

Papahānaumokuākea Marine National Monument
CONSERVATION AND MANAGEMENT Permit Application

NOTE: This Permit Application (and associated Instructions) is to propose activities to be conducted in the Papahānaumokuākea Marine National Monument. The Co-Trustees are required to determine that issuing the requested permit is compatible with the findings of Presidential Proclamation 8031. Within this Application, provide all information that you believe will assist the Co-Trustees in determining how your proposed activities are compatible with the conservation and management of the natural, historic, and cultural resources of the Papahānaumokuākea Marine National Monument (Monument).

ADDITIONAL IMPORTANT INFORMATION:

- Any or all of the information within this application may be posted to the Monument website informing the public on projects proposed to occur in the Monument.
- In addition to the permit application, the Applicant must either download the Monument Compliance Information Sheet from the Monument website OR request a hard copy from the Monument Permit Coordinator (contact information below). The Monument Compliance Information Sheet must be submitted to the Monument Permit Coordinator after initial application consultation.
- Issuance of a Monument permit is dependent upon the completion and review of the application and Compliance Information Sheet.

INCOMPLETE APPLICATIONS WILL NOT BE CONSIDERED

Send Permit Applications to:

NOAA/Daniel K. Inouye Regional Center

NOS/ONMS/Papahānaumokuākea Marine National Monument

Attention: Permit Coordinator

1845 Wasp Blvd., Building 176

Honolulu, HI 96818

nwhipermit@noaa.gov

PHONE: (808) 725-5800 FAX: (808) 455-3093

SUBMITTAL VIA ELECTRONIC MAIL IS PREFERRED BUT NOT REQUIRED. FOR ADDITIONAL SUBMITTAL INSTRUCTIONS, SEE THE LAST PAGE.

Papahānaumokuākea Marine National Monument Permit Application Cover Sheet

This Permit Application Cover Sheet is intended to provide summary information and status to the public on permit applications for activities proposed to be conducted in the Papahānaumokuākea Marine National Monument. While a permit application has been received, it has not been fully reviewed nor approved by the Monument Management Board to date. The Monument permit process also ensures that all environmental reviews are conducted prior to the issuance of a Monument permit.

Summary Information

Applicant Name: Jared Underwood, Eric Roberts, Brian Neilson, Colin Kippen

Affiliation: U.S. Fish and Wildlife Service (FWS), National Oceanic and Atmospheric Administration (NOAA), State of Hawai‘i Department of Land and Natural Resources (DLNR), Office of Hawaiian Affairs (OHA)

Permit Category: Conservation and Management

Proposed Activity Dates: January 1, 2024 – December 31, 2024

Proposed Method of Entry (Vessel/Plane): Vessel and plane

Proposed Locations:

This permit application encompasses all conservation and management activities that the Co-Trustees may conduct throughout the entire Monument.

Estimated number of individuals (including Applicant) to be covered under this permit:
Variable, depending on activity type and location.

Estimated number of days in the Monument:

There will be Monument staff in the Monument up to 365 days of the year. Numbers of personnel will fluctuate depending upon the season and the management activity undertaken at any one time. All personnel will be identified on an updated Compliance Information Sheet (CIS) prior to each entrance.

Description of proposed activities: (complete these sentences):

a.) The proposed activity would...

This Monument Conservation and Management Permit Application proposes activities that would allow the Co-Trustee Representatives of the U.S. Fish and Wildlife Service, National Oceanic and Atmospheric Administration, the State of Hawai‘i through the Department of Land and Natural Resources, and the Office of Hawaiian Affairs to conduct management activities for the conservation and management of Papahānaumokuākea Marine National Monument including the Hawaiian Islands National Wildlife Refuge, Midway Atoll National Wildlife Refuge, Northwestern Hawaiian Islands Coral Reef Ecosystem Reserve, Northwestern Hawaiian Islands State Marine Refuge, and Kure Atoll State Wildlife Sanctuary.

b.) To accomplish this activity we would

To accomplish the conservation and management of this ecosystem the Co-Trustees would carry out authorized activities associated with the following:

1. General operations to support field activities, which includes field camp, vessel, and flight operations
2. Resource survey and monitoring, which includes evaluating status and trends of target species and habitats
3. Natural resource protection, restoration, and remediation, which includes but is not limited to predator and invasive species control, marine debris removal and wildlife disentanglement, and health response and translocation of wildlife.
4. Cultural and historic resource identification, evaluation, monitoring, access and protection
5. Education and outreach

c.) This activity would help the Monument by ...

