

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.

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.



AECOM
30 Knightsbridge Road
Piscataway, New Jersey 08854

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

May 3, 2010

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 ¾-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 ¾-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,

To enhance and sustain the world's built, natural and social environments

PPG-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	¾
PZ-4	26-00077-982	16.5	14.4	1.5 to 16.5	Flush	¾
PZ-5	26-00077-019	18	17.3	13 to 18	Flush	¾
PZ-6	26-00077-020	18	17.6	13 to 18	Flush	¾
PZ-7	26-00077-021	17	16.4	7 to 17	Flush	¾
PZ-9	26-00077-023	15	13.55	10 to 15	Flush	¾
PZ-10	26-00077-024	19	15.3	14 to 19	Flush	¾
PZ-11	26-00077-025	18	17.4	13 to 18	Flush	¾
PZ-12	26-00077-026	18	16.65	13 to 18	Flush	¾
PZ-13	26-00077-017	17	14.45	12 to 17	Flush	¾
PZ-14	26-00077-018	20	17.7	15 to 20	Flush	¾
EW-1	NA	13.5	8.0	10.5 to 13.5	Flush	¾
EW-2	NA	16.3	3.65	10.5 to 13.5	Flush	¾
F-1	NA	16.5	6.45	10.5 to 16.5	Flush	¾
F-2	NA	16	6.65	10.5 to 16.0	Flush	¾
F-3	NA	16	6.4	10.5 to 16.0	Flush	¾
F-4	NA	16.2	5.35	10.5 to 16.0	Flush	¾
F-5	NA	16.1	6.6	10.5 to 16.1	Flush	¾
F-6	NA	16.2	6.7	10.5 to 16.1	Flush	¾
F-7	NA	16.2	7.0	10.5 to 16.2	Flush	¾
SW-1	NA	13	6.0	10.5 to 13	Stick-up	¾
SW-2	NA	16.1	6.7	10.5 to 16.1	Flush	¾
SW-3	NA	15.8	4.35	10.5 to 15.8	Stick-up	¾
SW-4	NA	16.1	6.7	10.5 to 16.1	Flush	¾
WW-1	NA	4	7.8	1 to 4	Stick-up	¾
WW-2	NA	4	7.9	1 to 4	Stick-up	¾

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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	¾
WW-4	NA	10.8	9.5	9 to 10.8	Stick-up	¾
NW-1	NA	15.9	6.4	10.5 to 15.9	Flush	¾
NW-2	NA	16.2	7.0	10.5 to 16.2	Flush	¾
NW-3	NA	14.3	5.4	10.5 to 14.3	Flush	¾
NW-4	NA	16.1	5.95	10.5 to 16.1	Flush	¾

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

NG – Not gauged due to well damage.

* - Depth of well measured on date of well decommissioning.

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 a 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.

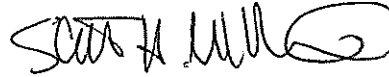
All remaining Site wells will be protected to the extent possible during remedial activities. Specifically, the following deep and bedrock wells within the footprint of the IRM#1 and #2 excavation areas will remain in place and will, therefore, require protection: MW-6C, MW-6D, MW-9B, MW-9C and MW-11B. 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 IRMW#1.

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

Yours sincerely,



Hue Quan, P.E.
Project Engineer



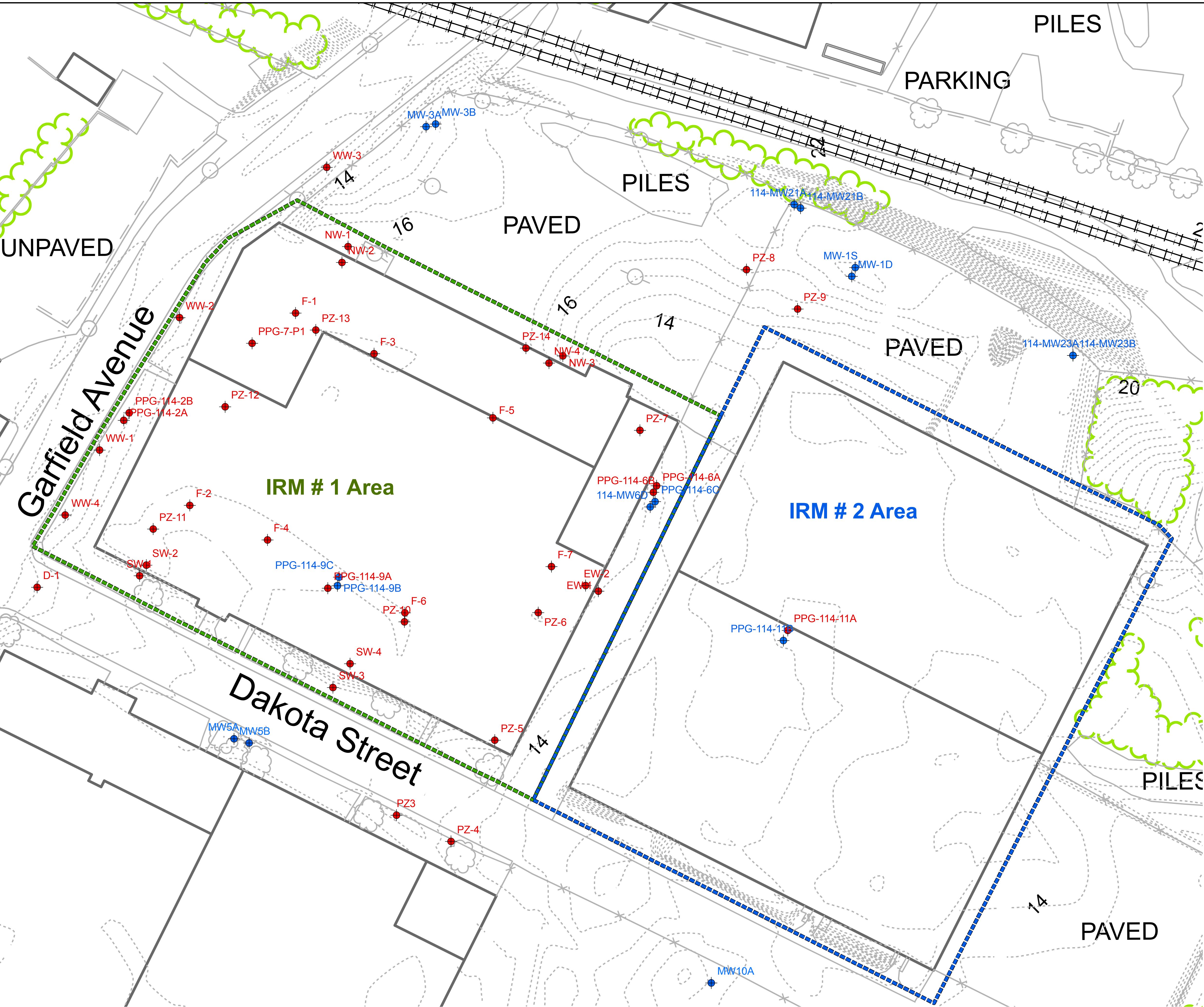
Scott H. Mikaelian, P.E.
Program Manager

cc: M. Merdinger, AECOM
D. Claassen PPG
B. McGuire PPG
M. Terril, PPG
B. McPeak, PP LLC

Attachments: 1) Figure 1 Well Abandonment Locations
2) Well Abandonment Reports

ATTACHMENT 1

Figure 1 Well Abandonment Locations



Legend

- Well to be abandoned
- Well to be protected
- IRM # 1 Area
- IRM # 2 Area
- FS Soil Treatment Area
- Topography
- Buildings
- Railroad Tracks
- Treeline

0 15 30 60

Feet

Notes:

1. New Jersey State Plane Coordinate System
NAD83 Coordinates, U.S. Survey Feet;
2. IRM = Interim Remedial Measure;
3. FS = Feasibility Study.

Designed By:

Drawn By:

Checked By:

Approved By:

No.:

J.E.B./alo

Revisions

Description:

Date:

By:

AECOM

AECOM Environment

30 KNIGHTSBRIDGE ROAD, SUITE 520
PISCATAWAY, NEW JERSEY 08854
PHONE: (732) 399-0000
FAX: (732) 399-0122
WEB: HTTP://WWW.AECOM.COM

Well Abandonment Locations

PPG Industries
Garfield Avenue Project Site, Jersey City
Hudson County, New Jersey

Scale:

As Shown

Date:

03/09/2010

Project Number:

60137648.4062

Figure Number:

1

Sheet Number:

1

J:\Water\Projects\ies\5003510\PPG\100_Jersey\City\GIS\Projects\Site114\shabremoval\Wells_20100308.mxd

ATTACHMENT 2

Well Abandonment Reports

WELL ABANDONMENT REPORT

WELL PERMIT # 3600071097
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-9-10

PROPERTY OWNER PPG Industries, Inc.

ADDRESS 4325 Rosanna Drive, Allison Park, Pa 15101

WELL LOCATION Garfield & Carteret Ave, Jersey City, Hudson County
Street & No., Township, County

PP67-PI
Well No.

1
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

PERMIT # OF NEW WELL _____

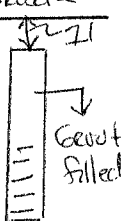
TOTAL DEPTH OF WELL 10'
DIAMETER 8"
CASING LENGTH 5'
SCREEN LENGTH 5'
NUMBER OF CASINGS 1

MATERIAL USED TO DECOMMISSION WELL:

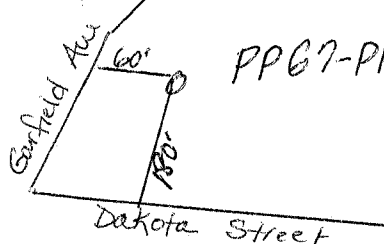
8 Gallons of Water
94 Lbs. of Cement
5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: ☐ Consolidated
☒ Unconsolidated

Cross-section
of sealed well
Grade



Draw a sketch showing distance and relations of well site to
nearest roads, buildings, etc.



AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)
NJ STATE PLACE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR
LATITUDE: _____ LONGITUDE: _____

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? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim Sarris 125 E. N. Church St. Moorestown NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller

Tim Sarris

Signature of NJ Licensed Well Driller Performing Work

4-27-10

Mailing Date

MW449791

Registration #

WELL ABANDONMENT REPORT

WELL PERMIT # 2600069765
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-9-10

PROPERTY OWNER PPG Industries, Inc.

ADDRESS 4325 Rosanna Drive, Allison Park, Pa 15101

WELL LOCATION Garfield & Carteret Ave, Jersey City, Hudson County
Street & No., Township, County

PPG-2A
Well No.

1
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

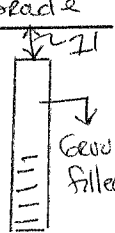
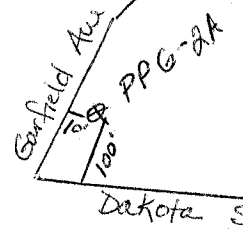
PERMIT # OF NEW WELL _____

TOTAL DEPTH OF WELL 10
DIAMETER 2"
CASING LENGTH 5'
SCREEN LENGTH 5'
NUMBER OF CASINGS 1

MATERIAL USED TO DECOMMISSION WELL:

8 Gallons of Water
94 Lbs. of Cement
5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: _____ Consolidated
X Unconsolidated

<p>Cross-section of sealed well</p> <p><u>Grout</u></p>  <p>Grout Filled</p>	<p>Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.</p>  <p>Garfield Ave</p> <p>Dakota Street</p> <p>PPG-2A</p>
<p>AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET</p> <p>NORTHING: _____ EASTING: _____ OR LATITUDE: _____ LONGITUDE: _____</p>	

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? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim Soria 1251e W. Church St. Moorestown NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller

Tim Soria
Signature of NJ Licensed Well Driller Performing Work

4-27-10
Mailing Date
MW449791
Registration #

WELL ABANDONMENT REPORT

WELL PERMIT # 2600069767
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-9-10

PROPERTY OWNER PPG Industries, Inc.

ADDRESS 4325 Rosanna Drive, Allison Park, Pa 15101

WELL LOCATION Garfield & Carteret Ave, Jersey City, Hudson County
Street & No., Township, County

PPG-6A
Well No.

1
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

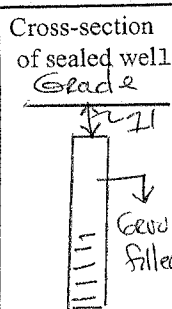
PERMIT # OF NEW WELL _____

TOTAL DEPTH OF WELL 15'
DIAMETER 2"
CASING LENGTH 5'
SCREEN LENGTH 10'
NUMBER OF CASINGS 1

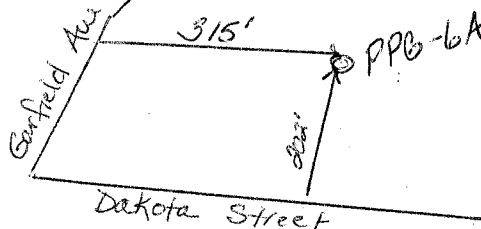
MATERIAL USED TO DECOMMISSION WELL:

8 Gallons of Water
94 Lbs. of Cement
5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: ☐ Consolidated
☒ Unconsolidated



Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.



AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)
NJ STATE PLACE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR
LATITUDE: _____ LONGITUDE: _____

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? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim SORIS 125th W. Church St. Moorestown NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller

Tim SORIS
Signature of NJ Licensed Well Driller Performing Work

4-27-10
Mailing Date
MW449791
Registration #

WELL ABANDONMENT REPORT

WELL PERMIT # Ab 00076991
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-9-10

PROPERTY OWNER Hampshire Group

ADDRESS 15 Maple Avenue, Morristown, Hudson County

WELL LOCATION 892-931 Garfield Ave, Jersey City, Hudson
Street & No., Township, County

MW-9A (PPG 114-9A)
Well No.

2A
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

PERMIT # OF NEW WELL _____

TOTAL DEPTH OF WELL 17'

DIAMETER 3"

CASING LENGTH 3'

SCREEN LENGTH 14'

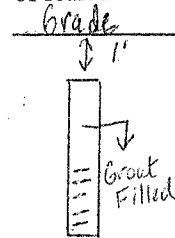
NUMBER OF CASINGS 1

MATERIAL USED TO DECOMMISSION WELL:

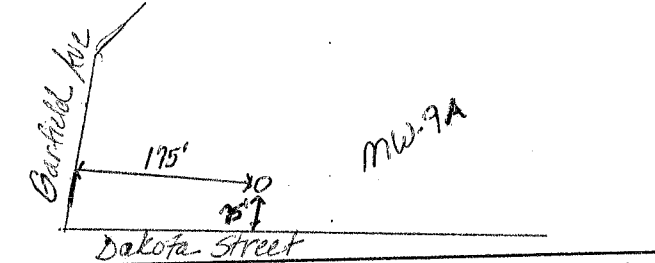
8 Gallons of Water
94 Lbs. of Cement
5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: X Consolidated
 Unconsolidated

Cross-section
of sealed well



Draw a sketch showing distance and relations of well site to
nearest roads, buildings, etc.



AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)
NJ STATE PLACE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR
LATITUDE: _____ LONGITUDE: _____

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? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim Saris 1256 N. Church St. Morristown, NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller Tim Saris Signature of NJ Licensed Well Driller Performing Work
Mailing Date 4-27-10
Registration # MW 449791

WELL ABANDONMENT REPORT

WELL PERMIT # 26000 76 988
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-9-10

PROPERTY OWNER Hampshire Group

ADDRESS 15 Maple Avenue, Morristown, Hudson County

WELL LOCATION 872-931 Garfield Ave, Jersey City, Hudson
Street & No., Township, County

MW-11A (PPG-114-11A) 2A
Well No. Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

PERMIT # OF NEW WELL _____

TOTAL DEPTH OF WELL 16'

DIAMETER 2"

CASING LENGTH 4'

SCREEN LENGTH 12'

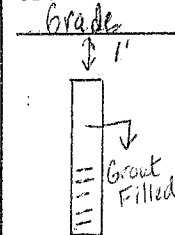
NUMBER OF CASINGS 1

MATERIAL USED TO DECOMMISSION WELL:

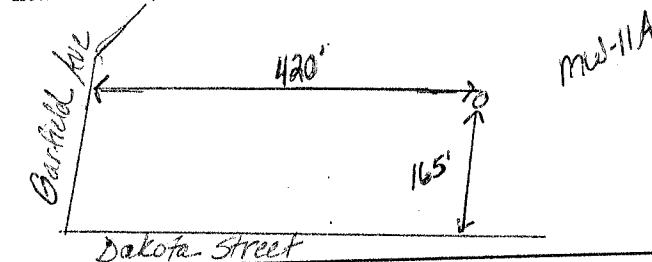
12 Gallons of Water
141 Lbs. of Cement
9.5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: X Consolidated
X Unconsolidated

Cross-section
of sealed well



Draw a sketch showing distance and relations of well site to
nearest roads, buildings, etc.



AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)
NJ STATE PLACE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ LONGITUDE: _____

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? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim Sarris 1250 N. Church St. Morristown NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller

Tim Sarris
Signature of NJ Licensed Well Driller Performing Work

4-27-10
Mailing Date
MW 449791
Registration #

WELL ABANDONMENT REPORT

WELL PERMIT # 2600076982
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-9-10

PROPERTY OWNER Hampshire Group

ADDRESS 15 Maple Avenue, Morristown, Hudson County

WELL LOCATION 892-931 Garfield Ave, Jersey City, Hudson
Street & No., Township, County

P2-4
Well No.

2A
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring - Piezometer

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

PERMIT # OF NEW WELL _____

TOTAL DEPTH OF WELL 16 1/2'

DIAMETER 3/4"

CASING LENGTH 1 1/2'

SCREEN LENGTH 15'

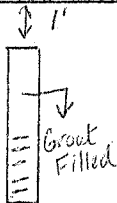
NUMBER OF CASINGS 1

MATERIAL USED TO DECOMMISSION WELL:

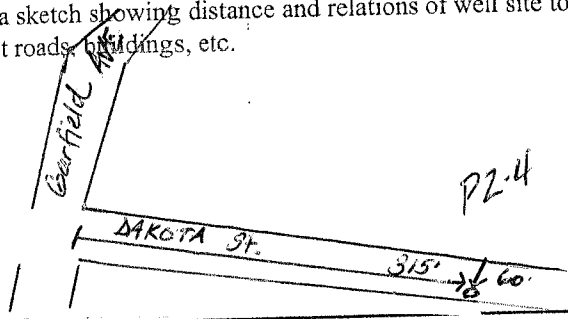
8 Gallons of Water
94 Lbs. of Cement
5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: _____ Consolidated
X Unconsolidated

Cross-section
of sealed well
Grade



Draw a sketch showing distance and relations of well site to
nearest roads, buildings, etc.



AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)
NJ STATE PLACE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ LONGITUDE: _____

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? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim Sarris 1256 N. Church St. Morristown, NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller

Tim Sarris
Signature of NJ Licensed Well Driller Performing Work

4-27-10
Mailing Date
MW 449791
Registration #

WELL ABANDONMENT REPORT

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

WELL PERMIT # 4600077019
of well sealed

DATE WELL SEALED 4-9-10

PROPERTY OWNER Hampshire Group

ADDRESS 15 Maple Avenue, Morristown, Hudson County

WELL LOCATION 872-931 Garfield Ave, Jersey City, Hudson
Street & No., Township, County

P2-15 (P2-5)
Well No.

2A
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring - Pierozela

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

PERMIT # OF NEW WELL _____

TOTAL DEPTH OF WELL 18'

DIAMETER 3/4"

CASING LENGTH 13'

SCREEN LENGTH 5'

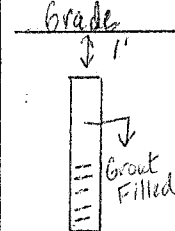
NUMBER OF CASINGS 1

MATERIAL USED TO DECOMMISSION WELL:

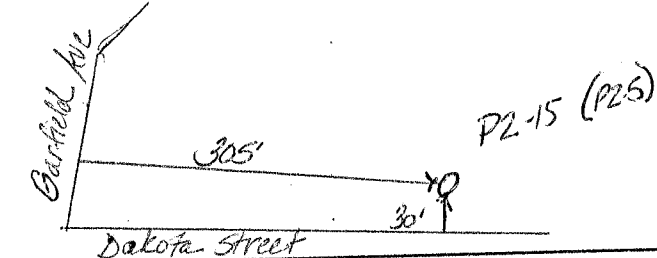
8 Gallons of Water
94 Lbs. of Cement
5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: ☐ Consolidated
☒ Unconsolidated

Cross-section
of sealed well



Draw a sketch showing distance and relations of well site to
nearest roads, buildings, etc.



AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)
NJ STATE PLACE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

LATITUDE: _____ LONGITUDE: _____

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? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Jim Sarris 1256 N. Church St. Morristown NJ 08057 4-27-10
Performing Work (Print or Type) Address Mailing Date

Name of NJ Licensed Well Driller

Jim Sarris
Signature of NJ Licensed Well Driller Performing Work

MW 44979
Registration #

WELL ABANDONMENT REPORT

WELL PERMIT # 2600077020
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-9-10

PROPERTY OWNER Hampshire Group

ADDRESS 15 Maple Avenue, Morristown, Hudson County

WELL LOCATION 892-931 Garfield Ave, Jersey City, Hudson
Street & No., Township, County

P2-16 (P2-6)
Well No.

