



January 21, 2026

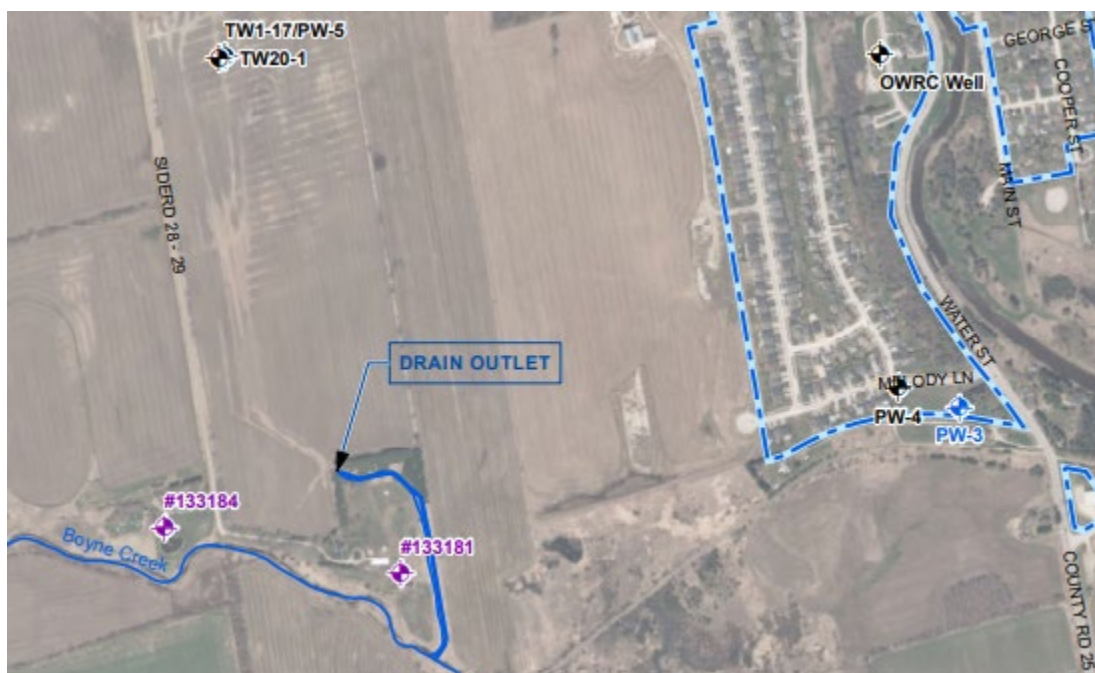
**Via: Email**

Ms. Meghan Townsend, MPS, B.Sc.  
CAO/Clerk Treasurer  
Town of Grand Valley  
5 Main Street North  
Grand Valley ON L9W 5S6

Dear Ms. Townsend:

**Re: Domestic Well Interference Claim  
133181 Sideroad 28 & 29  
Project No.: MSA167260.2025**

The Town of Grand Valley's (Town) newest municipal well, PW5 is located on the western edge of the community on lands that front at the intersection of Sideroad 28 & 29 and Concession Road 2/3. The surrounding properties are not currently municipally serviced, and as a result, individual wells are used to provide water for residential and agricultural purposes. The Roberts private domestic well that supplies 133181 Side Road 28 & 29 has experienced reported interference from operation of PW5 during original testing and then again late in 2025.

