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Cedar Rapids WPCF

1 message

Nelson, Margaret A. <M.Nelson@cedar-rapids.org>

Fri, Jun 5, 2026 at 8:05 AM

To: "brian.rath@dnr.iowa.gov" <brian.rath@dnr.iowa.gov>

Cc: "becky.jolly@dnr.iowa.gov" <becky.jolly@dnr.iowa.gov>, Doug Luzbetak <dluzbetak@hlwengineering.com>

Brian, attached are the revised Well Logs and Monitoring Well / Piezometer Construction documents for MW's 29, 30, 31, 32. Please let me and Doug know if you have any additional questions.

Thank you,

Margaret Nelson (she/they)
Environmental Compliance Program Manager
City of Cedar Rapids Water Pollution Control Facilities

7525 Bertram Road SE
Cedar Rapids, IA, 52403-7111
Office: (319) 286-5948
Cell: (319) 450-1856



 CRWPCF_MW29-32_Survey-BoringLogs.pdf
867K

Well Log No. MW29

Graphic Log	Location: See Exploration Plan Latitude: 41.9593° Longitude: -91.5600°	Installation Details Top Casing Elev (Ft.): 736.4	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Laboratory HP (tsf)	Water Content (%)	Atterberg Limits	
										LL-PL-PI	Percent Fines
	Depth (Ft.) Elevation: 734 (Ft.) +/- 0.5 Well log updated due to 0.5 feet of fill placed after initial well was set. 733.5 FILL - LEAN CLAY , trace sand, gray brown, dark brown										
			5			20	4-4-5-6 N=9				
						20	5-4-7-7 N=11				
						20	4-6-8-10 N=14				
						20	3-6-7-4 N=13				
	9.5 724.5 10.5 LEAN CLAY (CL) , trace sand and gravel, brown, gray 723.5 LEAN CLAY (CL) , trace sand, brown		10			18	3-4-5-8 N=9				
						24	3-4-5-6 N=9				
	14.5 719.5 LEAN CLAY (CL) , trace sand, gray brown		15			24	2-2-2-3 N=4				
	16.5 717.5 LEAN CLAY (CL) , trace sand, gray brown					24	2-3-3-4 N=6				
	18.5 715.5 SANDY LEAN CLAY (CL) , trace gravel, brown, gray					24	2-4-4-5 N=8				
	20.5 713.5 SANDY LEAN CLAY (CL) , trace gravel, dark brown, brown, gray		20			6	2-3-3-3 N=6				
	24.5 709.5 SANDY LEAN CLAY (CL) , trace gravel, brown, gray		25	▽		24	2-2-3-3 N=5	0.5 (HP)	17.7	31-15-16	56
	SANDY LEAN CLAY (CL) , trace gravel, dark gray					24	1-3-4-6 N=7	1.0 (HP)			
			30			24	4-7-8-8 N=15	3.5 (HP)			
						24	4-6-8-10 N=14	3.5 (HP)	14.1	28-14-14	58
						26	4-5-7-10 N=12	3.5 (HP)			
						24	5-6-9-10 N=15	3.0 (HP)			
						24	4-5-7-8 N=12	3.75 (HP)			
	34.5 699.5 Boring Terminated at 34.5 Feet										

<p>See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).</p> <p>See Supporting Information for explanation of symbols and abbreviations.</p>	<p>Water Level Observations 24' observed while sampling</p>	<p>Drill Rig 603</p> <p>Hammer Type Automatic</p> <p>Driller SZ</p>
<p>Notes Well log updated due to 0.5 feet of fill placed after initial well was set.</p>	<p>Advancement Method 4-1/4" Hollow Stem Auger</p> <p>Abandonment Method Boring completed as a permanent monitoring well.</p>	<p>Logged by DCC</p> <p>Well Started 07-22-2025</p> <p>Well Completed 07-22-2025</p>

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Cedar Rapids Water Pollution Control Permit No.: PPW25-0027
Well/Piezometer No.: MW-29 Date Started: 7/22/2025 Date Completed: 7/22/2025
Applicable Requirements¹: 567 IAC 113 567 IAC 115 Site Permit
 567 IAC 114 567 IAC 139 Other: _____

A. SURVEYED LOCATION² AND ELEVATION OF POINT

Elevations (MSL): Ground Surface: 734 ft Top of Protective Casing: 736.8
Top of Well Casing: 736.4
Site Coordinates: Northing: _____ Easting: _____
World Coordinates: Latitude: 41.9593 Longitude: -91.5600
Elevation and Coordinate Systems: Decimal degrees

B. SOIL BORING INFORMATION

Certified Well Contractor Terracon
Address 2640 12th St SW City, State, Zip Code Cedar Rapids, IA 52404
Name of driller Scott Zeien Cert No. 5978
Drilling method Auger Drilling fluid none Bore hole diameter 8.25"
Soil sampling method Split-barrel Depth of boring 34.5'

C. MONITORING WELL INSTALLATION

Casing material: Schedule 40 PVC Placement method: placed
Length of casing: 24.3' (includes stick up) Quantity: 5'
Casing diameter: 2" Backfill (if different from seal): Baroid Quik Grout
Casing joint type: threaded Material: Bentonite
Casing/screen joint type: threaded Placement method: tremie
Screen material: Schedule 40PVC Quantity: 15.0'
Screen opening size: 0.010 Surface seal design: _____
Screen length: 10' Material of protective casing: _____
Material of grout between
Depth of Well: 34.7' (includes stick up and bottom point) protective casing and well casing: _____
Filter Pack: Gravel packed Protective cap: Stick up
Material: PW Gillibrand Material: Steel
Grain Size: 16/30 Vented?: Y N Locking?: Y N
Quantity: 14' Well cap: Torquer Locking Well Plug
Seal (minimum 3 ft. length above filter pack): Baroid Hole Plug Material: PVC with rubber gasket
Material: Bentonite Vented?: Y N

