November 26, 2024

1370443 Ontario Limited
c/o RSM Canada
11 King Street West Suite 700, Box 27
Toronto, ON
M5H 4C7

Attn: John Regan

Re: Supplementary Groundwater Level Monitoring
The Queensway and Fordhouse Drive
Toronto, Ontario

Hydrogeology Consulting Services Inc. (HCS) was retained by 1370443 Ontario Limited c/o RSM Canada to conduct three months of groundwater elevation monitoring at the above-referenced property as part of a hydrogeological investigation for the above-referenced property to satisfy the City of Toronto's Terms of Reference. This supplementary report should be appended to the HCS Hydrogeological Investigation and Construction Dewatering Assessmen report (dated November 7, 2023).

Water levels were manually measured using an electronic water level tape in five monitoring wells on the property at the start of the three-month monitoring program (September 20, 2023). Electronic pressure transducers (dataloggers) were installed in each of the five monitoring wells on the property to continuously record changes in water level during the monitoring period (September 20 – December 22, 2023).

The attached Table 1 provides a summary of water levels manually measured below ground surface related to a geodetic datum (i.e. metres above sea level).

Unfortunately, upon compiling and graphing the datalogger data it appears there are significant anomalies in three of the hydrographs. Figure 2 (MW 3) shows the measured water level in December 2023 corresponding with the manual measurement; however, the September measurement appears to be approximately 1.8 m higher and incorrect. Figure 4 (MW 5) shows the measured water level in December 2023 corresponding with the manual measurement; however, the September measurement appears to be approximately 3 m higher and incorrect. Figure 5 (MW 6) shows the measured water level in December 2023 corresponding with the manual measurement. While the September measurement appears to correlate relatively well with the manual measurement there still a variation of approximately 0.9 m.

Figure 1 (MW 1) and Figure 3 (MW 4A) appear to correlate generally well with the manual measurements at the start and end of the monitoring program.

The reasons for these anomalies and the erroneous datalogger data are not readily apparent. While the barologger data for the project was lost due to a corrupted barologger, the major variations in data seen in MW 3, MW 5, and MW 6 could not be a result of barometric pressure fluctuations. The slight variations in MW1 and MW4 could potentially be explained by barometric pressure.

Within the context of this summary memo it is concluded the datalogger data from MW 3, MW 5, and MW 6 should not be relied upon. While Figures 2, 4, and 5 are included for reference and discussion purposes, the manual measurements included in Table 1 are relied upon for MW 3, MW 5, and MW 6 to assess the groundwater fluctuations during the monitoring program.

Based on the observations and discussions above, it is concluded that the overall change in measured groundwater elevations beneath the subject property between September 20, 2023 and December 22, 2023 was approximately 0.7-2.25 m. This fluctuation is within typical ranges of amplitude for shallow groundwater monitoring programs conducted by HCS across Southern Ontario. It is anticipated the approximately 4 m fluctuation observed in MW 6 is anomalous and not reflective of typical groundwater trends.

We trust this report satisfies your present requirements, and we thank you for this opportunity to be of service. If you have any questions, or require further hydrogeological consulting services, please feel free to contact the undersigned directly.

Respectfully submitted,

Chris Helmer, B.Sc., P.Geo.
Senior Hydrogeologist
MECP Licensed Well Contractor and Class 5 Well Technician
www.hydrog.ca

encl. Table 1 – Groundwater Level Measurements
encl. Figures 1-5 – Measured Groundwater Elevations Hydrographs

The Queensway and Fordhouse Boulevard, Etobicoke
Table 1 - Groundwater Level Measurements

Name	Ground Surface Elevation (m)	Stickup (m)	20-Sep-23			22-Dec-23		
			WL (mBTOP)	WL (mBGS)	WL (m)	WL (mBTOP)	WL (mBGS)	WL (m)
BH1	101.60	-0.12	3.54	3.66	97.95	2.89	3.01	98.60
BH3	100.00	-0.13	3.20	3.33	96.68	0.94	1.07	98.94
BH4A	100.52	-0.12	2.53	2.65	97.88	1.83	1.95	98.58
BH5	100.27	-0.10	3.40	3.50	96.77	0.49	0.59	99.68
BH6	101.83	-0.05	7.23	7.28	94.55	3.19	3.24	98.59

m - metres (respective to local datum)
mBGS - metres Below Ground Surface
mBTOP - meters Below Top

