



Ms. Sarah Saucier
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Division of Environmental Remediation
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Subject:
NYSEG Goshen Former MGP Site
Monitoring Well Decommissioning Activities

ENVIRONMENT

Dear Ms. Saucier:

Date:
June 12, 2015

This letter summarizes the recent monitoring well decommissioning activities conducted at the NYSEG Goshen Former Manufactured Gas Plant (MGP) Site (the site) located on West Main Street in Goshen, New York (Site No. 3-36-046). Well decommissioning activities were completed from April 23 to April 27, 2015 in accordance with the April 6, 2015 Monitoring Well Decommissioning Work Plan Letter (work plan).

Contact:
Jason Golubski, P.E.

Phone:
315.671.9437

ARCADIS conducted the well decommissioning activities to support the forthcoming remedial construction activities (anticipated to begin in the summer of 2016). Monitoring wells MW93-3S and MW93-3D were constructed with stain steel risers that were grouted into place. Therefore, these wells were decommissioned by removing the curb box, cutting the steel risers off at approximately 5 feet below grade, and tremie-grouting the remaining void. Monitoring wells MW08-09S and MW08-09D were constructed with PVC risers and these wells were decommissioned by removing the curb box, over-drilling and removing the casings, and tremie-grouting the borehole. Decommissioned monitoring well locations are shown on Figure 1 and well decommissioning logs are included as Attachment 1.

Email:
jason.golubski@arcadis-us.com

Our ref:
B0013080.0006

Although the work plan indicated that monitoring well NMW08-02 would be decommissioned, the well was not decommissioned due to the presence of approximately 3 feet of non-aqueous phase liquids (NAPL) encountered while gauging the wall prior to abandoning the well. Monitoring well NMW08-02 will be protected during remedial construction and will be utilized as part of post-construction NAPL monitoring.

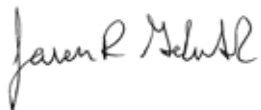
The remaining overburden monitoring wells and piezometers located within the in-situ soil solidification (ISS) treatment area (i.e., NMW08-01, PZ08-1, PZ08-2, and

PZ08-3) will be removed by the Remediation Contractor during the forthcoming remedial construction activities (or mixed with site material), as the wells do not extend below the confining till unit.

Please contact NYSEG's project manager, Tracey Blazicek at 607.762.8839 or me at 315.671.9437 if you have any questions or comments regarding the information presented in this letter.

Sincerely,

ARCADIS of New York, Inc.



Jason Golubski, P.E.
Principal Engineer

Copies:

Tracey Blazicek, CHMM, NYSEG
Jason Brien, P.E., ARCADIS (w/o enclosure)

