

FIGURE 1

SITE NAME:

MONITORING WELL FIELD INSPECTION LOG
NYSDEC WELL DECOMMISSIONING PROGRAM

SITE ID.:

INSPECTOR: Jack Lenhart
DATE/TIME: 05/01/13 - 11:45 AM
WELL ID.: MW PRW 13

WELL VISIBLE? (If not, provide directions below) Removed 8" flush mount manhole
 WELL I.D. VISIBLE?
 WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) Map Attached

YES	NO
	X
	X
	X

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

SURFACE SEAL PRESENT? N/A
 SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) N/A
 PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) It was removed 5/1/13

YES	NO

HEADSPACE READING (ppm) AND INSTRUMENT USED.....
 TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)
 PROTECTIVE CASING MATERIAL TYPE:
 MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

0 PPM / PID Meter
Flush Mount Manhole
Steel
8"

LOCK PRESENT?
 LOCK FUNCTIONAL?
 DID YOU REPLACE THE LOCK?
 IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)
 WELL MEASURING POINT VISIBLE?

YES	NO
	X
	X
	X
	X
	X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):
 MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):
 MEASURE WELL DIAMETER (Inches):
 WELL CASING MATERIAL:
 PHYSICAL CONDITION OF VISIBLE WELL CASING:
 ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE
 PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....

3'
N/A
4"
Sch. 40 PVC
OK
N/A
40' from overheads

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Well was approximately 40' from road (Western Ave) and adjacent to Railroad tracks

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

In a dirt lot off of Western Ave., Staten Island, NY in a current construction work area.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Unknown

REMARKS:

Well properly abandoned - 8" flush mount manhole and cement pad removed - 4" dome cap solvent welded at top.

**FIGURE 3
WELL DECOMMISSIONING RECORD**

Site Name: Port Authority	Well I.D.: MW PRW 14
Site Location: Western Ave., Staten Island, NY	Driller: for abandonment: Kevin McGourty
Drilling Co.:for abandonment: Land, Air, Water Environmental Services, Inc.	Inspector: TRC - Jack Lenhart
	Date: May 1, 2013

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING

Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	

CASING PULLING

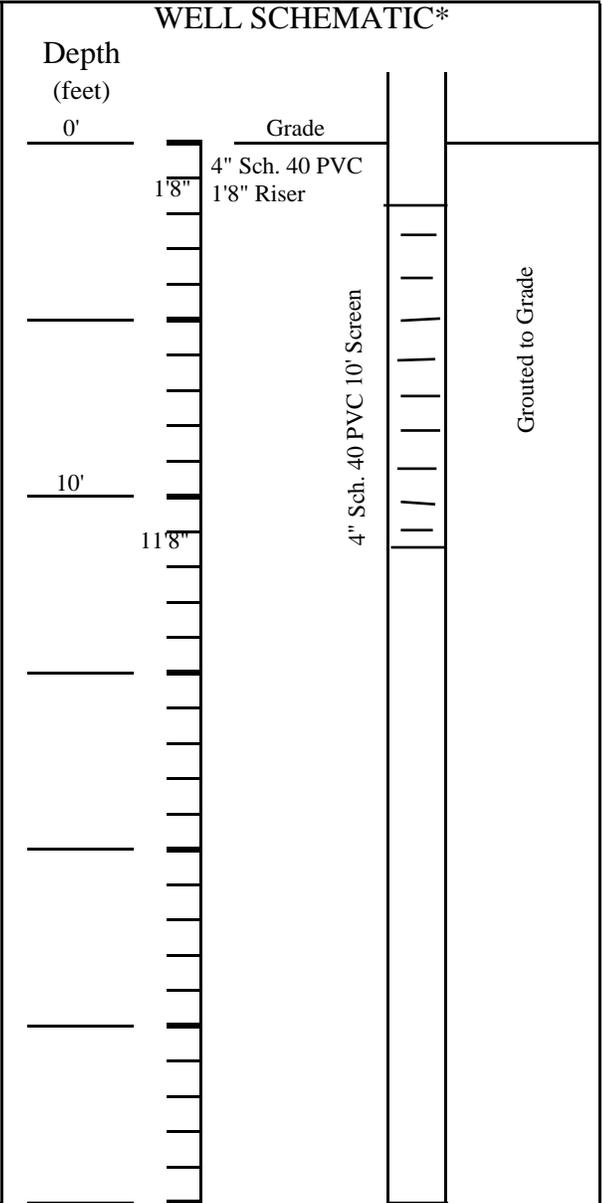
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in.)	