2A
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring - Pierometer

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

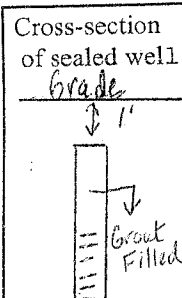
PERMIT # OF NEW WELL _____

TOTAL DEPTH OF WELL 18'
DIAMETER 3/4"
CASING LENGTH 13'
SCREEN LENGTH 5'
NUMBER OF CASINGS 1

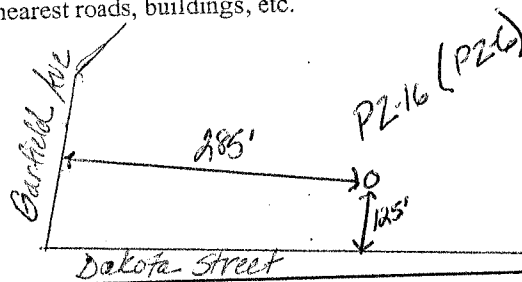
MATERIAL USED TO DECOMMISSION WELL:

8 Gallons of Water
94 Lbs. of Cement
5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: X Consolidated
X Unconsolidated



Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.



AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)
NJ STATE PLACE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ LONGITUDE: _____

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? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim Saris 1256 N. Church St. Morristown, NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller

Tim Saris
Signature of NJ Licensed Well Driller Performing Work

4-27-10
Mailing Date
MW449791
Registration #

WELL ABANDONMENT REPORT

WELL PERMIT # 2600077021
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-9-10

PROPERTY OWNER Hampshire Group

ADDRESS 15 Maple Avenue, Morristown, Hudson County

WELL LOCATION 892-931 Garfield Ave, Jersey City, Hudson
Street & No., Township, County

P2-17 (P2-7)
Well No.

2A
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring - Piezometer

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

PERMIT # OF NEW WELL _____

TOTAL DEPTH OF WELL 17'

DIAMETER 3/4"

CASING LENGTH 7'

SCREEN LENGTH 10'

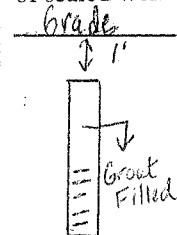
NUMBER OF CASINGS 1

MATERIAL USED TO DECOMMISSION WELL:

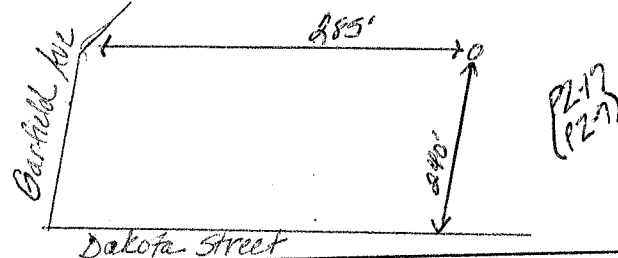
8 Gallons of Water
94 Lbs. of Cement
5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: ☐ Consolidated
☒ Unconsolidated

Cross-section
of sealed well



Draw a sketch showing distance and relations of well site to
nearest roads, buildings, etc.



AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)
NJ STATE PLACE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ LONGITUDE: _____

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? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim Saris 1256 N. Church St. Morristown, NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller

Tim Saris
Signature of NJ Licensed Well Driller Performing Work

4-27-10
Mailing Date
MW 449791
Registration #

WELL ABANDONMENT REPORT

WELL PERMIT # 2600077023
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-9-10

PROPERTY OWNER Hampshire Group

ADDRESS 15 Maple Avenue, Morristown, Hudson County

WELL LOCATION 892-931 Garfield Ave, Jersey City, Hudson
Street & No., Township, County

P2-9
Well No.

2A
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring - Piezometer

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

PERMIT # OF NEW WELL _____

TOTAL DEPTH OF WELL 15

DIAMETER 3/4"

CASING LENGTH 10'

SCREEN LENGTH 5'

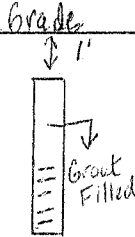
NUMBER OF CASINGS 1

MATERIAL USED TO DECOMMISSION WELL:

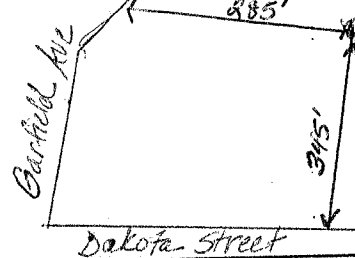
8 Gallons of Water
94 Lbs. of Cement
5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: X Consolidated
X Unconsolidated

Cross-section
of sealed well



Draw a sketch showing distance and relations of well site to
nearest roads, buildings, etc.



AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)
NJ STATE PLACE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ LONGITUDE: _____

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? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim Sarris 1256 N. Church St. Morristown, NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller

Tim Sarris
Signature of NJ Licensed Well Driller Performing Work

4-27-10
Mailing Date
MW 449791
Registration #

WELL ABANDONMENT REPORT

WELL PERMIT # 2600077024
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-9-10

PROPERTY OWNER Hampshire Group

ADDRESS 15 Maple Avenue, Morristown, Hudson County

WELL LOCATION 892-931 Garfield Ave, Jersey City, Hudson
Street & No., Township, County

P2-10
Well No.

2A
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring - Piezometer

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

PERMIT # OF NEW WELL _____

TOTAL DEPTH OF WELL 19'

DIAMETER 3 1/4"

CASING LENGTH 14'

SCREEN LENGTH 5'

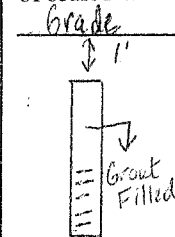
NUMBER OF CASINGS 1

MATERIAL USED TO DECOMMISSION WELL:

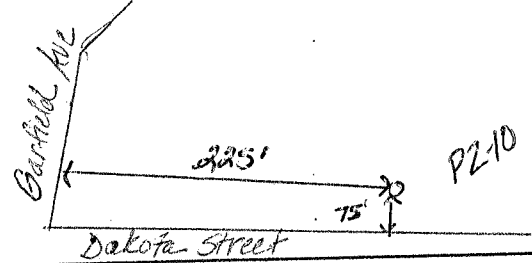
8 Gallons of Water
94 Lbs. of Cement
5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: _____ Consolidated
X Unconsolidated

Cross-section
of sealed well



Draw a sketch showing distance and relations of well site to
nearest roads, buildings, etc.



AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)
NJ STATE PLACE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ LONGITUDE: _____

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? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim Saris 1256 N. Church St. Morristown, NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller

Tim Saris
Signature of NJ Licensed Well Driller Performing Work

4-27-10
Mailing Date
NW 449791
Registration #

WELL ABANDONMENT REPORT

WELL PERMIT # 2600077025
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-9-10

PROPERTY OWNER Hampshire Group

ADDRESS 15 Maple Avenue, Morristown, Hudson County

WELL LOCATION 892-931 Garfield Ave, Jersey City, Hudson
Street & No., Township, County

PZ-11
Well No.

2A
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring - Piezometer

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

PERMIT # OF NEW WELL _____

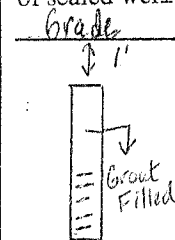
TOTAL DEPTH OF WELL 18'
DIAMETER 3/4"
CASING LENGTH 13'
SCREEN LENGTH 5'
NUMBER OF CASINGS 1

MATERIAL USED TO DECOMMISSION WELL:

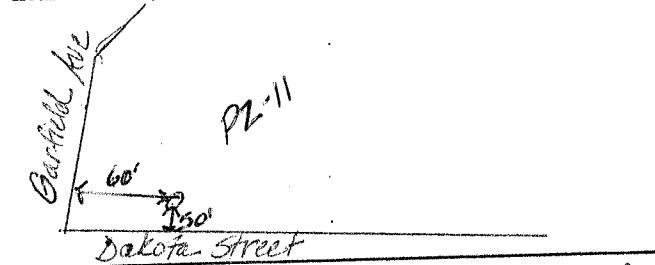
8 Gallons of Water
94 Lbs. of Cement
5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: _____ Consolidated
☒ Unconsolidated

Cross-section
of sealed well



Draw a sketch showing distance and relations of well site to
nearest roads, buildings, etc.



AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)
NJ STATE PLACE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR
LATITUDE: _____ LONGITUDE: _____

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: PC

WERE OTHER OBSTRUCTIONS LEFT IN WELL? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim Saris 1256 N. Church St. Morristown, NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller

Tim Saris
Signature of NJ Licensed Well Driller Performing Work

4-27-10
Mailing Date
NW 44979
Registration #

WELL ABANDONMENT REPORT

WELL PERMIT # 2600077026
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-9-10

PROPERTY OWNER Hampshire Group

ADDRESS 15 Maple Avenue, Morristown, Hudson County

WELL LOCATION 892-931 Garfield Ave, Jersey City, Hudson
Street & No., Township, County

P2-12
Well No.

2A
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring-Piezometer

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

PERMIT # OF NEW WELL _____

TOTAL DEPTH OF WELL 18'

DIAMETER 3/4"

CASING LENGTH 13'

SCREEN LENGTH 5'

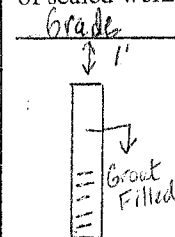
NUMBER OF CASINGS 1

MATERIAL USED TO DECOMMISSION WELL:

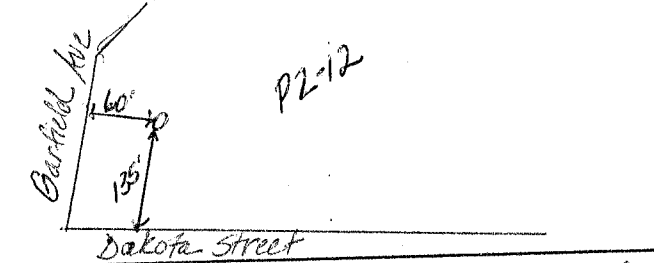
8 Gallons of Water
94 Lbs. of Cement
5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: X Consolidated
 Unconsolidated

Cross-section
of sealed well



Draw a sketch showing distance and relations of well site to
nearest roads, buildings, etc.



AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)
NJ STATE PLACE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR
LATITUDE: _____ LONGITUDE: _____

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? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim Saris 1250 N. Church St. Morristown, NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller

Tim Saris
Signature of NJ Licensed Well Driller Performing Work

4-27-10
Mailing Date
MW 449791
Registration #

WELL ABANDONMENT REPORT

WELL PERMIT # 2600077017
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-9-10

PROPERTY OWNER Hampshire Group
ADDRESS 15 Maple Avenue, Morristown, Hudson County
WELL LOCATION 892-931 Garfield Ave, Jersey City, Hudson
Street & No., Township, County

P2-13 2A 2026.1
Well No. Lot No. Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring - Piezometer

REASON FOR ABANDONMENT: No Longer Needed

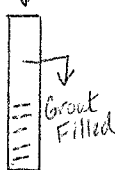
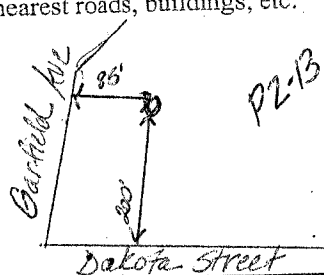
WAS A NEW WELL DRILLED? ☐ YES ☒ NO PERMIT # OF NEW WELL _____

TOTAL DEPTH OF WELL 17'
DIAMETER 3/4"
CASING LENGTH 12'
SCREEN LENGTH 5'
NUMBER OF CASINGS 1

MATERIAL USED TO DECOMMISSION WELL:

8 Gallons of Water
94 Lbs. of Cement
5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: X Consolidated
 Unconsolidated

Cross-section of sealed well <u>Grade</u> ↓ 1'  Grout Filled	Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.  AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET NORTHING: _____ EASTING: _____ OR LATITUDE: _____ LONGITUDE: _____
------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.
Tim Sarris 1256 N. Church St. Morristown, NJ 08057 4-27-10
Performing Work (Print or Type) Address Mailing Date
Name of NJ Licensed Well Driller Tim Sarris Signature of NJ Licensed Well Driller Performing Work Registration # NW 449791

WELL ABANDONMENT REPORT

WELL PERMIT # 2600077018
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-9-10

PROPERTY OWNER Hampshire Group

ADDRESS 15 Maple Avenue, Morristown, Hudson County

WELL LOCATION 892-931 Garfield Ave, Jersey City, Hudson
Street & No., Township, County

P2-14
Well No.

2A
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring - Piezometer

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

PERMIT # OF NEW WELL _____

TOTAL DEPTH OF WELL 80'

DIAMETER 3/4"

CASING LENGTH 15'

SCREEN LENGTH 5'

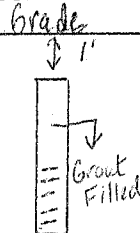
NUMBER OF CASINGS 1

MATERIAL USED TO DECOMMISSION WELL:

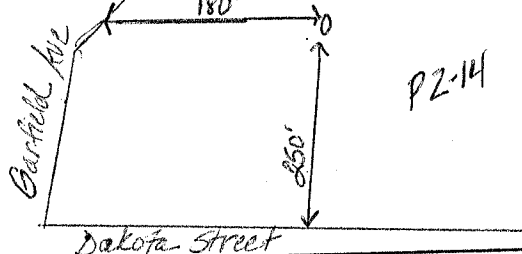
8 Gallons of Water
94 Lbs. of Cement
5 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: X Consolidated
 Unconsolidated

Cross-section
of sealed well



Draw a sketch showing distance and relations of well site to
nearest roads, buildings, etc.



AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)
NJ STATE PLACE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ LONGITUDE: _____

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? ☐ YES ☒ NO 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? ☐ YES ☒ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim Sarris 1250 N. Church St. Morristown, NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller

Tim Sarris
Signature of NJ Licensed Well Driller Performing Work

4-27-10
Mailing Date
NW 449791
Registration #

**Environmental and Geotechnical Drilling Services**

1256 North Church Street, Westtown NJ 08086

Phone: 856 722 1745 Fax: 856 742 7745

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 cement-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

Very truly yours,

EAST COAST DRILLING, INC

James W. Duffy, President
NJ Master Driller M1224

Approval to ABANDON BOTH

WELLS GRANTED 3/25/10

STEVE REYA

Approval # 171003046

SEE "OFFICIAL" COPY OF WELL RECORDS

2600069769 ATTACHED

Eng4drilling Company-Proposal AECOM/NJDEP Decommission 2-Double Cased Wells PPG Industries Jersey City NJ wpd
Fax Transmission: 609-633-1231

WELL ABANDONMENT REPORT

WELL PERMIT # 2600069769
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-8-10

PROPERTY OWNER PPG Industries, Inc.

ADDRESS 4325 Rosanna Drive, Allison Park, Pa 15101

WELL LOCATION Garfield & Carteret Ave, Jersey City, Hudson County
Street & No., Township, County

PPG-2B
Well No.

1
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

PERMIT # OF NEW WELL _____

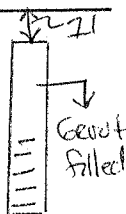
TOTAL DEPTH OF WELL 26
DIAMETER 2" / 6"
CASING LENGTH 16' / 12"
SCREEN LENGTH 10'
NUMBER OF CASINGS 2

MATERIAL USED TO DECOMMISSION WELL:

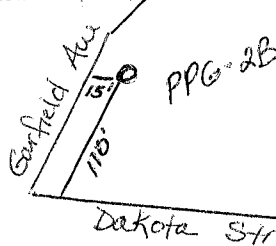
24 Gallons of Water
282 Lbs. of Cement
15 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: ☐ Consolidated
☒ Unconsolidated

Cross-section
of sealed well
Gravel



Draw a sketch showing distance and relations of well site to
nearest roads, buildings, etc.



AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)
NJ STATE PLACE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR
LATITUDE: _____ LONGITUDE: _____

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: Steel / PVC

WERE OTHER OBSTRUCTIONS LEFT IN WELL? ☐ YES ☒ NO 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? ☒ YES ☐ NO

IF "YES", authorization granted by Steve Rega ON 3/25/10
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim Sarris 125 E. W. Church St. Moorestown NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller

Tim Sarris
Signature of NJ Licensed Well Driller Performing Work

4-27-10
Mailing Date
NW449791
Registration #

WELL ABANDONMENT REPORT

WELL PERMIT # 2600069776
of well sealed

MAIL TO: Bureau of Water Systems & Well Permitting
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 4-8-10

PROPERTY OWNER PPG Industries, Inc.

ADDRESS 4325 Rosanna Drive, Allison Park, Pa 15101

WELL LOCATION Garfield & Carteret Ave, Jersey City, Hudson County
Street & No., Township, County

PPG-6B
Well No.

1
Lot No.

2026.1
Block No.

USE OF WELL PRIOR TO ABANDONMENT: Monitoring

REASON FOR ABANDONMENT: No Longer Needed

WAS A NEW WELL DRILLED? ☐ YES ☒ NO

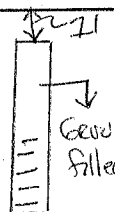
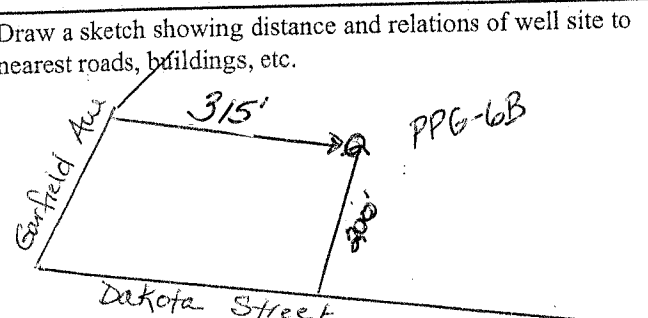
PERMIT # OF NEW WELL _____

TOTAL DEPTH OF WELL 31
DIAMETER 2" / 6"
CASING LENGTH 21' / 18'
SCREEN LENGTH 10
NUMBER OF CASINGS 2

MATERIAL USED TO DECOMMISSION WELL:

32 Gallons of Water
376 Lbs. of Cement
20 Lbs. of Bentonite
0 Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: ☐ Consolidated
☒ Unconsolidated

<p>Cross-section of sealed well</p> <p><u>Gravel</u></p> 	<p>Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.</p> 
<p>AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM) NJ STATE PLACE COORDINATE IN US SURVEY FEET</p> <p>NORTHING: _____ EASTING: _____ OR LATITUDE: _____ LONGITUDE: _____</p>	

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 / steel

WERE OTHER OBSTRUCTIONS LEFT IN WELL? ☐ YES ☒ NO 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? ☒ YES ☐ NO

IF "YES", authorization granted by Steve Keya ON 3/25/10
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9D-3 et seq.

Tim Sarris 125 E. N. Church St. Moorestown NJ 08057
Performing Work (Print or Type) Address

Name of NJ Licensed Well Driller

Tim Sarris

Signature of NJ Licensed Well Driller Performing Work

4-27-10
Mailing Date
MW 44 9791
Registration #

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 Records

Phase 1B Records

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: Hudson Municipality: Jersey City Lot: 2A Block: 2026.1

Easting (X): 610816 Northing (Y): 683479
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** December 9, 2011

WELL USE: MONITORING

Other Use(s): _____

Local ID: PP6-1A

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 10

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	10	8.25		
Casing	0	5	2	PVC	SH40
Screen	5	10	2	PVC	0.010"

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	10	2	0	0	18	1
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

Warren Blewett
JOURNEYMAN
Sealing Driller: LICENSE # 0014578

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

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: Hudson Municipality: Jersey City Lot: 2A Block: 2026.1

Easting (X): 610820 Northing (Y): 683487
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** December 12, 2011

WELL USE: MONITORING

Other Use(s): _____

Local ID: PP6-1B

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 29

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	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"

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	29	2	0	0	52	3
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: Lynn Stout

Obstruction Type: _____

Authorization Number: A1112081

Alternative Decomm. Method? No

Authorization Date: December 9, 2011

Method Used _____

ATTACHMENTS: _____

Warren Blewett
JOURNEYMAN
Sealing Driller: LICENSE # 0014578

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

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: Hudson Municipality: Jersey City Lot: 2A Block: 2026.1

Easting (X): 610811 Northing (Y): 683250
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** December 9, 2011

WELL USE: MONITORING

Other Use(s): _____

Local ID: PP6-4A

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 14

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	14	6		
Casing	0	4	2	PVC	SH40
Screen	4	14	2	PVC	0.010"

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	14	2	0	0	25	1.5
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

Warren Blewett
JOURNEYMAN
Sealing Driller: LICENSE # 0014578

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

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: Hudson Municipality: Jersey City Lot: 2A Block: 2026.1

Easting (X): 610817 Northing (Y): 683247
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** December 12, 2011

WELL USE: MONITORING

Other Use(s): _____

Local ID: PP6-4B

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 38

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	16	12		
Borehole	16	38	6		
Casing	0	16	6	Steel	0.144"
Casing	16	0	28	PVC	SH40
Screen	28	38	2	PVC	0.010"

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	38	2	0	0	70	4
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: Lynn Stout

Obstruction Type: _____

Authorization Number: A1112082

Alternative Decomm. Method? No

Authorization Date: December 9, 2011

Method Used _____

ATTACHMENTS: _____

Warren Blewett
JOURNEYMAN
Sealing Driller: LICENSE # 0014578

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

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: Hudson Municipality: Jersey City Lot: 2A Block: 2026.1

Easting (X): 610817 Northing (Y): 683248
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** December 9, 2011

WELL USE: MONITORING

Other Use(s): _____

Local ID: PP6-5A

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 16

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	16	6		
Casing	0	5	2	PVC	SH40
Screen	5	16	2	p	0.010"

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	16	2	0	0	30	1.5
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

Warren Blewett
JOURNEYMAN
Sealing Driller: LICENSE # 0014578

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

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: Hudson Municipality: Jersey City Lot: 2A Block: 2026.1

Easting (X): 611040 Northing (Y): 683531
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** December 12, 2011

WELL USE: MONITORING

Other Use(s): _____

Local ID: PP6 - 5B

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 41

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	18	12		
Borehole	18	41	6		
Casing	0	31	2	PVC	SH40
Screen	31	41	2	PVC	0.010"

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	41	2	0	0	75	4
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: Lynn Stout

Obstruction Type: _____

Authorization Number: A1112083

Alternative Decomm. Method? No

Authorization Date: December 9, 2011

Method Used _____

ATTACHMENTS: _____

Warren Blewett
JOURNEYMAN
Sealing Driller: LICENSE # 0014578

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

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

Easting (X): 610967 Northing (Y): 683335
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** December 9, 2011

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-12A

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 16

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	16	6		
Casing	0	3	2	PVC	SH40
Screen	3	16	2	PVC	0.010"

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	16	2	0	0	30	2
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

Warren Blewett
JOURNEYMAN
Sealing Driller: LICENSE # 0014578

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

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

Easting (X): 610972 Northing (Y): 683342
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** December 12, 2011

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-12B

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 36

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	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"

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	36	2	0	0	65	3.5
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: Lynn Stout

Obstruction Type: _____

Authorization Number: A1112084

Alternative Decomm. Method? No

Authorization Date: December 9, 2011

Method Used _____

ATTACHMENTS: _____

Warren Blewett
JOURNEYMAN
Sealing Driller: LICENSE # 0014578

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

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: HCC SUITE 114

Address: 900 garfield ave

County: Hudson **Municipality:** Jersey City **Lot:** 18 **Block:** 21501

Easting (X): 610829 **Northing (Y):** 683528
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** July 15, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: mw-32

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 12

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					
Casing	0	2	2	PVC	Sch 40
Screen	2	12	2	PVC	.020

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	12	2	0	3	23	2
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: HCC SUITE 114

Address: 900 garfield ave

County: Hudson **Municipality:** Jersey City **Lot:** 18 **Block:** 21501

Easting (X): 610764 **Northing (Y):** 683421
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** July 15, 2015

WELL USE: MONITORING

Other Use(s): _____

Local ID: mw-33

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 DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	3	2	PVC	Sch 40
Screen	3	13	2	PVC	.020

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	13	2	0	3	23	2.5
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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:** 3A,3B,4A **Block:** 2026.1

Easting (X): 611021 **Northing (Y):** 683231
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** December 9, 2011

WELL USE: PIEZOMETER

Other Use(s): _____

Local ID: pz-1

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 20

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	20	6		
Casing	0	15	0.75	PVC	SH40
Screen	15	20	0.75	PVC	SCH40

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	20	0.75	0	0	9	0.5
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

Warren Blewett
JOURNEYMAN
Sealing Driller: LICENSE # 0014578

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

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: 3A,3B,4A Block: 2026.1

Easting (X): 611045 Northing (Y): 683196
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** December 9, 2011

WELL USE: PIEZOMETER

Other Use(s): _____

Local ID: PZ-2

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 18

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	18	6		
Casing	0	3	0.75	PVC	SH40
Screen	3	18	0.75	PVC	SCH40

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	18	0.75	0	0	9	0.5
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

Warren Blewett
JOURNEYMAN
Sealing Driller: LICENSE # 0014578

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

Phase 1C Records

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: PPG INDUSTRIES, INC. PPG INDUSTRIES, INC.