D. GROUNDWATER MEASUREMENT (± 0.01 foot below top of inner well casing)

Water level 24' Stabilization time _____
Well development method hand bailed 6 well volumes
Average depth of frost line _____

¹ Refer to the site's permit to determine applicable requirements. Note that some sites may only be regulated by their permit versus current landfill chapters. If the permit and rule are silent regarding applicable requirements, then 567 IAC Chapter 39 shall apply, which requires use of the Well Log (Well Record) Form, not this form. If the applicable requirements have been modified and approved by the DNR, then note under Other.

² The location does not need to be surveyed by a licensed surveyor. A handheld GPS reading accurate to +/- 30 feet is acceptable when an aerial photograph showing the location (pin) is included with this form. The site coordinates should be the same coordinate system currently used for survey control and mapping of the site.

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

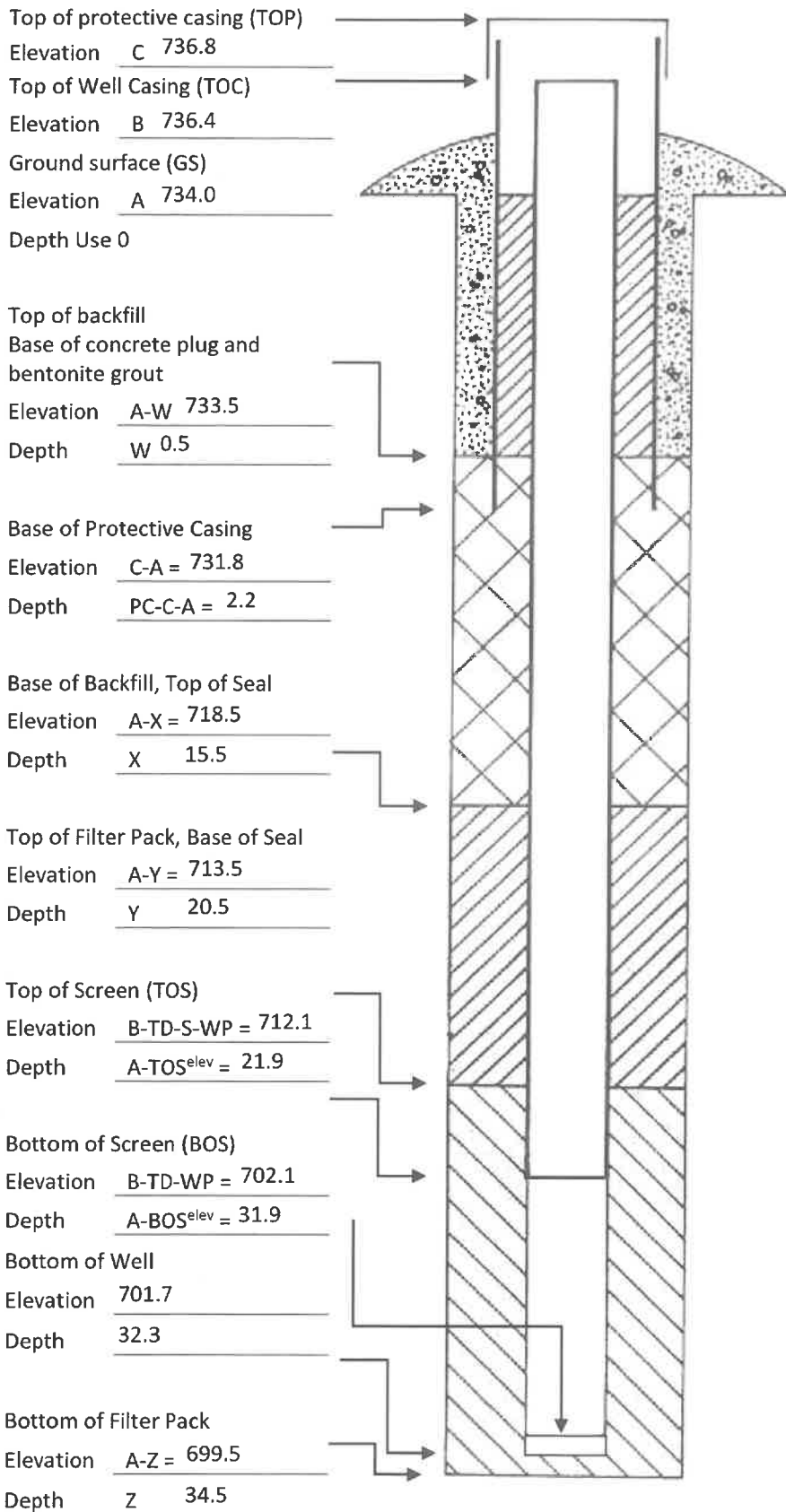
Signature Dan G⁹³⁵¹ for Scott Zeien Certification # 5978 Date 11/4/25

Note: Attach well log, boring log, and map showing new monitoring well/piezometer location in relation to existing wells or piezometers. Complete one form for each well plugged and submit within 30 days to the local county agent, DNR project officer, and Erik Day with the DNR's Water Supply Section at erik.day@dnr.iowa.gov. DNR prefers that the forms be completed and submitted electronically.

