



Impact Environmental Engineering Geology, PLLC

170 Keyland Court | Bohemia | NY | 11716 | 631.269.8800 welcome to solid ground...
 www.impactenvironmental.com

DAILY STATUS REPORT #06

Prepared By: Chris Connolly

WEATHER	Snow	Rain	Overcast	Partly Cloudy	Bright Sun	X
TEMP.	< 32	32-50	50-70	70-85	>85	X

IEC Project No:	15209	NYSDEC BCP Site No:	C241254	Date:	07/13/22
Project:	13-12 Beach Channel Drive, Far Rockaway, New York				

Consultant: Impact Environmental Engineering and Geology, PLLC (IEEG) Time On: 07:00 Time Out: 15:00	Personnel On Site: IEEG – Chris Evertz and Alex Keenan
--------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------

<p><u>Scope of Work:</u></p> <ul style="list-style-type: none"> Gauge all existing groundwater monitoring wells and collect post-injection groundwater samples from select onsite monitoring wells and at wells that will be destroyed during new building construction for analysis of Target Compound List (TCL) Volatile Organic Compounds (VOCs). A total of 14 wells will be sampled. <p><u>Site Activities:</u></p> <ul style="list-style-type: none"> Attempted to locate suspected destroyed wells MW-6 and MW-11. MW-6 was confirmed as destroyed but MW-11 was found and determined viable. Using low-flow sampling protocols as required by the NYSDEC-approved Remedial Action Work Plan, the following wells were purged and sampled: <ul style="list-style-type: none"> MW-2, MW-3, MW-4s, MW-4i, MW-5, and MW-11 Each of the six (6) above well samples were packaged, stored, and transported for ELAP certified laboratory for analysis of TCL VOCs by York Analytical Laboratories. <p><u>Community Air Monitoring Program (CAMP)</u></p> <ul style="list-style-type: none"> Not applicable. No soil disturbance was performed. <p><u>Problem Encountered:</u></p> <ul style="list-style-type: none"> None. <p><u>Planned Activities for the Next Day:</u></p> <ul style="list-style-type: none"> Sample monitoring wells MW-1, MW-7s, MW-7i, MW-8s, MW-8i, MW-9s, MW-9i and MW-10, and abandon seven (7) wells within the footprint of proposed new building.