Company/Organization: PPG Industries, Inc.

Address: 4325 Rosanna Drive Allison Park, Pennsylvania 15101

WELL LOCATION: PPG Industries

Address: GARFIELD AND CARTERET AVES.

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: PP6-3A

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 8

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					
Casing	0	3	2	PVC	sch 40
Screen	3	8	2	PVC	.01

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	8	2	0	1.5	23.5	2
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official:

Obstruction Type:

Authorization Number:

Alternative Decomm. Method? No

Authorization Date:

Method Used

ATTACHMENTS:

Paul Lentz
MONITORING
Sealing Driller: LICENSE # 545066

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

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: HAMPSHIRE GROUP N/A

Company/Organization: 900 garfield ave ppg

Address: 900 garfield ave Jersey City, New Jersey 07302

WELL LOCATION: ppg garfield ave

Address: 900 GARFIELD AVE. PPG GARFIELD AVE.

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.1

Easting (X): 611159 Northing (Y): 683602
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** March 15, 2013

WELL USE: MONITORING

Other Use(s): _____

Local ID: PPG-114-21A

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 18

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					
Casing	0	3	2	PVC	sch 40
Screen	3	18	2	pvc	.10

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	18	2	0		10	5
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: HAMPSHIRE GROUP

Company/Organization: Hampshire Group

Address: 15 Maple Ave Morristown, New Jersey 07960

WELL LOCATION: Former PPG

Address: 900 GARFIELD AVE. PPG GARFIELD AVE.

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.1

Easting (X): 611394 Northing (Y): 683875
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** April 10, 2013

WELL USE: MONITORING

Other Use(s): _____

Local ID: PPG-114-21B

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 34

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					
Casing	0	29	2	PVC	40
Casing	0	19	6	Steel	.280
Screen	29	34	2	PVC	.010

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	34	2	0		94	5.2
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: Lynn Stout

Obstruction Type: _____

Authorization Number: A1303057

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

Phase 2A Records

WELL DECOMMISSIONING REPORT

A1210018

MAIL TO: Bureau of Water Systems and Well Permitting
PO Box 426
Trenton, NJ 08625-0426WELL PERMIT # 2600068664
of well decommissioned

DATE WELL DECOMMISSIONED 10-15-2012

PROPERTY OWNER: PSEG Services Corp

Company/Organization:

Mailing Address: 80 Park Plaza, Newark, NJ 07102

FACILITY/LOCATION NAME: Former Halliday St Gas Works

Location Description: Halliday & Forest St.

Well Address: Halliday & Forest St.

County: Hudson

Municipality: Jersey City

Lot: 2, 4, 5

Block: 2026.1

Easting (X): _____ Northing (Y): _____

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

Method: ☐ Survey ☐ Digital Image ☐ GPSWas a New Well Drilled? ☐ Yes ☒ No

Permit # of New Well: NA

WELL USE: Monitoring

Reason for Decommissioning: Site excavation

WELL DECOMMISSIONING INFORMATION

Well Depth (ft.): 56

Local ID: MW-3D

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Left in Place?	Material	Wgt./Rating or Screen Slot # (lbs/sch no.)
Borehole(s)	0	40/56	12/6	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
Single/Inner Casing	0	46	2	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	PVC	40
Middle Casing/Tail Piece				<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
Outer Casing	0	40	6	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Steel	40
Screen(s)	46	56	2	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	PVC	010

MATERIALS USED TO DECOMMISSION WELL

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	56	2	0	15	5	10
Gravel Pack							

Formation Type: ☐ Consolidated ☒ Unconsolidated

ADDITIONAL INFORMATION

Obstructions: ☐ Yes ☒ No

Authorization Official: NA

Obstruction Type: NA

Authorization Number: NA

Alt. Decomm. Method/Approval granted by BWSWP? ☐ Yes ☒ No

Authorization Date: NA

Method Used: NA

Drilling Company Name & Address: ZEBRA Environmental/ 629 Wright Debow Rd

I certify that this well was decommissioned in accordance with N.J.A.C. 7:9D-3 et seq.

Gary Parent

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

Signature of NJ Licensed Well Driller Performing Work

MD1546

Registration #

DWR
12/08

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

WELL PERMIT # 2600068658
of well decommissioned

DATE WELL DECOMMISSIONED 10-15-12

PROPERTY OWNER: PSEG Services Corp

Company/Organization: "

Mailing Address: 80 Park Plaza, Newark, NJ 07102

FACILITY/LOCATION NAME:

Location Description: Halliday + Forrest STS Former Halliday Gas Works

Well Address: Halliday + Forrest St

County: Hudson Municipality: Jersey City Lot: 2, 4, 5 Block: 2026.1

Easting (X): _____ Northing (Y): _____
(NAD 83 Horizontal Datum) NJ State Plane in US Survey Feet
Method: ☐ Survey ☐ Digital Image ☐ GPS

Was a New Well Drilled? ☐ Yes ☒ No

Permit # of New Well: _____

WELL USE: Monitoring

Reason for Decommissioning: Excavating Site

WELL DECOMMISSIONING INFORMATION

Well Depth (ft.): 12

Local ID: MW-35

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Left in Place?	Material	Wgt./Rating or Screen Slot # (lbs/sch no.)
Borehole(s)	0	12	6			
Single/Inner Casing	0	2	2	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	PVC	Sch 40
Middle Casing/Tail Piece	NA			<input type="checkbox"/> Y <input type="checkbox"/> N		
Outer Casing	NA			<input type="checkbox"/> Y <input type="checkbox"/> N		
Screen(s)	2	12	2	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	PVC	.010 sch 40

MATERIALS USED TO DECOMMISSION WELL

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	12	2	0	16	2	10
Gravel Pack							

Formation Type: ☐ Consolidated ☒ Unconsolidated

ADDITIONAL INFORMATION

Obstructions: ☐ Yes ☒ No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alt. Decomm. Method/Approval granted by BWSWP? ☐ Yes ☒ No

Authorization Date: _____

Method Used: _____

Drilling Company Name & Address: ZEBA Environmental

I certify that this well was decommissioned in accordance with N.J.A.C. 7:9D-3 et seq.

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

G. Parent
Signature of NJ Licensed Well Driller Performing Work

ND1540
Registration #

WELL DECOMMISSIONING REPORT

AP# A1210030

MAIL TO: Bureau of Water Systems and Well Permitting
PO Box 426
Trenton, NJ 08625-0426WELL PERMIT # 2600068665
of well decommissioned

DATE WELL DECOMMISSIONED 10-15-2012

PROPERTY OWNER: PSEG Services Corp

Company/Organization: " " " "

Mailing Address: 80 Park Plaza, Newark, NJ 07102

FACILITY/LOCATION NAME: Former Halliday St Gas Works

Location Description: Halliday & Forest St.

Well Address: Halliday & Forest St.

County: Hudson

Municipality: Jersey City

Lot: 2, 4, 5

Block: 2026.1

Easting (X): _____ Northing (Y): _____
(NAD 83 Horizontal Datum) NJ State Plane in US Survey FeetMethod: ☐ Survey ☐ Digital Image ☐ GPSWas a New Well Drilled? ☐ Yes ☒ No

Permit # of New Well: NA

WELL USE: Monitoring

Reason for Decommissioning: Site excavation

WELL DECOMMISSIONING INFORMATION

Well Depth (ft.): 48

Local ID: MW 4D

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Left in Place?	Material	Wgt./Rating or Screen Slot # (lbs/sch no.)
Borehole(s)	0	32/36	12/6	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
Single/Inner Casing	0	38	2	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	PVC	40
Middle Casing/Tail Piece				<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
Outer Casing	6	32	6	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Steel	40
Screen(s)	38	48	2	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	PVC	

MATERIALS USED TO DECOMMISSION WELL

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	48	2	0	15	5	10
Gravel Pack							

Formation Type: ☐ Consolidated ☒ Unconsolidated

ADDITIONAL INFORMATION

Obstructions: ☐ Yes ☒ No

Authorization Official: NA

Obstruction Type: NA

Authorization Number: NA

Alt. Decomm. Method/Approval granted by BWSWP? ☐ Yes ☒ No

Authorization Date: NA

Method Used NA

Drilling Company Name & Address: ZEBRA Environmental 629 Wright Debow Rd

I certify that this well was decommissioned in accordance with N.J.A.C. 7:9D-5 et seq.

Gary Parent

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

Signature of Licensed Well Driller Performing Work

MD1540

Registration #

DWR
12/08

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

WELL PERMIT # A121009
2600075535
of well decommissioned

DATE WELL DECOMMISSIONED 10-15-2012

PROPERTY OWNER: PSEG Services Corp

Company/Organization: " " " "

Mailing Address: 80 Park Plaza, Newark, NJ 07102

FACILITY/LOCATION NAME: Former Halliday St Gas Works

Location Description: Halliday & Forest St.

Well Address: Halliday & Forest St.

County: Hudson Municipality: Jersey City

Lot: 2, 4, 5 Block: 2026.1

Easting (X): _____ Northing (Y): _____
(NAD 83 Horizontal Datum) NJ State Plane in US Survey Feet
Method: ☐ Survey ☐ Digital Image ☐ GPS

Was a New Well Drilled? ☐ Yes ☒ No

Permit # of New Well: N/A

WELL USE: Monitoring

Reason for Decommissioning: Site excavation

WELL DECOMMISSIONING INFORMATION

Well Depth (ft.): 77

Local ID: MW 4F

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Left in Place?	Material	Wgt./Rating or Screen Slot # (lbs/sch no.)
Borehole(s)	<u>0</u>	<u>77</u>	<u>12/8</u>			
Single/Inner Casing	<u>+2</u>	<u>67</u>	<u>4</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>PVC</u>	<u>40</u>
Middle Casing/Tail Piece				<input type="checkbox"/> Y <input type="checkbox"/> N		
Outer Casing	<u>+2</u>	<u>45</u>	<u>8</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>Steel</u>	<u>40</u>
Screen(s)	<u>67</u>	<u>77</u>	<u>4</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>PVC</u>	<u>10/1</u>

MATERIALS USED TO DECOMMISSION WELL

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	<u>0</u>	<u>77</u>	<u>4</u>	<u>0</u>	<u>75</u>	<u>20</u>	<u>50</u>
Gravel Pack							

Formation Type: ☐ Consolidated ☒ Unconsolidated

ADDITIONAL INFORMATION

Obstructions: ☐ Yes ☒ No

Authorization Official: N/A

Obstruction Type: N/A

Authorization Number: N/A

Alt. Decomm. Method/Approval granted by BWSWP? ☐ Yes ☒ No

Authorization Date: N/A

Method Used N/A

Drilling Company Name & Address: ZEBRA Environmental/ 629 Wright Debow Rd

I certify that this well was decommissioned in accordance with N.J.A.C. 7:9D-3 et seq.

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

[Signature]
Signature of NJ Licensed Well Driller Performing Work

MD1570
Registration #

DWR
12/08

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

WELL PERMIT # 2600068659
of well decommissioned

DATE WELL DECOMMISSIONED 10-15-12

PROPERTY OWNER: PSEG Services Corp

Company/Organization: "

Mailing Address: 80 Park Plaza, Newark, NJ 07102

FACILITY/LOCATION NAME: Former Halliday St Gas works

Location Description: Halliday + Forrest St

Well Address: "

County: Hudson Municipality: Jersey City Lot: 2, 4, 5 Block: 2026.1

Easting (X): _____ Northing (Y): _____
(NAD 83 Horizontal Datum) NJ State Plane in US Survey Feet
Method: ☐ Survey ☐ Digital Image ☐ GPS

Was a New Well Drilled? ☐ Yes ☒ No

Permit # of New Well: NA

WELL USE: Monitoring

Reason for Decommissioning: excavation

WELL DECOMMISSIONING INFORMATION

Well Depth (ft.): 12

Local ID: MW-45

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Left in Place?	Material	Wgt./Rating or Screen Slot # (lbs/sch no.)
Borehole(s)	0	12	6			
Single/Inner Casing	0	2	2	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	PVC	40
Middle Casing/Tail Piece				<input type="checkbox"/> Y <input type="checkbox"/> N		
Outer Casing				<input type="checkbox"/> Y <input type="checkbox"/> N		
Screen(s)	2	12	2	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	PVC	.010. Sca 40

MATERIALS USED TO DECOMMISSION WELL

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	12	2	0	16	2	10
Gravel Pack							

Formation Type: ☒ Consolidated ☐ Unconsolidated

ADDITIONAL INFORMATION

Obstructions: ☐ Yes ☒ No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alt. Decomm. Method/Approval granted by BWSWP? ☐ Yes ☒ No

Authorization Date: _____

Method Used: _____

Drilling Company Name & Address: ZEBDA 629 Wright Debow Rd Jackson

I certify that this well was decommissioned in accordance with N.J.A.C. 7:9D-3 et seq.

Gary Parent

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

G. Parent

Signature of NJ Licensed Well Driller Performing Work

MD1540

Registration #

WELL DECOMMISSIONING REPORTMAIL TO: Bureau of Water Systems and Well Permitting
PO Box 426
Trenton, NJ 08625-0426WELL PERMIT # 2600068666
of well decommissionedDATE WELL DECOMMISSIONED 10-15-2012PROPERTY OWNER: PSEG Services CorpCompany/Organization: "Mailing Address: 80 Park Plaza, Newark, NJ 07102FACILITY/LOCATION NAME: Former Halliday St Gas WorksLocation Description: Halliday & Forest St.Well Address: Halliday & Forest St.County: HudsonMunicipality: Jersey CityLot: 2, 4, 5Block: 2026.1

Easting (X): _____ Northing (Y): _____

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

Method: ☐ Survey ☐ Digital Image ☐ GPSWas a New Well Drilled? ☐ Yes ☒ NoPermit # of New Well: NAWELL USE: MonitoringReason for Decommissioning: Site excavation

WELL DECOMMISSIONING INFORMATION

Well Depth (ft.): 71Local ID: NW 5D

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Left in Place?	Material	Wgt./Rating or Screen Slot # (lbs/sch no.)
Borehole(s)	<u>0</u>	<u>53/71</u>	<u>12/6</u>			
Single/Inner Casing	<u>0</u>	<u>61</u>	<u>2</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>PVC</u>	<u>40</u>
Middle Casing/Tail Piece	<u>0</u>			<input type="checkbox"/> Y <input type="checkbox"/> N		
Outer Casing	<u>0</u>	<u>53</u>	<u>6</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>Steel</u>	<u>40</u>
Screen(s)	<u>61</u>	<u>71</u>	<u>2</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>PVC</u>	<u>,010</u>

MATERIALS USED TO DECOMMISSION WELL

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	<u>0</u>	<u>71</u>	<u>2</u>	<u>0</u>	<u>30</u>	<u>10</u>	<u>20</u>
Gravel Pack							

Formation Type: ☐ Consolidated ☒ Unconsolidated

ADDITIONAL INFORMATION

Obstructions: ☐ Yes ☒ NoAuthorization Official: NAObstruction Type: NAAuthorization Number: NAAlt. Decom. Method/Approval granted by BWSWP? ☐ Yes ☒ NoAuthorization Date: NAMethod Used: NADrilling Company Name & Address: ZEBRA Environmental/ 629 Wright Debow Rd

I certify that this well was decommissioned in accordance with N.J.A.C. 7:9D-3 et seq.

Gary ParentName Of Licensed Well Driller
Performing Work (Print or Type)G. Parent

Signature of NJ Licensed Well Driller Performing Work

MD1570

Registration #

DWR
12:08

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

WELL PERMIT # 2600068660
of well decommissioned

DATE WELL DECOMMISSIONED 10-15-2012

PROPERTY OWNER: PSEG Services

Company/Organization: " "

Mailing Address: 80 Park Plaza Newark NJ 07102

FACILITY/LOCATION NAME: Halliday Gas works

Location Description: Former " " "

Well Address: Halliday + Forrest St

County: Hudson Municipality: Jersey City

Lot: 245

Block: 2026.1

Easting (X): _____ Northing (Y): _____
(NAD 83 Horizontal Datum) NJ State Plane in US Survey Feet
Method: ☐ Survey ☐ Digital Image ☐ GPS

Was a New Well Drilled? ☐ Yes ☒ No

Permit # of New Well: NA

WELL USE: Monitoring

Reason for Decommissioning: excavation

WELL DECOMMISSIONING INFORMATION

Well Depth (ft.): 12

Local ID: MW55

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Left in Place?	Material	Wgt./Rating or Screen Slot # (lbs/sch no.)
Borehole(s)	<u>0</u>	<u>12</u>	<u>6</u>			
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>2</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>PVC</u>	<u>Sch 40</u>
Middle Casing/Tail Piece				<input type="checkbox"/> Y <input type="checkbox"/> N		
Outer Casing				<input type="checkbox"/> Y <input type="checkbox"/> N		
Screen(s)	<u>2</u>	<u>12</u>	<u>2</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>PVC</u>	<u>.010</u>

MATERIALS USED TO DECOMMISSION WELL

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	<u>0</u>	<u>12</u>	<u>2</u>	<u>0</u>	<u>15</u>	<u>/</u>	<u>10</u>
Gravel Pack							

Formation Type: ☐ Consolidated ☒ Unconsolidated

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 NA

Drilling Company Name & Address: ZEBRA ENVIR. Jackson, NJ

I certify that this well was decommissioned in accordance with N.J.A.C. 7:9D-3 et seq.

Gary Parent

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

[Signature]

Signature of NJ Licensed Well Driller Performing Work

MD1540

Registration #

DWR
12/08

5

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

WELL DECOMMISSIONING REPORT

A1210031

MAIL TO: Bureau of Water Systems and Well Permitting
PO Box 426
Trenton, NJ 08625-0426

WELL PERMIT # 2600068667
of well decommissioned

DATE WELL DECOMMISSIONED 10-15-2012

PROPERTY OWNER: PSEG Services Corp

Company/Organization: " " " "

Mailing Address: 80 Park Plaza, Newark, NJ 07102

FACILITY/LOCATION NAME: Former Halliday St Gas Works

Location Description: Halliday & Forest St.

Well Address: Halliday & Forest St.