FIGURE 1
MW1 - GROUNDWATER LEVEL MEASUREMENTS
September 20, 2023 - December 22, 2023
The Queensway and Fordhouse

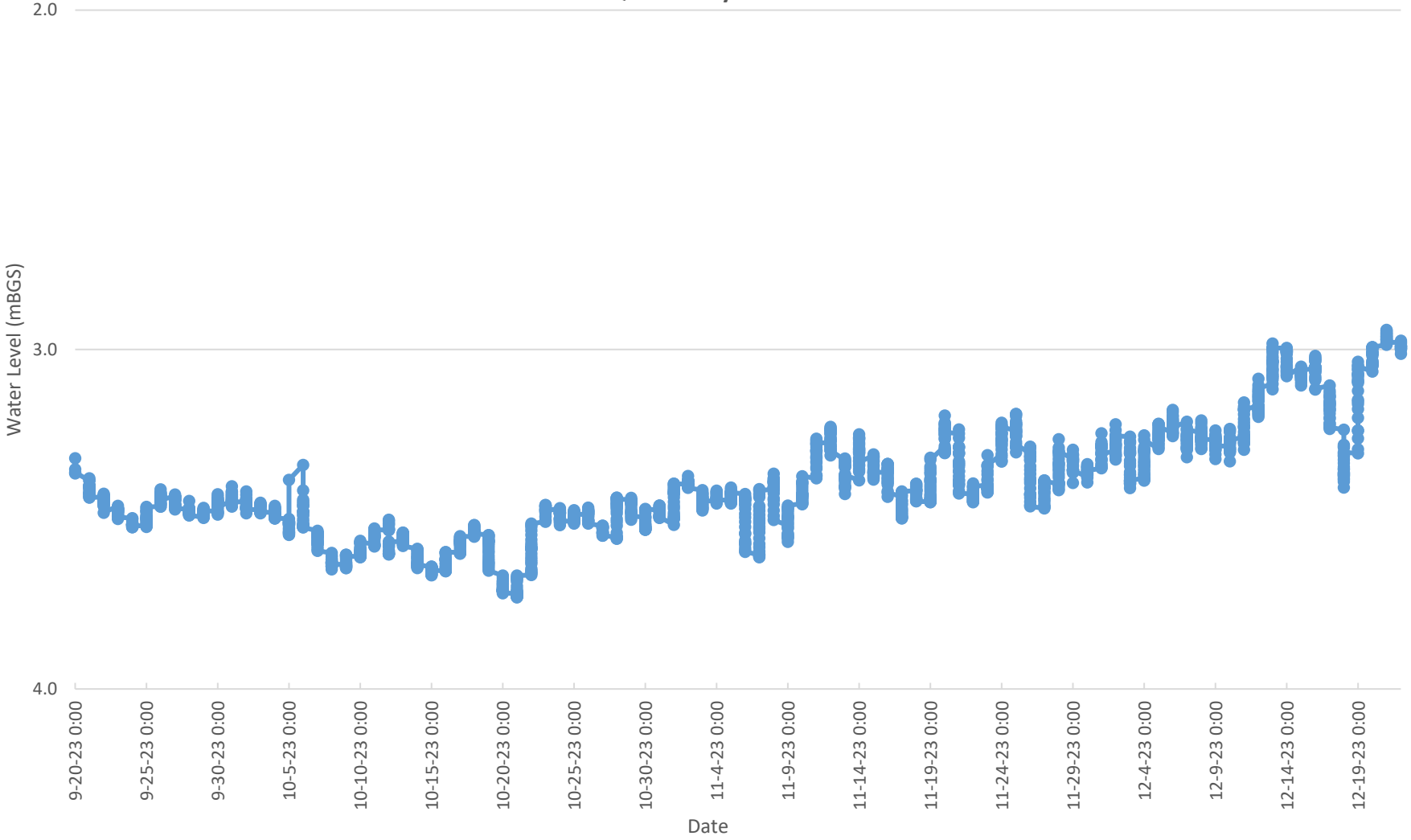

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FIGURE 2
MW3 - GROUNDWATER LEVEL MEASUREMENTS
September 20, 2023 - December 22, 2023
The Queensway and Fordhouse