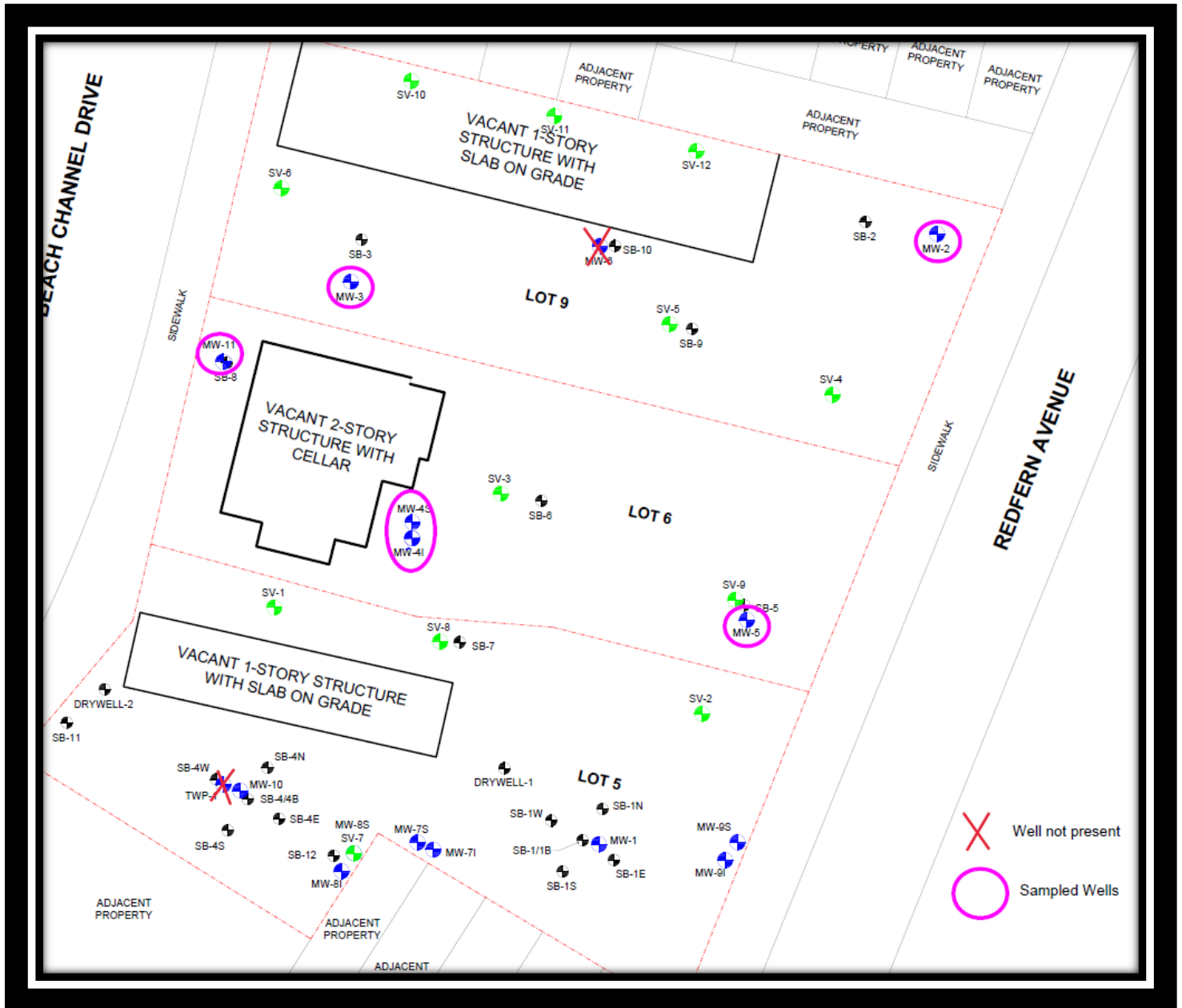


Impact Environmental Engineering Geology, PLLC

170 Keyland Court | Bohemia | NY | 11716 | 631.269.8800 welcome to solid ground...

www.impactenvironmental.com

Site Activity Map





Impact Environmental Engineering Geology, PLLC

170 Keyland Court | Bohemia | NY | 11716 | 631.269.8800 welcome to solid ground...
www.impactenvironmental.com

Photo Log

Photo 1 – Photo of general site conditions on Lot 9



Photo 2 – Photo of general site conditions on Lot 6 and 5





Impact Environmental Engineering Geology, PLLC

170 Keyland Court | Bohemia | NY | 11716 | 631.269.8800 welcome to solid ground...

www.impactenvironmental.com

Photo 3 – Photo of typical low flow groundwater sampling apparatus and setup





Impact Environmental Engineering Geology, PLLC

170 Keyland Court | Bohemia | NY | 11716 | 631.269.8800 welcome to solid ground...
 www.impactenvironmental.com

DAILY STATUS REPORT #07

Prepared By: Chris Connolly

WEATHER	Snow	Rain	Overcast	Partly Cloudy	Bright Sun	X
TEMP.	< 32	32-50	50-70	70-85	>85	X

IEC Project No:	15209	NYSDEC BCP Site No:	C241254	Date:	07/14/22
Project:	13-12 Beach Channel Drive, Far Rockaway, New York				

