

30 May 2017

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Transport and Infrastructure Policy  
Planning and Environment Department  
Sunshine Coast Council

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**MONTHLY GROUNDWATER MONITORING – INFILTRATION BASIN  
EARNSHAW STREET, GOLDEN BEACH**

Dear Yolanda,

Core Consultants Pty Ltd (Core) is pleased to present the results of the twelfth round of monthly groundwater level monitoring at the above site. Groundwater levels are continually monitored via a Level TROLL installed in the groundwater monitoring well within the infiltration basin.

The twelfth round of data download was undertaken on 30 March 2017 and the raw data was then processed to develop hydrographs depicting groundwater level fluctuations against tidal movements and rainfall events for the past month.

The hydrograph results generally indicate that groundwater levels within the infiltration basin have been commonly slightly below the ground surface level and are predominantly influenced by localised rainfall events with some minor tidal influence also being observed. However, results from the March 2017 monitoring round highlight an overall increase in the groundwater level (most likely localised groundwater mounding beneath the infiltration basin). The groundwater mounding appears to be a result of the significant rainfall events which occurred in March 2017.

The hydrographs, showing comparisons of groundwater level fluctuations against tidal ranges and rainfall, are attached.

Your attention is drawn to the document Limitations, which is attached to this letter. Should you require any further information, please contact the under signed on (07) 5475 5900.

Yours sincerely,

**CORE CONSULTANTS PTY LTD**



**Samuel Rouse BSc.Env**  
Environmental Scientist

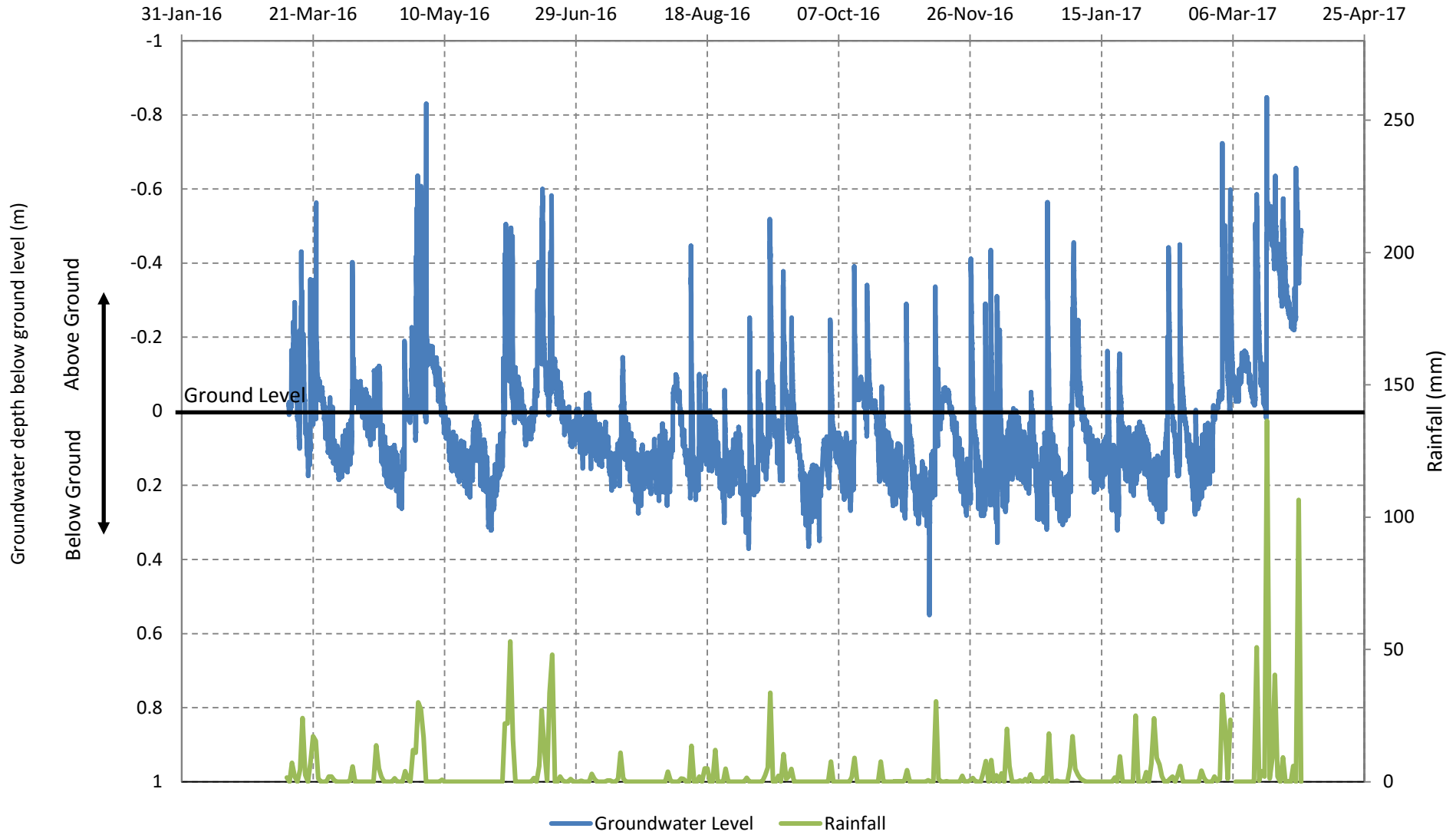
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Attachments: Hydrographs  
Limitations