Well and Boring Logs

Elevations: ±0.01 ft. MSL

Depths: ±0.1 ft from Ground Surface



Required Data:

- Elevations for A, B, and C shall be surveyed.
- Depths for W, X, Y, and Z shall be field measured following completion of each item.
- Lengths of the Protective Casing (PC), Screen (S), and Well Point (WP) shall be field measured prior to installation of each item.
- The total Depth (TD) from the Top of Well Casing to the Bottom of Well Point shall be field measured following installation.

PC: <u>5</u>	S: <u>10</u>
WP: <u>.4</u>	TD: <u>34.7</u>

Well Log No. MW30

Graphic Log	Location: See Exploration Plan Latitude: 41.9588° Longitude: -91.5608°	Installation Details Top Casing Elev (Ft.): 733.3	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Laboratory HP (tsf)	Water Content (%)	Atterberg Limits	
										LL-PL-PI	Percent Fines
	Depth (Ft.) Elevation: 730.8 (Ft.) +/- Well log updated due to 4 feet of fill placed after initial well was set.										
	4.0 726.8										
	FILL - LEAN CLAY , trace sand, dark brown, brown, gray		5			16	2-3-4-6 N=7				
	7.0 723.8										
	8.0 FILL - POORLY GRADED SAND , fine to coarse grained, brown					18	4-6-4-3 N=10				
	FILL - LEAN CLAY , trace sand, dark brown, brown, gray					18	2-4-5-8 N=9				
	10.0 720.8		10			20	4-6-6-7 N=12				
	FILL - SANDY LEAN CLAY , dark brown, brown, gray					22	3-4-4-4 N=8	0.75 (HP)			
	14.0 716.8										
	SANDY LEAN CLAY (CL) , trace gravel, brown, gray					20	2-4-4-6 N=8	1.75 (HP)			
	16.0 714.8		15			24	3-4-6-7 N=10	2.5 (HP)			
	LEAN CLAY (CL) , trace sand, with sand seams, brown, gray					24	2-3-3-3 N=6	0.75 (HP)			
	23.0 707.8		20			24	1-2-2-4 N=4	1.75 (HP)			
	LEAN CLAY (CL) , trace sand, brown, gray					20	3-6-6-7 N=12				
	26.0 704.8		25	▽		20	2-5-5-6 N=10		5.9		
	POORLY GRADED SAND (SP) , trace gravel and clay, fine to medium grained, brown					20	4-4-5-4 N=9		24.3		4
	33.0 697.8		30			18	3-3-3-3 N=6				
	POORLY GRADED SAND (SP) , trace gravel and clay, fine to coarse grained, brown					16	2-1-2-2 N=3				
	36.0 694.8		35			0	1-1-1-1 N=2				
	POORLY GRADED SAND WITH GRAVEL (SP) , trace clay, fine to coarse grained, brown, gray					20	1-17-28-25 N=45				
	Boring Terminated at 36 Feet										

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).
 See [Supporting Information](#) for explanation of symbols and abbreviations.

Water Level Observations
 ▽ 26' observed while sampling

Drill Rig
603
Hammer Type
Automatic
Driller
SZ

Notes
Well log updated due to 4 feet of fill placed after initial well was set.

Advancement Method
4-1/4" Hollow Stem Auger

Logged by
DCC
Well Started
07-21-2025
Well Completed
07-22-2025

Abandonment Method
Boring completed as a permanent monitoring well.

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Cedar Rapids Water Pollution Control Permit No.: PPW25-0027
Well/Piezometer No.: MW-30 Date Started: 7/22/25 Date Completed: 7/22/25
Applicable Requirements¹: 567 IAC 113 567 IAC 115 Site Permit
 567 IAC 114 567 IAC 139 Other: _____

A. SURVEYED LOCATION² AND ELEVATION OF POINT

Elevations (MSL): Ground Surface: 730.8 Top of Protective Casing: 733.8
Top of Well Casing: 733.3
Site Coordinates: Northing: _____ Easting: _____
World Coordinates: Latitude: 41.9593270 Longitude: -91.5599930
Elevation and Coordinate Systems: Decimal Degrees

B. SOIL BORING INFORMATION

Certified Well Contractor Terracon
Address 2640 12th St SW City, State, Zip Code Cedar Rapids, IA
Name of driller Scott Zeien Cert No. 5978
Drilling method Auger Drilling fluid none Bore hole diameter 8.25"
Soil sampling method Split-barrel Depth of boring 36'

C. MONITORING WELL INSTALLATION

Casing material: PVC Placement method: placed
Length of casing: 26.0' (includes stick up) Quantity: 3'
Casing diameter: 2" Backfill (if different from seal): Baroid Quik Grout
Casing joint type: threaded Material: Bentonite
Casing/screen joint type: threaded Placement method: tremie
Screen material: PVC Quantity: 18 (top 3.5' soil)
Screen opening size: 0.010 Surface seal design: _____
Screen length: 10' Material of protective casing: _____
Material of grout between protective casing and well casing: _____
Depth of Well: 36.4' (includes stick up and bottom point) Protective cap: Stick up
Filter Pack: Gravel packed Material: Steel
Material: PW Gillibrand Vented?: Y N Locking?: Y N
Grain Size: 16/30 Well cap: Torquer Locking Well Plug
Quantity: 14.5' Material: PVC with rubber gasket
Seal (minimum 3 ft. length above filter pack): Baroid Hole Plug Vented?: Y N
Material: Bentonite