<p>Consultant: Impact Environmental Engineering and Geology, PLLC (IEEG)</p> <p>Time On: 07:00 Time Out: 15:00</p>	<p>Personnel On Site:</p> <p>IEEG – Chris Evertz and Alex Keenan</p> <p>PG Environmental – Oscar Peralta and Luis Vanegas</p>
<p><u>Scope of Work:</u></p> <ul style="list-style-type: none"> Continuation of post-groundwater treatment sample collection from existing groundwater monitoring wells and from select onsite monitoring wells that will be destroyed during new building construction for analysis of Target Compound List (TCL) Volatile Organic Compounds (VOCs). Abandonment of seven (7) monitoring wells located in the footprint of the proposed redevelopment in accordance with NYSDEC CP-43 protocols. <p><u>Site Activities:</u></p> <ul style="list-style-type: none"> Using low-flow sampling protocols as required by the NYSDEC-approved Remedial Action Work Plan, the following wells were purged and sampled: <ul style="list-style-type: none"> MW-1, MW-7s, MW-7i, MW-8s, MW-8i, MW-9s, MW-9i and MW-10 Each of the eight (8) above well samples were packaged, stored, and sent to an ELAP certified laboratory for analysis of TCL VOCs, total/dissolved iron, sulfate, sulfide, nitrate, TOC, methane, ethane, and ethene. Using a GeoProbe 7822DT Drill Rig and Monyo 2L4 Pump, the following wells were abandoned in accordance with NYSDEC CP-43 well decommissioning protocols: <ul style="list-style-type: none"> MW-2, MW-3, MW-4s, MW-4i, MW-5, MW-11 and SVE-1 For each well location the PVC well material was removed from the borehole, and drill rods were advanced to the terminal depth of the well. Once the drill rods were in place, a bentonite grout mixture was pumped into the borehole up to one-foot below surface grade using a grout pump. The remaining foot of the borehole was finished with concrete. Well Decommissioning logs can be found attached to this report. <p><u>Community Air Monitoring Program (CAMP)</u></p> <ul style="list-style-type: none"> Not applicable. <p><u>Problem Encountered:</u></p> <ul style="list-style-type: none"> None. 	



Impact Environmental Engineering Geology, PLLC

170 Keyland Court | Bohemia | NY | 11716 | 631.269.8800 welcome to solid ground...
www.impactenvironmental.com

Planned Activities for the Next Day:

- None.

Site Activity Map





Impact Environmental Engineering Geology, PLLC

170 Keyland Court | Bohemia | NY | 11716 | 631.269.8800 welcome to solid ground...

www.impactenvironmental.com

Photo Log

Photo 1 – Photo of typical well abandonment activities



Photo 2 – Photo of typical abandoned well location





Impact Environmental Engineering Geology, PLLC

170 Keyland Court | Bohemia | NY | 11716 | 631.269.8800 welcome to solid ground...

www.impactenvironmental.com

Photo 3 – Photo of typical abandoned well location



Photo 4 – Photo of closeup of abandoned well location



**FIGURE 3
WELL DECOMMISSIONING RECORD**

Site Name: 15209	Well I.D.: SUE-1
Site Location: 13-16 Beach Channel Drive	Driller: Oscar Paretta
Drilling Co.: PG	Inspector: T. Stone
	Date: 7/14/22

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*	
<p><u>OVERDRILLING</u></p> <p>Interval Drilled: 6.5'</p> <p>Drilling Method(s): Direct Push</p> <p>Borehole Dia. (in.): 3"</p> <p>Temporary Casing Installed? (y/n): N</p> <p>Depth temporary casing installed: NONE</p> <p>Casing type/dia. (in.): NONE</p> <p>Method of installing: NONE</p>	<p>Depth (feet)</p>	
<p><u>CASING PULLING</u></p> <p>Method employed: Geoprobe</p> <p>Casing retrieved (feet): 6'</p> <p>Casing type/dia. (in): 3" PVC</p>		
<p><u>CASING PERFORATING</u></p> <p>Equipment used: —</p> <p>Number of perforations/foot: —</p> <p>Size of perforations: —</p> <p>Interval perforated: —</p>		
<p><u>GROUTING</u></p> <p>Interval grouted (FBLs): 2'</p> <p># of batches prepared: 1</p> <p>For each batch record:</p> <p>Quantity of water used (gal.): 20</p> <p>Quantity of cement used (lbs.): 10</p> <p>Cement type: Portland</p> <p>Quantity of bentonite used (lbs.): 15</p> <p>Quantity of calcium chloride used (lbs.):</p> <p>Volume of grout prepared (gal.): 2</p> <p>Volume of grout used (gal.): 2</p>		
<p>COMMENTS:</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.