County: Hudson Municipality: Jersey City Lot: 2, 4, 5 Block: 2026.1

Easting (X): _____ Northing (Y): _____
(NAD 83 Horizontal Datum) NJ State Plane in US Survey Feet
Method: ☐ Survey ☐ Digital Image ☐ GPS

Was a New Well Drilled? ☐ Yes ☒ No
Permit # of New Well: NA

WELL USE: Monitoring Reason for Decommissioning: Site excavation

WELL DECOMMISSIONING INFORMATION
Well Depth (ft.): 50 Local ID: MW 6D

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Left in Place?	Material	Wgt./Rating or Screen Slot # (lbs/sch no.)
Borehole(s)	<u>0</u>	<u>38/50</u>	<u>12/6</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>PVC</u>	<u>40</u>
Single/Inner Casing	<u>0</u>	<u>40</u>	<u>2</u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u>PVC</u>	<u>40</u>
Middle Casing/Tail Piece		<u>38</u>		<input type="checkbox"/> Y <input type="checkbox"/> N		
Outer Casing	<u>0</u>	<u>38</u>	<u>6</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>Steel</u>	<u>40</u>
Screen(s)	<u>40</u>	<u>30</u>	<u>2</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>PVC</u>	<u>100</u>

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	<u>0</u>	<u>30</u>	<u>2</u>	<u>0</u>	<u>15</u>	<u>5</u>	<u>10</u>
Gravel Pack							

Formation Type: ☐ Consolidated ☒ Unconsolidated

ADDITIONAL INFORMATION
Obstructions: ☐ Yes ☒ No
Obstruction Type: NA
Alt. Decomm. Method/Approval granted by BWSWP? ☐ Yes ☒ No
Method Used: NA
Authorization Official: NA
Authorization Number: NA
Authorization Date: NA

Drilling Company Name & Address: ZEBRA Environmental 629 Wright Debar Rd

I certify that this well was decommissioned in accordance with N.J.A.C. 7-9D-3 et seq.

Gary Parent [Signature] MD1540
Name Of Licensed Well Driller Performing Work (Print or Type) Signature of NJ Licensed Well Driller Performing Work Registration #

DWR
12/08

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

WELL PERMIT # 2600868661
of well decommissioned

DATE WELL DECOMMISSIONED 10-15-2012

PROPERTY OWNER: PSEG Services

Company/Organization: " "

Mailing Address: 80 Park Plaza Newark NJ 07102

FACILITY/LOCATION NAME: Halliday Gas Works

Location Description: Former

Well Address: Halliday + Forrest St

County: Hudson Municipality: Jersey City

Lot: 245 Block: 2026.1

Easting (X): _____ Northing (Y): _____
(NAD 83 Horizontal Datum) NJ State Plane in US Survey Feet
Method: ☐ Survey ☐ Digital Image ☐ GPS

Was a New Well Drilled? ☐ Yes ☒ No

Permit # of New Well: NA

WELL USE: Monitoring

Reason for Decommissioning: excavation

WELL DECOMMISSIONING INFORMATION

Well Depth (ft.): 15

Local ID: MW 65

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Left in Place?	Material	Wgt./Rating or Screen Slot # (lbs/sch no.)
Borehole(s)	<u>0</u>	<u>15</u>	<u>6</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>PVC</u>	<u>Sch 40</u>
Single/Inner Casing	<u>0</u>	<u>5</u>	<u>2</u>	<input type="checkbox"/> Y <input type="checkbox"/> N		
Middle Casing/Tail Piece	<u>/</u>			<input type="checkbox"/> Y <input type="checkbox"/> N		
Outer Casing	<u>/</u>			<input type="checkbox"/> Y <input type="checkbox"/> N		
Screen(s)	<u>5</u>	<u>15</u>	<u>2</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>PVC</u>	<u>1010</u>

MATERIALS USED TO DECOMMISSION WELL

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	<u>0</u>	<u>15</u>	<u>2</u>	<u>0</u>	<u>15</u>		<u>10</u>
Gravel Pack							

Formation Type: ☐ Consolidated ☒ Unconsolidated

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 NA

Drilling Company Name & Address: ZEBRA ENVIR. Jackson, NJ

I certify that this well was decommissioned in accordance with N.J.A.C. 7:9D-3 et seq.

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

[Signature]
Signature of NJ Licensed Well Driller Performing Work

MD1540
Registration #

DWR
12/08

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

WELL DECOMMISSIONING REPORT

Approval

A1210059

MAIL TO: Bureau of Water Systems and Well Permitting
PO Box 426
Trenton, NJ 08625-0426

WELL PERMIT # 26-6524
of well decommissioned

DATE WELL DECOMMISSIONED 10-15-2012

PROPERTY OWNER: CLIF ASSOCIATES

Company/Organization: "

Mailing Address: 2520 Park St. Union NJ

FACILITY/LOCATION NAME: Former GAS WORKS

Location Description: Former Malliday St Gas Works

Well Address: Malliday St & Forrest St

County: Hudson Municipality: Jersey City

Lot: 3-B Block: 2026

Easting (X): _____ Northing (Y): _____
(NAD 83 Horizontal Datum) NJ State Plane in US Survey Feet
Method: ☐ Survey ☐ Digital Image ☐ GPS

Was a New Well Drilled? ☐ Yes ☒ No

Permit # of New Well: NA

WELL USE: MONITORING

Reason for Decommissioning: Site excavation

WELL DECOMMISSIONING INFORMATION

Well Depth (ft.): 66'

Local ID: W3A

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Left in Place?	Material	Wgt./Rating or Screen Slot # (lbs/sch no.)
Borehole(s)	0	66	6	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
Single/Inner Casing	0	56	2	<input type="checkbox"/> Y <input type="checkbox"/> N	PVC	Sch 40
Middle Casing/Tail Piece				<input type="checkbox"/> Y <input type="checkbox"/> N		
Outer Casing				<input type="checkbox"/> Y <input type="checkbox"/> N		
Screen(s)	56	66	2	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	PVC	Sch 40 .010

MATERIALS USED TO DECOMMISSION WELL

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	66	2	0	35		20
Gravel Pack							

Formation Type: ☐ Consolidated ☒ Unconsolidated

ADDITIONAL INFORMATION

Obstructions: ☐ Yes ☒ No

Obstruction Type: NA

Alt. Decomm. Method/Approval granted by BWSWP? ☐ Yes ☐ No

Method Used NA

Authorization Official: _____

Authorization Number: _____

Authorization Date: _____

Drilling Company Name & Address: ZEBRA ENVIRONMENTAL Jackson, NJ

I certify that this well was decommissioned in accordance with N.J.A.C. 7:9D-3 et seq.

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

[Signature]
Signature of NJ Licensed Well Driller Performing Work

MD1540
Registration #

DWR
12/08

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

WELL PERMIT # NA
of well decommissioned

DATE WELL DECOMMISSIONED 10-15-2012

PROPERTY OWNER: CLIF Associates

Company/Organization: " "

Mailing Address: 2520 Polk St. Union NJ

FACILITY/LOCATION NAME: Former GAS WORKS

Location Description: Former Halliday St Gas Works

Well Address: Halliday St & Forrest St

County: Hudson Municipality: Jersey City Lot: 3-B Block: 2026

Easting (X):	Northing (Y):
(NAD 83 Horizontal Datum) NJ State Plane in US Survey Feet	
Method:	<input type="checkbox"/> Survey <input type="checkbox"/> Digital Image <input type="checkbox"/> GPS

Was a New Well Drilled? ☐ Yes ☒ No

Permit # of New Well: NA

WELL USE: MONITORING Reason for Decommissioning: Site excavation

WELL DECOMMISSIONING INFORMATION
Well Depth (ft.): 30' Local ID: W-313

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Left in Place?	Material	Wgt./Rating or Screen Slot # (lbs/sch no.)
Borehole(s)	0	30	6	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
Single/Inner Casing	0	20	2	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	PVC	Sch 40
Middle Casing/Tail Piece				<input type="checkbox"/> Y <input type="checkbox"/> N		
Outer Casing				<input type="checkbox"/> Y <input type="checkbox"/> N		
Screen(s)	20	30	2	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	PVC	Sch 40 .010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	30	2	0	15		10
Gravel Pack							

Formation Type: ☐ Consolidated ☒ Unconsolidated

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 NA

Drilling Company Name & Address: ZEBRA Environmental Jackson, NJ

I certify that this well was decommissioned in accordance with N.J.A.C. 7:27D-3 et seq.

Gary Parent G Parent MD1540
Name Of Licensed Well Driller Performing Work (Print or Type) Signature of NJ Licensed Well Driller Performing Work Registration #

Phase 2B-1 Records

WELL DECOMMISSIONING REPORT

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 (FORMER)

County: Hudson Municipality: Jersey City Lot: 3A Block: 2026A

Easting (X): 611569 Northing (Y): 683774
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** April 10, 2013

WELL USE: MONITORING

Other Use(s): _____

Local ID: PPG-114-23A

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 18

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					
Casing	0	2	2	PVC	40
Screen	2	18	2	PVC	.010

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	18	2	0		94	5.2
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

WELL DECOMMISSIONING REPORT

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 **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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	35	2	PVC	40
Casing	0	19	6	Steel	.280
Screen	35	40	2	PVC	.010

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	2	0		94	5.2
Sand/Gravel							

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: _____

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: 16 Block: 21501

Easting (X): 611430 Northing (Y): 683837
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** November 21, 2012

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MW-1S

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 12 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					
Casing	0	2	2	PVC	Sch 40
Screen	2	12	2	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	12	2	0	3	47	5
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

Phase 2B-3 Records

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): 611067 Northing (Y): 683110
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** June 5, 2014

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MW-2D

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 43

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					
Casing	0	33	2	PVC	Sch 40
Casing	0	19	6	Steel	Sch 40
Screen	33	43	2	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	43	2	0	15	141	10
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: Michael Schumacher

Obstruction Type: _____

Authorization Number: A1405021

Alternative Decomm. Method? No

Authorization Date: May 7, 2014

Method Used _____

ATTACHMENTS: _____

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
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** November 26, 2013

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MW-2S

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 12 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					
Casing	0	2	2	PVC	sch 40
Screen	2	12	2	PVC	.010

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	12	2	0	5	94	6
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: GARFIELD AVE. & CARTERET AVE.

County: Hudson Municipality: Jersey City Lot: 18 Block: 21501

Easting (X): 611186 Northing (Y): 683317
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** May 13, 2014

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** PP6-7A

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 DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	5	2	PVC	Sch 40
Screen	5	17	2	PVC	.010

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	17	2	0	5	94	6
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: GARFIELD AVE. & CARTERET AVE.

County: Hudson Municipality: Jersey City Lot: 18 Block: 21501

Easting (X): 611179 Northing (Y): 683320
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** May 14, 2014

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** PP6-7B

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 33 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					
Casing	0	19	6	Steel	Sch 40
Casing	0	23	2	PVC	Sch 40
Screen	23	33	2	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	33	2	0	15	141	10
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: Michael Schumacher

Obstruction Type: _____

Authorization Number: A1405017

Alternative Decomm. Method? No

Authorization Date: May 7, 2014

Method Used _____

ATTACHMENTS: _____

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): 611186 Northing (Y): 683324
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** May 13, 2014

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MW-7C

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 52 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					
Casing	0	42	2	PVC	Sch 40
Casing	0	34	6	Steel	Sch 40
Screen	42	52	2	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	52	2	0	25	188	13
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: Michael Schumacher

Obstruction Type: _____

Authorization Number: A1405018

Alternative Decomm. Method? No

Authorization Date: May 7, 2014

Method Used _____

ATTACHMENTS: _____

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
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** September 25, 2013

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MW-10A

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	2	2	PVC	Sch 40
Screen	2	15	2	PVC	.010

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	15	2	0	3	47	4
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

Phase 2B-4 Records

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: GARFIELD AND CARTERET AVES.

County: Hudson Municipality: Jersey City Lot: 17 Block: 21501

Easting (X): 611337 Northing (Y): 682896
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** May 8, 2014

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** PP6-8A

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 DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	5	2	PVC	Sch 40
Screen	5	17	2	PVC	.010

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	17	2	0	5	94	6
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 114

Address: GARFIELD AVE. & CARTERET AVE.

County: Hudson Municipality: Jersey City Lot: 17 Block: 21501

Easting (X): 611340 Northing (Y): 682900
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** June 5, 2014

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** PP6-8B

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 45 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					
Casing	0	19	6	Steel	Sch 40
Casing	0	35	2	PVC	Sch 40
Screen	35	45	2	PVC	.010

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	45	2	0	15	94	8
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: Michael Schumacher

Obstruction Type: _____

Authorization Number: A1405019

Alternative Decomm. Method? No

Authorization Date: May 7, 2014

Method Used _____

ATTACHMENTS: _____

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: 871-931 GARFIELD AVENUE PPG GARFIELD AVENUE

County: Hudson Municipality: Jersey City Lot: 18 Block: 21501

Easting (X): 611264 Northing (Y): 683088
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** November 26, 2013

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MW-13A

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	2	2	PVC	Sch 40
Screen	2	15	2	PVC	.010

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	15	2	0	5	94	6
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 114

Address: 871-931 GARFIELD AVENUE PPG GARFIELD AVENUE

County: Hudson Municipality: Jersey City Lot: 18 Block: 21501

Easting (X): 611262 Northing (Y): 683084
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** June 5, 2014

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-13B

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 42

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					
Casing	0	32	2	PVC	Sch 40
Casing	0	15	6	Steel	Sch 40
Screen	32	42	2	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	42	2	0	15	141	10
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: Michael Schumacher

Obstruction Type: _____

Authorization Number: A1405020

Alternative Decomm. Method? No

Authorization Date: May 7, 2014

Method Used _____

ATTACHMENTS: _____

Thomas L Hanley
JOURNEYMAN
Sealing Driller: LICENSE # 0001181

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

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 114

Address: Halliday & Forrest Former Halliday Gas W

County: Hudson Municipality: Jersey City Lot: 17 Block: 21501

Easting (X): 611399 Northing (Y): 682947
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** June 5, 2014

WELL USE: MONITORING

Other Use(s): _____

Local ID: W-1A

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): _____

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					
Casing	0	45	2	PVC	Sch 40
Screen	45	55	2	PVC	.010

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	55	2	0	15	188	14
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: Michael Schumacher

Obstruction Type: _____

Authorization Number: A1405022

Alternative Decomm. Method? No

Authorization Date: May 7, 2014

Method Used _____

ATTACHMENTS: _____

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 114

Address: Halladay & Forrest Former Halliday Gas W

County: Hudson Municipality: Jersey City Lot: 17 Block: 21501

Easting (X): 611406 Northing (Y): 682995
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** June 5, 2014

WELL USE: MONITORING

Other Use(s): _____ Local ID: W-1B

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): _____ 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					
Casing	0	8	2	PVC	Sch 40
Screen	8	18	2	PVC	.010

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	18	2	0	5	94	6
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: Michael Schumacher

Obstruction Type: _____ Authorization Number: A1405023

Alternative Decomm. Method? No Authorization Date: May 7, 2014

Method Used _____

ATTACHMENTS: _____

C-3 Well Permits and Decommissioning Records for Wells Installed and Decommissioned During Remediation

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

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 Records

Phase 1A Records

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 1

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611333 Northing (Y): 683735
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 28, 2012

DATE WELL COMPLETED: February 28, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 1

WELL CONSTRUCTION

Total Depth Drilled (ft.): 16 Finished Well Depth (ft.): 16 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16	10		
Casing	0	6	4	PVC	Sch.40
Screen	6	16	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	4	15	50	9
Gravel Pack	2	16	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 15.5: Redish Brown OT - Other Fill; Manufacturing Debris

15.5 - 16: Brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A 900 GARFIELD AVE N/A

Company/Organization: 900 Garfield Ave

Address: 1735 Market St Philadelphia, Pennsylvania 19103

WELL LOCATION: Site 114

Address: 900 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611333 Northing (Y): 683735
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** April 26, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 1

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 16

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					
Casing	0	6	4	PVC	40
Screen	6	16	4	PVC	20 slot

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	16	4	0		94	5.2
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 2

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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

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: 900 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611324 Northing (Y): 683674
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 15, 2012

DATE WELL COMPLETED: February 15, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 2

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	10		
Casing	0	20	4	PVC	Sch.40
Screen	20	40	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	17	10	4	15	400	28
Gravel Pack	17	40	10	4	#1 Sand		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 16: Redish Brown OT - Other Fill; Manufacturing Debris

16 - 19: Grey OL - Organic silts and organic silty clays of low plasticity

19 - 36: Brown red SP - Poorly graded sands and gravelly sands, little or no fines

36 - 40: Redish Brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 900 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611324 Northing (Y): 683674
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** July 5, 2012

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: _____

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	20	4	PVC	sch 40
Screen	20	40	4	pvc	010

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	28
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 3

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

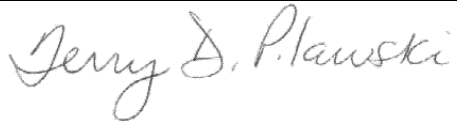
Drilling Method: Hollow Stem Augers

Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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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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]

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

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611269 Northing (Y): 683702
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 13, 2012

DATE WELL COMPLETED: February 13, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 3

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	10	4	PVC	sch 40
Screen	10	40	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	8	11	4	22	402	34
Gravel Pack	8	40	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

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:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 900 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611269 Northing (Y): 683702
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** January 5, 2012

WELL USE: RECOVERY

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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	10	4	PVC	sch 40
Screen	10	40	4	pvc	010

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	28
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611310 Northing (Y): 683647
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 16, 2012

DATE WELL COMPLETED: February 16, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 4

WELL CONSTRUCTION

Total Depth Drilled (ft.): 16 Finished Well Depth (ft.): 16 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16	10		
Casing	0	5.5	4	PVC	Sch.40
Screen	5.5	15.5	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	4	15	50	10
Gravel Pack	2	15.5	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 15.5: Brown OT - Other Fill; Manufacturing Debris

15.5 - 16: Brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 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

**DATE WELL
DECOMMISSIONED:** May 24, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 4

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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16			
Casing	0	5.5	4	PVC	sch 40
Screen	5.5	15.5	4	pvc	010

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	16	4	0	15	94	10
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 5

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611255 Northing (Y): 683675
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 14, 2012

DATE WELL COMPLETED: February 14, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 5

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	10	4	PVC	sch 40
Screen	10	40	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	8	11	4	22	402	34
Gravel Pack	8	40	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

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 - 30: red GM - Silty gravels, gravel-sand-silt mixtures

30 - 40: red GM - Silty gravels, gravel-sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 900 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611255 Northing (Y): 683675
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** July 6, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 5

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	

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	28
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 6

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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

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

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611042 Northing (Y): 683230
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 17, 2012

DATE WELL COMPLETED: February 17, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 6

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	20	4	PVC	sch40
Screen	20	40	4	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	18	11	8	30	564	42
Gravel Pack	18	40	11	4	#1 sand		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: Yes

Static Water Level: 24 ft. below land surface

Water Level Measure Tool: tape

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: B59

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: brown GP - Poorly graded gravels and gravel-sand mixtures, little or no fines

5 - 40: red brown GM - Silty gravels, gravel-sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Brian J Siecker,
MONITORING LICENSE # 195171

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 900 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611042 Northing (Y): 683230
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** July 6, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 6

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					
Casing	0	20	4	PVC	sch 40
Screen	20	40	4	PVC	.010

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	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
JOURNEYMAN
Sealing Driller: LICENSE # 0001181

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

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 7

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611242 Northing (Y): 683648
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 15, 2012

DATE WELL COMPLETED: February 15, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 7

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	10	4	PVC	sch 40
Screen	10	40	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	8	11	4	22	402	34
Gravel Pack	8	40	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

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 - 30: red GM - Silty gravels, gravel-sand-silt mixtures

30 - 40: red GM - Silty gravels, gravel-sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 900 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611242 Northing (Y): 683648
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** July 6, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 7

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	

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	28
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 8

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

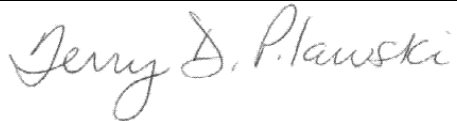
Drilling Method: Hollow Stem Augers

Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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

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

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611286 Northing (Y): 683594
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 21, 2012

DATE WELL COMPLETED: February 21, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 8

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	10		
Casing	0	5	4	PVC	Sch.40
Screen	5	15	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	4	15	50	9
Gravel Pack	2	15	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 15: green/yellow OT - Other Fill; Manufacturing Debris

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 900 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611283 Northing (Y): 683594
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** May 24, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 8

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	10		
Casing	0	5	4	PVC	sch 40
Screen	5	15	4	pvc	.020

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	15	4		15	100	10
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 9

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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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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]

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

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611229 Northing (Y): 683621
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 16, 2012

DATE WELL COMPLETED: February 16, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 9

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	10	4	PVC	sch 40
Screen	0	8	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	8	11	4	22	402	34
Gravel Pack	8	40	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

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 - 30: red GM - Silty gravels, gravel-sand-silt mixtures

30 - 40: red GM - Silty gravels, gravel-sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 900 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611229 Northing (Y): 683621
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** July 6, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 9

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					
Casing	0	8	4	PVC	sch 40
Screen	8	40	4	pvc	010

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							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611215 Northing (Y): 683594
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 17, 2012

DATE WELL COMPLETED: February 17, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 10

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	10	4	PVC	sch 40
Screen	10	40	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	8	11	4	22	402	34
Gravel Pack	8	40	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

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 - 30: red GM - Silty gravels, gravel-sand-silt mixtures

30 - 40: red GM - Silty gravels, gravel-sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 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

**DATE WELL
DECOMMISSIONED:** July 6, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 10

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	

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	28
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 11

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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

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

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611269 Northing (Y): 683567
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 22, 2012

DATE WELL COMPLETED: February 22, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 11

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	11		
Casing	0	5	4	PVC	sch 40
Screen	5	15	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: black OT - Other fill

5 - 8: black OT - Other fill

8 - 10: black OT - Other fill

10 - 14: black OT - Other fill

14 - 15: brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 900 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611269 Northing (Y): 683567
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** July 6, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 11