CASING PERFORATING

Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	

GROUTING

Interval grouted (FBLs)	11.8
# of batches prepared	1/2
For each batch record:	
Quantity of water used (gal.)	4
Quantity of cement used (lbs.)	94
Cement type	Portland Type II
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	15
Volume of grout used (gal.)	10



COMMENTS:

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Kevin McGourty - LAWES
Drilling Contractor

Department Representative

Jack Lenhart
Consultant Representative

TRC
Company

May 1, 2013
Date

FIGURE 1

SITE NAME:

MONITORING WELL FIELD INSPECTION LOG
NYSDEC WELL DECOMMISSIONING PROGRAM

SITE ID.:

INSPECTOR: Jack Lenhart
DATE/TIME: 05/01/13 - 11:00 AM
WELL ID.: MW PRW 14

WELL VISIBLE? (If not, provide directions below) Removed 8" flush mount manhole
 WELL I.D. VISIBLE?
 WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) Map Attached

YES	NO
	X
	X
	X

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

SURFACE SEAL PRESENT? N/A
 SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) N/A
 PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) It was removed 5/1/13

YES	NO

HEADSPACE READING (ppm) AND INSTRUMENT USED.....
 TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)
 PROTECTIVE CASING MATERIAL TYPE:
 MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

0 PPM / PID Meter
Flush Mount Manhole
Steel
8"

LOCK PRESENT?
 LOCK FUNCTIONAL?
 DID YOU REPLACE THE LOCK?
 IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)
 WELL MEASURING POINT VISIBLE?

YES	NO
	X
	X
	X
	X
	X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):
 MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):
 MEASURE WELL DIAMETER (Inches):
 WELL CASING MATERIAL:
 PHYSICAL CONDITION OF VISIBLE WELL CASING:
 ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE
 PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....

11' 8"
6.8'
4"
Sch. 40 PVC
OK
N/A
80' from overheads

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Well was approximately 80' from road (Western Ave) and adjacent to Railroad tracks

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

In a dirt lot off of Western Ave., Staten Island, NY in a current construction work area.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Unknown

REMARKS:

Well properly abandoned - 8" flush mount manhole and cement pad removed - 4" dome cap solvent welded at top.

**FIGURE 3
WELL DECOMMISSIONING RECORD**

Site Name: Port Authority	Well I.D.: NO ID
Site Location: Western Ave., Staten Island, NY	Driller: for abandonment: Kevin McGourty
Drilling Co.:for abandonment: Land, Air, Water Environmental Services, Inc.	Inspector: TRC - Jack Lenhart
	Date: May 1, 2013

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*
<p><u>OVERDRILLING</u></p> <p>Interval Drilled <input type="text"/></p> <p>Drilling Method(s) <input type="text"/></p> <p>Borehole Dia. (in.) <input type="text"/></p> <p>Temporary Casing Installed? (y/n) <input type="text"/></p> <p>Depth temporary casing installed <input type="text"/></p> <p>Casing type/dia. (in.) <input type="text"/></p> <p>Method of installing <input type="text"/></p> <p><u>CASING PULLING</u></p> <p>Method employed <input type="text"/></p> <p>Casing retrieved (feet) <input type="text"/></p> <p>Casing type/dia. (in.) <input type="text"/></p> <p><u>CASING PERFORATING</u></p> <p>Equipment used <input type="text"/></p> <p>Number of perforations/foot <input type="text"/></p> <p>Size of perforations <input type="text"/></p> <p>Interval perforated <input type="text"/></p> <p><u>GROUTING</u></p> <p>Interval grouted (FBLs) <input type="text" value="19.5"/></p> <p># of batches prepared <input type="text" value="1/2"/></p> <p>For each batch record:</p> <p>Quantity of water used (gal.) <input type="text" value="4"/></p> <p>Quantity of cement used (lbs.) <input type="text" value="94"/></p> <p>Cement type <input type="text" value="Portland Type II"/></p> <p>Quantity of bentonite used (lbs.) <input type="text" value="5"/></p> <p>Quantity of calcium chloride used (lbs.) <input type="text" value="-"/></p> <p>Volume of grout prepared (gal.) <input type="text" value="15"/></p> <p>Volume of grout used (gal.) <input type="text" value="9"/></p>	<p>Depth (feet)</p> <p>0' <input type="text"/></p> <p>Grade</p> <p>19.5' <input type="text"/></p> <p>20' <input type="text"/></p> <p align="center">2" Sch. 40 PVC Well</p> <p align="center">Grouted to Grade</p>

