

- (1) locates the purple pipe out of site which may be required in a resort area such as Kaanapali.
- (2) secures it in a location where tampering, vandalism, accidental impacts (vehicles etc.), storm damage etc. are virtually eliminated.
- (3) eliminates pipe bends and reaction blocks (reducing time/cost) where it must transition from above ground to below ground to allow vehicular and pedestrian crossings.
- (4) allows for secure lateral connections to customers.
- (5) eliminates accelerated deterioration of the pipe due to changing temperatures, sunlight and other weather elements such as extreme rainfall and flooding events.
- (6) reduces costs for physical inspection and maintenance.

While portions of the pipeline will be below groundwater, the majority is expected to be above the groundwater level at the time of installation. This may change over time with the expected sea level rise, however it should not have a detrimental effect during the useful life of the asset.

Above ground installation is an alternative; however, the only real reason would be to showcase the use of recycled water in the resort and/or also use the pipe as a sort of barricade. Unfortunately, that brings into play the above issues.

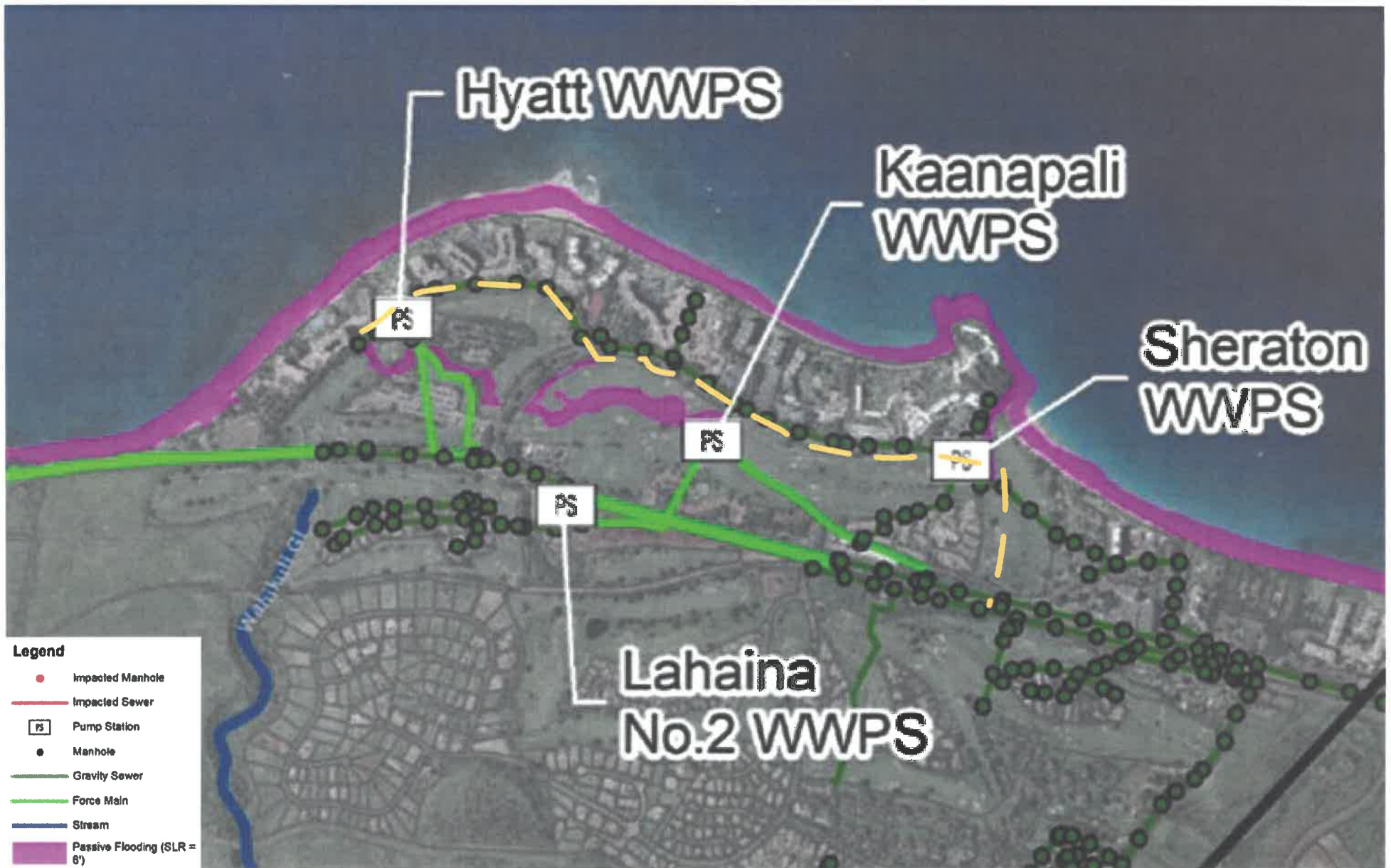
Thank you for the opportunity to provide you with information on this matter. Should you have any questions or concerns, please feel free to transmit them to the Department of Environmental Management via transmittal through the Office of the Mayor.