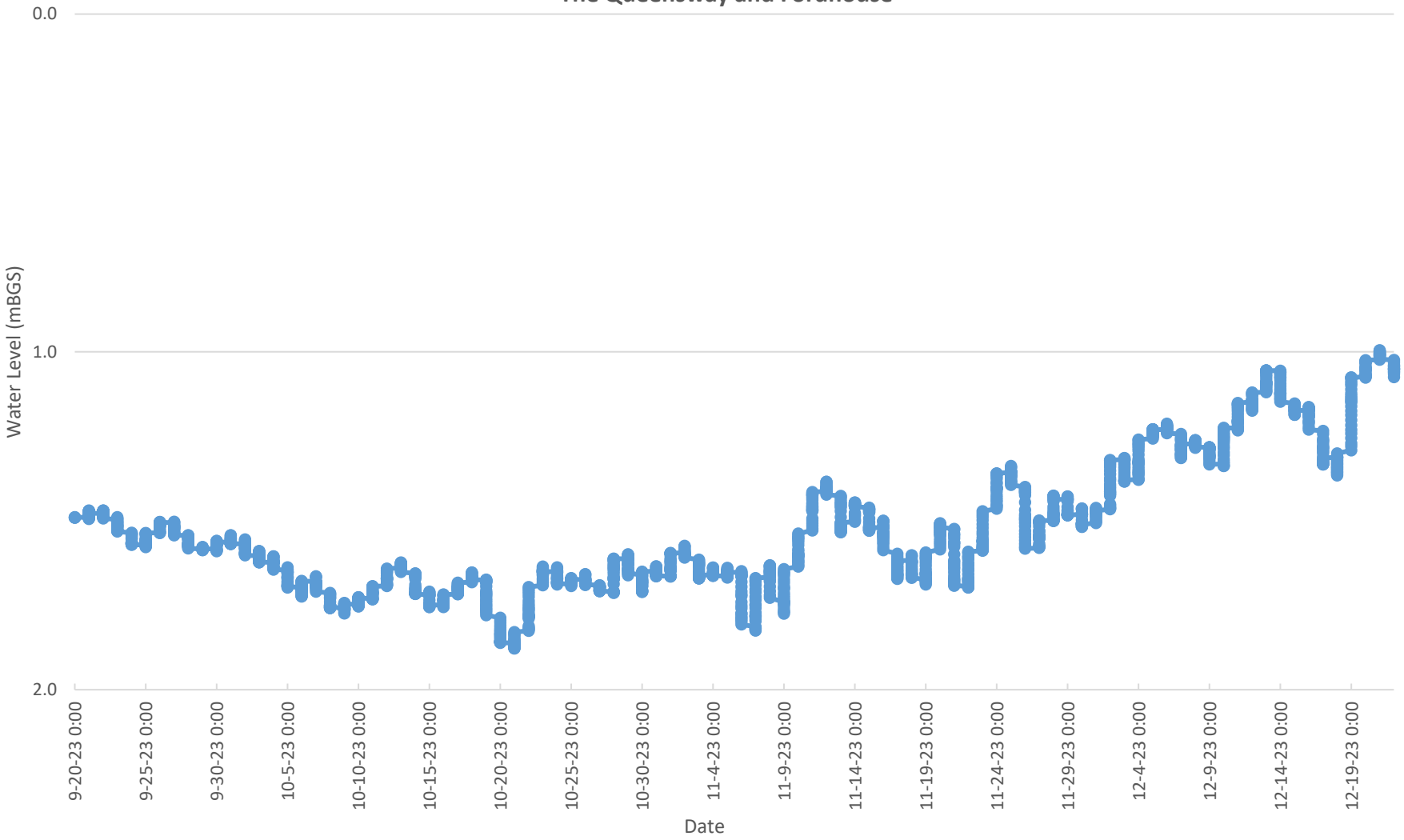

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FIGURE 3
MW4A - GROUNDWATER LEVEL MEASUREMENTS
September 20, 2023 - December 22, 2023
The Queensway and Fordhouse

