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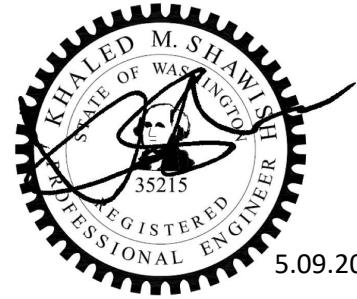
MEMORANDUM

DATE: May 9, 2023

TO: James Funston

FROM: Khaled M. Shawish, PE
Katelyn S. Brower, GIT

RE: Groundwater Monitoring
Funston 5-Lot Short Plat Groundwater Monitoring
12527 – 51st Avenue NE
Marysville, Washington
NGA File No. 13837B22



5.09.2023

This memorandum presents the results of our recent shallow groundwater monitoring at the site of the proposed residential development at **12527 – 51st Avenue NE in Marysville, Washington.**

INTRODUCTION

We previously prepared a geotechnical report for the site titled *“Geotechnical Engineering Evaluation – Funston Short Plat Development and Infiltration – 12527 - 51st Avenue NE, Marysville, Washington,”* dated **October 31, 2022**. We understand project plans include short platting the site into 5-lots. We did not encounter any groundwater during the dry season explorations as described within the previous report, to depths of 10-feet. We determined a long-term infiltration rate of 10-inches per hour within the coarse Marysville Sand. We understand that development plans required monitoring throughout one wet season, which was completed.

GROUNDWATER MONITORING

We visited the site on September 27, 2022 to perform the explorations, as well as install two piezometers within Test Pits 2 and 4, to a depth of 8.5- and 9.0-feet below the ground surface.

The installed piezometer consisted of a perforated 1.25” PVC pipe, and the void spaces in the pit were filled with pea gravel and capped with a surficial seal of topsoil. At the time of installation, no groundwater was encountered. General soils encountered across the site included a surficial layer of topsoil and outwash sands at depth.

We monitored the groundwater levels approximately every month starting the day of the explorations on September 27, 2022 and through April 27, 2023. Water level readings were taken with a water level indicator. No water was encountered within the wells on any of our five site visits during the wet season.

CONCLUSIONS

It is our opinion, based on the data obtained from the groundwater monitoring, that the site is suitable for stormwater infiltration. No groundwater was encountered within 10 feet below the existing ground surface. Since groundwater was not encountered, a mounding analysis will not be needed. We do not anticipate that groundwater will impact proposed infiltration systems that have a depth of up to 5.0 feet within the site, based on our explorations and monitoring results.

We trust this memorandum should satisfy your needs at this time. Please contact us if you have any questions or require additional services.

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