D. GROUNDWATER MEASUREMENT (± 0.01 foot below top of inner well casing)

Water level 26 Stabilization time _____
Well development method Hand bailed 6 well volumes on 7/25/25
Average depth of frost line _____

Fill placed around monitoring well after completion,
see Terracon Well Log No. 30

¹ Refer to the site's permit to determine applicable requirements. Note that some sites may only be regulated by their permit versus current landfill chapters. If the permit and rule are silent regarding applicable requirements, then 567 IAC Chapter 39 shall apply, which requires use of the Well Log (Well Record) Form, not this form. If the applicable requirements have been modified and approved by the DNR, then note under Other.

² The location does not need to be surveyed by a licensed surveyor. A handheld GPS reading accurate to +/- 30 feet is acceptable when an aerial photograph showing the location (pin) is included with this form. The site coordinates should be the same coordinate system currently used for survey control and mapping of the site.

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

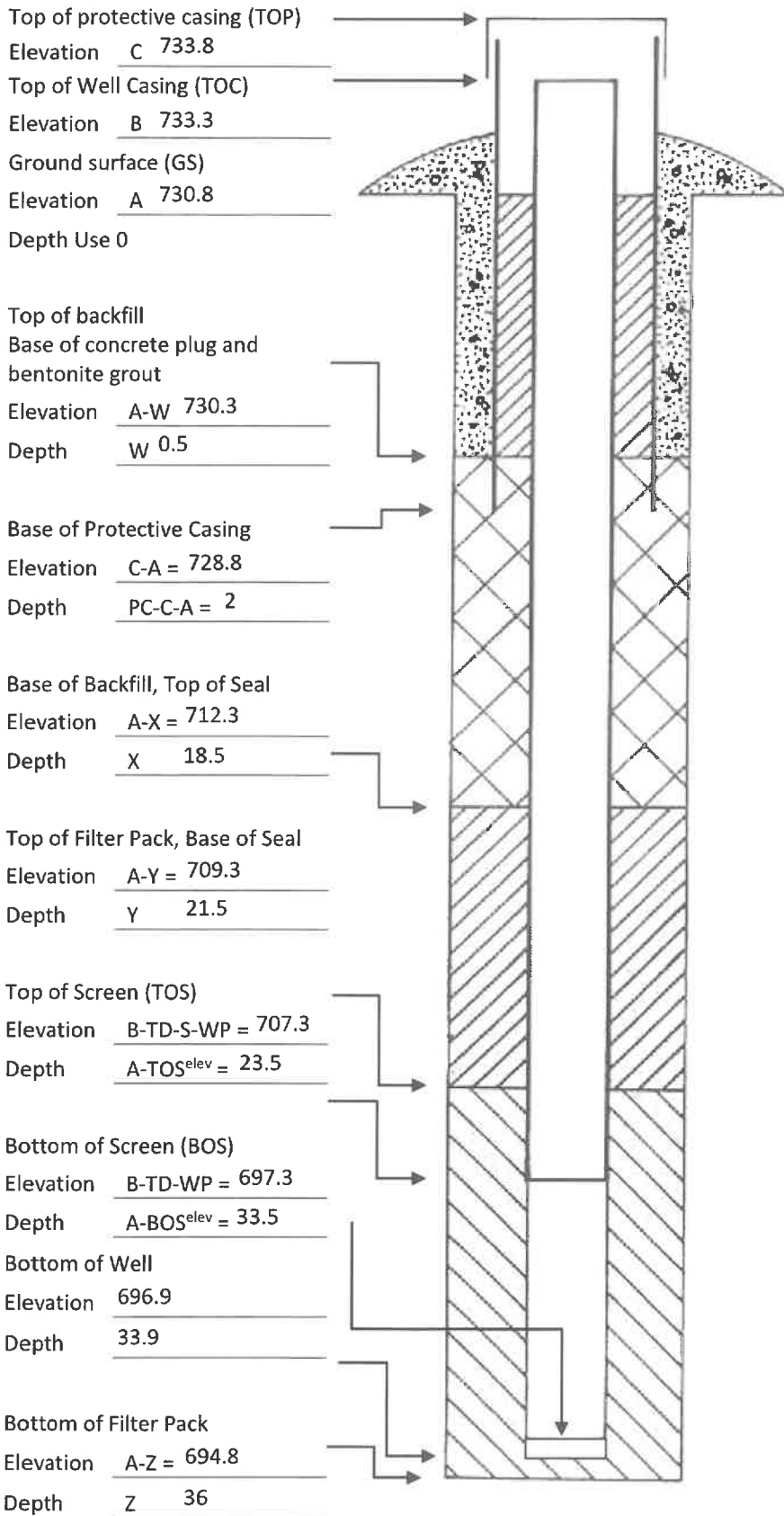
Signature Done Of 9351 for Scott Zeien **Certification #** 5978 **Date** 11/4/25

Note: Attach well log, boring log, and map showing new monitoring well/piezometer location in relation to existing wells or piezometers. Complete one form for each well plugged and submit within 30 days to the local county agent, DNR project officer, and Erik Day with the DNR's Water Supply Section at erik.day@dnr.iowa.gov. DNR prefers that the forms be completed and submitted electronically.