PG
Drilling Contractor

[Signature]
Department Representative

**FIGURE 3
WELL DECOMMISSIONING RECORD**

Site Name: <u>15209</u>	Well I.D.: <u>MW-2</u>
Site Location: <u>13-16 Beach Channel Drive</u>	Driller: <u>Oscar Paretta</u>
Drilling Co.: <u>PG</u>	Inspector: <u>Chris Ewertz</u>
	Date: <u>7/14/22</u>

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING

Interval Drilled	<u>21'</u>
Drilling Method(s)	<u>Direct push</u>
Borehole Dia. (in.)	<u>2"</u>
Temporary Casing Installed? (y/n)	<u>NONE</u>
Depth temporary casing installed	<u>NONE</u>
Casing type/dia. (in.)	<u>NONE</u>
Method of installing	<u>Direct push</u>

CASING PULLING

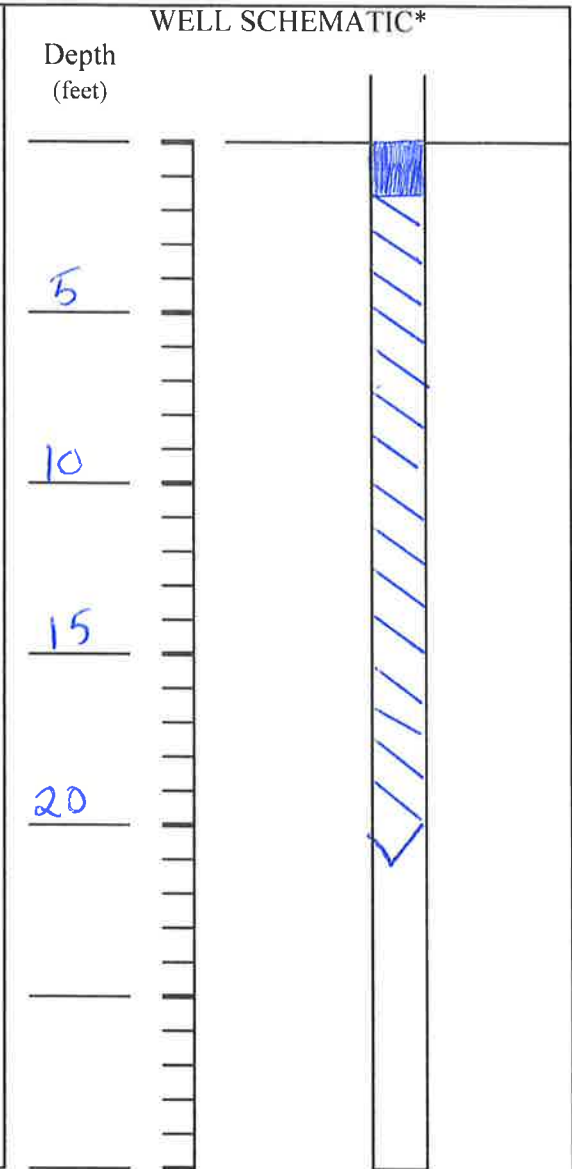
Method employed	<u>N/A</u>
Casing retrieved (feet)	<u>NONE</u>
Casing type/dia. (in)	<u>PVC 2"</u>

CASING PERFORATING

Equipment used	<u>—</u>
Number of perforations/foot	<u>—</u>
Size of perforations	<u>—</u>
Interval perforated	<u>—</u>

GROUTING

Interval grouted (FBLs)	<u>2'</u>
# of batches prepared	<u>1</u>
For each batch record:	
Quantity of water used (gal.)	<u>1-2g</u>
Quantity of cement used (lbs.)	<u>10</u>
Cement type	<u>Portland</u>
Quantity of bentonite used (lbs.)	<u>15lbs</u>
Quantity of calcium chloride used (lbs.)	<u>N/A</u>
Volume of grout prepared (gal.)	<u>2gal</u>
Volume of grout used (gal.)	<u>2gal</u>



COMMENTS:

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

PG
Drilling Contractor

Chris Ewertz
Department Representative

**FIGURE 3
WELL DECOMMISSIONING RECORD**

Site Name: #15209	Well I.D.: MW-3
Site Location: 13-16 Beach Channel Drive	Driller: OSCAR Parella
Drilling Co.: PG	Inspector: Chris Everaz
	Date: 7/14/22

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING

Interval Drilled	26'
Drilling Method(s)	Direct push
Borehole Dia. (in.)	2"
Temporary Casing Installed? (y/n)	NONE
Depth temporary casing installed	NONE
Casing type/dia. (in.)	PVC 2"
Method of installing	NONE

CASING PULLING

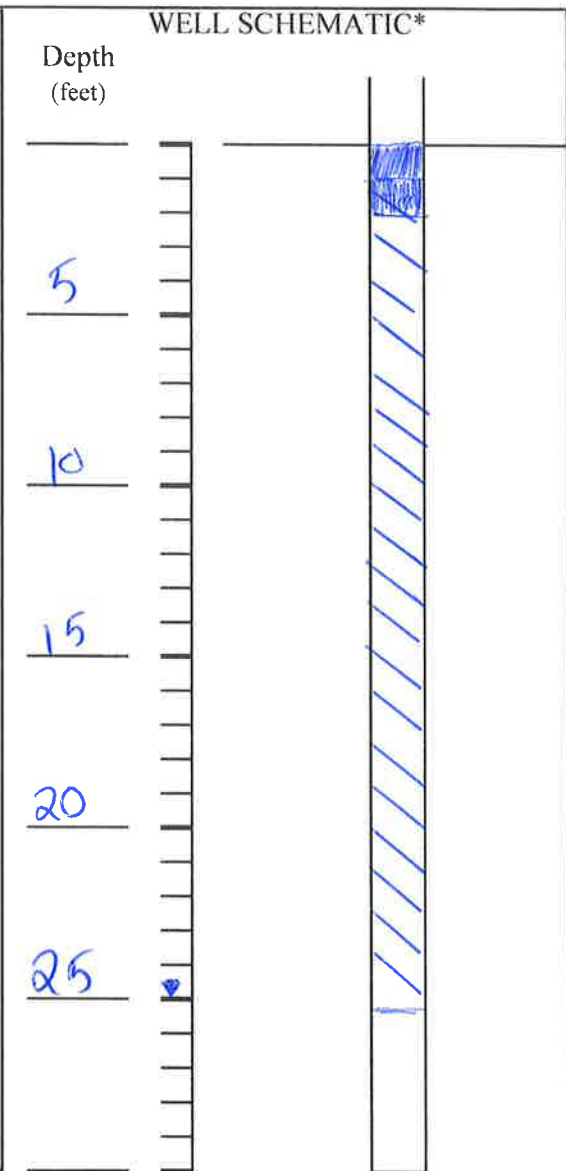
Method employed	N/A
Casing retrieved (feet)	NONE
Casing type/dia. (in.)	

CASING PERFORATING

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

GROUTING

Interval grouted (FBLs)	2'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	45g
Quantity of cement used (lbs.)	10 lbs;
Cement type	Portland
Quantity of bentonite used (lbs.)	70lbs
Quantity of calcium chloride used (lbs.)	---
Volume of grout prepared (gal.)	2g
Volume of grout used (gal.)	2g



COMMENTS:

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

PG
Drilling Contractor

Chris Everaz
Department Representative

**FIGURE 3
WELL DECOMMISSIONING RECORD**

Site Name: 15209	Well I.D.: MW-4E
Site Location: 13-16 Beach Channel Drive	Driller: Oscar Paretta
Drilling Co.: PC	Inspector: T. Stone
	Date: 7/14/22

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING

Interval Drilled	52'
Drilling Method(s)	Direct Push
Borehole Dia. (in.)	2"
Temporary Casing Installed? (y/n)	N
Depth temporary casing installed	None
Casing type/dia. (in.)	None
Method of installing	None