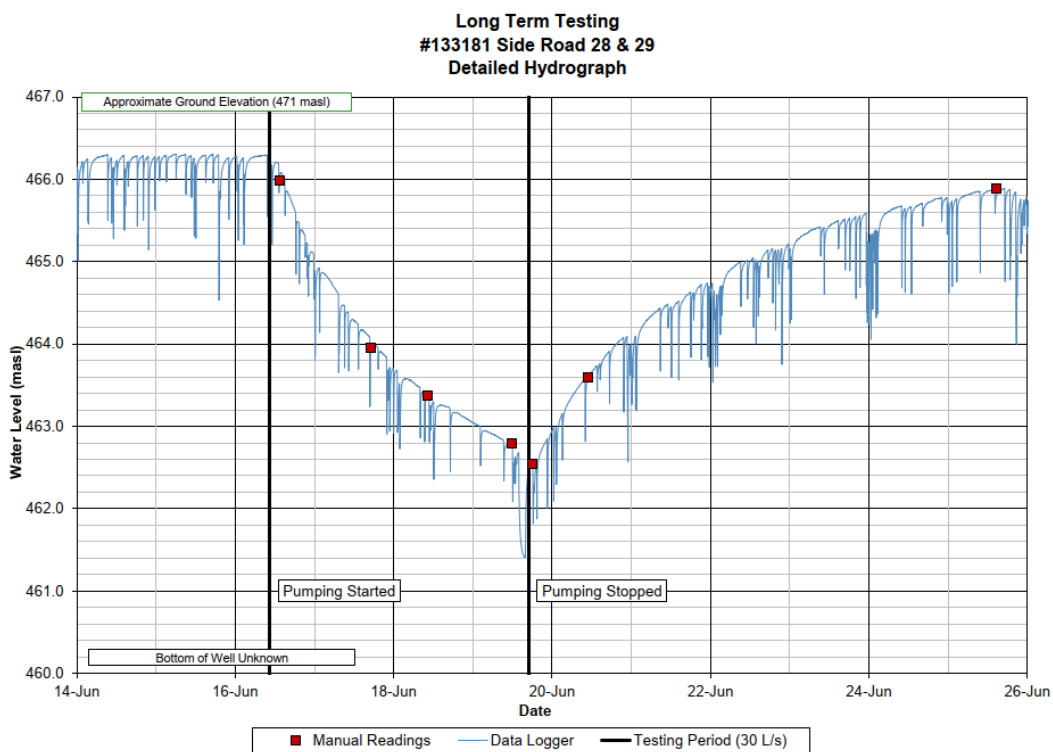


## Background – 2020 PW5 Pumping Test and Roberts Well Interference

The Roberts well was initially monitored during the original 2020 testing of PW5. The top of the Roberts well consists of a 140 mm (5.5 inch) nominal diameter steel casing and is located in a concrete pit, presumably a former dug well. The Roberts well is equipped with a single-line jet pump installed in the pit. No MECP water well record could be correlated for the Roberts well. The depth of the well was measured to be about 12 m below grade.

In the initial 2020 R.J. Burnside & Associates Limited (Burnside) discussion with Mr. Roberts prior to monitoring the well in 2020, he reported a recent decrease in performance. He indicated that this reduced capacity corresponded to the development of the Mayberry Phase 3 subdivision located about 350 m northeast of the well.

The PW5 long-term pumping test was completed from June 16 to 19, 2020. Burnside was informed that the Roberts well was no longer producing water on June 19, 2020, and pumping stopped to allow water levels to recover. The graph of water levels for the Roberts well prior to, during, and after the test are shown in the graph below. The graph shows 1 m water level variations due to operation of the Roberts well pump and the large 3.5 m decline due to PW5.



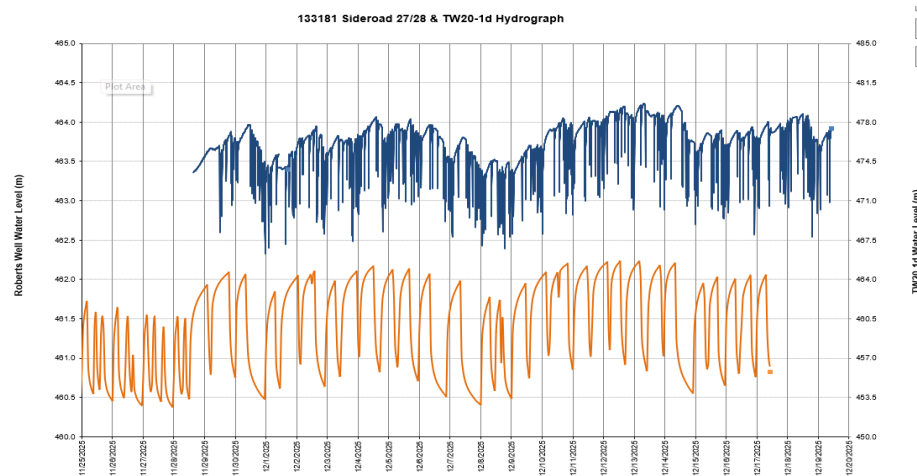
The Roberts water system was upgraded in October 2020 (several months after the test) with a new pump and pressure tanks to ensure it would provide a suitable supply. The well contractor, Hopper Well Drilling (Hopper), measured the well depth at approximately 12.5 m below ground using a probe line and completed a down hole video. The static water level was measured to confirm that the water level had recovered to the level measured before the PW5 pumping test. This well was identified in the hydrogeological report as a potential long-term interference problem.