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	10		
Casing	0	5	4	PVC	sch 40
Screen	5	15	4	pvc	.020

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	15	4	0	15	100	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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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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]

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

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611201 Northing (Y): 683568
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 2, 2012

DATE WELL COMPLETED: February 2, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 12

WELL CONSTRUCTION

Total Depth Drilled (ft.): 39 Finished Well Depth (ft.): 39 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	39	11		
Casing	0	9	4	PVC	sch 40
Screen	9	39	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	7	11	4	19	352	30
Gravel Pack	7	39	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 12: black OT - Other fill

12 - 15: black OT - Other fill

15 - 17: brown PT - Peat, muck, and other highly organic soils

17 - 25: red GM - Silty gravels, gravel-sand-silt mixtures

25 - 39: red GM - Silty gravels, gravel-sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 900 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611201 Northing (Y): 683568
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** July 6, 2012

WELL USE: RECOVERY

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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	9	4	PVC	sch 40
Screen	9	39	4	pvc	010

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	39	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 _____

ATTACHMENTS: _____

Thomas L Hanley
JOURNEYMAN
Sealing Driller: LICENSE # 0001181

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

WELL PERMIT

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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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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

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

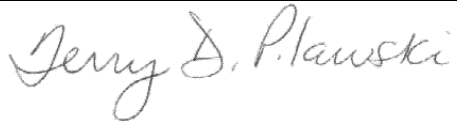
Drilling Method: Hollow Stem Augers

Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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: 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

DATE WELL STARTED: January 31, 2012

DATE WELL COMPLETED: January 31, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 13

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	10	4	PVC	sch40
Screen	10	40	4	pvs	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	8	11	4	22	402	34
Gravel Pack	8	40	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: sytrifical pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 14: grey GM - Silty gravels, gravel-sand-silt mixtures

14 - 18: black OL - Organic silts and organic silty clays of low plasticity

18 - 25: red GM - Silty gravels, gravel-sand-silt mixtures

25 - 39: red GW - Well-graded gravels and gravel-sand mixtures, little or no fines

39 - 40: red SW - Well-graded sands and gravelly sands, little or no fines

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 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

**DATE WELL
DECOMMISSIONED:** July 5, 2012

WELL USE: RECOVERY

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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	10	4	PVC	sch 40
Screen	10	40	4	pvc	010

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	31
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 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

Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MON-12

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 4

Regulatory Program

Depth (ft.): 40

Requiring Wells/Borings: _____

Pump Capacity (gpm): 0

Case ID Number: _____

Drilling Method: Hollow Stem Augers

Deviation Requested: N

Attachments: _____

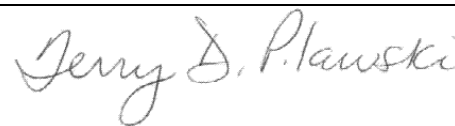
SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

Approved by the authority of:

Bob Martin
Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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

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 LOCATION: 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
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 1, 2012

DATE WELL COMPLETED: February 1, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON-12

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	30	4	PVC	sch 40
Screen	30	40	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	28	11	4	78	1409	120
Gravel Pack	28	40	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

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:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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, New Jersey 07302

WELL LOCATION: 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
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** February 1, 2012

WELL USE: MONITORING

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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	30	4	PVC	sch 40
Screen	30	40	4	PVC	.010

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	16	376	35
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 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): 611259 Northing (Y): 683606
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MON-13

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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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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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]

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 LOCATION: 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
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 22, 2012

DATE WELL COMPLETED: February 22, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON-13

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	30	4	PVC	sch 40
Screen	30	40	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	28	11	4	78	1409	120
Gravel Pack	28	40	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

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:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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, New Jersey 07302

WELL LOCATION: 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
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** March 15, 2013

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON-13

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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	30	4	PVC	sch 40
Screen	30	40	4	pvc	.10

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		94	6
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

Thomas Lynch
MONITORING
Sealing Driller: LICENSE # 435631

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

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: 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): 611286 Northing (Y): 683659
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MON-14

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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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 LOCATION: 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
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 21, 2012

DATE WELL COMPLETED: February 21, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON-14

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	10		
Casing	0	30	4	PVC	Sch.40
Screen	30	40	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	26	10	4	30	800	42
Gravel Pack	26	40	10	4	# 0 Sand		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 16: Redish Brown OT - Other Fill; Manufacturing Debris

16 - 19: Grey OL - Organic silts and organic silty clays of low plasticity

19 - 36: Brown red SW - Well-graded sands and gravelly sands, little or no fines

36 - 40: Redish Brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

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: 900 Garfield Avenue Address Verified Wes Eichfeld

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611286 Northing (Y): 683659
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** February 21, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON-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 DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	30	4	PVC	sch 40
Screen	30	40	4	PVC	.020

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	16	376	35
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 30 Montgomery Street Suite 900

City: Jersey City State: New Jersey 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): 611354 Northing (Y): 683726
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MON - 15

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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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 LOCATION: 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
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 24, 2012

DATE WELL COMPLETED: February 24, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON - 15

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	10		
Casing	0	5	4	PVC	Sch.40
Screen	5	15	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (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	15	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 14: Redish Brown OT - Other Fill; Manufacturing Debris

14 - 15: Brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

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 Address verified Wes Eichfeld

County: Hudson Municipality: Jersey City Lot: 3A Block: 2026.1

Easting (X): 611345 Northing (Y): 683720
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** April 26, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON - 15

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15			
Casing	0	5	4	PVC	
Screen	5	15	4		

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	15	4	0	15	94	8
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 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): 611292 Northing (Y): 683754

Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MON-16

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 4

Regulatory Program

Depth (ft.): 40

Requiring Wells/Borings: _____

Pump Capacity (gpm): 0

Case ID Number: _____

Drilling Method: Hollow Stem Augers

Deviation Requested: N

Attachments: _____

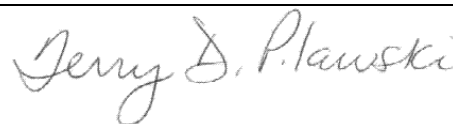
SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

Approved by the authority of:

Bob Martin
Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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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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]

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 LOCATION: Site 114

Address: 900 Garfield Avenue Address Verified Wes Eichfeld

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611292 Northing (Y): 683754
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 8, 2012

DATE WELL COMPLETED: February 8, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON-16

WELL CONSTRUCTION

Total Depth Drilled (ft.): 16 Finished Well Depth (ft.): 16 Well Surface: Above Grade

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16	11		
Casing	0	6	4	PVC	sch 40
Screen	6	16	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	4	11	4	11	201	17
Gravel Pack	4	16	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: black OT - Other fill

5 - 10: black OT - Other fill

10 - 12: black OT - Other fill

12 - 15: black OT - Other fill

15 - 16: brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: 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: 900 Garfield Avenue Address Verified Wes Eichfeld

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611292 Northing (Y): 683754
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** April 26, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON-16

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): _____

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					
Casing	0	6	4	PVC	40
Screen	6	16	4	PVC	10 slot

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	16	4	0		94	5.2
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

Phase 1B Records

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611188 Northing (Y): 683541
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: January 17, 2012

DATE WELL COMPLETED: January 17, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 14

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	10	4	PVC	sch 40
Screen	10	40	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	8	11	4	22	402	34
Gravel Pack	8	40	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: sytriphical pump

Pump Type: _____

Pump Capacity: _ gpm

Total Design Head: _ ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 12: grey GM - Silty gravels, gravel-sand-silt mixtures

12 - 14: black OL - Organic silts and organic silty clays of low plasticity

14 - 27: red GM - Silty gravels, gravel-sand-silt mixtures

27 - 39: red GW - Well-graded gravels and gravel-sand mixtures, little or no fines

39 - 40: red SW - Well-graded sands and gravelly sands, little or no fines

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 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

**DATE WELL
DECOMMISSIONED:** July 6, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 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 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	.020

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							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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

Approval Date: January 13, 2012
Expiration Date: January 12, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611242 Northing (Y): 683514
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: January 17, 2012

DATE WELL COMPLETED: January 17, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 15

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	11		
Casing	0	5	4	PVC	sch 40
Screen	5	15	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: centrifical pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: grey GM - Silty gravels, gravel-sand-silt mixtures

5 - 10: grey GM - Silty gravels, gravel-sand-silt mixtures

10 - 12: black OL - Organic silts and organic silty clays of low plasticity

12 - 14: black OL - Organic silts and organic silty clays of low plasticity

14 - 15: brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 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

**DATE WELL
DECOMMISSIONED:** July 5, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 15

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	5	4	PVC	sch 40
Screen	5	15	4	pvc	.010

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	15	4	0	15	150	10
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 30 Montgomery St., Suite 900

City: Jersey City State: New Jersey Zip Code: 07302

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

Deviation Requested: N


Drilling Method: Hollow Stem Augers

Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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]
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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]
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]

MONITORING WELL RECORD

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY

Company/Organization: jersey City Redevelopment Agency

Address: 30 Montgomery St., Suite 900 Jersey City, New Jersey 07302

WELL LOCATION: 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

DATE WELL STARTED: January 27, 2012

DATE WELL COMPLETED: January 27, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 16

WELL CONSTRUCTION

Total Depth Drilled (ft.): 36 Finished Well Depth (ft.): 36 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	36	11		
Casing	0	6	4	PVC	sch 40
Screen	6	36	11	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	4	11	4	11	201	17
Gravel Pack	4	36	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

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 - 25: red GM - Silty gravels, gravel-sand-silt mixtures

25 - 36: red GM - Silty gravels, gravel-sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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 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

**DATE WELL
DECOMMISSIONED:** July 6, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 16

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 36

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	36	11		
Casing	0	6	4	PVC	sch 40
Screen	6	36	4	pvc	.010

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	36	4	0	30	376	27
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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): 611228 Northing (Y): 683488
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 17

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611228 Northing (Y): 683488
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: January 13, 2012

DATE WELL COMPLETED: January 13, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 17

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	20	4	PVC	sch 40
Screen	20	40	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	18	11	4	50	906	77
Gravel Pack	18	40	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: syntrifical pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 14: grey GM - Silty gravels, gravel-sand-silt mixtures

14 - 16: black OL - Organic silts and organic silty clays of low plasticity

16 - 25: red GM - Silty gravels, gravel-sand-silt mixtures

25 - 39: red GW - Well-graded gravels and gravel-sand mixtures, little or no fines

39 - 40: red SW - Well-graded sands and gravelly sands, little or no fines

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 900 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611228 Northing (Y): 683488
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** July 5, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 17

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					
Casing	0	20	4	PVC	sch 40
Screen	20	40	4	pvc	010

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	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
JOURNEYMAN
Sealing Driller: LICENSE # 0001181

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

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 900 GARFIELD AVE. LLC

Organization: 900 Garfield Ave. LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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

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: 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

DATE WELL STARTED: January 17, 2012

DATE WELL COMPLETED: January 17, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 18

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	11		
Casing	0	5	4	PVC	sch 40
Screen	5	15	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	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

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: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: grey GM - Silty gravels, gravel-sand-silt mixtures

5 - 10: grey GM - Silty gravels, gravel-sand-silt mixtures

10 - 12: black OL - Organic silts and organic silty clays of low plasticity

12 - 14: black OL - Organic silts and organic silty clays of low plasticity

14 - 15: brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 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

**DATE WELL
DECOMMISSIONED:** July 5, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 18

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	10		
Casing	0	5	4	PVC	sch 40
Screen	5	15	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	15	4	0	15	180	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 30 Montgomery St., Suite 900

City: Jersey City State: New Jersey Zip Code: 07302

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

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: _____

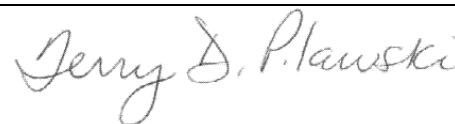
SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

Approved by the authority of:

Bob Martin
Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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

MONITORING WELL RECORD

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY

Company/Organization: jersey City Redevelopment Agency

Address: 30 Montgomery St., Suite 900 Jersey City, New Jersey 07302

WELL LOCATION: 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

DATE WELL STARTED: January 25, 2012

DATE WELL COMPLETED: January 25, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 19

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	20	4	PVC	sch 40
Screen	20	40	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	18	11	4	50	906	77
Gravel Pack	18	40	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

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:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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 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

**DATE WELL
DECOMMISSIONED:** July 6, 2012

WELL USE: RECOVERY

Other 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		
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							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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: 30 Montgomery St., Suite 900

City: Jersey City State: New Jersey Zip Code: 07302

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): 611159 Northing (Y): 683488

Coordinate System: NJ State Plane (NAD83) - USFEET

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

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments: _____

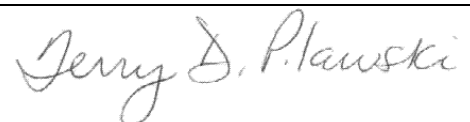
SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

Approved by the authority of:

Bob Martin
Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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

MONITORING WELL RECORD

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY

Company/Organization: jersey City Redevelopment Agency

Address: 30 Montgomery St., Suite 900 Jersey City, New Jersey 07302

WELL LOCATION: 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): 611159 Northing (Y): 683488
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: January 19, 2012

DATE WELL COMPLETED: January 19, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 20

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	10	4	PVC	sch 40
Screen	10	40	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	8	11	4	22	402	34
Gravel Pack	8	40	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

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:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY

Company/Organization: Jersey City Redelopment Agency

Address: 30 Montgomery St, Suite 900 Jersey City, New Jersey 07302

WELL LOCATION: 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): 611159 Northing (Y): 683488
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** February 15, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** CAN - 20

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	.010

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	25	400	30
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

Obstruction Type: _____ Authorization Number: _____

Alternative Decomm. Method? No Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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: 30 Montgomery St., Suite 900

City: Jersey City State: New Jersey Zip Code: 07302

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

Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 21

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: _____

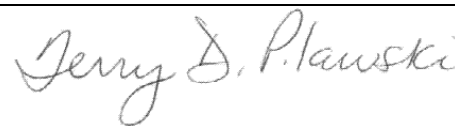
SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

Approved by the authority of:

Bob Martin
Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT

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

GENERAL CONDITIONS/REQUIREMENTS
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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-1]
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 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]

MONITORING WELL RECORD

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY

Company/Organization: jersey City Redevelopment Agency

Address: 30 Montgomery St., Suite 900 Jersey City, New Jersey 07302

WELL LOCATION: 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
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: January 18, 2012

DATE WELL COMPLETED: January 18, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 21

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	11		
Casing	0	5	4	PVC	sch 40
Screen	5	15	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	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

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: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: grey GM - Silty gravels, gravel-sand-silt mixtures

5 - 10: grey GM - Silty gravels, gravel-sand-silt mixtures

10 - 12: black OL - Organic silts and organic silty clays of low plasticity

12 - 14: black OL - Organic silts and organic silty clays of low plasticity

14 - 15: brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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 Address & Lot verified by tax map Wes Ei

County: Hudson Municipality: Jersey City Lot: 4A Block: 2026.1

Easting (X): 611212 Northing (Y): 683462
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** February 15, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** CAN - 21

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	5	4	PVC	sch 40
Screen	5	15	4	PVC	.010

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	15	4	0	15	188	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

Obstruction Type: _____ Authorization Number: _____

Alternative Decomm. Method? No Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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 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): 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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT

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

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

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

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
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: January 20, 2012

DATE WELL COMPLETED: January 20, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 22

WELL CONSTRUCTION

Total Depth Drilled (ft.): 20 Finished Well Depth (ft.): 20 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	20	11		
Casing	0	5	4	PVC	sch 40
Screen	5	20	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	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

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: cme 1050

Health and Safety Plan Submitted? Yes

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:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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): 611132 Northing (Y): 683435
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** February 15, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** CAN - 22

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 20

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	20	11		
Casing	0	5	4	PVC	sch 40
Screen	5	20	4	PVC	.010

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	20	4	0	25	282	18
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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 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): 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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

WELL LOCATION: 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

DATE WELL STARTED: January 30, 2012

DATE WELL COMPLETED: January 30, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 23

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	11		
Casing	0	5	4	PVC	sch 40
Screen	5	15	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: sytrifical pump

Pump Type: _____

Pump Capacity: _ gpm

Total Design Head: _ ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: grey GM - Silty gravels, gravel-sand-silt mixtures

5 - 8: grey GM - Silty gravels, gravel-sand-silt mixtures

8 - 11: grey GM - Silty gravels, gravel-sand-silt mixtures

11 - 14: black SM - Silty sands, sand-silt mixtures

14 - 15: black OL - Organic silts and organic silty clays of low plasticity

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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): 611183 Northing (Y): 683381
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** February 15, 2013

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 23

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	11		
Casing	0	5	4	PVC	Sch 40
Screen	5	15	4	PVC	.010

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	15	4	0	14	188	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 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): 611105 Northing (Y): 683381
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 24

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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

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

WELL LOCATION: 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

DATE WELL STARTED: January 23, 2012

DATE WELL COMPLETED: January 23, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 24

WELL CONSTRUCTION

Total Depth Drilled (ft.): 16 Finished Well Depth (ft.): 16 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16	11		
Casing	0	6	4	PVC	sch 40
Screen	6	16	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	4	11	4	11	201	17
Gravel Pack	4	16	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

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: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: grey GM - Silty gravels, gravel-sand-silt mixtures

5 - 9: grey GM - Silty gravels, gravel-sand-silt mixtures

9 - 13: black OL - Organic silts and organic silty clays of low plasticity

13 - 15: black OL - Organic silts and organic silty clays of low plasticity

15 - 16: brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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): 611105 Northing (Y): 683381
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** February 15, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** CAN - 24

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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16	11		
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.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	16	4	0	14	188	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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 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): 611155 Northing (Y): 683356
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 25

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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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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]

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

WELL LOCATION: 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

DATE WELL STARTED: January 23, 2012

DATE WELL COMPLETED: January 23, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 25

WELL CONSTRUCTION

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	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	18	10		
Casing	0	8	4	PVC	Sch.40
Screen	8	18	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	4	15	50	7
Gravel Pack	2	18	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 6: redish Brown OT - Other fill,cooper,Concrete

6 - 17.5: Yellow/Green OT - Other Fill; Yellow green pastey material

17.5 - 18: Brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

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): 611155 Northing (Y): 683356
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** March 15, 2013

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 25

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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	18	10		
Casing	0	8	4	PVC	sch 40
Screen	8	18	4	PVC	.020

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	18	4	0	10	188	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 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): 611078 Northing (Y): 683328
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 26

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

WELL LOCATION: Site 114

Address: 880 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1

Easting (X): 611078 Northing (Y): 683328
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: January 24, 2012

DATE WELL COMPLETED: January 24, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 26

WELL CONSTRUCTION

Total Depth Drilled (ft.): 20 Finished Well Depth (ft.): 20 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	20	11		
Casing	0	5	4	PVC	sch 40
Screen	5	20	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	3	11	4	8	151	13
Gravel Pack	3	20	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: sytrifical pump

Pump Type: _____

Pump Capacity: _ gpm

Total Design Head: _ ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 6: grey GM - Silty gravels, gravel-sand-silt mixtures

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:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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): 611078 Northing (Y): 683328
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** March 15, 2013

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 26

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 20

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	20	11		
Casing	0	5	4	PVC	Sch 40
Screen	5	20	4	PVC	.010

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	20	4	0	10	203	13
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 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): 611126 Northing (Y): 683303
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 27

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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

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

WELL LOCATION: Site 114

Address: 880 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1

Easting (X): 611126 Northing (Y): 683303
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: January 24, 2012

DATE WELL COMPLETED: January 24, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 27

WELL CONSTRUCTION

Total Depth Drilled (ft.): 16 Finished Well Depth (ft.): 16 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16	10		
Casing	0	6	4	PVC	Sch.40
Screen	6	16	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	4	15	50	7
Gravel Pack	2	16	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 16: Redish Brown OT - Other fill,cooper,Concrete

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

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): 611126 Northing (Y): 683303
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** March 15, 2013

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 27

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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16	10		
Casing	0	6	4	PVC	Sch 40
Screen	6	16	4	PVC	.020

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	16	4	0	7	156	10
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

WELL PERMIT

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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 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): 611050 Northing (Y): 683274
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 28

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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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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]

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

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
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: January 27, 2012

DATE WELL COMPLETED: January 27, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 28

WELL CONSTRUCTION

Total Depth Drilled (ft.): 14 Finished Well Depth (ft.): 14 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	14	10		
Casing	4	14	4	PVC	Sch.40
Screen	4	14	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (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	14	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: Yes

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

ATTACHMENTS:

GEOLOGIC LOG

0 - 14: Redish Brown OT - Other Fill; Manufacturing Debris

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

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): 611050 Northing (Y): 683274
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** March 15, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** CAN - 28

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 14 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	14	10		
Casing	0	4	4	PVC	Sch 40
Screen	4	14	4	PVC	.020

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	14	4	0	6	138	9
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

Obstruction Type: _____ Authorization Number: _____

Alternative Decomm. Method? No Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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 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): 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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

WELL LOCATION: 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

DATE WELL STARTED: January 26, 2012

DATE WELL COMPLETED: January 26, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 29

WELL CONSTRUCTION

Total Depth Drilled (ft.): 14 Finished Well Depth (ft.): 14 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	14	10		
Casing	0	4	4	PVC	Sch.40
Screen	4	14	10	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (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	14	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 14: Redish Brown OT - Other Fill; Manufacturing Debris

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

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): 611098 Northing (Y): 683250
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** March 15, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** CAN - 29

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 14

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	14	4		
Casing	0	4	4	PVC	Sch 40
Screen	4	14	4	PVC	.020

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	14	4	0	7	143	9
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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 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): 611098 Northing (Y): 683250
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 30

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

WELL LOCATION: 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

DATE WELL STARTED: February 8, 2012

DATE WELL COMPLETED: February 8, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 30

WELL CONSTRUCTION

Total Depth Drilled (ft.): 17 Finished Well Depth (ft.): 17 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	17	11		
Casing	0	7	4	PVC	40
Screen	7	17	4	Vwire PVC	.10

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	5	11	4	15	200	20
Gravel Pack	5	17	11	4	#0 sand		

Grouting Method: Gravity method

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 8 ft. below land surface

Water Level Measure Tool: Mscope

Well Development Period: 1 hrs.

