NOAA Fisheries Greater Atlantic Regional Fisheries Office Essential Fish Habitat (EFH) Assessment & Fish and Wildlife Coordination Act (FWCA) Worksheet

This worksheet is your essential fish habitat (EFH) assessment. It provides us with the information necessary to assess the effects of your action on EFH under the Magnuson Stevens Fishery Conservation and Management Act and on NOAA trust resources under the Fish and Wildlife Coordination Act (FWCA). Consultation is not required if:

- 1. there is no adverse effect on EFH or NOAA trust resources (see page 10 for more info).
- 2. no EFH is designated and no trust resources may be present at the project site.

Instructions

Federal agencies or their non-federal designated lead agency should email the completed worksheet and necessary attachments to nmfs.gar.efh.consultation@noaa.gov. Include the public notice (if applicable) or project application and project plans showing:

- location map of the project site with area of impact.
- existing and proposed conditions.
- all waters of the U.S. on the project site with mean low water (MLW), mean high water (MHW), high tide line (HTL), and water depths clearly marked.
- sensitive habitats mapped, including special aquatic sites (submerged aquatic vegetation, saltmarsh, mudflats, riffles and pools, coral reefs, and sanctuaries and refuges), hard bottom or natural rocky habitat areas, and shellfish beds.
- site photographs, if available.

We will provide our EFH conservation recommendations and recommendations under the FWCA, as appropriate, within 30 days of receipt of a complete EFH assessment (60 days if an expanded consultation is necessary). Please submit complete information to minimize delays in completing the consultation.

This worksheet provides us with the information required in an EFH assessment:

- 1. A description of the proposed action.
- 2. An analysis of the potential adverse effects on EFH and the federally managed species.
- 3. The federal agency's conclusions regarding the effects of the action on EFH.
- 4. Proposed mitigation, if applicable.

Your analysis should focus on impacts that reduce the quality and/or quantity of the habitat or result in conversion to a different habitat type for all life stages of species with designated EFH within the action area.

Use the information on the <u>HCD website</u> and <u>NOAA's EFH Mapper</u> to complete this worksheet. If you have questions, please contact the appropriate <u>HCD staff member</u> to assist you.

¹ The EFH consultation process is guided by the requirements of our EFH regulation at 50 CFR 600.905.

EFH ASSESSMENT WORKSHEET

General Project Information Date Submitted: Project/Application Number: Project Name: Project Sponsor/Applicant: Federal Action Agency (if state agency acting as delegated): Fast-41 or One Federal Decision Project: Yes No Action Agency Contact Name: Contact Phone: Contact Email: Longitude: Latitude: Address, City/Town, State: Body of Water: Project Purpose: Project Description:

Anticipated Duration of In-Water Work or Start/End Dates:

Habitat Description

EFH includes the biological, chemical, and physical components of the habitat. This includes the substrate and associated biological resources (e.g., benthic organisms, submerged aquatic vegetation, shellfish beds, salt marsh wetlands), the water column, and prey species.

Is the project in designated EFH ² ?	Yes	No				
Is the project in designated HAPC ² ?	Yes	No				
Is this coordination under FWCA on	lly? Yes	No				
Total area of impact to EFH (indicate sq ft or acres):						
Total area of impact to HAPC (indic	ate sq ft or acres):					
Current water depths:	Salinity:	Water temperature range:				
Sediment characteristics ³ :						

What habitat types are in or adjacent to the project area and will they be permanently impacted? Select all that apply. Indicate if impacts will be temporary, if site will be restored, or if permanent conversion of habitat will occur. A project may occur in overlapping habitat types.

Habitat Type	Total impact (sq ft/acres)	Impacts are temporary	Restored to pre-existing conditions	Permanent conversion of all or part of habitat
Marine				
Estuarine				
Riverine (tidal)				
Riverine (non-tidal)	7			
Intertidal				
Subtidal				
Water column				
Salt marsh/ Wetland (tidal)				
Wetland (non-tidal)				

² Use the tables on pages 7-9 to list species with designated EFH or the type of designated HAPC present.

³ The level of detail is dependent on your project – e.g., a grain size analysis may be necessary for dredging.