These activities would benefit the Monument by providing coordinated interagency management of Monument ecosystems, prevent duplicate efforts, and gain efficiencies.

Other information or background:

A conservation and management permit of this nature has been issued annually, pending a stringent review process, to the Monument Co-Trustee agencies since 2008 for the purpose of conducting cooperative and effective management of Monument resources. For example, the NOAA NMFS PIFSC Marine Turtle Research Program has worked successfully within the U.S. Fish and Wildlife Service, Hawaiian Islands National Wildlife Refuge for over 40 seasons, resulting in great success for the species. Such collaborative work would benefit other Monument programs.

Section A - Applicant Information

1. Applicant

Underwood, Jared: Superintendent for Papahānaumokuākea Marine National Monument,
Department of the Interior, U.S. Fish and Wildlife Service

Roberts, Eric: Superintendent, Papahānaumokuākea Marine National Monument, National
Oceanic and Atmospheric Administration

Neilson, Brian: Division of Aquatic Resources Administrator State of Hawai‘i Department of
Land and Natural Resources

Kippen, Colin: Ka Pouhana (Interim), Office of Hawaiian Affairs

1a. Intended field Principal Investigator (See instructions for more information):

N/A

2. Mailing address (street/P.O. box, city, state, country, zip):

[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]

Phone:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Fax:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Email:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

For students, major professor's name, telephone and email address: N/A

3. Affiliation (institution/agency/organization directly related to the proposed project):

Underwood, Jared: Superintendent for Papahānaumokuākea Marine National Monument,
Department of the Interior, U.S. Fish and Wildlife Service

Roberts, Eric: Superintendent, Papahānaumokuākea Marine National Monument, National
Oceanic and Atmospheric Administration

Neilson, Brian: Division of Aquatic Resources Administrator, State of Hawai'i Department of
Land and Natural Resources

Kippen, Colin: Ka Pouhana Kūikawā (Interim Chief Executive Officer), Office of Hawaiian
Affairs

4. Additional persons to be covered by permit. List all personnel roles and names (if known at time of application) here (e.g. John Doe, Research Diver; Jane Doe, Field Technician):

Variable. Staff, volunteers, cultural liaisons, or contractors necessary for the permitted activities may enter the Monument for conservation and management activities. Resident families of Midway Atoll may enter the Monument. Invited news media representatives may enter the Monument to provide public information of conservation and management activities. All personnel will be identified and information will be provided to the Monument Permit Coordinators prior to each entry.

The applicants shall ensure that all personnel assigned to any conservation and management activity allowed under this permit are qualified to perform in the assigned role and are limited to the scope of their position and respective project, and shall comply with all other applicable

laws, policies, protocols, permits, and regulations. In addition, the applicants will ensure that all management activities are communicated and coordinated on an ongoing and regular basis.

To safeguard all the resources and ecological integrity of the Monument, early and ongoing coordination of interagency activities will occur between the action agency and interested Monument partners as soon as details of activities are identified via a memo-to-file or similar type written documentation. The goal of early coordination is the commitment to identifying, incorporating, and customizing best management practices for specific activities. Additionally, pre-access permit and cultural briefings will be conducted for all new personnel entering the Monument and annually for all.