CASING PULLING

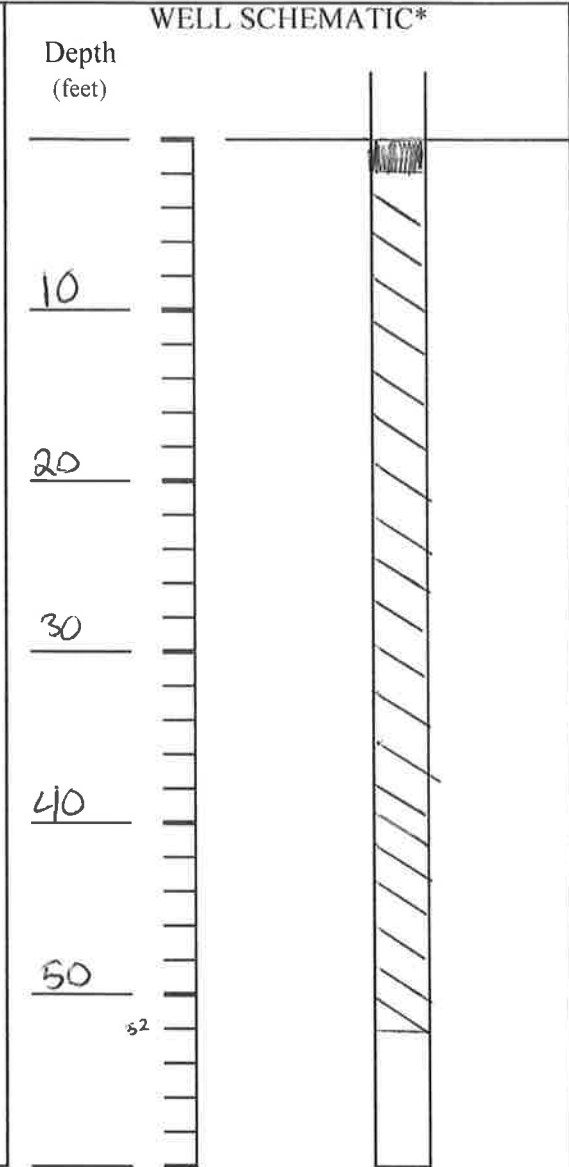
Method employed	NONE
Casing retrieved (feet)	NONE
Casing type/dia. (in)	NONE

CASING PERFORATING

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

GROUTING

Interval grouted (FBLS)	2'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	100
Quantity of cement used (lbs.)	10
Cement type	Portland
Quantity of bentonite used (lbs.)	120
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	2
Volume of grout used (gal.)	2



COMMENTS:

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

PC
Drilling Contractor

[Signature]
Department Representative

**FIGURE 3
WELL DECOMMISSIONING RECORD**

Site Name: 15209	Well I.D.: MW-45
Site Location: 13-16 Beach Channel Drive	Driller: Oscar Paretta
Drilling Co.: PG	Inspector: T. Stone
	Date: 7/14/22

