

From: [Kilbride, kilb](#)
To: [Elizabeth Tobin](#); [Sissi Bruch](#); [BrownScott, Jennifer](#); [Loveri, Vanessa](#)
Cc: [Hansi Hals](#)
Subject: Re: [EXTERNAL] Documents for our meeting on Monday
Date: Thursday, April 15, 2021 6:55:20 AM
Attachments: [Evidence Based Conservation 2019.pdf](#)
[RoadmapForBiologicalMonitoring.pdf](#)

Hi, All:

I've attached two papers that are relevant to our discussions. The Reynolds et al paper describes a "roadmap" for developing a biological monitoring program (survey). In the roadmap, the steps for designing and implementing surveys are displayed in Figure 1. As we discussed yesterday, the roadmap depicts how surveys would be initially designed, implemented, and then revised, as needed. In the roadmap paper, note the importance and emphasis on framing the problem (including objectives) so a survey(s) provides the right information in a timely manner to inform resource management decision making. In the roadmap, the highlights are mine so please ignore them.

In the Salafsky et al paper, please note the different types of evidence (including raw observations [reconnaissance], surveys, research) that can be used to support conservation as we have discussed. For each resource management issue, it is important to determine the appropriate type(s) of evidence that's necessary.

Kevin Kilbride
US Fish and Wildlife Service
I&M Coordinator
Columbia Pacific Northwest (R9) & Pacific Islands (R12)
Branch of Refuge Biology
911 NE 11th Avenue
Portland, OR 97232
(503) 231-6176 (Phone)

From: Elizabeth Tobin <etobin@jamestowntribe.org>
Sent: Wednesday, April 14, 2021 10:21 AM
To: Kilbride, kilb <kevin_kilbride@fws.gov>; Sissi Bruch <sbruch@jamestowntribe.org>; BrownScott, Jennifer <jennifer_brownScott@fws.gov>; Loveri, Vanessa <vanessa_loverti@fws.gov>
Cc: Hansi Hals <hhals@jamestowntribe.org>
Subject: RE: [EXTERNAL] Documents for our meeting on Monday
Shorebird treatment-control study: Kelly et al. 1996

From: Kilbride, kilb <kevin_kilbride@fws.gov>

Sent: Wednesday, April 14, 2021 8:04 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

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

US Fish and Wildlife Service

I&M Coordinator

Columbia Pacific Northwest (R9) & Pacific Islands (R12)

Branch of Refuge Biology

911 NE 11th Avenue

Portland, OR 97232

(503) 231-6176 (Phone)

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 14th at 9:00 am. I'll send the invitation later on today.

Sissi

Sissi P. Bruch, PhD
Environmental Planning Biologist
Jamestown S'Klallam Tribe
360-461-3006
sbruch@jamestowntribe.org

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>; 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

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.

Kevin Kilbride
US Fish and Wildlife Service
I&M Coordinator
Columbia Pacific Northwest (R9) & Pacific Islands (R12)
Branch of Refuge Biology
911 NE 11th Avenue
Portland, OR 97232
(503) 231-6176 (Phone)

From: Sissi Bruch <sbruch@jamestowntribe.org>

Sent: Friday, April 2, 2021 12:06 PM

To: BrownScott, Jennifer <jennifer_brownScott@fws.gov>; Kilbride, kilb <kevin_kilbride@fws.gov>; Loverti, Vanessa <vanessa_loverti@fws.gov>

Cc: Hansi Hals <hhals@jamestowntribe.org>; Elizabeth Tobin <etobin@jamestowntribe.org>

Subject: [EXTERNAL] Documents for our meeting on Monday

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

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

Sissi P. Bruch, PhD
Environmental Planning Biologist
Jamestown S'Klallam Tribe
360-461-3006

sbruch@jamestowntribe.org