Section B: Project Information

5a. Project location(s):

		<u>Ocean Based</u>	
<input checked="" type="checkbox"/> Nihoa Island	<input checked="" type="checkbox"/> Land-based	<input checked="" type="checkbox"/> Shallow water	<input checked="" type="checkbox"/> Deep water
<input checked="" type="checkbox"/> Necker Island (Mokumanamana)	<input checked="" type="checkbox"/> Land-based	<input checked="" type="checkbox"/> Shallow water	<input checked="" type="checkbox"/> Deep water
<input checked="" type="checkbox"/> French Frigate Shoals	<input checked="" type="checkbox"/> Land-based	<input checked="" type="checkbox"/> Shallow water	<input checked="" type="checkbox"/> Deep water
<input checked="" type="checkbox"/> Gardner Pinnacles	<input checked="" type="checkbox"/> Land-based	<input checked="" type="checkbox"/> Shallow water	<input checked="" type="checkbox"/> Deep water
<input checked="" type="checkbox"/> Maro Reef			
<input checked="" type="checkbox"/> Laysan Island	<input checked="" type="checkbox"/> Land-based	<input checked="" type="checkbox"/> Shallow water	<input checked="" type="checkbox"/> Deep water
<input checked="" type="checkbox"/> Lisianski Island, Neva Shoal	<input checked="" type="checkbox"/> Land-based	<input checked="" type="checkbox"/> Shallow water	<input checked="" type="checkbox"/> Deep water
<input checked="" type="checkbox"/> Pearl and Hermes Atoll	<input checked="" type="checkbox"/> Land-based	<input checked="" type="checkbox"/> Shallow water	<input checked="" type="checkbox"/> Deep water
<input checked="" type="checkbox"/> Midway Atoll	<input checked="" type="checkbox"/> Land-based	<input checked="" type="checkbox"/> Shallow water	<input checked="" type="checkbox"/> Deep water
<input checked="" type="checkbox"/> Kure Atoll	<input checked="" type="checkbox"/> Land-based	<input checked="" type="checkbox"/> Shallow water	<input checked="" type="checkbox"/> Deep water
<input checked="" type="checkbox"/> Other			

NOTE: There is a fee schedule for people visiting Midway Atoll National Wildlife Refuge via vessel and aircraft.

Location Description:

This permit application encompasses all conservation and management activities that the permit applicants may conduct throughout the entire Monument.

5b. Check all applicable regulated activities proposed to be conducted in the Monument:

- ☒ Removing, moving, taking, harvesting, possessing, injuring, disturbing, or damaging any living or nonliving Monument resource
- ☒ Drilling into, dredging, or otherwise altering the submerged lands other than by anchoring a vessel; or constructing, placing, or abandoning any structure, material, or other matter on the submerged lands
- ☒ Anchoring a vessel
- ☐ Deserting a vessel aground, at anchor, or adrift
- ☒ Discharging or depositing any material or matter into the Monument
- ☒ Touching coral, living or dead
- ☒ Possessing fishing gear except when stowed and not available for immediate use during passage without interruption through the Monument
- ☒ Attracting any living Monument resource

- ☒ Sustenance fishing (Federal waters only, outside of Special Preservation Areas, Ecological Reserves and Special Management Areas)
- ☐ Subsistence fishing (State waters only)
- ☒ Swimming, snorkeling, or closed or open circuit SCUBA diving within any Special Preservation Area or Midway Atoll Special Management Area

6. Purpose/Need/Scope *State purpose of proposed activities*

ENTRANCE

1. The permit applicants, their designated agency staff, volunteers, contractors, and Midway Atoll National Wildlife Refuge residents necessary for permitted activities may enter Papahānaumokuākea Marine National Monument (see Attachment #1, Permitted Personnel List). All personnel must be identified and information provided to the Monument permit coordinators prior to each entry into the Monument. The permit applicants shall ensure that all personnel assigned to conduct conservation and management activities authorized under this permit are fully qualified to perform in the assigned role(s) and shall be limited to the scope of actions set forth in this permit and all other applicable policies, protocols, permits, and regulations. (ALL MMB AGENCIES)