Sincerely,

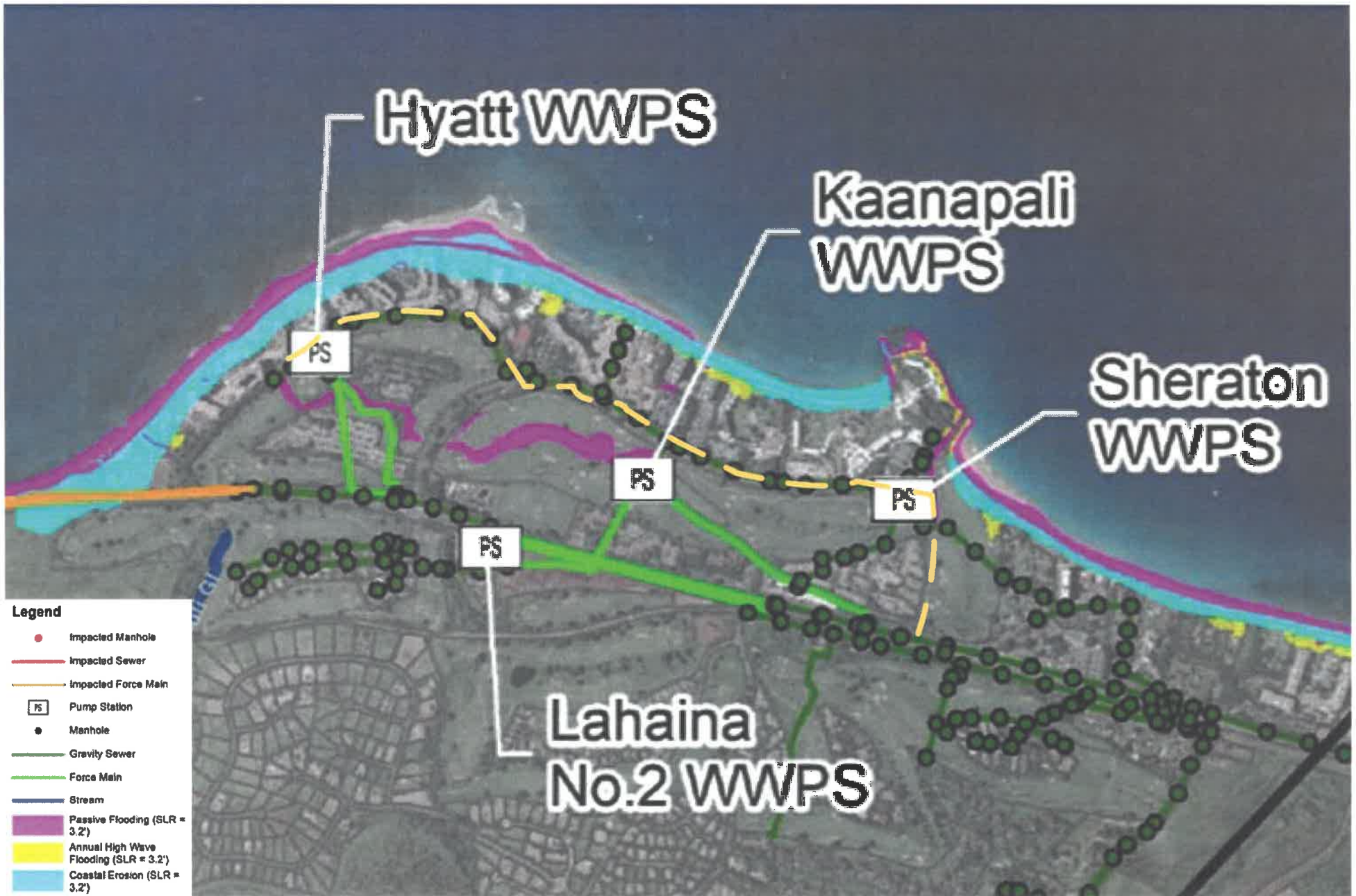


Digitally signed by Eric A. Nakagawa, P.E.
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ERIC A. NAKAGAWA, P.E.
Director of Environmental Management



6 Foot Sea Level Rise



Impacts at 3.2 Feet of SLR