Well and Boring Logs

Elevations: ±0.01 ft. MSL

Depths: ±0.1 ft from Ground Surface



Required Data:

- Elevations for A, B, and C shall be surveyed.
- Depths for W, X, Y, and Z shall be field measured following completion of each item.
- Lengths of the Protective Casing (PC), Screen (S), and Well Point (WP) shall be field measured prior to installation of each item.
- The total Depth (TD) from the Top of Well Casing to the Bottom of Well Point shall be field measured following installation.

PC: <u>5</u>	S: <u>10</u>
WP: <u>.4</u>	TD: <u>36.4</u>

Well Log No. MW31

Graphic Log	Location: See Exploration Plan Latitude: 41.9586° Longitude: -91.5601°	Installation Details Top Casing Elev (Ft.): 734.3	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Laboratory HP (tsf)	Water Content (%)	Atterberg Limits	
										LL-PL-PI	Percent Fines
	Depth (Ft.) Elevation: 731.9 (Ft.) +/- Well log updated due to 3.5 feet of fill placed after initial well was set.										
	3.5 728.4										
	FILL - SANDY LEAN CLAY , trace gravel, brown, gray		5			18	1-1-3-4 N=4				
						24	3-3-5-7 N=8				
						20	3-4-4-5 N=8				
	9.5 722.4 LEAN CLAY (CL) , trace sand, brown, dark brown		10			20	3-5-5-6 N=10	3.0 (HP)			
						20	5-7-7-8 N=14	3.0 (HP)			
						20	3-5-5-6 N=10	1.75 (HP)			
	15.5 716.4 LEAN CLAY (CL) , trace sand, brown, gray		15			20	3-4-5-7 N=9	1.75 (HP)			
						20	3-4-4-4 N=8	1.5 (HP)			
						24	2-2-2-2 N=4	0.25 (HP)			
	21.5 710.4 LEAN CLAY (CL) , trace sand, with sand seams, brown, gray		20			20	2-2-2-3 N=4	0.75 (HP)			
	23.5 708.4 LEAN CLAY (CL) , trace sand and silt, gray					20	3-2-4-8 N=6	1.75 (HP)			
	25.3 706.6 POORLY GRADED SAND (SP) , trace gravel and clay, fine to medium grained, gray		25			24	5-7-8-7 N=15				
	27.5 704.4 POORLY GRADED SAND (SP) , trace gravel and clay, fine to medium to fine to coarse grained, brown, gray					24	3-4-4-5 N=8				
	29.5 702.4 POORLY GRADED SAND (SP) , trace gravel and clay, fine to coarse grained, gray		30			24	3-3-3-3 N=6				
						12	1-2-2-3 N=4				
	35.5 696.4 Boring Terminated at 35.5 Feet		35			12	2-2-2-3 N=4				

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).
 See [Supporting Information](#) for explanation of symbols and abbreviations.

Notes
 Well log updated due to 3.5 feet of fill placed after initial well was set.

Water Level Observations
 27' observed while sampling

Drill Rig
603

Hammer Type
Automatic

Driller
SZ

Advancement Method
4-1/4" Hollow Stem Auger

Abandonment Method
Boring completed as a permanent monitoring well.

Logged by
DCC

Well Started
07-21-2025

Well Completed
07-21-2025

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Cedar Rapids Water Pollution Control Permit No.: PPW25-0027
Well/Piezometer No.: MW-31 Date Started: 7/21/25 Date Completed: 7/21/25
Applicable Requirements¹: 567 IAC 113 567 IAC 115 Site Permit
 567 IAC 114 567 IAC 139 Other: _____

A. SURVEYED LOCATION² AND ELEVATION OF POINT

Elevations (MSL): Ground Surface: 731.9 Top of Protective Casing: 735.0
Top of Well Casing: 734.3
Site Coordinates: Northing: _____ Easting: _____
World Coordinates: Latitude: 41.9586 Longitude: -91.5601
Elevation and Coordinate Systems: Decimal degrees

B. SOIL BORING INFORMATION

Certified Well Contractor Terracon
Address 2640 12th St SW City, State, Zip Code Cedar Rapids, IA 52404
Name of driller Scott Zeien Cert No. 5978
Drilling method Auger Drilling fluid none Bore hole diameter 8.25"
Soil sampling method Split-barrel Depth of boring 35.5'

C. MONITORING WELL INSTALLATION

Casing material: PVC Placement method: placed
Length of casing: 24.2' (includes stick up) Quantity: 3'
Casing diameter: 2" Backfill (if different from seal): Baroid Quik Grout
Casing joint type: threaded Material: Bentonite
Casing/screen joint type: threaded Placement method: tremie
Screen material: PVC Quantity: 16.3' (top 3' soil)
Screen opening size: 0.010 Surface seal design: _____
Screen length: 10' Material of protective casing: _____
Material of grout between
Depth of Well: 34.6' (includes stick up and bottom point) protective casing and well casing: _____
Filter Pack: Gravel packed Protective cap: Stick up
Material: PW Gillibrand Material: Steel
Grain Size: 16/30 Vented?: Y N Locking?: Y N
Quantity: 15.7' Well cap: Torquer Locking Well Plug
Seal (minimum 3 ft. length above filter pack): Baroid Hole Plug Material: PVC with rubber gasket
Material: Bentonite Vented?: Y N

D. GROUNDWATER MEASUREMENT (± 0.01 foot below top of inner well casing)

Water level 27 Stabilization time _____
Well development method Hand bailed 6 well volumes on 7/25/25
Average depth of frost line _____

Fill placed around monitoring well after completion,
see Terracon Well Log No. 31

¹ Refer to the site's permit to determine applicable requirements. Note that some sites may only be regulated by their permit versus current landfill chapters. If the permit and rule are silent regarding applicable requirements, then 567 IAC Chapter 39 shall apply, which requires use of the Well Log (Well Record) Form, not this form. If the applicable requirements have been modified and approved by the DNR, then note under Other.