OPERATIONS

2. Operating field stations of the National Wildlife Refuge System (NWRS) and the State of Hawai‘i Kure Atoll State Wildlife Sanctuary, necessary for meeting mission and purposes of refuges and the Monument in support of on-site management and resource conservation including but not limited to: (STATE) (FWS)
 - a. Maintaining and repairing/replacing facilities and their components (e.g., carpentry, electrical, plumbing, welding, general construction); (STATE) (FWS)
 - b. Building and other facilities deconstruction and reconstruction; (STATE) (FWS)
 - c. Maintaining airport and airstrips, including improvements such as runway lighting replacement, taxiway maintenance (including repaving, and painting/marketing); (FWS)
 - d. Painting, including all preparation work such as scraping, washing, etc.; (STATE) (FWS) and
 - e. Lead-based paint soil remediation, including removing sand/soil from around many or all affecting buildings and proper on-site containment of this material. (STATE) (FWS)
3. Supporting and re-supplying field camps and field stations, including but not limited to, delivery and removal of supplies, equipment, people, waste, and/or assets necessary for operations. (ALL MMB AGENCIES)
4. Operating vessels to provide access for conservation and management activities. Authorized vessel operations shall include, but are not limited to:
 - a. Operating, mooring and anchoring small boats; (ALL MMB AGENCIES)
 - b. Conducting maintenance, proficiency training and safety measures for authorized vessels; (ALL MMB AGENCIES)
 - c. Anchoring of the authorized vessels and small boats on sandy substrate only, and all anchors must be lowered into place; (ALL MMB AGENCIES)
 - d. Discharging gray water outside of all Special Preservation Areas and the Midway Atoll Special Management Area; (ALL MMB AGENCIES) and
 - e. Discharging biodegradable solid waste associated with galley operations restricted to 3 nautical miles (ground to 1 inch in diameter) and 12 nautical miles

(unground) outside of all Special Preservation Areas and the Midway Atoll Special Management Area. (ALL MMB AGENCIES)

5. Possessing fishing gear to conduct sustenance fishing for pelagic species within Midway Atoll Special Management Area (MASMA) in accordance with the Monument Management Board Policy on Sustenance Fishing (Attachment #2). (ALL MMB AGENCIES)
6. Operating aircraft and airfields, including necessary maintenance and use of airfields and runways at Midway Atoll. (FWS)
7. Conducting on-site reviews and operational evaluations including, but not limited to: (ALL MMB AGENCIES)
 - a. On-site reviews by management and congressional personnel; (ALL MMB AGENCIES)
 - b. Agency site visits and meetings for management planning and programmatic assessments; (ALL MMB AGENCIES) and
 - c. On-site management and safety reviews to gauge implementation and effectiveness of Monument management and programs. (ALL MMB AGENCIES)
8. Conducting personnel safety, fitness, and health maintenance including, but not limited to: (ALL MMB AGENCIES)
 - a. Biking, swimming, and jogging at Kure Atoll, Tern Island, French Frigate Shoals, and Midway Atoll; and (ALL MMB AGENCIES)
 - b. Conducting health and safety activities for all personnel, including but not limited to: site safety reviews, adverse weather and emergency response procedures, safety protocols, and continuation of operation plans. (ALL MMB AGENCIES)

RESOURCE SURVEY AND MONITORING

9. Swimming, snorkeling, and closed or open circuit SCUBA diving within any Special Preservation Area of the Midway Atoll Special Management Area, necessary to support conservation and management activities covered under this permit. (ALL MMB AGENCIES)
10. Touching coral, living or dead, necessary to support conservation and management activities covered under this permit. (ALL MMB AGENCIES)
11. Attracting any living Monument resource, necessary to support conservation and management activities covered under this permit. (ALL MMB AGENCIES)

12. Surveying and monitoring target species and habitats to evaluate trends and status for management purposes. Activities in direct support of management, monitoring, and characterization may include: (ALL MMB AGENCIES)

