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STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES

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December 21, 2018

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KAWAII ISLAND RESERVE COMMISSION  
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TO: Jeff Pearson, Deputy Director  
Commission on Water Resource Management

THROUGH: Brian Neilson, Program Manager *pn*

FROM: *sh* Skippy Hau, Aquatic Biologist  
Division of Aquatic Resources

SUBJECT: Comments on Alexander and Baldwin, Inc. SDWP.4915.6

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COMMISSION ON WATER  
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I reviewed the Category 2 SDWPA attachment and have the following comments.

Stream Flow Restoration in Pi'ina'au (Palauhulu) Stream

(W-22; W-22b; L-17) We strongly support the sealing of grates and removal of the sluice gate as a first step. We strongly recommend removal of infrastructure (Photo 3/Figure 3A) and (Photo4/Figure3B) dams that have been built within the stream to funnel water to the intakes.

The proposed actions will help restore stream flow but natural stream habitat must also be restored to allow 'o'opu, opae and hihiwai to migrate upstream.

Stream Flow Restoration in East and West Wailuanui Streams

Table of Pi'ina'au (Palauhulu) Stream Diversions.

(K-27; K-28; K-29) Full restoration has not yet been determined.

K-26 removal of sluice gate; K-30 seal gratings; K-29a diversion tunnel will be sealed with rock and concrete; K-30a removal of pipe; K-30c removal of pipe; K-31a removal of pipe(s).

We strongly agree on the removal of pipes but will the rock/concrete channel or catch basins also be removed?

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Why is work restricted to "tunnel" while some in-stream modifications such as walls and dams would also need to be removed.

We strongly recommend the restoration of natural stream habitat. The existing irrigation system continues to divert some streams at four different elevation/locations.

Additional diversions also exist on tributary streams. These have not been fully described in the overall discussion. We strongly recommend all diversions be modified or removed. These "historic" modifications have helped make the irrigation systems highly efficient to capture water but prohibit the natural migration of native stream species.

We also need full descriptions of "pipes that transport stream water over ditches" in certain locations. If streams are to be modified to flow over specific ditches, continuous stream flow to the ocean will be necessary.

Thank you for the opportunity to review this application.