² The location does not need to be surveyed by a licensed surveyor. A handheld GPS reading accurate to +/- 30 feet is acceptable when an aerial photograph showing the location (pin) is included with this form. The site coordinates should be the same coordinate system currently used for survey control and mapping of the site.

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

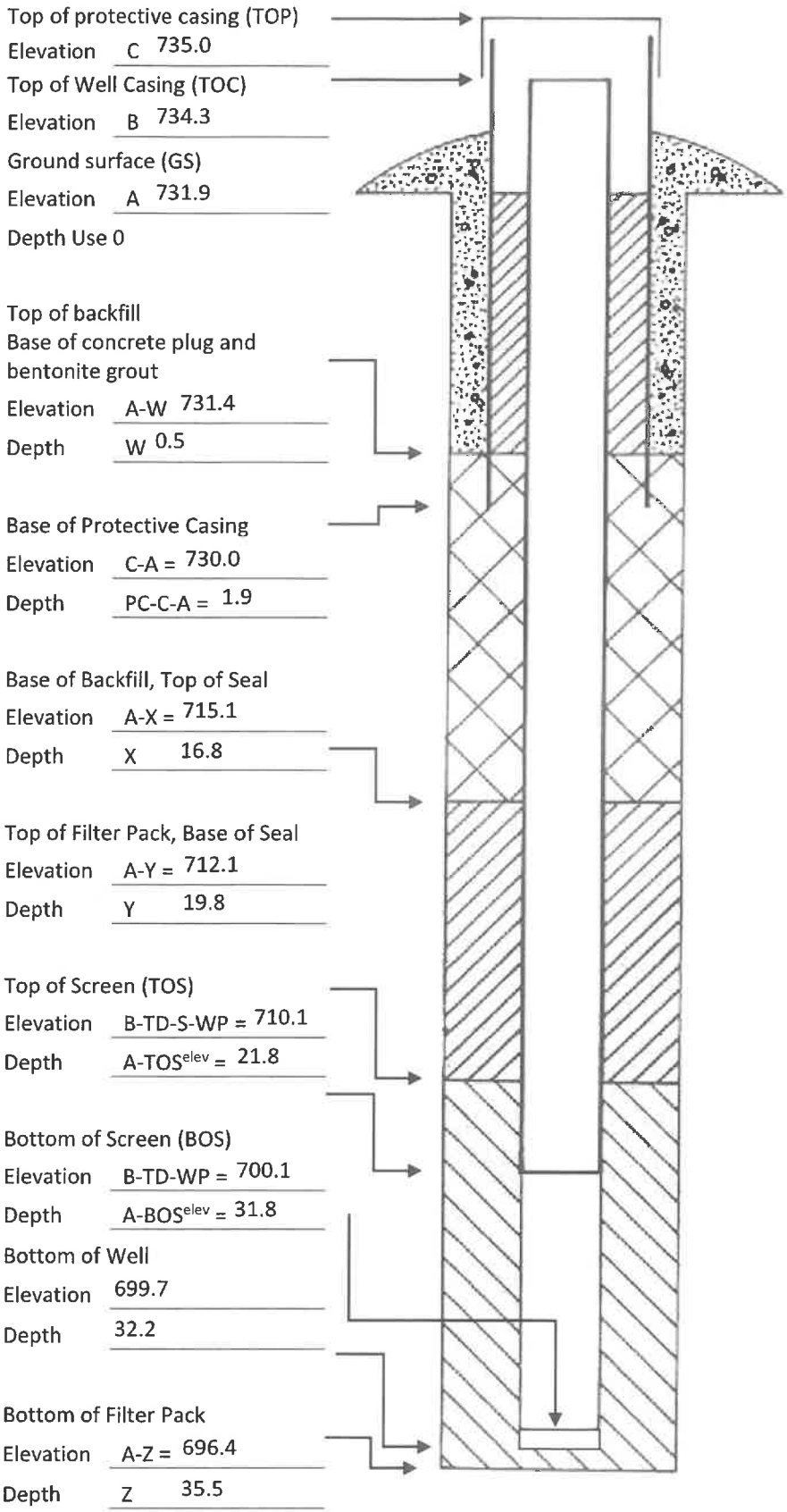
Signature Daily 9351 for Scott Zeien **Certification #** 5978 **Date** 11/4/25

Note: Attach well log, boring log, and map showing new monitoring well/piezometer location in relation to existing wells or piezometers. Complete one form for each well plugged and submit within 30 days to the local county agent, DNR project officer, and Erik Day with the DNR's Water Supply Section at erik.day@dnr.iowa.gov. DNR prefers that the forms be completed and submitted electronically.

