MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: _____ Permit No.: _____

Well/Piezometer No.: _____ Date Started: _____ Date Completed: _____

Applicable Requirements[1]: ☐ 567 IAC 113 ☐ 567 IAC 115 ☐ Site Permit
☐ 567 IAC 114 ☐ 567 IAC 139 ☐ Other: _____

A. SURVEYED LOCATION[2] AND ELEVATION OF POINT

Elevations (MSL): Ground Surface: _____ Top of Protective Casing: _____

Top of Well Casing: _____

Site Coordinates: Northing: _____ Easting: _____

World Coordinates: Latitude: _____ Longitude: _____

Elevation and Coordinate Systems: _____

B. SOIL BORING INFORMATION

Certified Well Contractor _____

Address _____ City, State, Zip Code _____

Name of driller _____ Cert No. _____

Drilling method _____ Drilling fluid _____ Bore hole diameter _____

Soil sampling method _____ Depth of boring _____

C. MONITORING WELL INSTALLATION

Casing material

Length of casing: _____

Casing diameter: _____

Casing joint type: _____

Casing/screen joint type: _____

Screen material: _____

Screen opening size: _____

Screen length: _____

Depth of Well

Filter Pack: _____

Material: _____

Grain Size: _____

Quantity: _____

Well cap: _____

Material: _____

Vented?: ☐ Y ☐ N

Seal (minimum 3 ft. length above filter pack)

Material: _____

Placement method: _____

Quantity: _____

Backfill (if different from seal)

Material: _____

Placement method: _____

Quantity: _____

Surface seal design

Material of protective casing: _____

Material of grout between protective casing and well casing: _____

Protective cap

Material: _____

Vented?: ☐ Y ☐ N Locking?: ☐ Y ☐ N

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[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.

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

Water level _____ Stabilization time _____

Well development method _____

Average depth of frost line _____

DRILLER'S CERTIFICATION

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

Signature _____ **Certification #** _____ **Date** _____

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 Daniel Watterson with the DNR's Water Supply Section at Daniel.Watterson@dnr.iowa.gov. DNR prefers that the forms be completed and submitted electronically.

Well Diagram

Elevations: ±0.01 ft. MSL

Depths: ±0.1 ft from Ground Surface

Top of protective casing (TOP)

Elevation C

Top of Well Casing (TOC)

Elevation B

Ground surface (GS)

Elevation A

Depth Use 0

Top of backfill

Base of concrete plug and bentonite grout

Elevation A-W

Depth W

Base of Protective Casing

Elevation C-PC =

Depth PC-(C-A) =

Base of Backfill, Top of Seal

Elevation A-X =

Depth X

Top of Filter Pack, Base of Seal

Elevation A-Y =

Depth Y

Top of Screen (TOS)

Elevation B-(TD+SW+P) =

Depth A-TOS^{elev} =

Bottom of Screen (BOS)

Elevation B-TD =

Depth A-BOS^{elev} =

Bottom of Well

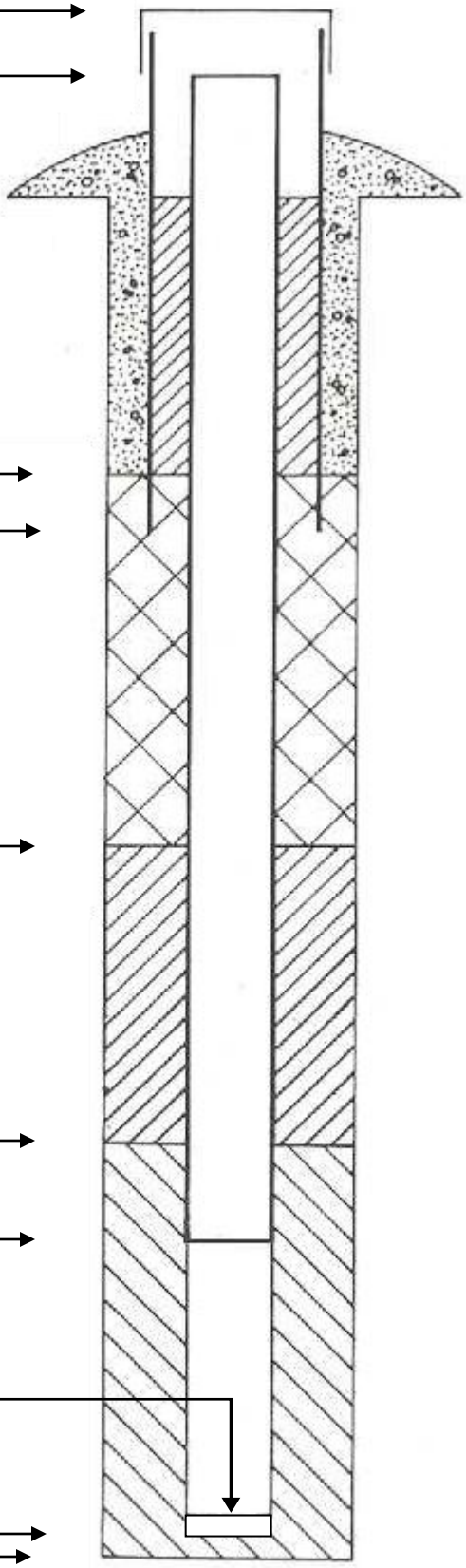
Elevation

Depth

Bottom of Filter Pack

Elevation A-Z =

Depth Z



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: _____ S: _____

WP: _____ TD: _____

Well Casing Length TD-S-WP =

Backfill Thickness X-W =

Seal Thickness Y-X =

Filter Pack Thickness Z-Y =

Questions? Call or Email: Brian Rath, 515-537-4051, brian.rath@dnr.iowa.gov