

**From:** [BrownScott, Jennifer](#)  
**To:** [Thomas, Sue](#)  
**Subject:** Re: FYI: Aquaculture discussion  
**Date:** Wednesday, April 14, 2021 8:39:32 AM

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I assumed those were tears of joy over having some assistance from the RO. I've never been so happy to listen to Kevin talk about the intricacies of inventory and monitoring planning and reporting.

-jennifer

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Jennifer Brown-Scott  
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Washington Maritime National Wildlife Refuge Complex  
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Sequim, WA 98382  
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[~~Dungeness NWR~Protection Island NWR~San Juan Islands NWR~Copalis NWR~Flattery Rocks NWR~Quillayute Needles NWR~~](#)

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**From:** Thomas, Sue <sue\_thomas@fws.gov>  
**Sent:** Wednesday, April 14, 2021 8:37 AM  
**To:** BrownScott, Jennifer <jennifer\_brownScott@fws.gov>  
**Subject:** Re: FYI: Aquaculture discussion

Thank you, I needed the levity. Even if not intended...

Sue Thomas  
Wildlife Biologist  
Washington Maritime NWRC  
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**From:** BrownScott, Jennifer <jennifer\_brownScott@fws.gov>  
**Sent:** Wednesday, April 14, 2021 8:12 AM  
**To:** Thomas, Sue <sue\_thomas@fws.gov>  
**Subject:** FYI: Aquaculture discussion

FYI: Thought you might be interested in some of the discussion re: aquaculture monitoring plan (below).

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[~~Dungeness NWR](#)~[Protection Island NWR](#)~[San Juan Islands NWR](#)~[Copalis NWR](#)~[Flattery Rocks NWR](#)~[Quillayute Needles NWR](#)~~

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**From:** Kilbride, kilb <kevin\_kilbride@fws.gov>  
**Sent:** Wednesday, April 14, 2021 8:03 AM  
**To:** Sissi Bruch <sbruch@jamestowntribe.org>; BrownScott, Jennifer <jennifer\_brownScott@fws.gov>; Loverti, Vanessa <vanessa\_loverti@fws.gov>  
**Cc:** Hansi Hals <hhals@jamestowntribe.org>; Elizabeth Tobin <etobin@jamestowntribe.org>  
**Subject:** Re: [EXTERNAL] Documents for our meeting on Monday

Hi, All:

For today's meeting, I believe we'll be discussing development of resource management and sampling objectives for a survey(s) to assess effects on migratory birds (e.g., brant, shorebirds). As I mentioned during our previous call, paired resource management and sampling objectives are the foundation for the development of survey protocols. In fact, a survey's sampling design, data management, data analysis, and reporting should be focused on addressing the survey's sampling objective(s).

In the survey protocol handbook that I previously shared, please refer to pages 11-13 for more information about management and sampling objectives. For the process that refuges use to develop their SMART resources management objectives, see the attached Identifying Refuge Resources of Concern and Management Priorities Handbook, where I had the opportunity to contribute to the development of the current (2017) and initial (2010) versions of this handbook. Plus, I spent 10 years of my FWS career assisting refuge staffs with development of SMART (specific, measurable, achievable, results oriented, and time specific) resource mgmt objectives for their Comprehensive Conservation Planning (CCPs) and stepdown Habitat Management Planning (HMPs).

I look forward to our discussion today.

Kevin Kilbride  
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**From:** Sissi Bruch <sbruch@jamestowntribe.org>  
**Sent:** Monday, April 5, 2021 12:10 PM  
**To:** Kilbride, kilb <kevin\_kilbride@fws.gov>; BrownScott, Jennifer <jennifer\_brownScott@fws.gov>; Lovern, Vanessa <vanessa\_loverti@fws.gov>  
**Cc:** Hansi Hals <hhals@jamestowntribe.org>; Elizabeth Tobin <etobin@jamestowntribe.org>  
**Subject:** RE: [EXTERNAL] Documents for our meeting on Monday

Thank you Kevin for the link and it was also a pleasure meeting everyone today. We look forward to seeing everyone again on Wednesday, April 14<sup>th</sup> at 9:00 am. I'll send the invitation later on today.

Sissi

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Sissi P. Bruch, PhD  
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**From:** Kilbride, kilb <kevin\_kilbride@fws.gov>  
**Sent:** Monday, April 5, 2021 11:57 AM  
**To:** Sissi Bruch <sbruch@jamestowntribe.org>; BrownScott, Jennifer <jennifer\_brownScott@fws.gov>; Lovern, Vanessa <vanessa\_loverti@fws.gov>  
**Cc:** Hansi Hals <hhals@jamestowntribe.org>; Elizabeth Tobin <etobin@jamestowntribe.org>  
**Subject:** Re: [EXTERNAL] Documents for our meeting on Monday

It was a pleasure to meet you on today's call and I look forward to working with you in designing a scientific project to assess potential impacts from aquaculture on shorebird and other waterbird use. As we discussed, here is the [link](#) to the Survey Protocol Handbook that provides guidance on preparing site-specific protocols. It articulates the standards for protocols of survey being conducted on refuges.

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**From:** Sissi Bruch <[sbruch@jamestowntribe.org](mailto:sbruch@jamestowntribe.org)>  
**Sent:** Friday, April 2, 2021 12:06 PM  
**To:** BrownScott, Jennifer <[jennifer\\_brownScott@fws.gov](mailto:jennifer_brownScott@fws.gov)>; Kilbride, kilb <[kevin\\_kilbride@fws.gov](mailto:kevin_kilbride@fws.gov)>; Lovern, Vanessa <[vanessa\\_loverti@fws.gov](mailto:vanessa_loverti@fws.gov)>  
**Cc:** Hansi Hals <[hhals@jamestowntribe.org](mailto:hhals@jamestowntribe.org)>; Elizabeth Tobin <[etobin@jamestowntribe.org](mailto:etobin@jamestowntribe.org)>  
**Subject:** [EXTERNAL] Documents for our meeting on Monday

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Hi All,

Attached please find the documents that we will be discussing at our Monday meeting at 9:30am. I look forward to working with all of you in getting these tasks accomplished.

Sissi

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