

forwarded message:

From: Bill Sager <bsager42@gmail.com>

Date: October 19, 2018 at 8:56:35 PM GMT-4

To: daniel.e.ordenker@hawaii.gov, 10B8G@logemail.lessannoyingcrm.com

Subject: Testimony - Hawaiian Memorial Park Expansion

I think the HMP Property Management Plan as represented by the EIS is a good plan and a vast improvement over the original plan. I am particularly impressed by the depth of the cultural surveys and the provisions made to protect cultural sites and resources.

I have one reservation. The drainage plan provides for retention of a 100 year storm. However, I cannot find a definition of what a 100 year storm will consist of. Climate scientists forecast extreme droughts punctuated by extreme storms will be the future for Hawaii's climate. Category 4 & 5 hurricanes will be come the norm rather than the exceptions.

Predictions based on historic data are no longer valid.

I believe the retention basins should be built to minimize the runoff from an Cat 5 storm. If that is not practical then a lesser design must be able to handle overflow without a danger of the retaining dam washing out.

I recommend the liberal use of rain gardens which will serve as retention ponds, serve as pollution sumps and increase infiltration into the ground water. This will help to recharge the wells used for irrigation. Rain Gardens are attractive landscaping features and will help reduce the inflow into retention basins.

I recognize HMP is not obligated to mitigate potential flooding caused by a major storm. But I believe HMP is obligated to build retention basins that will not wash out and result in a mini-flash flood down stream.

If your plan can satisfactorily address my drainage concerns I can fully support the development plan and the final EIS

--

Bill Sager, 808-375-1114

WRKG2GTHR, LLC

Create resilience in your life.