Report for U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) on shellfish activities authorized with use of the programmatic ESA/EFH biological opinions (NMFS reference WCR-2014-1502; USFWS reference 01EWFW00-2016-F-0121)

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The Seattle District reports 37,966 acres (active and fallow) of shellfish activities authorized between October 1, 2016, and April 9, 2018, under the programmatic ESA/EFH biological opinions. The acreage is substantially accurate at this time with the exception of a few continuing acreage areas not included for Willapa Bay, and most of the continuing acreage areas are not included for Samish Bay. These areas are still being evaluated and we expect some of the areas still being evaluated may have mechanical oyster harvest or fallow areas that have returned to activity.* However, the Seattle District is closely monitoring the authorizations to ensure the acreage does not exceed the incidental take.

Attached is a spreadsheet of all the project authorizations with the following information for each authorization: reference number; applicant name; county; waterbody; mechanical oyster harvest/harrowed per year; fallow acres with eelgrass returned to cultivation in Puget Sound and Hood Canal; and acres of shellfish activities in HCSR chum critical habitat. Also attached is a spreadsheet on continuing use of berms and dikes.

Below are two tables (Tables 1 and 2) summarizing NMFS and USFWS incidental take activity acreages authorized between October 1, 2016, and April 9, 2018. In the last report, the Corps was still reviewing projects with historical berms/dikes. Table 3 shows the difference between the reports; however, the increase in number and length does not reflect any "new" berm and dikes. We believe it reflects more accurate information on the historical berms/dikes still in existence.

Table 1. NMFS Incidental Take Summary of Activities Authorized as of April 9, 2018.

Incidental Take		**Authorized (acres) from Sept 2017 Report**	**Authorized (acres) from Oct. 1, 2016, to April 9, 2018**	**Notes**
North Puget Sound	Maximum 200 ac mechanical oyster harvest or harrowing per year	0*	0 *	*projects in review
Puget Sound/Hood Canal	Maximum of 2,628 ac of fallow areas with native eelgrass returned to shellfish activities over 20 yr. term	14.87	25.55	

Incidental Take		**Authorized (acres) from Sept 2017 Report**	**Authorized (acres) from Oct. 1, 2016, to April 9, 2018**	**Notes**
Hood Canal summer-run chum critical habitat (*Hood Canal and in Jefferson, Clallam Counties*)	Maximum of 2,412 ac of shellfish activities over 20 yr. term	1,375.76	1,676.10	
Willapa Bay	Maximum of 18,367 ac mechanical oyster harvest or harrowing per year	9,577.20	9,669.98*	*projects in review
Grays Harbor	Maximum of 2,763 acres mechanical oyster harvest or harrowing per year	1,307.97	1,993.57	
Puget Sound, Hood Canal, Willapa Bay, Grays Harbor (all waters)	Maximum of 5 entanglements of PS Chinook, HCSR chum, green sturgeon or canary rockfish over 20 yr. term	none reported	none reported	
All waters	Monitor and report incidents of loose nets, and any entangled fish	2 reported by Public	none reported	

Table 2. USFWS Incidental Take Summary of Activities Authorized between October 1, 2016, and April 9, 2018.

Incidental Take		**Authorized (acres)**	**Notes**
North Puget	Maximum of 6 bull trout harmed over 20 yr. term	None reported	
Willapa Bay, Grays Harbor, Hood Canal, and South Puget Sound	Maximum of 2 bull trout in each of the other four geographic areas	None reported	

Table 3. Current Report of Dikes and Berms as of April 9, 2017.

Report Date	**Count**	**Total Length (feet)**
October 1, 2017	18	6,921.32
April 9, 2018	20	13,381.30