



Williams, Marshall <marshall_williams@fws.gov>

[EXTERNAL] BNSF SJC: USFWS BA Pile Driving BMP Question RE: USFWS

1 message

PaDelford, Sue S. <Sue.PaDelford@jacobs.com>

Fri, Dec 7, 2018 at 4:34 PM

To: "Fischer, Steven M CIV" <Steven.M.Fischer3@uscg.mil>, "Sugarman, Shelly CIV" <Shelly.H.Sugarman@uscg.mil>, "Moore, James M CIV" <James.M.Moore2@uscg.mil>, "Smith, Jason (Seattle)" <Jason.Smith6@jacobs.com>
Cc: "marshall_williams@fws.gov" <marshall_williams@fws.gov>, "Broadhead, Craig" <Craig.Broadhead@jacobs.com>, "Keim, Matthew" <Matthew.Keim@bnsf.com>, "Bordenave, Pierre" <Pierre.Bordenave@jacobs.com>

Steve, et al -

I spoke with Marshall Williams, USFWS this afternoon about not including the pile driving BMP of using a wood or mycarta block (cushion) for attenuating hydroacoustic impacts.

I shared with Marshall that during project planning discussions with the Design Team (BNSF, Hanson, and a bridge contractor/consultant) the use of a cushion for the larger piles (24" at Sand Creek and 36" at LPO) can be logistically problematic during set-up and driving. The cushion (wood or mycarta) tend to break early on in the impact process rendering them ineffective for attenuation, but requiring removal from the impact hammer in order for it to function properly and safely.

Consequently, the BMPs for fish protection that are referenced and proposed in the BA (use of a vibratory driver when possible, air bubble curtains during impact driving, and a floating silt or turbidity curtain) were the best management minimization measures (MMs) for attenuation, for this project. The analysis included the 3 dB reduction expected from the use of these MMs into the project specific impact calculators and analysis to determine the 'worst case scenario' aquatic impact zone described in the BA.

I hope this helps to clarify Marshall's question. Please don't hesitate to contact me or Craig Broadhead with additional questions.

Thank you,
Sue.

-----Original Message-----

From: Fischer, Steven M CIV <Steven.M.Fischer3@uscg.mil>

Sent: Tuesday, December 04, 2018 10:57 AM

To: Sugarman, Shelly CIV <Shelly.H.Sugarman@uscg.mil>; Moore, James M CIV <James.M.Moore2@uscg.mil>;

PaDelford, Sue S. <Sue.PaDelford@jacobs.com>

Cc: marshall_williams@fws.gov

Subject: [EXTERNAL] USFWS

Shelly, Jim, Sue,

Got a question from Marshall Williams (ccd) that I can't answer. In the document there is no reference to BMPs for fish protection...specifically BMPs for pile driving to dampen the hydro acoustics noise (cushion blocks (wood)) is there a reason this is absent? Here is Marshalls phone number if you need to discuss 509-891-0450.

Thanks

Steve Fischer
13th Coast Guard District
Waterways Management (dpw)
Bridge Administrator/Chief
Thirteenth Coast Guard District
[REDACTED]

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