- a. Placing scientific equipment or drilling into submerged and emergent lands in order to install scientific equipment, devices, markers, oceanographic instrument arrays, unmanned aerial systems, remotely operated camera systems, and remote viewing camera systems on submerged or emergent lands, and performing necessary maintenance activities on such equipment; (NOAA) (STATE) (FWS)
- b. Collecting climatological data and necessary scientific information from on-site equipment; (NOAA) (STATE) (FWS)
- c. Photographing and filming (including UAS) as necessary to document Monument resources; (ALL MMB AGENCIES)
- d. Non-lethal marking and tagging for monitoring purposes. (ALL MMB AGENCIES) Note: Prior to authorization to conduct work which may result in the “take” of a protected species, consultation with the appropriate lead agency will occur to evaluate whether a separate ESA/MMPA permit shall be required;
- e. Visual, non-invasive marking and tagging for monitoring purposes; (ALL MMB AGENCIES) and
- f. Physical surveying of and sampling from landfills, storage tanks, contamination sites, or other potentially hazardous materials associated with current and former occupation and use of the Northwestern Hawaiian Islands (NWHI); (NOAA) (STATE) (FWS) and
- g. Visual, acoustic, electronic (i.e. Conductivity-Temperature-Depth (CTD) casts) and/or unmanned (aerial and marine) surveys in support of monitoring coral reefs, pelagic environments, and estimating the abundance and distribution of animals in the NWHI. (NOAA) (STATE) (FWS) Note: Prior to authorization to conduct work which may result in the “take” of a protected species, consultation with the appropriate lead agency will occur to evaluate whether a separate ESA/MMPA permit shall be required.

13. Removing, moving, taking, harvesting, possessing, injuring, disturbing, or attempting to remove, move, take, harvest, possess, injure, or disturb biological, chemical, or geological samples for analysis in support of activities under approved management plans, restoration or recovery plans, and for base line inventory and monitoring of population trends and habitat conservation and management. (ALL MMB AGENCIES)

14. Removing, moving, taking, harvesting, possessing, or attempting to remove, move, take, harvest, or possess a set number of any visually observable marine organism morphotype (except mammals) or terrestrial plant morphotype (including fungi), which cannot be visually identified or may represent a new geographic record or new species, with the set number based upon the per island/atoll abundance criteria below: (ALL MMB AGENCIES)

- a. One (1) specimen can be taken, removed, or possessed if in abundance assessment cannot be ascertained, or less than ten (10) such specimens are present,

cumulative during the course of the collection event per island and atoll; (ALL MMB AGENCIES)

- b. Up to three (3) specimens can be taken, removed, or possessed if an abundance assessment of ten (10) or more such specimens is ascertained, cumulative during the course of the collection event per island or atoll; (ALL MMB AGENCIES) and
- c. For clonal organisms that cannot be visually identified or may represent a new geographic record or new species, take shall be limited to no more than half the clonal organism visually observed. Up to three (3) clonal specimens of similar morphology can be taken, removed, or possessed if an abundance assessment of ten (10) or more of such specimens is ascertained, cumulative during the course of the collection event per island or atoll. (ALL MMB AGENCIES)

15. Conducting habitat mapping for the production of accurate, high-resolution base maps with methods to include: (ALL MMB AGENCIES)

- a. Data collecting to include optic, acoustic, and metal detector technologies, as well as land and dive operations, including the use of a remotely operated vehicle (ROV) and UAS, for ground truthing; (ALL MMB AGENCIES) and
- b. Global Positioning System (GPS) mapping and Light Detection and Ranging (LIDAR) work. (ALL MMB AGENCIES)

NATURAL RESOURCE PROTECTION, RESTORATION, AND REMEDIATION

16. Conducting management actions necessary to understand and carry out protection, restoration, and remediation of species and habitats, such as carrying out existing species recovery and restoration plans (ALL MMB AGENCIES).

- a. Conducting wildlife disentanglement, health response (including treatment and necropsy), and translocation activities according to existing species recovery plans; (NOAA) (STATE) (FWS) Note: Prior to authorization to conduct work which may result in the “take” of a protected species, consultation with the appropriate lead agency will occur to evaluate whether a separate ESA/MMPA permit shall be required;
- b. Conducting population augmentation or reestablishment activities such as capture, translocation, reintroduction, and out-planting; (ALL MMB AGENCIES) Note: Prior to authorization to conduct work which may result in the “take” of a protected species, consultation with the appropriate lead agency will occur to evaluate whether a separate ESA/MMPA permit shall be required;
- c. Conducting invasive species controls by mechanical, chemical and manual methods as needed; (ALL MMB AGENCIES) Note: Prior to authorization to conduct work which may result in the “take” of a protected species, consultation with the appropriate lead agency will occur to evaluate whether a separate ESA/MMPA permit shall be required;
- d. Investigating and monitoring of contamination in abiotic or biotic resources. (NOAA) (STATE) (FWS) Note: Prior to authorization to conduct work which may result in the “take” of a protected species, consultation with the appropriate

lead agency will occur to evaluate whether a separate ESA/MMPA permit shall be required;