Well and Boring Logs

Elevations: ±0.01 ft. MSL

Depths: ±0.1 ft from Ground Surface



Required Data:

- Elevations for A, B, and C shall be surveyed.
- Depths for W, X, Y, and Z shall be field measured following completion of each item.
- Lengths of the Protective Casing (PC), Screen (S), and Well Point (WP) shall be field measured prior to installation of each item.
- The total Depth (TD) from the Top of Well Casing to the Bottom of Well Point shall be field measured following installation.

PC: <u>5</u>	S: <u>10</u>
WP: <u>.4</u>	TD: <u>36</u>

Well Log No. MW32

Graphic Log	Location: See Exploration Plan Latitude: 41.9586° Longitude: -91.5597°	Installation Details Top Casing Elev (Ft.): 734.3	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Laboratory HP (tsf)	Water Content (%)	Atterberg Limits	
										LL-PL-PI	Percent Fines
	Depth (Ft.) Elevation: 731.7 (Ft.) +/- Well log updated due to 3.2 feet of fill placed after initial well was set.										
	3.2 728.5										
	5.2 726.5 FILL - LEAN CLAY , trace sand, brown, dark brown		5			6	2-2-2-3 N=4				
	9.2 722.5 FILL - LEAN CLAY , trace sand and gravel, dark brown, brown, gray					18	4-4-4-4 N=8				
	12.2 719.5 LEAN CLAY (CL) , trace sand, brown, dark brown		10			18	4-8-9-9 N=17				
	15.2 716.5 SANDY LEAN CLAY (CL) , trace gravel, dark brown					20	4-5-5-9 N=10				
	23.2 708.5 LEAN CLAY (CL) , trace sand, brown gray		15			20	6-6-6-7 N=12	1.0 (HP)			
	31.2 700.5 POORLY GRADED SAND (SP) , trace gravel and clay, fine to medium grained, gray		20			20	3-3-4-4 N=7	1.5 (HP)			
	35.2 696.5 POORLY GRADED SAND (SP) , trace gravel and clay, fine to coarse grained, gray		25			20	3-5-5-6 N=10	1.5 (HP)			
	Boring Terminated at 35.2 Feet		30			22	3-4-4-5 N=8	1.0 (HP)			
			35			24	2-3-3-4 N=6	1.75 (HP)			
						24	5-5-7-8 N=12	6.9			3
						24	3-6-6-7 N=12				
						24	5-5-5-6 N=10				
						24	3-4-4-3 N=8				
						12	1-1-1-2 N=2				
						14	1-1-1-2 N=2				

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).
 See [Supporting Information](#) for explanation of symbols and abbreviations.

Notes
 Well log updated due to 3.2 feet of fill placed after initial well was set.

Water Level Observations
 27' observed while sampling

Drill Rig
603

Hammer Type
Automatic

Driller
SZ

Advancement Method
4-1/4" Hollow Stem Auger

Abandonment Method
Boring completed as a permanent monitoring well.

Logged by
DCC

Well Started
07-21-2025

Well Completed
07-21-2025

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Cedar Rapids Water Pollution Control Permit No.: PPW25-0027
Well/Piezometer No.: MW-32 Date Started: 7/21/25 Date Completed: 7/21/25
Applicable Requirements¹: 567 IAC 113 567 IAC 115 Site Permit
 567 IAC 114 567 IAC 139 Other: _____

A. SURVEYED LOCATION² AND ELEVATION OF POINT

Elevations (MSL): Ground Surface: 731.7 Top of Protective Casing: 734.8
Top of Well Casing: 734.3
Site Coordinates: Northing: _____ Easting: _____
World Coordinates: Latitude: 41.9586 Longitude: -91.5597
Elevation and Coordinate Systems: Decimal degrees

B. SOIL BORING INFORMATION

Certified Well Contractor Terracon
Address 2640 12th St SW City, State, Zip Code Cedar Rapids, IA 52404
Name of driller Scott Zeien Cert No. 5978
Drilling method Auger Drilling fluid none Bore hole diameter 8.25"
Soil sampling method Split-barrel Depth of boring 35.2'

C. MONITORING WELL INSTALLATION

Casing material: PVC Placement method: placed
Length of casing: 25.6' (includes stick up) Quantity: 2.7'
Casing diameter: 2" Backfill (if different from seal): Baroid Quik Grout
Casing joint type: threaded Material: Bentonite
Casing/screen joint type: threaded Placement method: tremie
Screen material: PVC Quantity: 18' (top 2.7' soil)
Screen opening size: 0.010 Surface seal design: _____
Screen length: 10' Material of protective casing: _____
Material of grout between
Depth of Well: 36.0' (includes stick up and bottom point) protective casing and well casing: _____
Filter Pack: Gravel packed Protective cap: _____
Material: PW Gillibrand Material: Steel
Grain Size: 16/30 Vented?: Y N Locking?: Y N
Quantity: 14' Well cap: Torquer Locking Well Plug
Seal (minimum 3 ft. length above filter pack): Baroid Hole Plug Material: PVC with rubber gasket
Material: Bentonite Vented?: Y N

D. GROUNDWATER MEASUREMENT (± 0.01 foot below top of inner well casing)

Water level 27' Stabilization time _____
Well development method Hand bailed 6 well volumes on 7/25/25
Average depth of frost line _____

Fill placed around monitoring well after completion,
see Terracon Well Log No. 32

¹ Refer to the site's permit to determine applicable requirements. Note that some sites may only be regulated by their permit versus current landfill chapters. If the permit and rule are silent regarding applicable requirements, then 567 IAC Chapter 39 shall apply, which requires use of the Well Log (Well Record) Form, not this form. If the applicable requirements have been modified and approved by the DNR, then note under Other.