Figure

1 Decommissioned Monitoring Well Locations

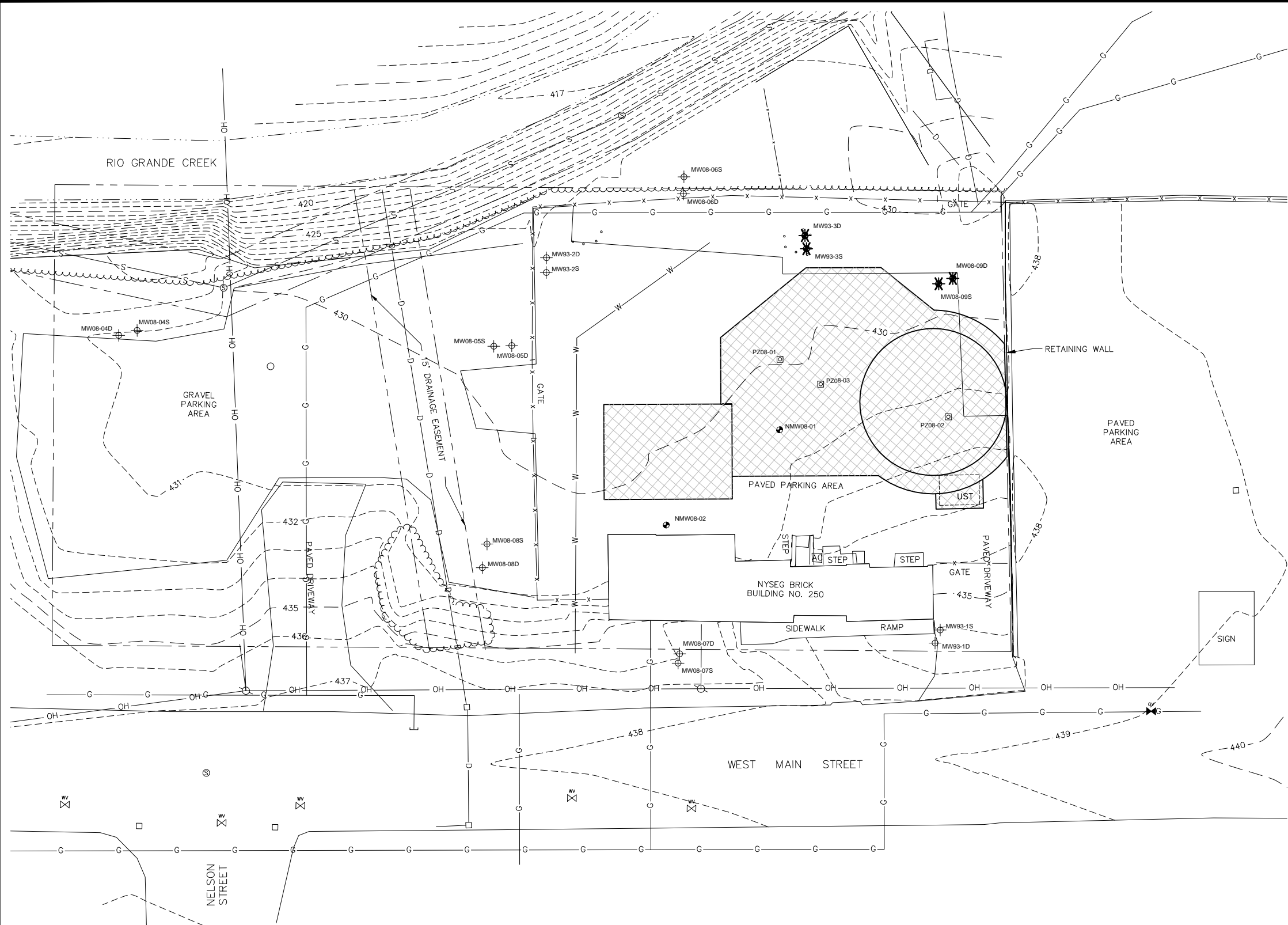
Attachment

1 Monitoring Well Decommissioning Logs



Figure

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB/G:STEINBERGER, K.SARTORI PIC: K.WHITE PM: / TM: J.GOLUBSKI LYN: ON* OFF=REF: G:\ENVCAD\SYRACUSE\ACT\B01308000000010\DWG\REPORT\MWDS\13080301.dwg LAYOUT: 1 SAVED: 6/3/2015 11:30 AM ACADVER: 19.1S (LMS TECH) PAGES: 10 PLOT: 1 PLOT DATE: 6/3/2015 11:30 AM BY: SARTORI, KATHERINE



LEGEND:

- PROPERTY BOUNDARY
- - - 425 - - - TOPOGRAPHIC CONTOUR
- EDGE OF WATER
- D --- STORM SEWER
- G --- GAS LINE
- OH --- OVERHEAD ELECTRIC
- W --- WATER LINE
- x-x- CHAIN LINK FENCE
- TREE LINE
- CATCH BASIN
- MANHOLE
- ⊙ SEWER MANHOLE
- ⊙ UTILITY POLE
- ⊗ GAS VALVE
- ⊗ WATER VALVE
- BOLLARD
- ⊠ PIEZOMETER
- ⊕ MONITORING WELL
- MW08-09D ⊕ DECOMMISSIONED MONITORING WELL
- ▨ EXTENT OF ISS TREATMENT/SOIL REMOVAL

- NOTES:**
1. ALL LOCATIONS ARE APPROXIMATE.
 2. OVERBURDEN MONITORING WELLS AND PIEZOMETERS LOCATED WITHIN THE ISS TREATMENT AREA (NMW08-01, PZ08-1, PZ08-2, AND PZ08-3) WILL NOT BE DECOMMISSIONED AND WILL BE REMOVED BY THE REMEDIATION CONTRACTOR DURING REMEDIAL CONSTRUCTION ACTIVITIES.



