

From: Mott, Andrew <Andrew.Mott@aecom.com>
Sent: Monday, October 30, 2023 5:45 PM
To: Neste, David E - DNR
Cc: Esch, Bryant K.; Fogle, Derek A.; Henderson, David; Kaemmer, Emily; Weseljak, Robert
Subject: RE: SIWP Addendum, WFI Plant #4, BRRTS # 02-38-584102

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Dave,

Please note the corrected elevations in the below as highlighted yellow and correct elevation in red.

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From: Mott, Andrew
Sent: Monday, October 30, 2023 5:41 PM
To: david.neste@wisconsin.gov
Cc: Esch, Bryant K. <Bryant.Esch@waupacafoundry.com>; Fogle, Derek A. <Derek.Fogle@waupacafoundry.com>; Henderson, David <Dave.Henderson@aecom.com>; Kaemmer, Emily <Emily.Kaemmer@aecom.com>; Weseljak, Robert <ROBERT.WESELJAK@aecom.com>
Subject: SIWP Addendum, WFI Plant #4, BRRTS # 02-38-584102

Dave,

As requested in a October 18, 2023, email from the Department, AECOM is providing this SIWP addendum for the next phase if SI activities at the Waupaca Foundry, Inc., Plant #4 site in Marinette, WI. The original scope of work was previously described in Section 6 of AECOM's 2022 *Continued Site*

Investigation Per-and Polyfluoroalkyl Substances report for BRRTS No. 02-38-584102, dated July 13, 2023.

The Department requested that the originally proposed WP be amended to include a double cased well installation for the newly proposed piezometer at location PZ-3A. Therefore, AECOM's SIWP scope of work is amended with the following:

Stratigraphy:

The on-site ground surface elevation at the existing well nest MW-3/PZ-3 is approximately 588 msl.

Piezometer PZ-3, installed during the last round of drilling, is screened at the interface of two units, an upper alluvial sand and a lower lean clay/silt layer (bottom of screen at approx. 30 ft bgs or 560 558 msl).

We anticipate that the lower lean clay/silt aquitard extends to bedrock, or to just above bedrock, where there may be a more permeable layer.

The exact depth to/elevation of bedrock on-site is unknown. Given our limited knowledge of the stratigraphy gained from the surrounding area, AECOM anticipates bedrock maybe encountered as shallow as 50 48ft bgs (540 msl).

Double Casing Install:

Drill double cased well with sonic. All soil borings will be logged continuously. The goal of the piezometer installation is to install the bottom of screen just above or just touching bedrock.

A 10" casing will be advanced approximately 40 ft bgs to elevation 548 msl and terminated in the clay/silt aquitard. A Sch. 40 black pipe permanent casing will be installed to this elevation. This will provide approximately 12 ft of double casing to isolate the impacts in the upper alluvial sand from the lower aquifer.

The casing is then grouted in place with tremie pipe install to bottom open borehole and grouted to surface with cement/bentonite grout. Grout will be allowed to cure before drilling 6" sonic deeper through casing. Once casing is grout is cured drilling will be advance to desired depth.

If bedrock is approx. 50 48 ft bgs (540 msl) this will leave 8 ft below the double casing to install a NR 141 well/piezo with a 5 ft screen, 1 ft coarse sand, 1 ft fine sand, and then bentonite seal. The bottom elevation of the double casing may be adjusted downward in the field based with additional stratigraphy data obtained from drilling the PZ-4A and PZ-5A wells.

The piezometer will be install with a 2" Sch. 40 PVC 5' screen and riser pipe well be lowered to bottom of borehole. Filter pack/fine sand and 3/8" Holeplug bentonite seal will be installed and tremie grouting of the annular space above bentonite seal to ground surface. Well completion of flush grade or stickup well covers installed to protect and complete the well installation.

Please let AECOM know if you have any questions and we look froward to your approval or SI scope of work.

Thank you

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