

# **EXHIBIT E-2**

**Galli Group**

**Evaluation of Receiving Dock  
Substructure**



02-4584-01  
April 21, 2011

## MEMO

**TO:** Brian Nicholas, P.E.  
**FROM:** Bill Galli  
**SUBJECT:** **Diver and Geotechnical Evaluation  
Pacific Seafood Dock Piling  
Port of Brookings Harbor**

The bottom of exposed sections of the wood piling supporting the Pacific Seafood Dock were visually inspected by the divers during the week of April 11, 2011. They found that between 0.5 and 1.5 feet of the exposed piling just above the mud line had no barnacle growth. This would indicate that approximately this depth of bottom materials had been scoured away during the tsunami surge in March of this year. The divers found no other “damage” to the piles below the water line.

A visual review of the exposed structure of piles, timbers, sheet pile and concrete walls and jumbled together slope support back under the dock was accomplished by an engineer from The Galli Group. This revealed that portions of the sheet pile bulkhead appeared to be bowing outward in the center (top to bottom of exposed area). It also revealed that portions of the bank at the far east edge beneath this dock had support supplied by a mixture of concrete pieces, timbers and piles just sort of stacked or jammed together. This area appears to be sort of “unraveling” a bit, with some areas exhibiting what appears to be some bank “failure”. It is possible that some of this “damage” could have been caused or exacerbated by the tsunami surge. However, we are not sure that this is the case.

Large cracks in the concrete dock above indicate lateral stresses and movements have been taking place. The condition of the cracking would indicate this is not a new phenomenon but has been taking place for many years.

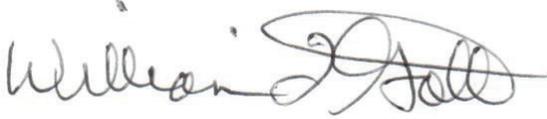
At this time, in our opinion, it would be somewhat of a stretch to conclude that the disrepair/damage to this dock was caused by the tsunami. Removing 0.5 to 1.5 feet of material from around the top of the piles does not compromise their vertical capacity. The movements observed near the east edge of the dock appear more related to long-term loading, tide and water effects rather than a one-time surge. Therefore, it appears that

unless other evidence of tsunami damage has been found by others, further evaluation of this dock is not warranted.

It should be noted however, that the south end where the Pacific Seafood Dock abuts against the Receiving Dock area must be evaluated to make sure it will sustain any construction loads imposed upon it during the reconstruction of the Receiving Dock area. This area may require some temporary support during demolition and construction activities.

Respectfully,

**THE GALLI GROUP**  
**GEOTECHNICAL CONSULTING**

A handwritten signature in black ink, appearing to read "William F. Galli". The signature is written in a cursive style with a large, sweeping flourish at the end.

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William F. Galli, P.E., G.E.  
Senior Principal Engineer

CC: Jack Akin