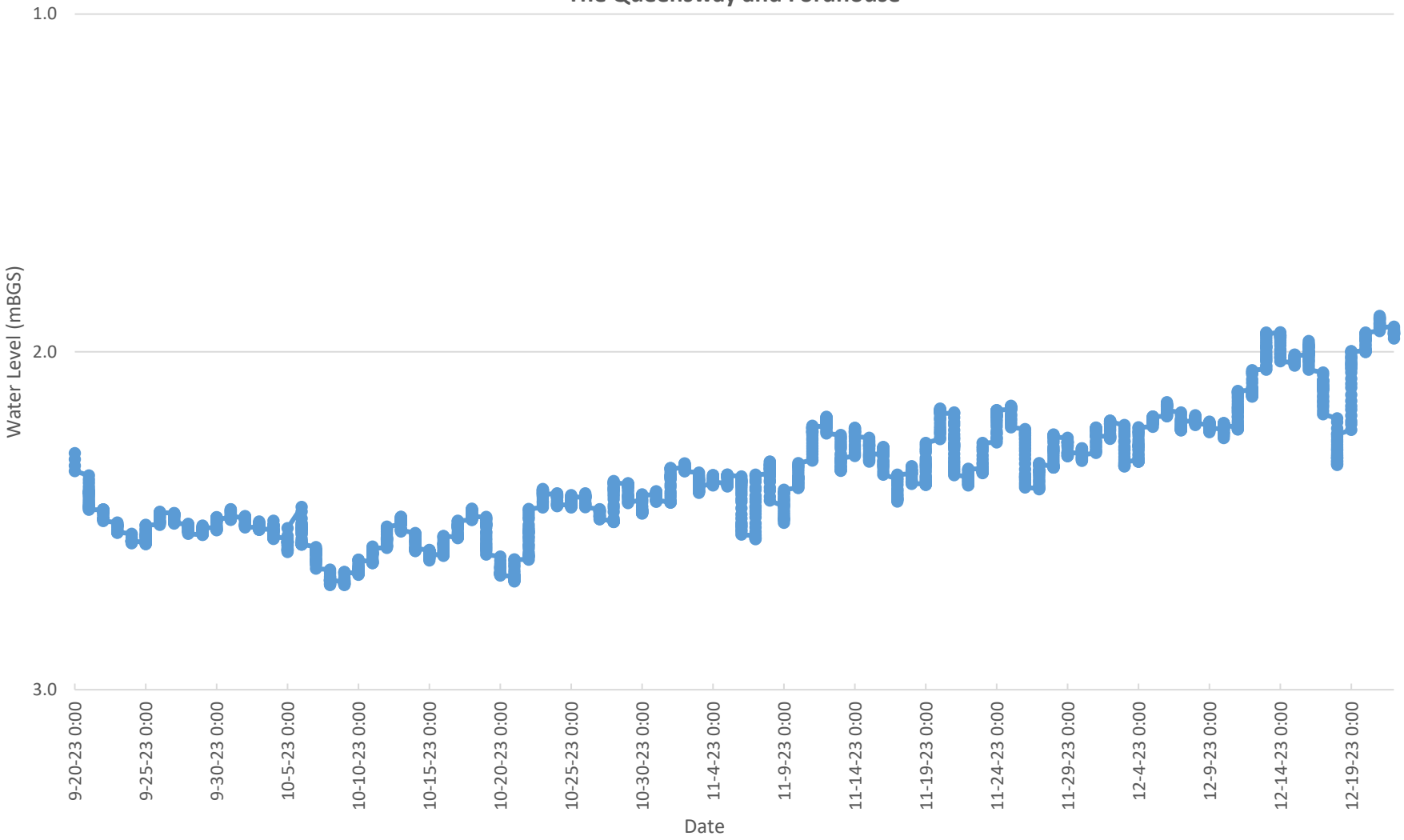

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FIGURE 4
MW5 - GROUNDWATER LEVEL MEASUREMENTS
September 20, 2023 - December 22, 2023
The Queensway and Fordhouse