Habitat Type	Total impact (sq ft/acres)	Impacts are temporary	Restored to pre-existing conditions	Permanent conversion of all or part of habitat
Rocky/hard bottom ⁴ :				
Sand				
Shellfish beds or oyster reefs				
Mudflats				
Submerged aquatic vegetation (SAV) ⁵ , macroalgae, epifauna				
Diadromous fish (migratory or spawning habitat)				

 $Indicate\ type(s)\ of\ rocky/hard\ bottom\ habitat\ (pebble,\ cobble,\ boulder,\ bedrock\ outcrop/ledge)$ and species of SAV:

Project Effects

Select all that apply	Project Type/Category
	Hatchery or Aquaculture
	Agriculture
	Forestry
	Military (e.g., acoustic testing, training exercises)
	Mining (e.g., sand, gravel)
	Restoration or fish/wildlife enhancement (e.g., fish passage, wetlands, beach renourishment, mitigation bank/ILF creation)

⁴ Indicate type(s). The type(s) of rocky habitat will help you determine if the area is cod HAPC. ⁵ Indicate species. Provide a copy of the SAV report and survey conducted at the site, if applicable.

Select all that apply	Project Type/Category
	Infrastructure/transportation (e.g., culvert construction, bridge repair, highway, port)
	Energy development/use
	Water quality (e.g., TMDL, wastewater, sediment remediation)
	Dredging/excavation and disposal
	Piers, ramps, floats, and other structures
	Bank/shoreline stabilization (e.g., living shoreline, groin, breakwater, bulkhead)
	Survey (e.g., geotechnical, geophysical, habitat, fisheries)
	Other

Select all that apply	Potential Stressors Caused by the Activity	Select all that apply and if temporary or permanent		Habitat alterations caused by the activity
	Underwater noise	Temp	Perm	
	Water quality/turbidity/ contaminant release			Water depth change
	Vessel traffic/barge grounding			Tidal flow change
	Impingement/entrainment ⁶			Fill
	Prevent fish passage/spawning			Habitat type conversion
	Benthic community disturbance			Other:
	Impacts to prey species			Other:

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⁶ Entrainment is the voluntary or involuntary movement of aquatic organisms from a water body into a surface diversion or through, under, or around screens and results in the loss of the organisms from the population. Impingement is the involuntary contact and entrapment of aquatic organisms on the surface of intake screens caused when the approach velocity exceeds the swimming capability of the organism.

Details: project impacts and mitigation		
The level of detail that you provide should be associated with the proposed project. Attach su		_
Describe how the project would impact each o temporary and permanent impact descriptions	• <u>-</u>	
What specific measures will be used to avoid i controls, acoustic controls, and time of year re		•
What specific measures will be used to minim	ize impacts?	
Is compensatory mitigation proposed?	Yes	No
If no, why not? If yes, describe plans for mitig Include a conceptual compensatory mitigation		<u> </u>

Fede	ral Action Agency's EFH determination (select one)			
	There is no adverse effect ⁷ on EFH or EFH is not designated at the project site. EFH Consultation is not required. This is a FWCA-only request.			
	The adverse effect ⁷ on EFH is not substantial. This means that the adverse effects are no more than minimal, temporary, or can be alleviated with minor project modifications or conservation recommendations.			
	This is a request for an abbreviated EFH consultation.			
	The adverse effect ⁷ on EFH is substantial. This is a request for an expanded EFH consultation. We will provide more detailed information, including an alternatives analysis and NEPA document, if applicable.			

EFH and HAPC designations⁸

Use the <u>EFH mapper</u> to determine if EFH may be present in the project area and enter all species and lifestages that have designated EFH. Optionally, you may review the EFH text descriptions linked to each species in the EFH mapper and use them to determine if the described habitat is present. We recommend this for larger projects to help you determine what your impacts are.

Species	EFH is designated/mapped for:			Habitat	
	EFH: eggs	EFH: larvae	EFH: juvenile	EFH: adults/ spawning adults	present based on text description (optional)

⁷ An **adverse effect** is any impact that reduces the quality and/or quantity of EFH. Adverse effects may include direct or indirect physical, chemical, or biological alterations of the waters or substrate and loss of, or injury to, benthic organisms, prey species and their habitat, and other ecosystem components. Adverse effects to EFH may result from actions occurring within EFH or outside of EFH and may include site-specific or habitat-wide impacts, including individual, cumulative, or synergistic consequences of actions.

⁸ Within the Greater Atlantic Region, EFH has been designated by the New England, Mid-Atlantic, and South Atlantic Fisheries Management Councils and NOAA Fisheries.

Species	EFH is	designat	Habitat		
	EFH: eggs	EFH: larvae	EFH: juvenile	EFH: adults/ spawning adults	present based on text description (optional)

HAPCs

Select all that are in your action area.