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*								
<p><u>OVERDRILLING</u></p> <p>Interval Drilled <table border="1" style="display: inline-table;"><tr><td>4'</td></tr></table></p> <p>Drilling Method(s) <table border="1" style="display: inline-table;"><tr><td>Direct Push</td></tr></table></p> <p>Borehole Dia. (in.) <table border="1" style="display: inline-table;"><tr><td>2"</td></tr></table></p> <p>Temporary Casing Installed? (y/n) <table border="1" style="display: inline-table;"><tr><td>N</td></tr></table></p> <p>Depth temporary casing installed <table border="1" style="display: inline-table;"><tr><td>None</td></tr></table></p> <p>Casing type/dia. (in.) <table border="1" style="display: inline-table;"><tr><td>None</td></tr></table></p> <p>Method of installing <table border="1" style="display: inline-table;"><tr><td>None</td></tr></table></p>	4'	Direct Push	2"	N	None	None	None	<p>Depth (feet)</p>	
4'									
Direct Push									
2"									
N									
None									
None									
None									
<p><u>CASING PULLING</u></p> <p>Method employed <table border="1" style="display: inline-table;"><tr><td>GeoProbe</td></tr></table></p> <p>Casing retrieved (feet) <table border="1" style="display: inline-table;"><tr><td>20'</td></tr></table></p> <p>Casing type/dia. (in) <table border="1" style="display: inline-table;"><tr><td>2" PVC</td></tr></table></p>	GeoProbe	20'	2" PVC						
GeoProbe									
20'									
2" PVC									
<p><u>CASING PERFORATING</u></p> <p>Equipment used <table border="1" style="display: inline-table;"><tr><td>—</td></tr></table></p> <p>Number of perforations/foot <table border="1" style="display: inline-table;"><tr><td>—</td></tr></table></p> <p>Size of perforations <table border="1" style="display: inline-table;"><tr><td>—</td></tr></table></p> <p>Interval perforated <table border="1" style="display: inline-table;"><tr><td>—</td></tr></table></p>	—	—	—	—					
—									
—									
—									
—									
<p><u>GROUTING</u></p> <p>Interval grouted (FBLs) <table border="1" style="display: inline-table;"><tr><td>2'</td></tr></table></p> <p># of batches prepared <table border="1" style="display: inline-table;"><tr><td>1</td></tr></table></p> <p>For each batch record:</p> <p>Quantity of water used (gal.) <table border="1" style="display: inline-table;"><tr><td>75</td></tr></table></p> <p>Quantity of cement used (lbs.) <table border="1" style="display: inline-table;"><tr><td>10</td></tr></table></p> <p>Cement type <table border="1" style="display: inline-table;"><tr><td>Portland</td></tr></table></p> <p>Quantity of bentonite used (lbs.) <table border="1" style="display: inline-table;"><tr><td>90</td></tr></table></p> <p>Quantity of calcium chloride used (lbs.) <table border="1" style="display: inline-table;"><tr><td>—</td></tr></table></p> <p>Volume of grout prepared (gal.) <table border="1" style="display: inline-table;"><tr><td>2</td></tr></table></p> <p>Volume of grout used (gal.) <table border="1" style="display: inline-table;"><tr><td>2</td></tr></table></p>	2'	1	75	10	Portland	90	—	2	2
2'									
1									
75									
10									
Portland									
90									
—									
2									
2									

COMMENTS:

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

PG
Drilling Contractor

Department Representative

**FIGURE 3
WELL DECOMMISSIONING RECORD**

Site Name: <u>15209</u>	Well I.D.: <u>MW-5</u>
Site Location: <u>13-16 Beach Channel Drive</u>	Driller: <u>Oscar Parelta</u>
Drilling Co.: <u>PG</u>	Inspector: <u>T. Stone</u>
	Date: <u>7/14/22</u>

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*
<p><u>OVERDRILLING</u></p> <p>Interval Drilled <u>26'</u></p> <p>Drilling Method(s) <u>Direct Push</u></p> <p>Borehole Dia. (in.) <u>2"</u></p> <p>Temporary Casing Installed? (y/n) <u>—</u></p> <p>Depth temporary casing installed <u>—</u></p> <p>Casing type/dia. (in.) <u>—</u></p> <p>Method of installing <u>—</u></p>	<p>Depth (feet)</p>
<p><u>CASING PULLING</u></p> <p>Method employed <u>NONE</u></p> <p>Casing retrieved (feet) <u>NONE</u></p> <p>Casing type/dia. (in) <u>NONE</u></p>	
<p><u>CASING PERFORATING</u></p> <p>Equipment used <u>—</u></p> <p>Number of perforations/foot <u>—</u></p> <p>Size of perforations <u>—</u></p> <p>Interval perforated <u>—</u></p>	
<p><u>GROUTING</u></p> <p>Interval grouted (FBLs) <u>2</u></p> <p># of batches prepared <u>1</u></p> <p>For each batch record:</p> <p>Quantity of water used (gal.) <u>50</u></p> <p>Quantity of cement used (lbs.) <u>10 lbs</u></p> <p>Cement type <u>Portland</u></p> <p>Quantity of bentonite used (lbs.) <u>70</u></p> <p>Quantity of calcium chloride used (lbs.) <u>—</u></p> <p>Volume of grout prepared (gal.) <u>2</u></p> <p>Volume of grout used (gal.) <u>2</u></p>	