COMMENTS:

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Kevin McGourty - LAWES
Drilling Contractor

Department Representative

Jack Lenhart
Consultant Representative

TRC
Company

May 1, 2013
Date

FIGURE 1

SITE NAME:

MONITORING WELL FIELD INSPECTION LOG
 NYSDEC WELL DECOMMISSIONING PROGRAM

SITE ID.:

INSPECTOR: Jack Lenhart
DATE/TIME: 05/01/13 - 10:00 AM
WELL ID.: NO ID

WELL VISIBLE? (If not, provide directions below) Removed 8" flush mount manhole
 WELL I.D. VISIBLE?
 WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) Map Attached

YES	NO
	X
	X
X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

SURFACE SEAL PRESENT? N/A
 SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) N/A
 PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) It was removed 5/1/13

YES	NO

HEADSPACE READING (ppm) AND INSTRUMENT USED.....
 TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)
 PROTECTIVE CASING MATERIAL TYPE:
 MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

0 PPM / PID Meter
Flush Mount Manhole
Steel
8"

LOCK PRESENT?
 LOCK FUNCTIONAL?
 DID YOU REPLACE THE LOCK?
 IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)
 WELL MEASURING POINT VISIBLE?

YES	NO
	X
	X
	X
	X
	X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):
 MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):
 MEASURE WELL DIAMETER (Inches):
 WELL CASING MATERIAL:
 PHYSICAL CONDITION OF VISIBLE WELL CASING:
 ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE
 PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....

19' 5"
2' 8"
2"
Sch. 40 PVC
OK
N/A
15' overhead

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Dirt area next to the sidewalk about 15' from overhead powerlines

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
In dirt/grass area adjacent to sidewalk along Western Ave., Staten Island, NY

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
Unknown

REMARKS:
Well properly abandoned - 8" flush mount manhole and cement pad removed - 2" dome cap solvent welded at top.

Port Authority
NJ-NY Expansion Project

30 October 2013

INPUT
UTM, NAD83
18 - 78W to 72W, U.S. Feet
Vertical - NAVD88, U.S. Feet

OUTPUT
State Plane, NAD83
3104 - New York Long Island, U.S. Feet
Vertical - NAVD88, U.S. Feet

PRW-13

1/2

Northing/Y: 14758557.81
Easting/X: 1867368.38
Elevation/Z: 6.85
Convergence: 0 31 57.79510
Scale Factor: 0.999658899
Combined Factor: 0.999663640

Northing/Y: 170203.673
Easting/X: 933735.263
Elevation/Z: 6.850
Convergence: -0 07 08.55015
Scale Factor: 1.000001997
Combined Factor: 1.000006740

Grid Shift (U.S. ft.): X/Easting = -933633.1, Y/Northing = -14588354.1

PRW-14

2/2

Northing/Y: 14758524.56
Easting/X: 1867524.65
Elevation/Z: 7.44
Convergence: 0 31 59.10927
Scale Factor: 0.999658980
Combined Factor: 0.999663693

Northing/Y: 170168.635
Easting/X: 933891.198
Elevation/Z: 7.440
Convergence: -0 07 07.22664
Scale Factor: 1.000002003
Combined Factor: 1.000006717

Grid Shift (U.S. ft.): X/Easting = -933633.5, Y/Northing = -14588355.9

Remark:



Environmental Corporation

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

MONITORING WELL AND SOIL BORING LOG

WELL NUMBER

PRW-13

PROJECT NAME: Spectra NJ-NY Expansion

LOCATION: Staten Island, New York

PROJECT NO.: 168217

CONTRACTOR: Land Air Water Environmental Services

SAMPLER TYPE/DIA.: Post-hole Digger & Hollow Stem Auger

TYPE OF WELL: Monitoring

DEPTH TO BEDROCK: Not Encountered

DRILLING METHOD: Post-hole Digger/Auger

TOTAL DEPTH DRILLED: 10 feet

BIT TYPE: Auger Bit

START DATE: 08/20/13

FINISH DATE: 08/20/13

DRILLER: J. Lamprecht

LOGGED BY: B. Chaky

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	WELL DIAGRAM	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS
0							Flush Mount
1				No samples collected			0.0' to 6.0' - FILL: Brown, medium to fine sand; some coarse to fine gravel, little silt. Moist, medium-dense.
2							
3		Hand cleared	0				
4							
5							
6							
7						PT	6.0' to 11' - Dark brown PEAT; some silt, little clay. Moist, loose.
8		Not Recorded	0				
9							
10							
							<p><u>Well Construction Details</u></p> <p>0.0 to 2.0 ft. below surface - 4" diameter PVC riser. 0.0 to 1.0 ft. below surface - Cement 1.0 to 2.0 ft. below surface - Bentonite 2.0 to 10.0 ft. below surface - 4" diameter 0.020 slot PVC screen. 2.0 to 10.0 ft. below surface - No. 2 sand</p>
CASING TYPE/DIAMETER (IN.)					STATIC WATER LEVEL: <u>2</u> feet below surface		
INNER: <u>PVC/4</u> OUTER: <u>N/A</u>					DEPTH WATER ENCOUNTERED: <u>4</u> feet below surface		
SCREENED OR OPEN INTERVAL: <u>2.0 to 10.0</u> (FEET BELOW SURFACE)					MEASURING POINT ELEVATION: <u>NA</u> ft.msl		
					GROUND SURFACE ELEVATION: <u>NA</u> ft.msl		



Environmental Corporation

57 E. Willow Street, Millburn, NJ 07041 (973) 564-6006

MONITORING WELL AND SOIL BORING LOG

WELL NUMBER

PRW-14

PROJECT NAME: Spectra NJ-NY Expansion

LOCATION: Staten Island, New York

PROJECT NO.: 168217

CONTRACTOR: Land Air Water Environmental Services

SAMPLER TYPE/DIA.: Post-hole Digger & Hollow Stem Auger

TYPE OF WELL: Monitoring

DEPTH TO BEDROCK: Not Encountered

DRILLING METHOD: Post-hole Digger/Auger

TOTAL DEPTH DRILLED: 12 feet

BIT TYPE: Auger Bit

START DATE: 08/20/13

FINISH DATE: 08/20/13

DRILLER: J. Lamprecht

LOGGED BY: B. Chaky

DEPTH FROM SURFACE (FEET)	BLOW COUNT PER 6 IN.	RECOVER Y (INCHES)	PID (ppm)	SAMPLE DESIGNATION	WELL DIAGRAM	UNIFIED	LITHOLOGIC CLASSIFICATION AND COMMENTS	
0							Flush Mount	
1				No samples collected			0.0' to 6.0' - FILL: Brown, medium to fine sand; some coarse to fine gravel, little silt. Moist, medium-dense.	
2								
3		Hand cleared	0					
4								
5								
6								PT 6.0' to 11' - Dark brown PEAT; some silt, little clay. Moist, loose.
7								
8								
9		Not Recorded	0					
10								
11								Wet at 11'
12							SM	11' to 12' - Brown, medium to fine SAND; trace fine gravel, trace silt. Wet, loose.
							<u>Well Construction Details</u> 0.0 to 2.0 ft. below surface - 4" diameter PVC riser. 0.0 to 1.0 ft. below surface - Cement 1.0 to 2.0 ft. below surface - Bentonite 2.0 to 12.0 ft. below surface - 4" diameter 0.020 slot PVC screen. 2.0 to 12.0 ft. below surface - No. 2 sand	
CASING TYPE/DIAMETER (IN.)					STATIC WATER LEVEL: 9.5 feet below surface			
INNER: PVC/4 OUTER: N/A					DEPTH WATER ENCOUNTERED: 11 feet below surface			
SCREENED OR OPEN INTERVAL: 2.0 to 12.0 (FEET BELOW SURFACE)					MEASURING POINT ELEVATION: NA ft.msl			
					GROUND SURFACE ELEVATION: NA ft.msl			