² The location does not need to be surveyed by a licensed surveyor. A handheld GPS reading accurate to +/- 30 feet is acceptable when an aerial photograph showing the location (pin) is included with this form. The site coordinates should be the same coordinate system currently used for survey control and mapping of the site.

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

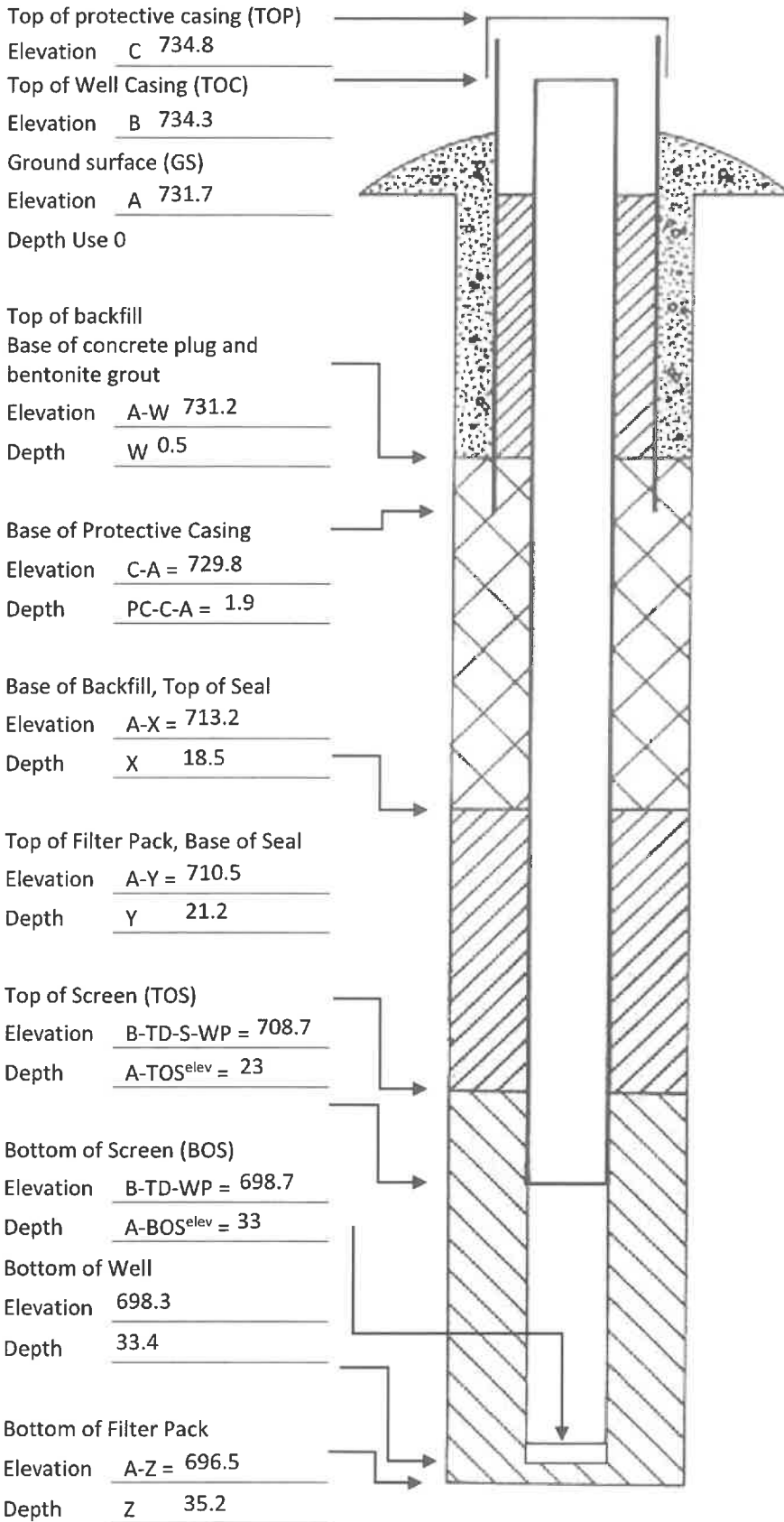
Signature Dan Day⁹³⁵¹ for Scott Zeien Certification # 5978 Date 11/4/25

Note: Attach well log, boring log, and map showing new monitoring well/piezometer location in relation to existing wells or piezometers. Complete one form for each well plugged and submit within 30 days to the local county agent, DNR project officer, and Erik Day with the DNR's Water Supply Section at erik.day@dnr.iowa.gov. DNR prefers that the forms be completed and submitted electronically.

Well and Boring Logs

Elevations: ±0.01 ft. MSL

Depths: ±0.1 ft from Ground Surface



Required Data:

- Elevations for A, B, and C shall be surveyed.
- Depths for W, X, Y, and Z shall be field measured following completion of each item.
- Lengths of the Protective Casing (PC), Screen (S), and Well Point (WP) shall be field measured prior to installation of each item.
- The total Depth (TD) from the Top of Well Casing to the Bottom of Well Point shall be field measured following installation.

PC: <u>5</u>	S: <u>10</u>
WP: <u>.4</u>	TD: <u>36</u>