## 2025 Roberts Well Interference Complaint

On Friday November 28, 2025, Mr. Roberts called Town staff and reported that his well pump had failed and was not producing water. Burnside staff visited the well on the same day and found water levels were at relatively low levels similar to those experienced during the 2020 testing of PW5.

Discussion between Burnside and Dufferin Water Co indicated that pumping rates at PW5 had been higher than typical for four days (November 24 to 28, 2025) while repairs were being made to the chlorinator at Wells 1 and 2. It was interpreted that this above typical operation of PW5 likely led to the interference with the Roberts Well.

As required by Section 5.1 of the Grand Valley Permit to Take Water (PTTW) 0135-C2KLHM, the local District Office was notified of the interference complaint, and the homeowner was provided with a temporary water supply. The PW1 and PW2 chlorinators were repaired by noon on Friday November 25, 2025, and pumping at PW5 was shut down. Water levels recovered slowly over the weekend and the Roberts well was able to resume operation on Sunday November 27, 2025. The graph below shows the Roberts well (blue) and PW5(Brown) beginning in November 2025. It shows the Roberts well declines in response to PW5.



## Roberts Well Assessment

A review of MECP well records for the area was completed to better understand the Roberts Well water supply and how it responds to PW5. The well records for other wells in the area indicate that the bedrock is encountered at a depth of about 30 m below grade and there are no suitable aquifers above the bedrock.

It is therefore interpreted that the Roberts well was originally completed with steel casing that extended down to the bedrock at about 30 m. This black steel casing likely corroded and collapsed at a depth between 12 and 30 m. This collapse would reduce the flow of water up from the bedrock aquifer and limit the ability to install a pump / intake below this collapsed casing.

Section 5.1 of the Grand Valley PTTW states that *"If permanent interference is caused by the water taking, the Permit Holder shall restore the water supplies of those permanently affected"*.

It is Burnside's interpretation that the Roberts Well is affected by the operation of PW5. Normally the restoration of the Roberts water supply would be completed by installing a new submersible pump or lowering the intake to a deeper depth. This is not possible due to the poor condition of the Roberts well.

As the Town's population grows there will be a need to increase pumping of PW5 which will eventually result in ongoing impacts to the Roberts well. To maintain the Roberts water supply the water system requires an upgrade to avoid interference issues. Burnside recommends that the existing marginal well be replaced with a new 15 cm diameter well completed in the bedrock. Once a new well is drilled and equipped with a new submersible pump the existing well should be abandoned.

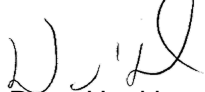
Burnside has obtained an estimate of \$24,000.00 from Well Initiatives limited (WIL) to drill a new well to a depth of 60 m (200 feet). The cost does not include a pump or associated appurtenances which are estimated to be approximately \$8,000.00. The abandonment of the existing well will also be required. The cost for this would be approximately \$5,000.00. The GRCA has a program to assist rural property owners with the costs of abandoning old unused wells that may be used in this case.

Considering the poor condition of the existing well we recommend that the Town enter into a cost sharing agreement with the Roberts Well property owner for a portion of the costs to drill a new well. As part of this agreement, the existing well should be properly abandoned, and the homeowner should consent to having the new well included in the ongoing monitoring program to track the response of the bedrock aquifer in this area.

Should you have any questions, please contact the undersigned.

Yours truly,

**R.J. Burnside & Associates Limited**



Dave Hopkins, B.Sc., P.Geo.  
Hydrogeologist  
DH:af

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