

ESA/MSA Consultation

Continued Use of Multiuser Dredged Material Disposal Sites in Puget Sound and Grays Harbor

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Scope of ESA/MSA

- Includes the 5 nondispersive and 3 dispersive sites in Puget Sound, and 2 dispersive sites in Grays Harbor
- 25-year coverage (2015-2040)
- Transport and disposal of dredged material
- Dredged material evaluation procedures
- Disposal site monitoring
- 17 listed species or DPS/ESUs



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Puget Sound Disposal Sites



Grays Harbor Disposal Sites

South Jetty

TYPE: Dispersive
AREA: 55.1 Acres DEPTH: >40 ft.
SITE DIMENSIONS: 800 x 3,000 ft. rectangular
DISPOSAL ZONE: within rectangle
TARGET AREA: none.
BARGE POSITIONING METHOD: DGPS

Point Chehalis

TYPE: Dispersive
AREA: 229.6 Acres DEPTH: >50 ft.
SITE DIMENSIONS: 2,000 x 5,000 ft. rectangular
DISPOSAL ZONE: within rectangle
TARGET AREA: none.
BARGE POSITIONING METHOD: DGPS

Ocean
Shores

Disposal Coordinates

Corners of 3 cells within rectangle:

Lat: 46°55'00.51 46°55'04.49 46°55'10.46 46°55'17.09
Long: 124°08'06.94 124°07'50.66 124°07'26.23 124°06'59.10

Lat: 46°54'41.91 46°54'45.90 46°54'51.87 46°54'58.50
Long: 124°07'57.26 124°07'40.98 124°07'16.55 124°06'49.42

Point Chehalis

South Jetty

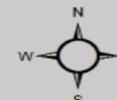
Navigation Channel

Westport

Disposal Coordinates

Four corners of rectangle:

Lat: 46°54'34.82 46°54'32.06 46°54'26.96 46°54'24.20
Long: 124°09'30.67 124°08'47.65 124°09'31.74 124°08'48.72



2,500 0 2,500 5,000 7,500
Feet

Consultation Milestones

- Biological Evaluation from USACE submitted to NMFS and USFWS in June 2015
- Concurrence letter from USFWS in July 2015
- Biological Opinion for rockfish from NMFS in December 2015
- Statutory response to EFH conservation recommendations submitted to NMFS in January 2016



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BE Determination Summary Table - Salmonids

Species	Effect Determination	Designated Critical Habitat/Proposed Critical Habitat
Puget Sound Chinook Salmon <i>Oncorhynchus tshawytscha</i>	May affect, not likely to adversely affect	May affect, not likely to adversely affect
Hood Canal Summer-Run Chum Salmon <i>Oncorhynchus keta</i>	May affect, not likely to adversely affect	May affect, not likely to adversely affect
Puget Sound Steelhead <i>Oncorhynchus mykiss</i>	May affect, not likely to adversely affect	May affect, not likely to adversely affect
Coastal/Puget Sound Bull Trout <i>Salvelinus confluentus</i>	May affect, not likely to adversely affect	May affect, not likely to adversely affect
Lower Columbia River Coho Salmon <i>Oncorhynchus kisutch</i>	May affect, not likely to adversely affect	No effect
Lower Columbia River Chinook Salmon <i>Oncorhynchus tshawytscha</i>	May affect, not likely to adversely affect	No effect
Upper Willamette River Chinook Salmon <i>Oncorhynchus tshawytscha</i>	May affect, not likely to adversely affect	No effect
Columbia River Chum Salmon <i>Oncorhynchus keta</i>	May affect, not likely to adversely affect	No effect



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BE Determination Summary Table – Other Fish Species

Species	Effect Determination	Designated Critical Habitat/Proposed Critical Habitat
Bocaccio Rockfish <i>Sebastes paucispinis</i>	May affect, not likely to adversely affect	May affect, not likely to adversely affect
Canary Rockfish <i>S. pinniger</i>	May affect, not likely to adversely affect	May affect, not likely to adversely affect
Yelloweye Rockfish <i>S. ruberrimus</i>	May affect, not likely to adversely affect	May affect, not likely to adversely affect
Eulachon <i>Thaleichthys pacificus</i>	May affect, not likely to adversely affect	No effect
North American Green Sturgeon <i>Acipenser medirostris</i>	May affect, not likely to adversely affect	May affect, not likely to adversely affect



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BE Determination Summary Table – Other Species

Species	Effect Determination	Designated Critical Habitat/Proposed Critical Habitat
Marbled Murrelet <i>Brachyramphus marmoratus</i>	May affect, not likely to adversely affect	No effect
Southern Resident Killer Whale <i>Orcinus orca</i>	May affect, not likely to adversely affect	May affect, not likely to adversely affect
Humpback Whale <i>Megaptera novaeangliae</i>	May affect, not likely to adversely affect	NA
Leatherback Sea Turtle <i>Dermochelys coriacea</i>	No effect	No effect



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Concurrence with BE

- USFWS: bull trout and critical habitat; marbled murrelet
- NMFS: all species except rockfish



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NMFS Biological Opinion – Rockfish

Species	Effect Determination	Jeopardy Opinion	Critical Habitat
Bocaccio	Likely to adversely affect	Not likely to jeopardize	Not likely to destroy or adversely modify
Canary Rockfish	Likely to adversely affect	Not likely to jeopardize	Not likely to destroy or adversely modify
Yelloweye Rockfish	Likely to adversely affect	Not likely to jeopardize	Not likely to destroy or adversely modify



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Rockfish Incidental Take Statement

- Unlikely that adults would be harmed
- Larval rockfish affected by exposure to chemicals of concern during disposal, including bioaccumulatives
- Annual take estimates made for the five nondispersive sites



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Terms and Conditions

- Biennial reporting
- At the end of 4 years: USACE assessment of the adequacy of the take statement for continued coverage
- By the end of year 5: decision by NMFS to either grant continued coverage or require reinitiation of consultation
- Provisional coverage until 2040



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MSA Consultation

- Magnuson-Stevens Fishery Conservation and Management Act (MSA)
- Consultation with NMFS
- Essential fish habitat (EFH):
 - ▶ Pacific coast groundfish
 - ▶ Coastal pelagic species
 - ▶ Pacific salmon



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NMFS EFH Determination

Fishery Management Plan	Does Action Have an Adverse Effect on EFH?	EFH Conservation Recommendations Provided?
Pacific Coast Salmon	No	No
Groundfish	Yes	Yes
Coastal Pelagic	Yes	Yes



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EFH Conservation Recommendations

- Conduct or support ichthyoplankton surveys
- Analyze water-column PCBs and PBDEs
- Reduce PBDEs at disposal sites
- Systematic testing and monitoring of PBDEs
- Annual assessment of bioaccumulatives
- Consider proposed PAH screening levels from NMFS



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Statutory Response to Recommendations

- Fund limited genetic identification of rockfish larvae
- Analyze PBDEs at nondispersive sites and federal projects in urban areas
- Develop guidelines for PBDEs if warranted
- Continue to assess scientific research on bioaccumulatives
- Continue working with NMFS on technical basis of PAH proposal; consider adoption of PAH screening level
- Work dependent on the availability of funds and staffing



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Questions?



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