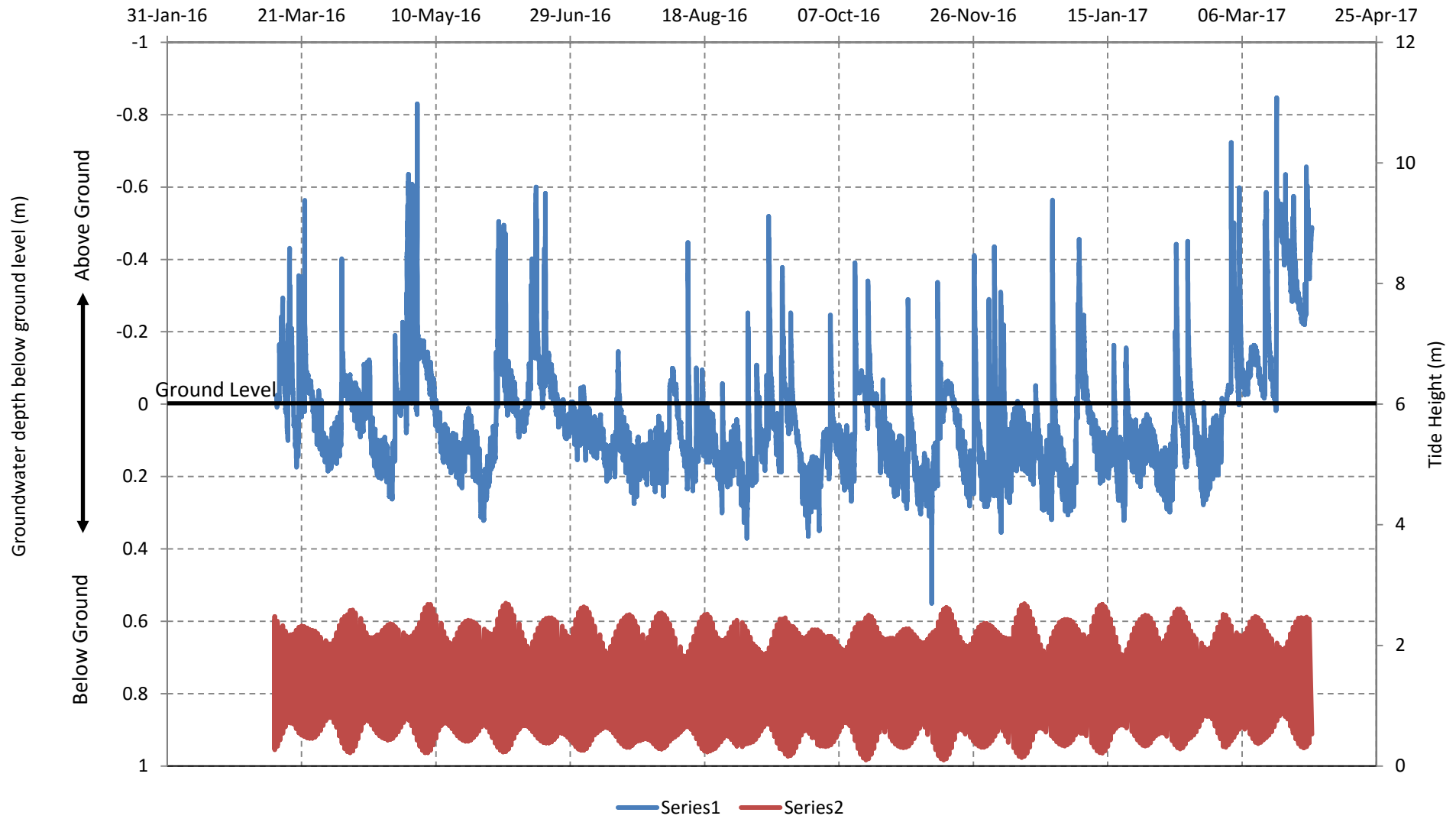


**Josh Mitchell Bsc. MEIANZ CPSS2 CEnvP**  
Associate/Senior Environmental Scientist

### Hydrograph for Infiltration Basin (Rainfall)



### Hydrograph for Infiltration Basin (Tidal)



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