Method of Development: Whale pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: Mobile B-59

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

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

ADDITIONAL INFORMATION:

Driller of Record: William R Petley,
MONITORING LICENSE # 545487

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: JERSEY CITY REDEVELOPMENT AGENCY

Company/Organization: Jersey City

Address: 30 Montgomery Street 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): 611098 Northing (Y): 683250
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** April 10, 2013

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 30

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 17

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	17	11		
Casing	0	7	4	PVC	40
Screen	7	17	4	Vwire PVC	10 slot

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							
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used well was excavated to original depth and removed

ATTACHMENTS: _____

Keith Butcher
JOURNEYMAN
Sealing Driller: LICENSE # 203616

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

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 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): 611071 Northing (Y): 683196
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 31

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

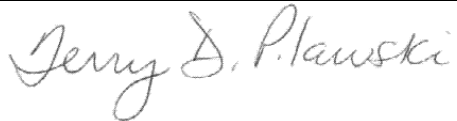
Drilling Method: Hollow Stem Augers

Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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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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]

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

WELL LOCATION: Site 114

Address: 880 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1

Easting (X): 611071 Northing (Y): 683196
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: January 25, 2012

DATE WELL COMPLETED: January 25, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 31

WELL CONSTRUCTION

Total Depth Drilled (ft.): 16 Finished Well Depth (ft.): 16 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16	10		
Casing	6	16	4	PVC	Sch.40
Screen	6	16	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (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

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

ATTACHMENTS:

GEOLOGIC LOG

0 - 16: Redish Brown OT - Other Fill; Manufacturing Debris

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

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): 611071 Northing (Y): 683196
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
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: _____

WELL DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	6	4	PVC	Sch 40
Screen	6	16	4	PVC	.020

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	16	4	0	15	130	10
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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 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): 610983 Northing (Y): 683174
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 32

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

WELL LOCATION: 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

DATE WELL STARTED: January 30, 2012

DATE WELL COMPLETED: January 30, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 32

WELL CONSTRUCTION

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	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	18	11		
Casing	0	3	4	PVC	40
Screen	3	18	4	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	1	11	4		25	2
Gravel Pack	1	18	11	4	#0 sand		

Grouting Method: Gravity method

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 5 ft. below land surface

Water Level Measure Tool: Mscope

Well Development Period: 1 hrs.

Method of Development: Whale pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: Mobile B-59

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: Brown OT - Other Fill

5 - 17.5: Green gray SM - Silty sands, sand-silt mixtures

17.5 - 18: Brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: William R Petley,
MONITORING LICENSE # 545487

Company: SGS NORTH AMERICA INC.

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): 610983 Northing (Y): 683174
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** April 14, 2013

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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	18	4		
Casing	0	3	4	PVC	sch 40
Screen	3	18	4	PVC	.010

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	18	4	0	5	143	11
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 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): 611038 Northing (Y): 683146
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: CAN - 33

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

WELL LOCATION: 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

DATE WELL STARTED: January 26, 2012

DATE WELL COMPLETED: January 26, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: CAN - 33

WELL CONSTRUCTION

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	19	10		
Casing	0	4	4	PVC	Sch.40
Screen	4	19	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (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	19	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 16: Redish Brown OT - Other Fill; Manufacturing Debris

16 - 18.5: Grey SM - Silty sands, sand-silt mixtures

18.5 - 19: Brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

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): 611038 Northing (Y): 683146
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** April 14, 2013

WELL USE: RECOVERY

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: _____

WELL DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	19	10		
Casing	0	4	4	PVC	Sch 40
Screen	4	19	4	PVC	.020

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	19	4	0	15	160	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 30 Montgomery 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): 611003 Northing (Y): 683164
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MON - 8

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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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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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]

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 LOCATION: Site 114

Address: 880 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1

Easting (X): 611003 Northing (Y): 683164
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: January 30, 2012

DATE WELL COMPLETED: January 31, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON - 8

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	30	4	PVC	40
Screen	30	40	4	Pvc	.10

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	27	11	4	50	400	26
Gravel Pack	27	40	11	4	#0 sand		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 17 ft. below land surface

Water Level Measure Tool: Mscope

Well Development Period: 1 hrs.

Method of Development: Whale pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: Mobile B-59

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: Brown OT - Other Fill

5 - 33: Green gray GM - Silty gravels, gravel-sand-silt mixtures

33 - 40: Red SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: William R Petley,
MONITORING LICENSE # 545487

Company: SGS NORTH AMERICA INC.

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): 611003 Northing (Y): 683164
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** April 5, 2013

WELL USE: MONITORING

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: _____

WELL DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	30	4	PVC	Sch 40
Screen	30	40	4	PVC	.010

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	20	425	26
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 30 Montgomery 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): 611051 Northing (Y): 683241
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MON - 9

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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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 LOCATION: Site 114

Address: 880 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1

Easting (X): 611051 Northing (Y): 683241
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 1, 2012

DATE WELL COMPLETED: February 1, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON - 9

WELL CONSTRUCTION

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	19	11		
Casing	0	4	4	PVC	40
Screen	4	19	4	Vwire PVC	.10

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	11	4	50		5
Gravel Pack	2	19	11	4	#0 sand		

Grouting Method: Gravity method

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 7 ft. below land surface

Water Level Measure Tool: Mscope

Well Development Period: 1 hrs.

Method of Development: Whale pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: Mobile B-59

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: Brwn OT - Other Fill

5 - 18: Green grey GM - Silty gravels, gravel-sand-silt mixtures

18 - 19: Brwn PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: William R Petley,
MONITORING LICENSE # 545487

Company: SGS NORTH AMERICA INC.

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): 611051 Northing (Y): 683241
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** April 5, 2013

WELL USE: MONITORING

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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	19	11		
Casing	0	4	4	PVC	Sch 40
Screen	4	19	4	PVC	.010

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	19	4	0	10	188	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 30 Montgomery 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): 611117 Northing (Y): 683358
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MON -10

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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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 LOCATION: 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

DATE WELL STARTED: January 24, 2012

DATE WELL COMPLETED: January 24, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON -10

WELL CONSTRUCTION

Total Depth Drilled (ft.): 16 Finished Well Depth (ft.): 16 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16	11		
Casing	0	6	4	PVC	sch 40
Screen	6	16	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	4	11	4	11	201	17
Gravel Pack	4	16	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 3: grey GM - Silty gravels, gravel-sand-silt mixtures

3 - 5: black OL - Organic silts and organic silty clays of low plasticity

5 - 10: red GM - Silty gravels, gravel-sand-silt mixtures

10 - 14: red GM - Silty gravels, gravel-sand-silt mixtures

14 - 16: red GM - Silty gravels, gravel-sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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): 611117 Northing (Y): 683358
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** March 15, 2013

WELL USE: MONITORING

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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16	11		
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.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	16	4	0	7	156	10
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 30 Montgomery 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): 611151 Northing (Y): 683458
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MON - 11

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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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

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 LOCATION: Site 114

Address: 880 Garfield Ave

County: Hudson

Municipality: Jersey City

Lot: 2.A

Block: 2026.1

Easting (X): 611151 Northing (Y): 683458
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: January 20, 2012

DATE WELL COMPLETED: January 20, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON - 11

WELL CONSTRUCTION

Total Depth Drilled (ft.): 16

Finished Well Depth (ft.): 16

Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16	11		
Casing	0	6	4	PVC	sch 40
Screen	6	16	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	4	11	4	11	201	17
Gravel Pack	4	16	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: grey GM - Silty gravels, gravel-sand-silt mixtures

5 - 10: black OL - Organic silts and organic silty clays of low plasticity

10 - 12: red GM - Silty gravels, gravel-sand-silt mixtures

12 - 14: red GM - Silty gravels, gravel-sand-silt mixtures

14 - 16: red GM - Silty gravels, gravel-sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16	11		
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.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	16	4	0	8	175	11
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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: 30 Montgomery Street Suite 900

City: Jersey City State: New Jersey Zip Code: 07302

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

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: _____

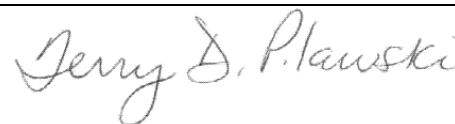
SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

Approved by the authority of:

Bob Martin
Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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 LOCATION: 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

DATE WELL STARTED: February 3, 2012

DATE WELL COMPLETED: February 3, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON - 17

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	30	4	PVC	sch 40
Screen	30	40	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	28	11	4	78	1409	120
Gravel Pack	28	40	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

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:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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 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

**DATE WELL
DECOMMISSIONED:** July 6, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: MON - 17

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	30	4	PVC	sch 40
Screen	30	40	4	pvc	.020

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							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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: 30 Montgomery 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): 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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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 LOCATION: 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

DATE WELL STARTED: February 28, 2012

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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	14	11		
Casing	0	4	4	PVC	sch 40
Screen	4	14	4	pvc	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	11	4	6	101	9
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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

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

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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): 611036 Northing (Y): 683124
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** May 21, 2014

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MON - 24

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 14 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					
Casing	0	4	4	PVC	Sch 40
Screen	4	14	4	PVC	.020

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	14	4	0	8	141	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

Phase 1C Records

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: 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): 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): _____

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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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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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]

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 LOCATION: Site 114

Address: 900 Garfield Avenue Address Verified Wes Eichfeld

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611294 Northing (Y): 683767
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 7, 2012

DATE WELL COMPLETED: February 7, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON-31

WELL CONSTRUCTION

Total Depth Drilled (ft.): 40 Finished Well Depth (ft.): 40 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	40	11		
Casing	0	30	4	PVC	sch 40
Screen	30	40	4	pvc	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	28	11	4	78	1409	120
Gravel Pack	28	40	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

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:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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: 900 Garfield Avenue Address Verified Wes Eichfeld

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611294 Northing (Y): 683767
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** May 11, 2013

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MON-31

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					
Casing	0	30	4	PVC	Sch 40
Screen	30	40	4	PVC	.020

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	330	25
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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 900 GARFIELD AVE . LLC

Organization: 900 Garfield Ave . LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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

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: _____

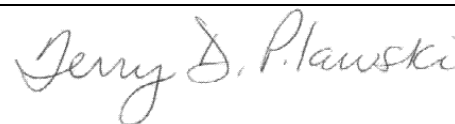
SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: January 13, 2012

Expiration Date: January 12, 2013

Approved by the authority of:

Bob Martin
Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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: 900 Garfield Ave.

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611254 Northing (Y): 683706
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 6, 2012

DATE WELL COMPLETED: February 6, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 10

WELL CONSTRUCTION

Total Depth Drilled (ft.): 21 Finished Well Depth (ft.): 17 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	21	11		
Casing	0	14	1.5	Galvanized Steel	304
Screen	14	17	4	Stainless steel	.10

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	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 Method: Gravity method

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 9 ft. below land surface

Water Level Measure Tool: Mscope

Well Development Period: 1 hrs.

Method of Development: Whale pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: Mobile B-59

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: Brown OT - Other Fill

5 - 17: Green grey SM - Silty sands, sand-silt mixtures

17 - 21: Brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: William R Petley,
MONITORING LICENSE # 545487

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 900 Garfield Ave.

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611254 Northing (Y): 683706
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** June 12, 2013

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 10

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 DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	14	1.5	Steel	Sch 40
Screen	14	17	4	Stainless Steel	.010

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	17	1.5	0	5	141	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 900 GARFIELD AVE . LLC

Organization: 900 Garfield Ave . LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: REL - 11

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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: 900 Garfield Ave.

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611308 Northing (Y): 683759
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 7, 2012

DATE WELL COMPLETED: February 7, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 11

WELL CONSTRUCTION

Total Depth Drilled (ft.): 21 Finished Well Depth (ft.): 16 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	21	11		
Casing	0	13	1.5	Galvanized Steel	40
Screen	13	16	4	Stainless steel	.10

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	11	11	1.5	50	100	10
Gravel Pack	11	16	11	4	#0 sand		
Gravel Pack	16	21	11	0	#0 sand		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 7 ft. below land surface

Water Level Measure Tool: Mscope

Well Development Period: 1 hrs.

Method of Development: Whale pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: Mobile B-59

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: Brown OT - Other Fill

5 - 19: Green grey SM - Silty sands, sand-silt mixtures

19 - 21: Brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: William R Petley,
MONITORING LICENSE # 545487

Company: SGS NORTH AMERICA INC.

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: 900 Garfield Ave.

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611308 Northing (Y): 683759
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** May 30, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** REL - 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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	13	1.5	Galvanized Steel	40
Screen	13	16	1.5	Stainless Steel	.010

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	16	1.5	0	5	94	7
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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 900 GARFIELD AVE . LLC

Organization: 900 Garfield Ave . LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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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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]

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: 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

DATE WELL STARTED: February 27, 2012

DATE WELL COMPLETED: February 27, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 12

WELL CONSTRUCTION

Total Depth Drilled (ft.): 16 Finished Well Depth (ft.): 16 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16	10		
Casing	0	13	1.5	Steel	Sch.40
Screen	13	16	4	Stainless Steel	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	1.5	15	50	9
Gravel Pack	2	13	10	1.5	# 0 Sand		
Gravel Pack	13	16	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 15.5: Redish Brown OT - Other Fill; Manufacturing Debris

15.5 - 16: Brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

WELL DECOMMISSIONING REPORT

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: 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

**DATE WELL
DECOMMISSIONED:** May 30, 2013

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 12

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 Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	13	1.5	Galvanized Steel	sch 40
Screen	13	16	1.5	Stainless Steel	.010

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	16	1.5	0	15	94	7
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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, JOURNEYMAN LICENSE # 0001348

Permit Issued to: B & B DRILLING INC

Company Address: 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: Pennsylvania 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): _____

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: _____

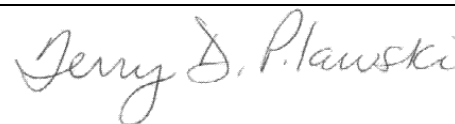
SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: October 26, 2011

Expiration Date: October 25, 2012

Approved by the authority of:

Bob Martin
Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

MONITORING WELL RECORD

PROPERTY OWNER: PPG INDUSTRIES, INC.

Company/Organization: PPG Industries, Inc.

Address: 4325 Rosanna Drive Allison Park, Pennsylvania 15101

WELL LOCATION: PPG Industries

Address: 900 Garfield Ave.

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611240 Northing (Y): 683912
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: October 29, 2011

DATE WELL COMPLETED: October 30, 2011

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-SAP-1

WELL CONSTRUCTION

Total Depth Drilled (ft.): 17 Finished Well Depth (ft.): 17 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	17	6		
Casing	0	7	2	PVC	SH 40
Screen	7	17	2	PVC	0.010"

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	5	6	2	0	70	4
Gravel Pack	5	17	6	2	MORIE #1		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: Yes

Static Water Level: 7.8 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: GUS PECH

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 1: BLK OT - Other BLACK TOP

1 - 10: BRN GM - Silty gravels, gravel-sand-silt mixtures

10 - 17: RED-BRN SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Warren Blewett,
JOURNEYMAN LICENSE # 0014578

Company: B & B DRILLING INC

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: PPG INDUSTRIES, INC. PPG INDUSTRIES, INC.

Company/Organization: PPG Industries, Inc.

Address: 4325 Rosanna Drive Allison Park, Pennsylvania 15101

WELL LOCATION: PPG Industries

Address: 900 Garfield Ave.

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611240 Northing (Y): 683912
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** November 28, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-SAP-1

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 17

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					
Casing	0	7	2	PVC	sch 40
Screen	7	17	2	PVC	.01

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	17	2	0	2.5	47	4
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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, JOURNEYMAN LICENSE # 0001348

Permit Issued to: B & B DRILLING INC

Company Address: 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: Pennsylvania 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-SAP-2

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: _____

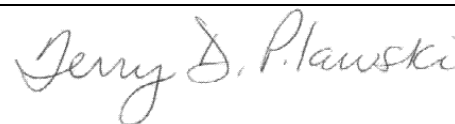
SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: October 26, 2011

Expiration Date: October 25, 2012

Approved by the authority of:

Bob Martin
Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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 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-1]
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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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]

MONITORING WELL RECORD

PROPERTY OWNER: PPG INDUSTRIES, INC.

Company/Organization: PPG Industries, Inc.

Address: 4325 Rosanna Drive Allison Park, Pennsylvania 15101

WELL LOCATION: PPG Industries

Address: 900 Garfield Ave.

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611244 Northing (Y): 683817
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: October 30, 2011

DATE WELL COMPLETED: October 30, 2011

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-SAP-2

WELL CONSTRUCTION

Total Depth Drilled (ft.): 17 Finished Well Depth (ft.): 17 Well Surface: Below Grade

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	17	6		
Casing	0	7	2	PVC	SH 40
Screen	7	17	2	PVC	0.010"

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	5	6	2	0	70	4
Gravel Pack	5	17	6	2	MORIE #1		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: Yes

Static Water Level: 8.7 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: GUS PECH

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 17: GRAY GM - Silty gravels, gravel-sand-silt mixtures DGA FILL

ADDITIONAL INFORMATION:

Driller of Record: Warren Blewett,
JOURNEYMAN LICENSE # 0014578

Company: B & B DRILLING INC

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: PPG INDUSTRIES, INC. PPG INDUSTRIES, INC.

Company/Organization: PPG Industries, Inc.

Address: 4325 Rosanna Drive Allison Park, Pennsylvania 15101

WELL LOCATION: PPG Industries

Address: 900 Garfield Ave.

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611244 Northing (Y): 683817
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** November 28, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-SAP-2

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 17

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					
Casing	0	7	2	PVC	sch 40
Screen	7	17	2	PVC	.010

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	17	2	0	2.5	47	4
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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, JOURNEYMAN LICENSE # 0001348

Permit Issued to: B & B DRILLING INC

Company Address: 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: Pennsylvania 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-SAP-3

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: _____

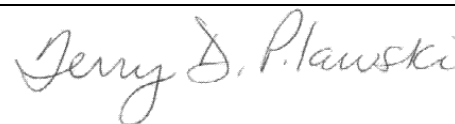
SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: October 26, 2011

Expiration Date: October 25, 2012

Approved by the authority of:

Bob Martin
Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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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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]

MONITORING WELL RECORD

PROPERTY OWNER: PPG INDUSTRIES, INC.

Company/Organization: PPG Industries, Inc.

Address: 4325 Rosanna Drive Allison Park, Pennsylvania 15101

WELL LOCATION: PPG Industries

Address: 900 Garfield Ave.

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611219 Northing (Y): 683855
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: October 30, 2011

DATE WELL COMPLETED: October 30, 2011

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-SAP-3

WELL CONSTRUCTION

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		
Casing	0	7	2	PVC	SH 40
Screen	7	17	2	PVC	0.010"

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout		5	6	2	0	70	4
Gravel Pack	5	17	6	2	MORIE #1		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow 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: GUS PECH

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

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:

Driller of Record: Warren Blewett,
JOURNEYMAN LICENSE # 0014578

Company: B & B DRILLING INC

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: PPG INDUSTRIES, INC. PPG INDUSTRIES, INC.

Company/Organization: PPG Industries, Inc.

Address: 4325 Rosanna Drive Allison Park, Pennsylvania 15101

WELL LOCATION: PPG Industries

Address: 900 Garfield Ave.

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611219 Northing (Y): 683855
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** November 28, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-SAP-3

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 17

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					
Casing	0	17	2	PVC	sch 40
Screen	7	17	2	PVC	.01

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	17	2	0	2.5	47	4
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

Phase 2B-1 Records

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: 30 Montgomery Street Suite 900

City: Jersey City State: New Jersey 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): 611265 Northing (Y): 683535
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MON - 28

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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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 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
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: March 5, 2012

DATE WELL COMPLETED: March 5, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON - 28

WELL CONSTRUCTION

Total Depth Drilled (ft.): 14 Finished Well Depth (ft.): 14 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	14	11		
Casing	0	4	4	PVC	40
Screen	4	14	4	Vwire PVC	.10

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	11	4		50	3
Gravel Pack	2	14	11	4	#0 sand		

Grouting Method: Gravity method

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 5 ft. below land surface

Water Level Measure Tool: Mscope

Well Development Period: 1 hrs.

Method of Development: Whale pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: Mobile B59

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 6: Brown OT - Other Fill

6 - 13: Green grey SM - Silty sands, sand-silt mixtures

13 - 14: Brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: William R Petley,
MONITORING LICENSE # 545487

Company: SGS NORTH AMERICA INC.

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 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

**DATE WELL
DECOMMISSIONED:** September 11, 2013

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MON - 28

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 14 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					
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.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	14	4	0	15	141	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 30 Montgomery Street Suite 900

City: Jersey City State: New Jersey 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): 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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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 LOCATION: 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

DATE WELL STARTED: February 14, 2012

DATE WELL COMPLETED: February 14, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON - 29

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	10		
Casing	0	4.5	4	PVC	Sch.40
Screen	4.5	14.5	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	4	15	50	7
Gravel Pack	2	14.5	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

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:

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

Company: SGS NORTH AMERICA INC.