Summer flounder: SAV ⁹	Alvin & Atlantis Canyons
Sandbar shark	Baltimore Canyon
Sand Tiger Shark (Delaware Bay)	Bear Seamount
Sand Tiger Shark (Plymouth-Duxbury- Kingston Bay)	Heezen Canyon
Inshore 20m Juvenile Cod	Hudson Canyon
Great South Channel Juvenile Cod	Hydrographer Canyon
Northern Edge Juvenile Cod	Jeffreys & Stellwagen
Lydonia Canyon	Lydonia, Gilbert & Oceanographer Canyons
Norfolk Canyon (Mid-Atlantic)	Norfolk Canyon (New England)
Oceanographer Canyon	Retriever Seamount
Veatch Canyon (Mid-Atlantic)	Toms, Middle Toms & Hendrickson Canyons
Veatch Canyon (New England)	Washington Canyon
Cashes Ledge	Wilmington Canyon

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⁹ Summer flounder HAPC is defined as all native species of macroalgae, seagrasses, and freshwater and tidal macrophytes in any size bed, as well as loose aggregations, within adult and juvenile summer flounder EFH. In locations where native species have been eliminated from an area, then exotic species are included. Use local information to determine the locations of HAPC.

More information

The Magnuson-Stevens Fishery Conservation and Management Act (MSA) mandates that federal agencies conduct an essential fish habitat (EFH) consultation with NOAA Fisheries on any actions they authorize, fund, or undertake that may adversely affect EFH. An adverse effect is any impact that reduces the quality and/or quantity of EFH. Adverse effects may include direct or indirect physical, chemical, or biological alterations of the waters or substrate and loss of, or injury to, benthic organisms, prey species and their habitat, and other ecosystem components. Adverse effects to EFH may result from actions occurring within EFH or outside of EFH and may include site-specific or habitat-wide impacts, including individual, cumulative, or synergistic consequences of actions.

We designed this worksheet to help you to prepare EFH assessments. It is important to remember that an adverse effect determination is a trigger to consult with us. It does not mean that a project cannot proceed as proposed, or that project modifications are necessary. It means that the effects of the proposed action on EFH must be evaluated to determine if there are ways to avoid, minimize, or offset adverse effects.

This worksheet should be used as your EFH assessment or as a guide to develop your EFH assessment. At a minimum, you should include all the information required to complete this worksheet in your EFH assessment. The level of detail that you provide should be commensurate with the magnitude of impacts associated with the proposed project. If your answers in the worksheet and supplemental information you attach do not fully evaluate the adverse effects to EFH, we may request additional information to complete the consultation.

You may need to prepare an expanded EFH assessment for more complex projects to fully characterize the effects of the project and the avoidance and minimization of impacts to EFH. While the EFH assessment worksheet may be used for larger projects, the format may not be sufficient to incorporate the extent of detail required, and a separate EFH assessment may be developed. However, regardless of format, you should include an analysis as outlined in this worksheet for an expanded EFH assessment, along with any additional necessary information. This additional information includes:

- the results of on-site inspections to evaluate the habitat and site-specific effects.
- the views of recognized experts on the habitat or the species that may be affected.
- a review of pertinent literature and related information.
- an analysis of alternatives that could avoid or minimize the adverse effects on EFH.

Please contact our Greater Atlantic Regional Fisheries Office, <u>Protected Resources Division</u> regarding potential impacts to marine mammals or threatened and endangered species.

Useful Links

National Wetland Inventory Maps

https://www.fws.gov/wetlands/

EPA's National Estuary Program (NEP)