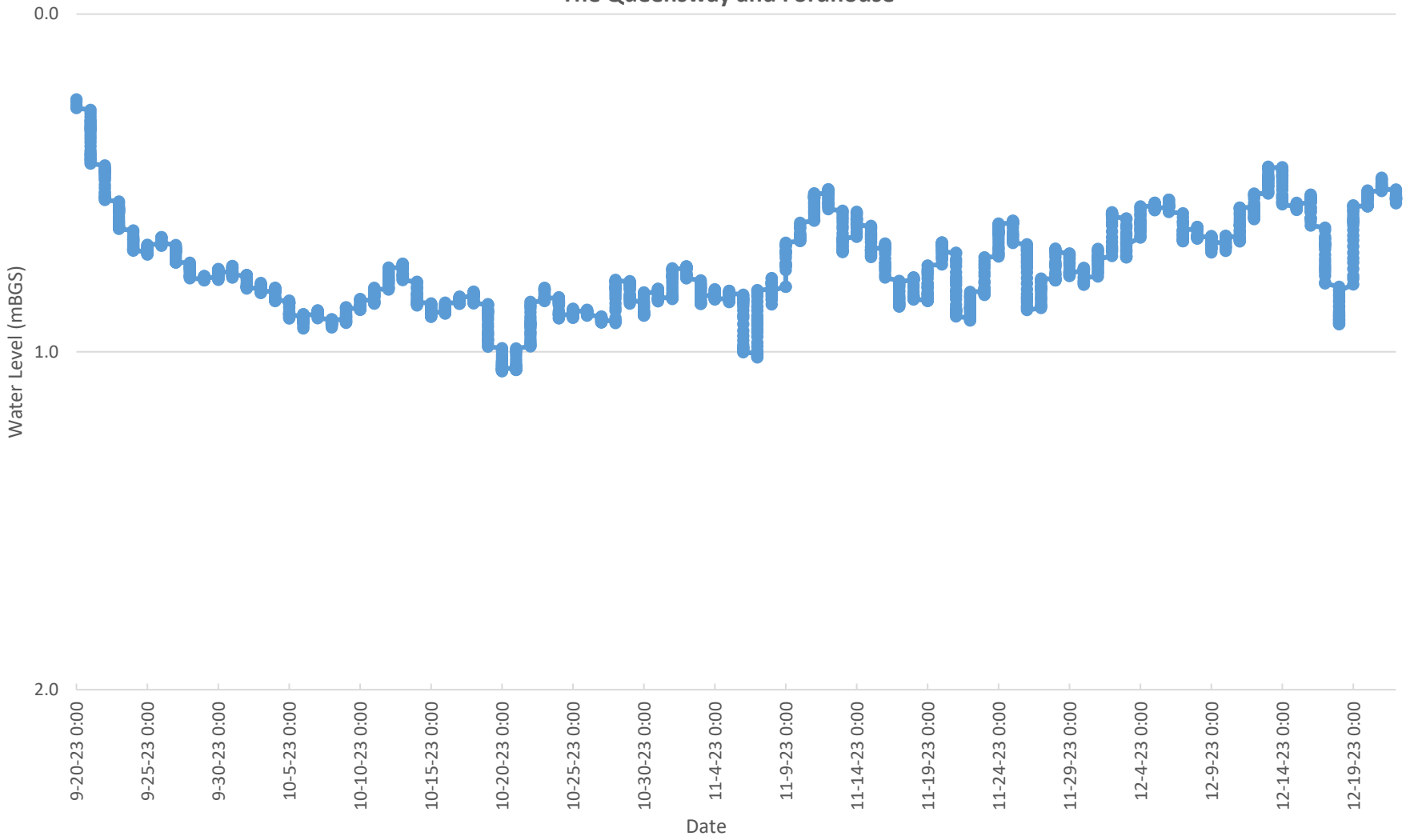

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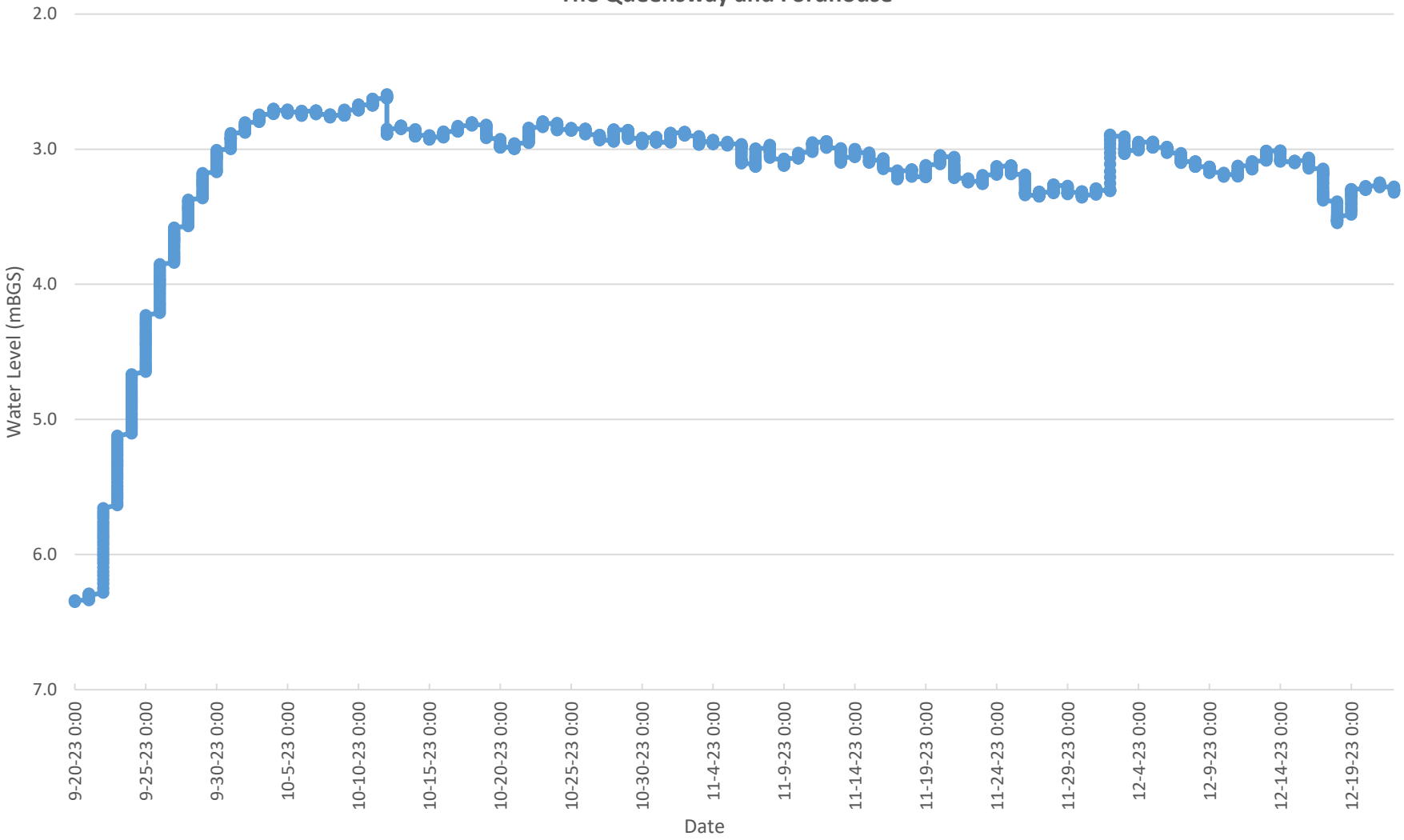
FIGURE 5
MW6 - GROUNDWATER LEVEL MEASUREMENTS
September 20, 2023 - December 22, 2023
The Queensway and Fordhouse



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