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 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

**DATE WELL
DECOMMISSIONED:** September 11, 2013

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MON - 29

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	4.5	4	PVC	Sch 40
Screen	4.5	14.5	4	PVC	.020

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	15	4	0	18	141	13
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 30 Montgomery Street Suite 900

City: Jersey City State: New Jersey 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): 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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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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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]

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 LOCATION: 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

DATE WELL STARTED: February 13, 2012

DATE WELL COMPLETED: February 13, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON - 30

WELL CONSTRUCTION

Total Depth Drilled (ft.): 17 Finished Well Depth (ft.): 17 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	17	10		
Casing	0	7	4	PVC	Sch.40
Screen	7	17	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	3	10	4	15	60	9
Gravel Pack	3	17	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 17: Redish Brown OT - Other Fill; Manufacturing Debris

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

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 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

**DATE WELL
DECOMMISSIONED:** October 16, 2013

WELL USE: MONITORING

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 DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	7	4	PVC	Sch 40
Screen	7	17	4	PVC	.020

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	17	4	0	20	141	15
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 30 Montgomery St., Suite 900

City: Jersey City State: New Jersey 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): 611360 Northing (Y): 683724
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: REL - 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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

MONITORING WELL RECORD

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY

Company/Organization: jersey City Redevelopment Agency

Address: 30 Montgomery St., Suite 900 Jersey City, New Jersey 07302

WELL LOCATION: 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

DATE WELL STARTED: February 13, 2012

DATE WELL COMPLETED: February 13, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 13

WELL CONSTRUCTION

Total Depth Drilled (ft.): 13 Finished Well Depth (ft.): 13 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	13	10		
Casing	0	10	1.5	Steel	Sch.40
Screen	10	13	4	Stainless Steel	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	1.5	15	100	12
Gravel Pack	2	10	10	1.5	# 0 Sand		
Gravel Pack	10	13	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 13: Redish Brown OT - Other Fill; Manufacturing Debris

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

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 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

**DATE WELL
DECOMMISSIONED:** October 16, 2013

WELL USE: RECOVERY

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 DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	10	1.5	Steel	sch40
Screen	10	13	4	Stainless Steel	.010

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	13	4	0	20	141	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

Obstruction Type: _____ Authorization Number: _____

Alternative Decomm. Method? No Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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: 30 Montgomery St., Suite 900

City: Jersey City State: New Jersey 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): 611332 Northing (Y): 683670
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: REL - 14

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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT

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

GENERAL CONDITIONS/REQUIREMENTS
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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]

MONITORING WELL RECORD

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY

Company/Organization: jersey City Redevelopment Agency

Address: 30 Montgomery St., Suite 900 Jersey City, New Jersey 07302

WELL LOCATION: Site 114

Address: 880 Garfield Ave Address verified Wes Eichfeld

County: Hudson Municipality: Jersey City Lot: 3A Block: 2026.1

Easting (X): 611322 Northing (Y): 683670
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 14, 2012

DATE WELL COMPLETED: February 14, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 14

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	10		
Casing	0	11.5	1.5	Steel	Sch.40
Screen	11.5	14.5	4	Stainless Steel	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	1.5	15	60	9
Gravel Pack	2	11.5	10	1.5	# 0 Sand		
Gravel Pack	11.5	14.5	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

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:

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

Company: SGS NORTH AMERICA INC.

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 Address verified Wes Eichfeld

County: Hudson Municipality: Jersey City Lot: 3A Block: 2026.1

Easting (X): 611322 Northing (Y): 683670
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** October 16, 2013

WELL USE: RECOVERY

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	11.5	1.5	Steel	Sch 40
Screen	11.5	14.5	4	Stainless Steel	.010

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	15	4	0	15	94	8
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 30 Montgomery St., Suite 900

City: Jersey City State: New Jersey 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: REL - 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): 1

Deviation Requested: N


Drilling Method: Hollow Stem Augers

Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT

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

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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]

MONITORING WELL RECORD

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY

Company/Organization: jersey City Redevelopment Agency

Address: 30 Montgomery St., Suite 900 Jersey City, New Jersey 07302

WELL LOCATION: Site 114

Address: 880 Garfield Ave Address Verified Wes Eichfeld

County: Hudson Municipality: Jersey City Lot: 3A Block: 2026.1

Easting (X): 611298 Northing (Y): 683621
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 14, 2012

DATE WELL COMPLETED: February 14, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 15

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	10		
Casing	0	12	1.5	Steel	Sch 40
Screen	12	15	4	Stainless Steel	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	1.5	15	94	9
Gravel Pack	2	12	10	1.5	#0 Sand		
Gravel Pack	12	15	10	4	# 0 Sand		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 12: Red/Brown OT - Other Fill Material Manufacturing Debris

12 - 15: Brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: Thomas L Hanley,
JOURNEYMAN LICENSE # 0001181

Company: SGS NORTH AMERICA INC.

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 Address Verified Wes Eichfeld

County: Hudson Municipality: Jersey City Lot: 20 Block: 21501

Easting (X): 611298 Northing (Y): 683621
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** September 11, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** REL - 15

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

	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	Sch 40
Screen	12	15	4	Stainless Steel	.010

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	12	1.5	0	5	47	4
Grout	12	15	4	0	5	47	4
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

Obstruction Type: _____ Authorization Number: _____

Alternative Decomm. Method? No Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

Thomas L Hanley
JOURNEYMAN
Sealing Driller: LICENSE # 0001181

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PO BOX 423
Company: West Creek (Ocean), NJ 08092

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Name: N/A JERSEY CITY REDEVELOPMENT AGENCY

Organization: Jersey City Redevelopment Agency

Address: 30 Montgomery St., Suite 900

City: Jersey City State: New Jersey 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): 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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT

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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-1]
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]

MONITORING WELL RECORD

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY

Company/Organization: jersey City Redevelopment Agency

Address: 30 Montgomery St., Suite 900 Jersey City, New Jersey 07302

WELL LOCATION: Site 114

Address: 880 Garfield Ave Address verified Wes Eichfeld

County: Hudson Municipality: Jersey City Lot: 3A Block: 2026.1

Easting (X): 611278 Northing (Y): 683563
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 21, 2012

DATE WELL COMPLETED: February 21, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 16

WELL CONSTRUCTION

Total Depth Drilled (ft.): 16.5 Finished Well Depth (ft.): 16.5 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16.5	11		
Casing	0	13.5	1.5	Steel	sch 40
Screen	13.5	16.5	4	ss	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	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 Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow Stem Augers

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: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: CME 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 12: grey GM - Silty gravels, gravel-sand-silt mixtures

12 - 16.5: grey GM - Silty gravels, gravel-sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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 Address verified Wes Eichfeld

County: Hudson Municipality: Jersey City Lot: 3A Block: 2026.1

Easting (X): 611278 Northing (Y): 683563
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** September 11, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** REL - 16

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 16.5 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					
Casing	0	13.5	1.5	Steel	Sch 40
Screen	13.5	16.5	4	Stainless Steel	.010

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	13.5	1.5	0	3	47	3
Grout	13.5	16.5	4	0	3	47	3
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

Obstruction Type: _____ Authorization Number: _____

Alternative Decomm. Method? No Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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: 30 Montgomery St., Suite 900

City: Jersey City State: New Jersey 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): 611251 Northing (Y): 683509
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: REL - 17

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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

MONITORING WELL RECORD

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY

Company/Organization: jersey City Redevelopment Agency

Address: 30 Montgomery St., Suite 900 Jersey City, New Jersey 07302

WELL LOCATION: 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
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: March 1, 2012

DATE WELL COMPLETED: March 1, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 17

WELL CONSTRUCTION

Total Depth Drilled (ft.): 14 Finished Well Depth (ft.): 14 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	14	11		
Casing	0	11	1.5	Steel	sch 40
Screen	11	14	4	ss	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	11	1.5	6	114	10
Gravel Pack	2	11	11	1.5	#0		
Gravel Pack	11	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 12: grey GM - Silty gravels, gravel-sand-silt mixtures

12 - 14: grey GM - Silty gravels, gravel-sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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 Address verified Wes Eichfeld

County: Hudson Municipality: Jersey City Lot: 3A Block: 2026.1

Easting (X): 611251 Northing (Y): 683509
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** September 11, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** REL - 17

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 14 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					
Casing	0	11	1.5	Steel	Sch 40
Screen	11	14	4	Stainless Steel	.010

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	11	1.5	0	3	47	3
Grout	11	14	4	0	3	47	3
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

Phase 2B-2 Records

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: 30 Montgomery 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): 611089 Northing (Y): 683220
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MON - 25

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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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 LOCATION: Site 114

Address: 880 Garfield Ave

County: Hudson

Municipality: Jersey City

Lot: 2.A

Block: 2026.1

Easting (X): 611089 Northing (Y): 683220
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 2, 2012

DATE WELL COMPLETED: February 3, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON - 25

WELL CONSTRUCTION

Total Depth Drilled (ft.): 14

Finished Well Depth (ft.): 12

Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	14	11		
Casing	0	7	4	PVC	40
Screen	7	12	4	Vwire PVC	.10

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	5	11	4	25	100	10
Gravel Pack	5	12	11	4	#0 sand		
Gravel Pack	12	14	11	0	#0 sand		

Grouting Method: Gravity method

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 5 ft. below land surface

Water Level Measure Tool: Mscope

Well Development Period: 1 hrs.

Method of Development: Whale pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: Mobile B-59

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: Brown OT - Other Fill

5 - 12: Green grey SM - Silty sands, sand-silt mixtures

12 - 14: Brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: William R Petley,
MONITORING LICENSE # 545487

Company: SGS NORTH AMERICA INC.

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): 611089 Northing (Y): 683220
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** July 9, 2014

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MON - 25

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 12 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					
Casing	0	7	4	PVC	Sch 40
Screen	7	12	4	V wire PVC	.010

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	12	4	0	15	141	11
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 30 Montgomery 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): 611149 Northing (Y): 683326
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MON - 26

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

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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 LOCATION: Site 114

Address: 880 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1

Easting (X): 611149 Northing (Y): 683326
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: March 6, 2012

DATE WELL COMPLETED: March 6, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON - 26

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	10		
Casing	0	5	4	PVC	Sch.40
Screen	5	15	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	4	15	50	9
Gravel Pack	2	15	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

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:

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

Company: SGS NORTH AMERICA INC.

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): 611149 Northing (Y): 683326
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** October 23, 2013

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MON - 26

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	5	4	PVC	Sch 40
Screen	5	15	4	PVC	.020

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	15	4	0	15	141	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 30 Montgomery 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): 611207 Northing (Y): 683430
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MON - 27

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

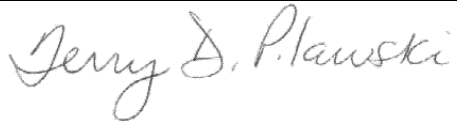
Drilling Method: Hollow Stem Augers

Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

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

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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 LOCATION: Site 114

Address: 880 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1

Easting (X): 611207 Northing (Y): 683430
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 29, 2012

DATE WELL COMPLETED: February 29, 2012

WELL USE: MONITORING

Other Use(s): _____

Local ID: MON - 27

WELL CONSTRUCTION

Total Depth Drilled (ft.): 14 Finished Well Depth (ft.): 14 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	14	10		
Casing	0	4	4	PVC	Sch.40
Screen	4	14	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	4	15	50	9
Gravel Pack	2	14	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 14: green/yellow OT - Other Fill; Manufacturing Debris

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

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): 611207 Northing (Y): 683430
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** October 21, 2013

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MON - 27

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 14 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					
Casing	0	4	4	PVC	Sch 40
Screen	4	14	4	PVC	.020

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	14	4	0	15	141	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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: 30 Montgomery St., Suite 900

City: Jersey City State: New Jersey Zip Code: 07302

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

Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: REL - 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: _____

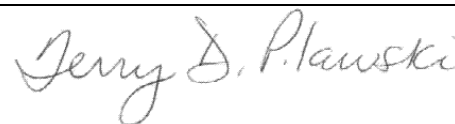
SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: February 2, 2012

Expiration Date: February 1, 2013

Approved by the authority of:

Bob Martin
Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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

MONITORING WELL RECORD

PROPERTY OWNER: N/A JERSEY CITY REDEVELOPMENT AGENCY

Company/Organization: jersey City Redevelopment Agency

Address: 30 Montgomery St., Suite 900 Jersey City, New Jersey 07302

WELL LOCATION: 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
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 29, 2012

DATE WELL COMPLETED: February 29, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 18

WELL CONSTRUCTION

Total Depth Drilled (ft.): 14 Finished Well Depth (ft.): 14 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	14	10		
Casing	0	11	1.5	Steel	Sch.40
Screen	11	14	4	Stainless Steel	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	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 Method: Gravity method

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 14: Redish Brown OT - Other Fill; Manufacturing Debris

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

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 Address verified Wes Eichfeld

County: Hudson Municipality: Jersey City Lot: 4A Block: 2026.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): _____ **Local ID:** REL - 18

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 14 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					
Casing	0	11	1.5	Steel	Sch 40
Screen	11	14	4	Stainless Steel	.010

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	11	1.5	0	3	47	3
Grout	11	14	4	0	3	47	3
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 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): 611192 Northing (Y): 683403
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: REL - 19

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

WELL LOCATION: Site 114

Address: 880 Garfield Ave

County: Hudson

Municipality: Jersey City

Lot: 2.A

Block: 2026.1

Easting (X): 611192 Northing (Y): 683403
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 29, 2012

DATE WELL COMPLETED: February 29, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 19

WELL CONSTRUCTION

Total Depth Drilled (ft.): 14

Finished Well Depth (ft.): 14

Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	14	10		
Casing	0	11	1.5	Steel	Sch.40
Screen	11	14	4	Stainless Steel	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	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 Method: Gravity method

Drilling Method: Hollow 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

ATTACHMENTS:

GEOLOGIC LOG

0 - 14: Redish Brown OT - Other Fill; Manufacturing Debris

ADDITIONAL INFORMATION:

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

Company: SGS NORTH AMERICA INC.

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): 611192 Northing (Y): 683403
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** October 9, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** REL - 19

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 14

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					
Casing	0	14	1.5	Steel	sch 40
Screen	11	14	4	Stainless Steel	.010

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	14	4	0	15	141	12
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official: _____

Obstruction Type: _____

Authorization Number: _____

Alternative Decomm. Method? No

Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

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 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): 611163 Northing (Y): 683351
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: REL - 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

Deviation Requested: N


Drilling Method: Hollow Stem Augers

Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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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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]

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

WELL LOCATION: Site 114

Address: 880 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1

Easting (X): 611163 Northing (Y): 683351
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: March 6, 2012

DATE WELL COMPLETED: March 6, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 20

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	10		
Casing	0	12	1.5	Steel	Sch.40
Screen	12	15	4	Stainless Steel	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	1.5	15	50	10
Gravel Pack	2	12	10	1.5	# 0 Sand		
Gravel Pack	12	15	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

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:

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

Company: SGS NORTH AMERICA INC.

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): 611163 Northing (Y): 683351
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** October 15, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** REL - 20

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

	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	Sch 40
Screen	12	15	4	Stainless Steel	.010

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	15	1.5	0	5	94	8
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 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): 611134 Northing (Y): 683298
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: REL - 21

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT

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

GENERAL CONDITIONS/REQUIREMENTS
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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]

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

WELL LOCATION: Site 114

Address: 880 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1

Easting (X): 611134 Northing (Y): 683298
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: March 7, 2012

DATE WELL COMPLETED: March 7, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 21

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	10		
Casing	0	5	4	PVC	Sch.40
Screen	5	15	4	PVC	.020

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	10	4	15	50	10
Gravel Pack	2	15	10	4	# 0 Sand		

Grouting Method: Gravity method

Drilling Method: Hollow 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

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:

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

Company: SGS NORTH AMERICA INC.

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): 611134 Northing (Y): 683298
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** November 13, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** REL - 21

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

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	5	4	PVC	Sch 40
Screen	5	15	4	pvc	.020

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	15	4	0	10	188	16
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

WELL PERMIT

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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 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): 611104 Northing (Y): 683246
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: REL - 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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

WELL LOCATION: Site 114

Address: 880 Garfield Ave

County: Hudson Municipality: Jersey City Lot: 2.A Block: 2026.1

Easting (X): 611004 Northing (Y): 683246
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 3, 2012

DATE WELL COMPLETED: February 6, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 22

WELL CONSTRUCTION

Total Depth Drilled (ft.): 14 Finished Well Depth (ft.): 12 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	14	11		
Casing	0	10	1.5	Galvanized Steel	40
Screen	10	13	4	Stainless steel	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	5	7	11	1.5	50		5
Gravel Pack	7	13	11	4	#0 sand		
Gravel Pack	13	14	11	0	#0 sand		

Grouting Method: Gravity method

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 5 ft. below land surface

Water Level Measure Tool: Mscope

Well Development Period: 1 hrs.

Method of Development: Whale pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: Mobile B-59

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: Brown OT - Other Fill

5 - 13: Green grey SM - Silty sands, sand-silt mixtures

13 - 14: Brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: William R Petley,
MONITORING LICENSE # 545487

Company: SGS NORTH AMERICA INC.

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): 611004 Northing (Y): 683246
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** November 20, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** REL - 22

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 12 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					
Casing	0	10	1.5	Steel	Sch 40
Screen	10	13	4	Stainless Steel	.010

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	13	1.5	0	5	94	8
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 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): 611075 Northing (Y): 683194
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: REL - 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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

WELL LOCATION: 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

DATE WELL STARTED: February 2, 2012

DATE WELL COMPLETED: February 2, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 23

WELL CONSTRUCTION

Total Depth Drilled (ft.): 14

Finished Well Depth (ft.): 12

Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	14	11		
Casing	0	9	1.5	Galvanized Steel	304
Screen	9	12	4	Stainless steel	.10

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	7	11	1.5	50	250	22
Gravel Pack	7	12	11	4	#0 sand		
Gravel Pack	12	14	11	0	#0 sand		

Grouting Method: Gravity method

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 7 ft. below land surface

Water Level Measure Tool: Mscope

Well Development Period: 1 hrs.

Method of Development: Whale pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: Mobile B-59

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 5: Brown OT - Other Fill

5 - 12: Green gray SM - Silty sands, sand-silt mixtures

12 - 14: Brown PT - Peat, muck, and other highly organic soils

ADDITIONAL INFORMATION:

Driller of Record: William R Petley,
MONITORING LICENSE # 545487

Company: SGS NORTH AMERICA INC.

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): 611075 Northing (Y): 683194
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** November 20, 2013

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** REL - 23

Reason for Decommissioning: Site Excavated/Demolished

Finished Well Depth (ft.): 12 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					
Casing	0	9	1.5	Steel	Sch 40
Screen	9	12	4	Stainless Steel	.010

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	12	1.5	0	5	94	8
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

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
Company: West Creek (Ocean), NJ 08092

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 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

Depth (ft.): 40

Case ID Number: _____

Pump Capacity (gpm): 1

Deviation Requested: N


Drilling Method: Hollow Stem Augers

Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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]

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

WELL LOCATION: 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

DATE WELL STARTED: February 28, 2012

DATE WELL COMPLETED: February 28, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 24

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	11		
Casing	0	12	1.5	Steel	sch 40
Screen	12	15	4	ss	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	11	1.5	6	114	10
Gravel Pack	2	12	11	1.5	#0		
Gravel Pack	12	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 12: grey GM - Silty gravels, gravel-sand-silt mixtures

12 - 15: grey GM - Silty gravels, gravel-sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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): 611045 Northing (Y): 683141
Coordinate System: NJ State Plane (NAD83) - USFEET

**DATE WELL
DECOMMISSIONED:** July 9, 2014

WELL USE: RECOVERY

Other Use(s): _____ **Local ID:** REL - 24

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

	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	Sch 40
Screen	12	15	4	Stainless Steel	.010

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	12	1.5	0	3	47	3
Grout	12	15	4	0	3	47	3
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

Obstruction Type: _____ Authorization Number: _____

Alternative Decomm. Method? No Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

C-4 Wells Decommissioned via a Request for Alternate Decommissioning

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 Decommissioning Memorandum.

IRM - interim remedial measure

NJDEP - New Jersey Department of Environmental Protection

Well Records

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 900 GARFIELD AVE . LLC

Organization: 900 Garfield Ave . LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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

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 900 GARFIELD AVE . LLC

Organization: 900 Garfield Ave . LLC

Address: 1735 Market St #A-400

City: Philadelphia State: Pennsylvania 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
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: REL - 7

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

Approval Date: January 17, 2012
Expiration Date: January 16, 2013

Approved by the authority of:
Bob Martin
Commissioner


Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

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-1]
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 Decommissioning Memorandum

Memorandum

To	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 Avenue 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.

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:

*Remedial activities associated with CCPW remediation at Site 114 were previously tracked under PI number G000008791. In June 2018, the NJDEP consolidated remedial activities at Site 114 under PI number G000005480.