NYSEG
 GOSHEN FORMER MGP SITE
 GOSHEN, NEW YORK
MONITORING WELL DECOMMISSIONING SUMMARY

**DECOMMISSIONED MONITORING
 WELL LOCATIONS**




FIGURE
1



Attachment 1

Monitoring Well Decommissioning
Logs

**FIGURE 3
WELL DECOMMISSIONING RECORD**

Site Name: NYSEG Goshen Farmer MGP	Well I.D.: MW08-09D
Site Location: Goshen, NY	Driller: Doug Richmond
Drilling Co.: ARCADIS	Inspector: Will Stephens
	Date: 4-23-15

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*
<p>OVERDRILLING</p> <p>Interval Drilled: 0-40'</p> <p>Drilling Method(s): 4.25" HSA</p> <p>Borehole Dia. (in.): 8.25</p> <p>Temporary Casing Installed? (y/n): N</p> <p>Depth temporary casing installed: NA</p> <p>Casing type/dia. (in.): NA</p> <p>Method of installing: NA</p>	<p>Depth (feet)</p> <p>0</p> <p>Portland Cement Grout (0-40') bgs</p> <p>40'</p>
<p>CASING PULLING</p> <p>Method employed:</p> <p>Casing retrieved (feet): 39.5'</p> <p>Casing type/dia. (in.): 2" PVC</p>	
<p>CASING PERFORATING</p> <p>Equipment used:</p> <p>Number of perforations/foot:</p> <p>Size of perforations:</p> <p>Interval perforated:</p>	
<p>GROUTING</p> <p>Interval grouted (FBLs): 40.0'</p> <p># of batches prepared: 2</p> <p>For each batch record:</p> <p>Quantity of water used (gal.): 48</p> <p>Quantity of cement used (lbs.): 282</p> <p>Cement type: Portland Type II</p> <p>Quantity of bentonite used (lbs.): 10</p> <p>Quantity of calcium chloride used (lbs.):</p> <p>Volume of grout prepared (gal.): 45</p> <p>Volume of grout used (gal.): 45</p>	
<p>COMMENTS: Overdrilled removed all 2" PVC construction and backfilled with grout to 40' bgs</p> <p>Original DTB 39.15' (TIC) DTW 4.10' (TIC)</p>	

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

ARCADIS
Drilling Contractor

Department Representative

FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: <i>NYSEG Goshen Former MLP</i>	Well I.D.: <i>MW93-3S</i>
Site Location: <i>Goshen, NY</i>	Driller: <i>Doug Richmond</i>
Drilling Co.: <i>ARCADIS</i>	Inspector: <i>Will Stephens</i>
	Date: <i>4-24-15</i>

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING

Interval Drilled	<i>0-5'</i>
Drilling Method(s)	<i>4.25" HSA</i>
Borehole Dia. (in.)	<i>8.25"</i>
Temporary Casing Installed? (y/n)	<i>N</i>
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	

CASING PULLING

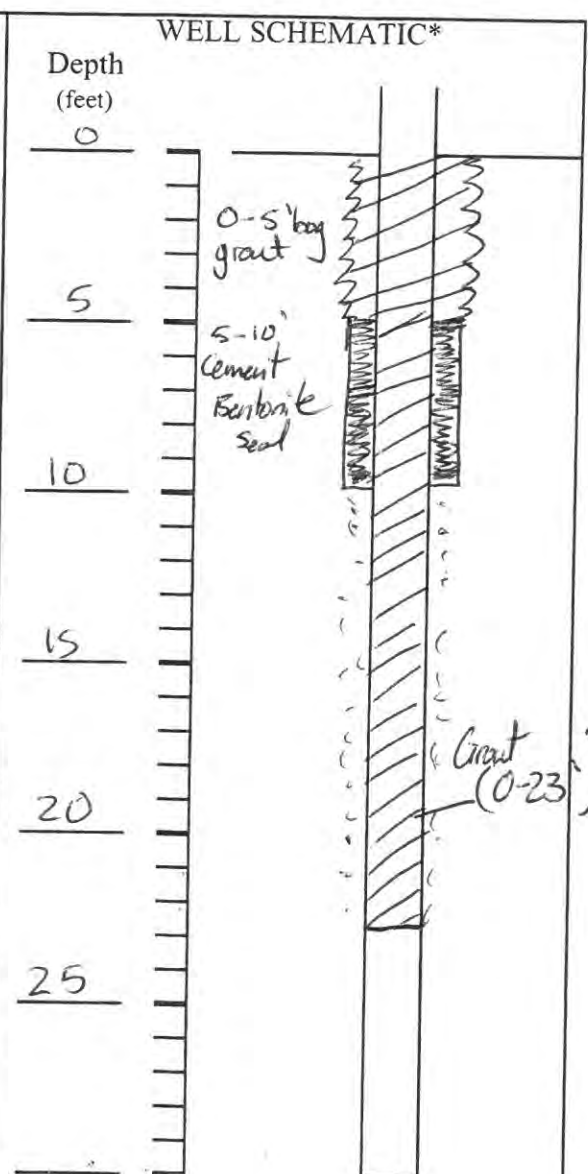
Method employed	<i>Cut below grade</i>
Casing retrieved (feet)	<i>5'</i>
Casing type/dia. (in.)	<i>2" Stainless</i>