https://www.epa.gov/nep/local-estuary-programs

Northeast Regional Ocean Council (NROC) Data Portal

https://www.northeastoceandata.org/

Mid-Atlantic Regional Council on the Ocean (MARCO) Data Portal

http://portal.midatlanticocean.org/

Resources by State

Maine

Maine Office of GIS Data Catalog

https://geolibrary-maine.opendata.arcgis.com/datasets#data

Town shellfish information including shellfish conservation area maps

https://www.maine.gov/dmr/shellfish-sanitation-

management/programs/municipal/ordinances/towninfo.html

State of Maine Shellfish Sanitation and Management

https://www.maine.gov/dmr/shellfish-sanitation-management/index.html

Eelgrass maps

https://www.maine.gov/dmr/science-research/species/eelgrass/index.html

Casco Bay Estuary Partnership

https://www.cascobayestuary.org/

Maine GIS Stream Habitat Viewer

https://www.arcgis.com/home/item.html?id=5869c2d20f0b4c3a9742bdd8abef42cb

New Hampshire

NH's Statewide GIS Clearinghouse, NH GRANIT

http://www.granit.unh.edu/

NH Coastal Viewer

http://www.granit.unh.edu/nhcoastalviewer/

State of NH Shellfish Program

https://www.des.nh.gov/organization/divisions/water/wmb/shellfish/

Massachusetts

MA Shellfish Sanitation and Management Program

https://www.mass.gov/shellfish-sanitation-and-management

MassGIS Data, Including Eelgrass Maps

http://maps.massgis.state.ma.us/map ol/oliver.php

MA DMF Recommended TOY Restrictions Document

https://www.mass.gov/files/documents/2016/08/ry/tr-47.pdf

Massachusetts Bays National Estuary Program

https://www.mass.gov/orgs/massachusetts-bays-national-estuary-program

Buzzards Bay National Estuary Program

http://buzzardsbay.org/

Massachusetts Division of Marine Fisheries

https://www.mass.gov/orgs/division-of-marine-fisheries

Massachusetts Office of Coastal Zone Management

https://www.mass.gov/orgs/massachusetts-office-of-coastal-zone-management

Rhode Island

RI Shellfish and Aquaculture

http://www.dem.ri.gov/programs/fish-wildlife/marine-fisheries/shellfish-aquaculture.php

RI Shellfish Management Plan

http://www.shellfishri.com/

Eelgrass Maps

http://edc.maps.arcgis.com/apps/View/index.html?appid=db52bb689c1e44259c06e11fd24895f8

RI GIS Data

http://ridemg is.maps.arcg is.com/apps/webappviewer/index.html?id=87e104c8adb449eb9f905e5f

18020de5 Narragansett Bay Estuary Program

http://nbep.org/

Rhode Island Division of Marine Fisheries

http://www.dem.ri.gov/programs/fish-wildlife/marine-fisheries/index.php

Rhode Island Coastal Resources Management Council

http://www.crmc.ri.gov/

Connecticut

CT Bureau of Aquaculture

https://www.ct.gov/doag/cwp/view.asp?a=3768&q=451508&doagNav=

CT GIS Resources

https://www.ct.gov/deep/cwp/view.asp?a=2698&q=323342&deepNav GID=1707

Natural Shellfish Beds in CT

https://cteco.uconn.edu/viewer/index.html?viewer=aquaculture

Eelgrass Maps

https://www.fws.gov/northeast/ecologicalservices/pdf/wetlands/2012_CT_Eelgrass_Final_Repor

t_11_26_2013.pdf

Long Island Sound Study

http://longislandsoundstudy.net/

CT GIS Resources

http://cteco.maps.arcgis.com/home/index.html

CT DEEP Office of Long Island Sound Programs and Fisheries

https://www.ct.gov/deep/site/default.asp

CT River Watershed Council

https://www.ctriver.org/

New York

Eelgrass Report

http://www.dec.ny.gov/docs/fish_marine_pdf/finalseagrassreport.pdf

Peconic Estuary Program

https://www.peconicestuary.org/

NY/NJ Harbor Estuary

https://www.hudsonriver.org/estuary-program

New York GIS Clearinghouse

https://gis.ny.gov/

New Jersey

Submerged Aquatic Vegetation Mapping

http://www.crssa.rutgers.edu/projects/sav/

Barnegat Bay Partnership

https://www.barnegatbaypartnership.org/

NJ GeoWeb

https://www.nj.gov/dep/gis/geowebsplash.htm

NJ DEP Shellfish Maps

https://www.nj.gov/dep/landuse/shellfish.html

Pennsylvania

Delaware River Management Plan

 $https://www.fishandboat.com/Fish/Fisheries/DelawareRiver/Documents/delaware_river_plan_exec_draft.pdf$

PA DEP Coastal Resources Management Program

https://www.dep.pa.gov/Business/Water/Compacts%20and%20Commissions/Coastal%20Resources%20Management%20Program/Pages/default.aspx

PA DEP GIS Mapping Tools

https://www.dep.pa.gov/DataandTools/Pages/GIS.aspx

Delaware

Partnership for the Delaware Estuary

http://www.delawareestuary.org/

Center for Delaware Inland Bays

http://www.inlandbays.org/

Delaware FirstMap

http://delaware.maps.arcgis.com/home/index.html

Maryland

Submerged Aquatic Vegetation Mapping

http://web.vims.edu/bio/sav/

MERLIN

http://dnrweb.dnr.state.md.us/MERLIN/

Maryland Coastal Bays Program

https://mdcoastalbays.org/

Virginia

Submerged Aquatic Vegetation mapping

 $http://www.mrc.virginia.gov/regulations/Guidance_for_SAV_beds_and_restoration_final_approved_by_Commission_7-22-17.pdf$

VDGIF Time of Year Restrictions (TOYR) and Other Guidance

https://www.dgif.virginia.gov/wp-content/uploads/VDGIF-Time-of-Year-Restrictions-Table.pdf