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

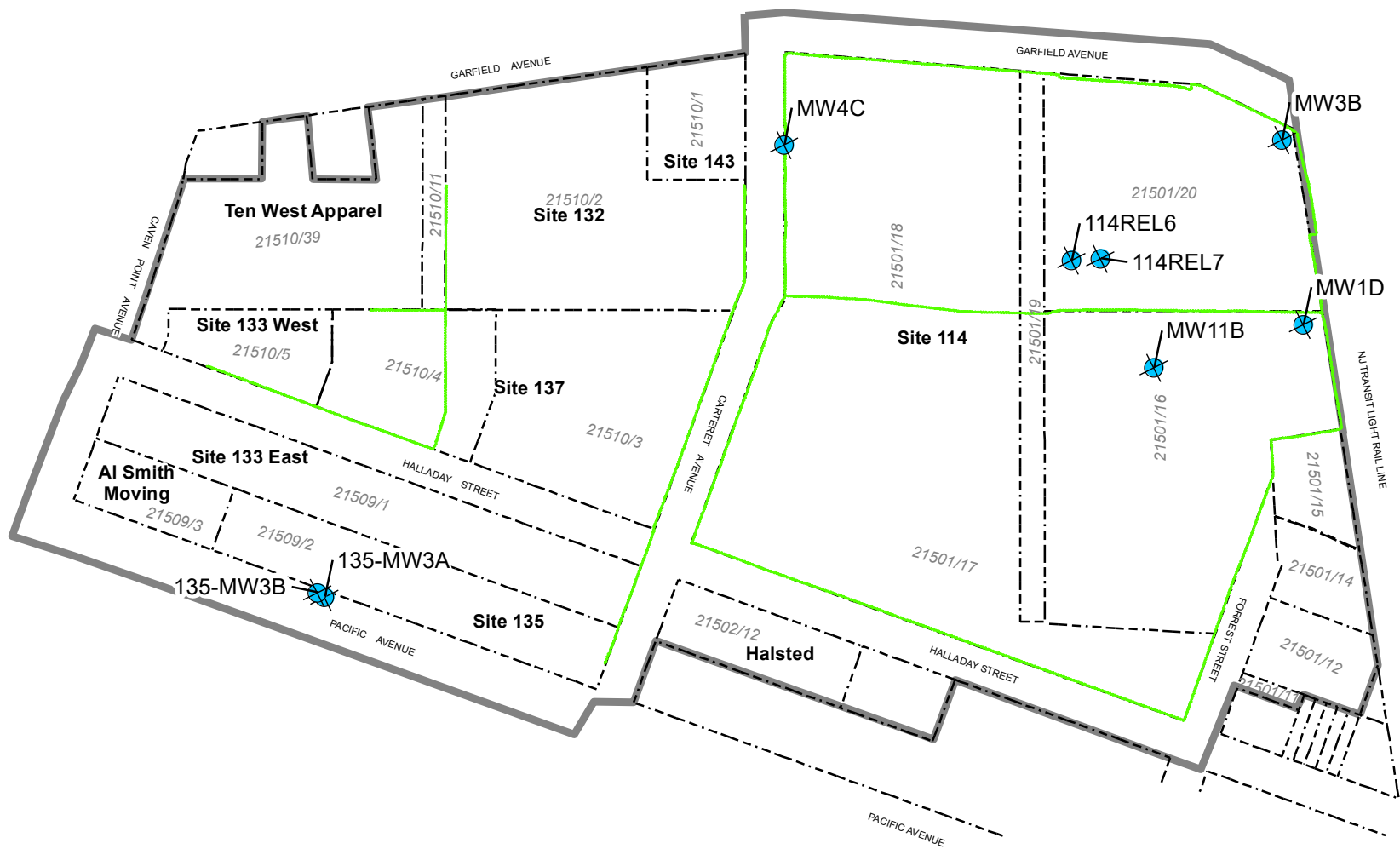
ft - feet

HCC - Hudson County Chromate




NAD83 - North American Datum of 1983

NJDEP - New Jersey Department of Environmental Protection

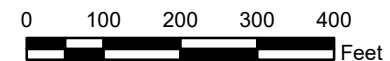
PI - Program Interest



LEGEND

-  WELL LOCATIONS
-  PROPERTY LINE
-  GARFIELD AVENUE GROUP EXTENTS
-  21501/2 BLOCK/LOT
-  IN-PLACE SHEET PILE
(AS OF MAY 2019)

AECOM



PPG
GARFIELD AVENUE GROUP
JERSEY CITY, NEW JERSEY

SITE PLAN

DATE: 07/10/2019

FIGURE 1

ATTACHMENT 1

Well Construction Specifications

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

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: 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

DATE WELL STARTED: March 1, 2012

DATE WELL COMPLETED: March 1, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 6

WELL CONSTRUCTION

Total Depth Drilled (ft.): 16 Finished Well Depth (ft.): 16 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	16	11		
Casing	0	13	1.5	Steel	sch 40
Screen	13	16	4	steel	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	11	1.5	6	114	10
Gravel Pack	2	13	11	1.5	#0		
Gravel Pack	13	16	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 10: grey GM - Silty gravels, gravel-sand-silt mixtures

10 - 13: grey GM - Silty gravels, gravel-sand-silt mixtures

13 - 16: black OL - Organic silts and organic silty clays of low plasticity

ADDITIONAL INFORMATION:

Driller of Record: Wesley M Eichfeld,
MASTER LICENSE # 592848

Company: SGS NORTH AMERICA INC.

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: 900 Garfield Ave.

County: Hudson Municipality: Jersey City Lot: 1 Block: 2026.A

Easting (X): 611201 Northing (Y): 683599
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: February 10, 2012

DATE WELL COMPLETED: February 10, 2012

WELL USE: RECOVERY

Other Use(s): _____

Local ID: REL - 7

WELL CONSTRUCTION

Total Depth Drilled (ft.): 14.5 Finished Well Depth (ft.): 14.5 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	14.5	11		
Casing	0	11.5	1.5	Steel	sch 40
Screen	11.5	14.5	4	ss	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	11	1.5	6	114	10
Gravel Pack	2	11.5	11	1.5	#0		
Gravel Pack	11.5	14.5	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

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: _____

Drill Rig: cme 1050

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 10: grey GM - Silty gravels, gravel-sand-silt mixtures

10 - 12: grey GM - Silty gravels, gravel-sand-silt mixtures

12 - 14.5: grey GM - Silty gravels, gravel-sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeff Rausa,
JOURNEYMAN LICENSE # 0020129

Company: SGS NORTH AMERICA INC.

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: Pacific Ave

County: Hudson **Municipality:** Jersey City **Lot:** 2 **Block:** 21509

Easting (X): 611143 **Northing (Y):** 682311
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: November 26, 2013

DATE WELL COMPLETED: November 27, 2013

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** 135-MW3A

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 **Finished Well Depth (ft.):** 15 **Well Surface:** Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	8		
Casing	0	10	2	PVC	sch 40
Screen	10	15	2	pvc	.10

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	8	8	2		300	8
Gravel Pack	8	15	8	2	medium sand		

Grouting Method: Pressure method (Tremie Pipe) **Drilling Method:** Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 8 ft. below land surface

Water Level Measure Tool: m scope

Well Development Period: 1 hrs.

Method of Development: pump

Pump Type: _____

Pump Capacity: gpm

Total Design Head: ft.

Drilling Fluid: NA

Drill Rig: mobil b 80

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 1: black OT - Other black top

1 - 5: gray SM - Silty sands, sand-silt mixtures 2in pvc

5 - 10: tan SM - Silty sands, sand-silt mixtures 2in pvc

10 - 15: red SM - Silty sands, sand-silt mixtures 2in pvc

ADDITIONAL INFORMATION:

Driller of Record: Thomas Lynch,
MONITORING LICENSE # 435631

Company: SGS NORTH AMERICA INC.

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: Pacific Ave

County: Hudson Municipality: Jersey City Lot: 2 Block: 21509

Easting (X): 611128 Northing (Y): 682297
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: December 4, 2013
DATE WELL COMPLETED: December 15, 2013

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** 135-MW3B

WELL CONSTRUCTION

Total Depth Drilled (ft.): 33 Finished Well Depth (ft.): 33 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	33	8		
Borehole	0	20	12		
Casing	0	28	4	PVC	sch40
Casing	0	20	8	Steel	sch80
Screen	28	33	4	pvc	.10

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	20	12	8		1700	60
Grout	20	25	8	4		480	15
Gravel Pack	25	33	8	4	medium sand		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Mud Rotary

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 8 ft. below land surface
Water Level Measure Tool: m scope
Well Development Period: 1 hrs.
Method of Development: pump
Pump Type:

Pump Capacity: gpm
Total Design Head: ft.
Drilling Fluid: mud,water
Drill Rig: mobil drill b 80
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 1: black OT - Other black top
1 - 10: red brown SM - Silty sands, sand-silt mixtures 8in steel 4in pvc
10 - 20: brown black PT - Peat, muck, and other highly organic soils 8in steel 4in pvc
20 - 33: red SM - Silty sands, sand-silt mixtures 4in pvc

ADDITIONAL INFORMATION:

Driller of Record: Thomas Lynch,
MONITORING LICENSE # 435631

Company: SGS NORTH AMERICA INC.

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number

2600068662

Atlas Sheet Coordinates

2623295

MONITORING WELL RECORD

OWNER IDENTIFICATION PSEG SERVICES CORP

Address 80 PARK PLAZA

City Newark

State

New Jersey

Zip Code 07102

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-1D

County Hudson

Municipality Jersey City

Lot No. 2,4,5 Block No. 2026.1

Address HALLIDAY & FORREST STS FORMER HALLIDAY ST GAS WOR

WELL USE Monitoring

DATE WELL STARTED 8-7-03

DATE WELL COMPLETED 8-11-03

WELL CONSTRUCTION

Total Depth Drilled 50 ft.

Finished Well Depth 44 ft.

Borehole Diameter:

Top 12 in.

Bottom 6 in.

Well was finished: ☐ above grade

☒ flush mounted

If finished above grade, casing height (stick up) above land surface ft.

☒ protective casing installed?

☒ Yes ☐ No

Static Water Level after drilling 3 ft.

Well was developed for 1/2 hours

at 1 gpm

Method of development Pump

Pump Capacity gpm

Pump Type

Drilling Fluid

Type of Rig Tailin

Health and Safety Plan Submitted? ☐ Yes ☒ No

Level of Protection used on site (circle one)

None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADVANCED DRILLING INC

Well Driller (Print) Scott Albrecht

Driller's Signature Scott Albrecht

Station No. 71322

Date 10-6-03

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	34	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	17	6	Steel	144 Wall
Open Hole or Screen (No. Used <u>10</u>)	34	44	2	PVC	40
Blank Casings (No. Used <u> </u>)					
Tail Piece	32	50	#1 Sand	Filler	
Gravel Pack	30	32	#00 Sand	Seal	
Grout	0	30	Neat Cement Bentonite	700 lbs 120 lbs	

Circulating Method Memor

Drilling Method HSA / Mud

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

2" depth
2" - 17' - Dry & Wet
Silt, Shale, Sand
17' - 28' - Moist Silt, Sand
Shale, Clay
28' - 32' - Moist F-Sand
32' - 50' - Moist F-Sand,
Silt & Clay

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number

2600069775

Atlas Sheet Coordinates

2623295

MONITORING WELL RECORD

WNER IDENTIFICATION PPG INDUSTRIES INC.

Address 4325 ROSANNA DR.

ty ALLISON PARK State Pennsylvania

Zip Code 15101

WELL LOCATION - If not the same as owner please give address

Owner's Well No. PP6-3A

County Hudson Municipality Jersey City

Lot No. 1 Block No. 2026.1

Address GARFIELD & CARTERET AVES.

WELL USE Monitoring

DATE WELL STARTED 11-19-03

DATE WELL COMPLETED 11-20-03

WELL CONSTRUCTION

Total Depth Drilled 57 ft.

Finished Well Depth 42 ft.

Borehole Diameter:

Top 12 in.

Bottom 6 in.

Well was finished: ☐ above grade

☒ flush mounted

If finished above grade, casing height (stick up) above land surface ft.

Steel protective casing installed?

☒ Yes ☐ No

Static Water Level after drilling 49 ft.

Water Level was Measured Using TAFE

Well was developed for 1 hours

at 1 gpm

Method of development Pump

Pump Capacity gpm

Pump Type

Drilling Fluid - Type of Rig Casing

Health and Safety Plan Submitted? ☐ Yes ☒ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADVANCED DRILLING INC

Well Driller (Print) RICHARD EMPSON

Driller's Signature RICHARD EMPSON

Registration No. J1312 Date 1/18/04

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	32	2	PVC	40
Middle Casing (for triple cased wells only)	-				
Outer Casing (largest diameter)	0	10	6	steel	144 Well
Open Hole or Screen (No. Used 10)	32	42	2	PVC	40
Blank Casings (No. Used)	-				
	30	57	#1	Sand	Filter
Gravel Pack	28	30	#	00 Sand	seal
Grout	0	28		Neat Cement Mortar	600 lbs 100 ft

Grouting Method Tremie

Drilling Method HSA / Mud Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

8" Asphalt + Gravel
8' - 8' - Dry & Wet Sand, Silt
Gravel, Wood Chips, Fill
8' - 22' - Moist Wet Silt/Clay
22' - 30' - Wet Silt & F-Sand
30' - 31' - Wet Sand - Gravel
31' - 57' - Wet Silt - Sand, Gravel

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

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

MONITORING WELL CONSTRUCTION DETAIL

		Depth from G.S. (feet)	Elevation(feet)
		FLUSHMOUNT	Datum _____
Measuring Point for Surveying & Water Levels	Top of Steel Guard Pipe		
	Top of Riser Pipe	0.0	
	Ground Surface (G.S.)	0.0	
Cement, Bentonite, Bentonite Slurry Grout, or Native Materials	Riser Pipe:		
	Length	59'	
	Inside Diameter (ID)	2"	
	Type of Material	PVC	
90 % Cement	Bottom of Steel Guard Pipe	38.0	
10 % Bentonite	Top of Sand Seal	53.0	
% Native Materials	#00 Sand Seal Thickness	1'	
	Top of Sand	54.0	
	Top of Screen	59.0	
	▲ Stabilized Water Level		
	Screen:		
	Length	10.0'	
	Inside Diameter (ID)	2"	
	Slot Size	0.020-slot	
	Type of Material	PVC	
	Type/Size of Sand	#2 well gravel	
	Sand Pack Thickness	2"	
	Bottom of Screen	69.0	
	Bottom of Tail Pipe:	69.0	
	Bottom of Borehole	69.0	
Borehole Diameter:	6"		
Approved:			
Describe Measuring Point:		10/18/2005	
	Signature	Date	

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number

2600076983

Atlas Sheet Coordinates

2623291

MONITORING WELL RECORD

OWNER IDENTIFICATION JERSEY CITY - JCDPW

Address 575 ROUTE 440

City Jersey City

State

New Jersey

Zip Code 07305

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MU-11B

County Hudson

Municipality Jersey City

Lot No. 1

Block No. 2026.1

Address 872-931 GARFIELD AVENUE PPG GARFIELD AVENUE

WELL USE Monitoring

DATE WELL STARTED 11-4-05

DATE WELL COMPLETED 11-7-05

WELL CONSTRUCTION

Total Depth Drilled 36 ft.

Finished Well Depth 36 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade

☒ flush mounted

If finished above grade, casing height (stick up) above land surface ft.

Steel protective casing installed?

☐ Yes ☐ No

Static Water Level after drilling 38 ft.

Water Level was Measured Using PIPE

Well was developed for 1/2 hours

at 2 gpm

Method of development

Pumping

Pump Capacity gpm

Pump Type

Drilling Fluid Quick Oil Type of Rig S-58

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company AMERIDRILL INC

Well Driller (Print) ANDREW BOUTOILLE III

Driller's Signature [Signature]

Registration No. JDL 466 Date 11/7/05

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	26	2	PVC	2440
Middle Casing (for triple-cased wells only)					
Outer Casing (largest diameter)	0	17	6	CARBON	.250
Open Hole or Screen (No. Used .010)	26	36	2	PVC	2440
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	21	36	6	Floris	#1400
Grout	0	21	6+10	Neat Cement Bentonite	700 lbs 100 lbs

Logging Method TRENDING

Drilling Method Auger / Mech Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

SAND-GRAVEL + ASH FILL 0-16

PEAT 16-20

SAND SOME GRAVEL 20-36

AS-BUILT WELL LOCATION

(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: EASTING:

OR

LATITUDE: 0 ' " LONGITUDE: 0 ' "

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

ATTACHMENT 2

Photograph Log

PHOTOGRAPH LOG


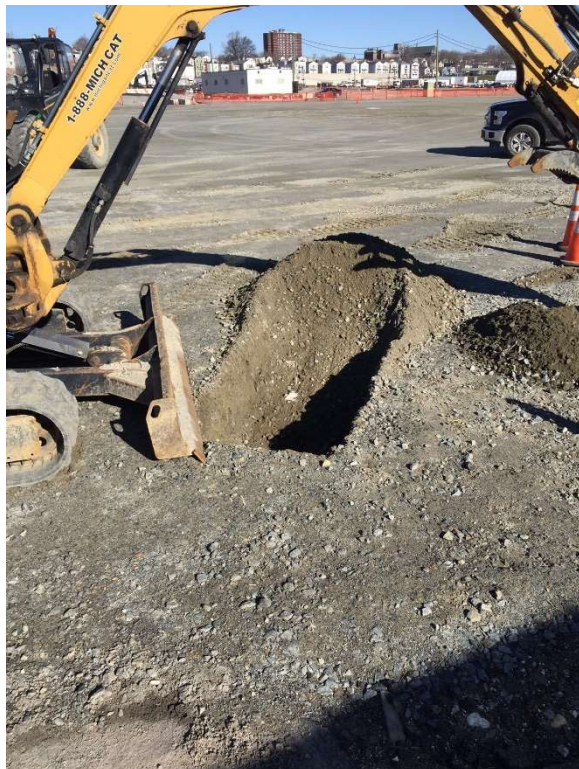
Client Name: PPG		Site Location: Garfield Avenue Group, Jersey City, New Jersey	
Photo No. 1	Date: 3/9/2017		
Description: View of excavation at Location 135-MW3A			

Photo No. 2	Date: 3/9/2017	
Description: View of excavation at Location 135-MW3B		

PHOTOGRAPH LOG


Client Name: PPG		Site Location: Garfield Avenue Group, Jersey City, New Jersey		
Photo No. 3	Date: 3/9/2017			
Description: View of damaged well casing at Location 135-MW3B				

Photo No. 4	Date: 3/9/2017	
Description: Trench dug between location of 135-MW3B and 135-MW3A		

PHOTOGRAPH LOG

Client Name: PPG

Site Location: Garfield Avenue Group, Jersey City,
New Jersey

Photo No.
5

Date:
4/19/2019

Description:

Surface conditions at
location MW11B

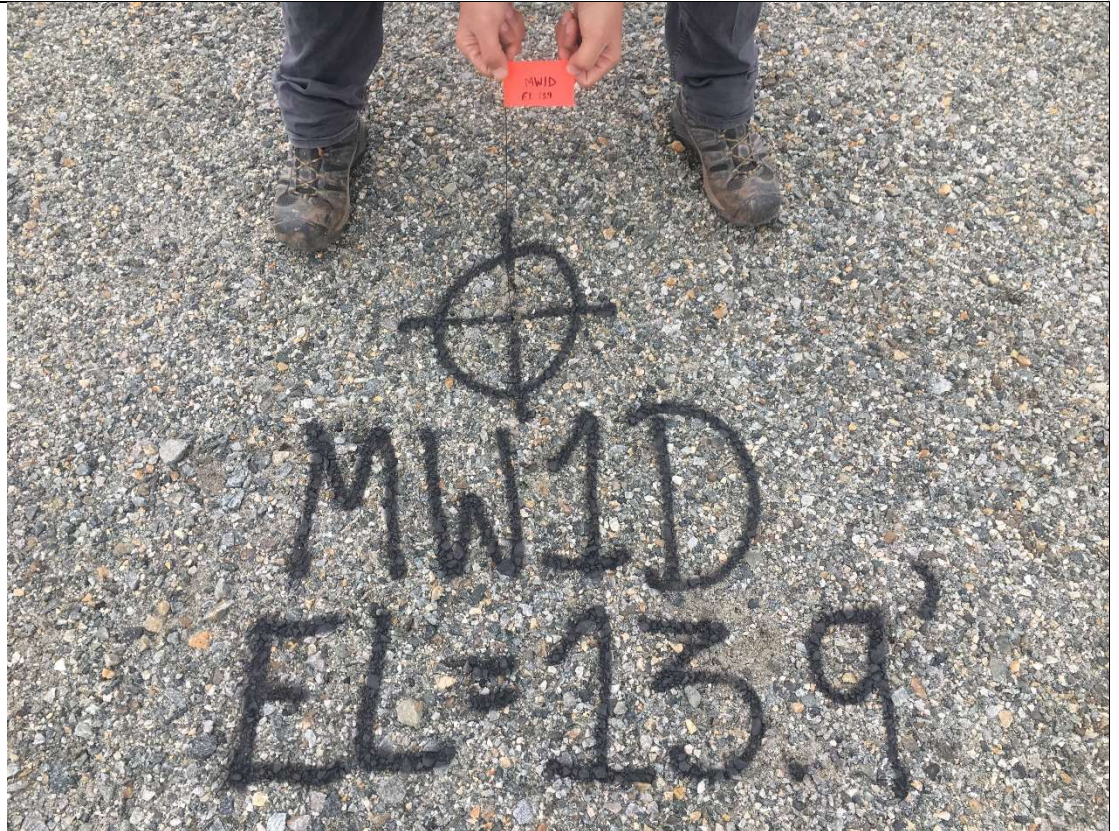


Photo No.
6

Date:
4/19/2019

Description:

Surface conditions at
location MW1D



PHOTOGRAPH LOG

Client Name: PPG		Site Location: Garfield Avenue Group, Jersey City, New Jersey	
Photo No. 7	Date: 4/19/2019		
Description: Surface conditions at location MW3B			

Photo No. 8	Date: 4/19/2019	
Description: Surface conditions at location MW4C		

PHOTOGRAPH LOG

Client Name: PPG

Site Location: Garfield Avenue Group, Jersey City,
New Jersey

Photo No.
9

Date:
5/8/2019

Description:

Surface conditions at
location REL6



Photo No.
10

Date:
5/8/2019

Description:

Surface conditions at
location REL7



NJDEP Approval



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

Aimee Ruiter
AECOM
250 Apollo Dr.
Chelmsford, MA 01824

October 25, 2019

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

August 2018
BWAWP