CASING PERFORATING

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

GROUTING

Interval grouted (FBLs)	<i>0-23'</i>
# of batches prepared	<i>1</i>
For each batch record:	
Quantity of water used (gal.)	<i>35</i>
Quantity of cement used (lbs.)	<i>188</i>
Cement type	<i>Portland Type I/II</i>
Quantity of bentonite used (lbs.)	<i>7</i>
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	<i>40</i>
Volume of grout used (gal.)	<i>40</i>



COMMENTS:

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

**FIGURE 3
WELL DECOMMISSIONING RECORD**

Site Name: NYSEG Goshen Former MGP	Well I.D.: MW93-3D
Site Location: Goshen, NY	Driller: Doug Richmond
Drilling Co.: ARCADIS	Inspector: Will Stephens
	Date: 4-24-15

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*
<p>OVERDRILLING</p> <p>Interval Drilled: 0-5'</p> <p>Drilling Method(s): 4 7/8" HSA</p> <p>Borehole Dia. (in.): 8.25"</p> <p>Temporary Casing Installed? (y/n): N</p> <p>Depth temporary casing installed: /</p> <p>Casing type/dia. (in.): /</p> <p>Method of installing: /</p> <p>CASING PULLING</p> <p>Method employed: Cut below grade</p> <p>Casing retrieved (feet): 5'</p> <p>Casing type/dia. (in.): 2" SS</p> <p>CASING PERFORATING</p> <p>Equipment used: /</p> <p>Number of perforations/foot: /</p> <p>Size of perforations: /</p> <p>Interval perforated: /</p> <p>GROUTING</p> <p>Interval grouted (FBLs): 0-36.5'</p> <p># of batches prepared: 1</p> <p>For each batch record:</p> <p>Quantity of water used (gal.): 40</p> <p>Quantity of cement used (lbs.): 188</p> <p>Cement type: Portland Type I/II</p> <p>Quantity of bentonite used (lbs.): 10</p> <p>Quantity of calcium chloride used (lbs.): /</p> <p>Volume of grout prepared (gal.): 45</p> <p>Volume of grout used (gal.): 45</p>	<p>Depth (feet)</p> <p>0</p> <p>10</p> <p>20</p> <p>30</p> <p>40</p> <p>GROUT (0-5')</p> <p>Cement Bentonite</p> <p>GROUT (0-36.5')</p>
<p>COMMENTS:</p> <p> </p> <p> </p> <p> </p>	<p>* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.</p>

Drilling Contractor _____

Department Representative _____

**FIGURE 3
WELL DECOMMISSIONING RECORD**

Site Name: NYSEG Goshen Former M&P	Well I.D.: MW08-095
Site Location: Goshen, NY	Driller: Doug Richmond
Drilling Co.: ARCADIS	Inspector: Will Stephens
	Date: 4-27-15

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*
<p>OVERDRILLING</p> <p>Interval Drilled: 0-20'</p> <p>Drilling Method(s): 4.25"</p> <p>Borehole Dia. (in.): 8.25"</p> <p>Temporary Casing Installed? (y/n): N</p> <p>Depth temporary casing installed: /</p> <p>Casing type/dia. (in.): /</p> <p>Method of installing: /</p>	<p>Depth (feet)</p> <p>0</p> <p>5</p> <p>10</p> <p>15</p> <p>20</p>
<p>CASING PULLING</p> <p>Method employed: /</p> <p>Casing retrieved (feet): 19.80'</p> <p>Casing type/dia. (in.): 2" PVC</p>	
<p>CASING PERFORATING</p> <p>Equipment used: /</p> <p>Number of perforations/foot: /</p> <p>Size of perforations: /</p> <p>Interval perforated: /</p>	
<p>GROUTING</p> <p>Interval grouted (FBSL): 0-20</p> <p># of batches prepared: 1</p> <p>For each batch record:</p> <p>Quantity of water used (gal.): 40</p> <p>Quantity of cement used (lbs.): 282</p> <p>Cement type: Portland Type II</p> <p>Quantity of bentonite used (lbs.): 10</p> <p>Quantity of calcium chloride used (lbs.): /</p> <p>Volume of grout prepared (gal.): 45</p> <p>Volume of grout used (gal.): 45</p>	
<p>COMMENTS: Overdrilled & grouted 0-20' bgs Removal all PVC well casing</p>	

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