COMMENTS:

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

PG
Drilling Contractor

Department Representative

**FIGURE 3
WELL DECOMMISSIONING RECORD**

Site Name: <u>15209</u>	Well I.D.: <u>MW-11</u>
Site Location: <u>13-16 Beach Channel Drive</u>	Driller: <u>OSCAR Paretta</u>
Drilling Co.: <u>PG</u>	Inspector: <u>Chris Evertz</u>
	Date: <u>7/14/22</u>

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING

Interval Drilled	<u>26'</u>
Drilling Method(s)	<u>Direct push</u>
Borehole Dia. (in.)	<u>2"</u>
Temporary Casing Installed? (y/n)	<u>NONE</u>
Depth temporary casing installed	<u>NONE</u>
Casing type/dia. (in.)	<u>PVC 2"</u>
Method of installing	<u>NONE</u>

CASING PULLING

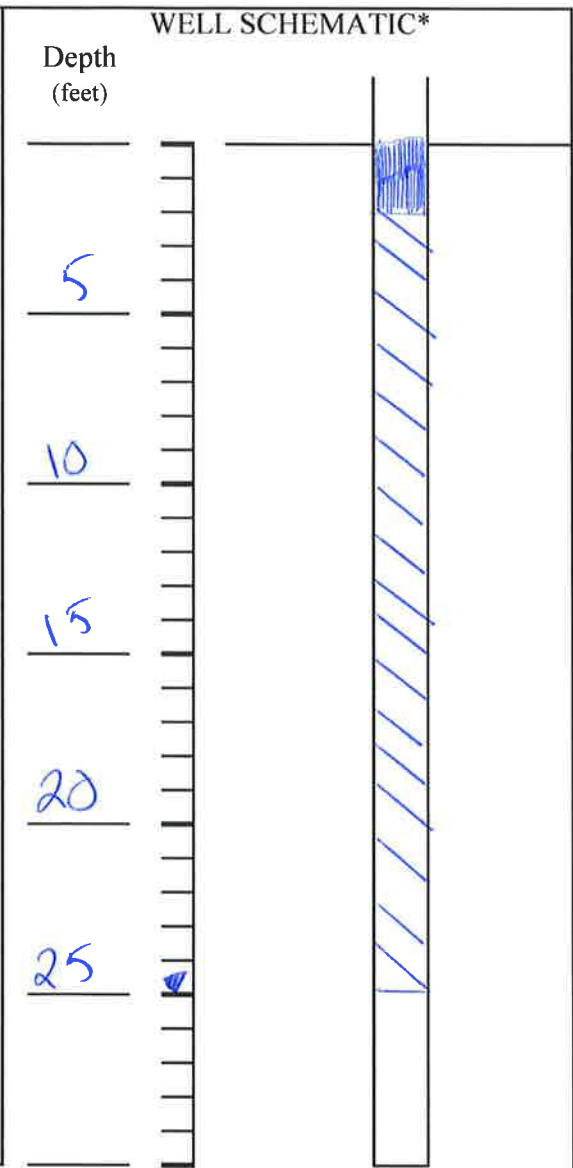
Method employed	<u>Grapple</u>
Casing retrieved (feet)	<u>25'</u>
Casing type/dia. (in)	<u>2" PVC</u>

CASING PERFORATING

Equipment used	<u>---</u>
Number of perforations/foot	<u>---</u>
Size of perforations	<u>---</u>
Interval perforated	<u>---</u>

GROUTING

Interval grouted (FBLS)	<u>2'</u>
# of batches prepared	<u>1</u>
For each batch record:	
Quantity of water used (gal.)	<u>50</u>
Quantity of cement used (lbs.)	<u>10 lbs</u>
Cement type	<u>Portland</u>
Quantity of bentonite used (lbs.)	<u>70 lbs</u>
Quantity of calcium chloride used (lbs.)	<u>---</u>
Volume of grout prepared (gal.)	<u>2g</u>
Volume of grout used (gal.)	<u>2g</u>



COMMENTS:

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

PG
Drilling Contractor

Chris Evertz
Department Representative