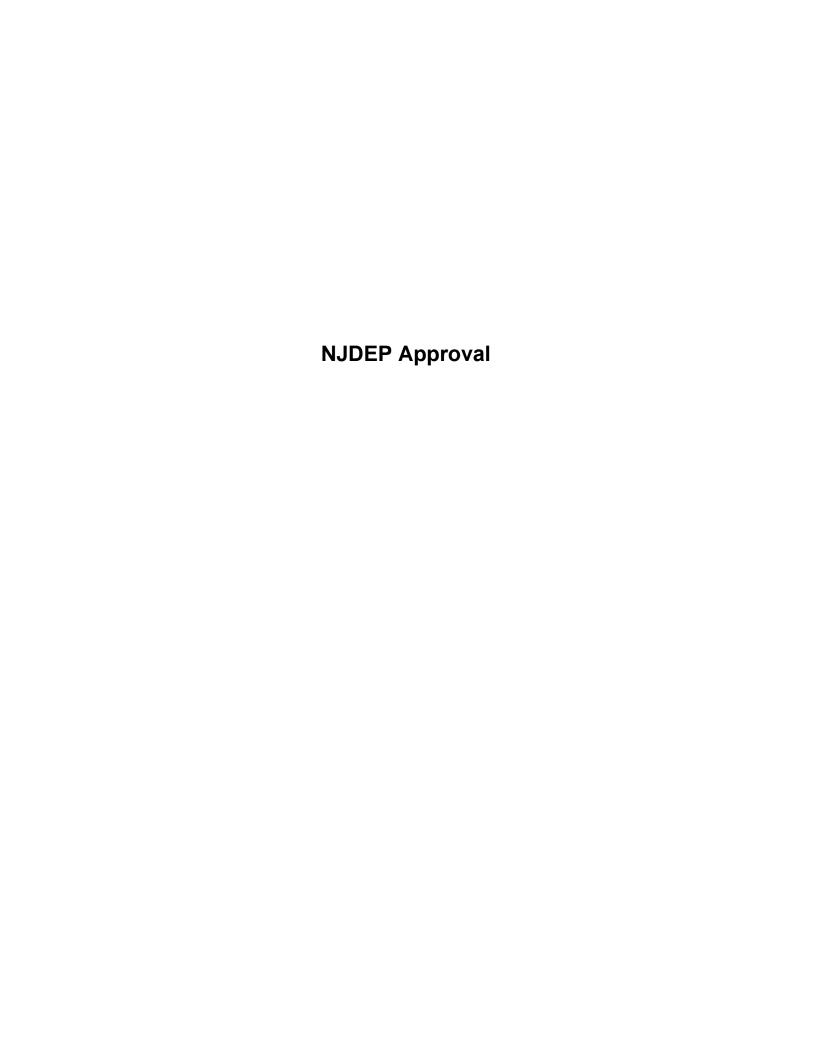
Photo No.

**Date:** 5/8/2019

Description:

Surface conditions at location REL7







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

CATHERINE R. McCABE Commissioner

October 25, 2019

Aimee Ruiter AECOM 250 Apollo Dr. Chelmsford, MA 01824

Re:

**Destroyed Well** 

Facility Name: Garfield Avenue Group Site Facility Address: 900 Garfield Avenue Municipality: Jersey City, County: Hudson Blocks: 21509; 21501, Lots: 2; 16, 18, 20 PI Number: 246332 and G000005480

Well Permit Numbers: E201317207, E201317208, E201200587, E201200588, 2600076983,

2600068662, 2600069775, 2600077353 (EIGHT PERMITS TOTAL)

Dear Ms. Ruiter,

On July 24, 2019, The Bureau of Water Allocation and Well Permitting (Bureau) received your request to have the referenced wells listed as destroyed and to have alternative well decommissioning reports filed in lieu of properly decommissioning the wells. Based on the information that AECOM provided, the Well Permitting Section concurs that the wells have 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 wells.

If you have any questions, please contact Mark Ortega by phone at (609) 984-6831 or via the Well Permitting Section email address, wellpermitting@dep.nj.gov.

Regards,

Joe Mattle

Chief, Well Permitting Section

Bureau of Water Allocation and Well Permitting