17. Removing marine debris, including but not limited to, plastic pollution, trash, derelict fishing gear and other materials (land and ocean-based) that pose threats to Monument resources. Activities may include: (ALL MMB AGENCIES)
 - a. Disentangling wildlife from marine debris and other materials by authorized personnel; (NOAA) (STATE) (FWS) Note: Activities occurring on or around species on the Endangered Species List shall consult the appropriate lead agency prior to taking action.
 - b. Tracking debris via drifter buoys and Unmanned Aerial Vehicles; (NOAA) (STATE) (FWS)
 - c. Monitoring of sites that have been cleared of debris for recovery rates and effects of removal; (ALL MMB AGENCIES)
 - d. Locating and removing debris and hazardous materials. This may be through interagency agreements, such as the Department of Defense (DOD) Innovative Readiness Training (IRT), Formerly Used Defense Sites (FUDS), or the Base Realignment and Closure (BRAC) Programs. Efforts may include activities such as seafloor and island mapping, reconnaissance and removal of materials, and derelict vessel salvage and removal; (ALL MMB AGENCIES) and
 - e. Removal of sessile encrusting flora and fauna associated with marine debris. (ALL MMB AGENCIES)
18. Providing emergency response and damage assessment, mitigation, restoration, and monitoring post-response management. (ALL MMB AGENCIES) Activities may include:
 - a. Conducting damage assessment, mitigation, restoration, monitoring, and post-response management in coordination with appropriate federal and/or state resource agencies and, as appropriate, consistent with NOAA, FWS, and State of Hawai‘i Damage Assessment and Restoration regulations, policies, and procedures (e.g., oil spills, ship groundings, tsunami-generated marine debris, damage assessments, monitoring alien species, monitoring coral bleaching events, collection of bleached coral or alien species); (ALL MMB AGENCIES) and
 - b. Conducting activities in response to an unusual mortality event (including but not limited to threatened and endangered species, marine mammals, and migratory birds) mass stranding or other urgent species response. (NOAA) (STATE) (FWS) Note: Activities occurring on or around species on the Endangered Species list shall consult the appropriate lead agency prior to taking action.

CULTURAL AND HISTORICAL RESOURCE IDENTIFICATION AND PROTECTION

19. Removing, moving, taking, harvesting, possessing, injuring, disturbing; or attempting to remove, move, take, harvest, possess, injure, or disturb post-contact artifacts as needed, subject to National Historic Preservation Act (NHPA) consultation when applicable, for the purpose of identifying, documenting, interpreting, preserving, and protecting the Monument’s cultural and historic resources. (ALL MMB AGENCIES)

20. Monitoring and surveying historic sites. (ALL MMB AGENCIES)
21. Conducting or allowing for the preservation and conservation of artifacts subject to successful NHPA Section 106 consultation and appropriate approvals from other Federal agencies (e.g., U.S. Navy), when applicable. (ALL MMB AGENCIES)
22. Non-commercial filming and photographic activities for the purposes of further documenting and capturing the history of the NWHI. (ALL MMB AGENCIES)
23. Locating historic artifacts using passive side scan sonar, metal-detector, or (land-based) ground penetrating radar. (ALL MMB AGENCIES)
24. Returning of any previously collected samples to appropriate areas in Papahānaumokuākea with proper cultural and biological protocols and in coordination with appropriate federal and/or state resource agencies and community partners, including OHA and the Papahānaumokuākea Native Hawaiian Cultural Working Group, as appropriate. (ALL MMB AGENCIES)
25. Recording of atmospheric, celestial, biological, and other environmental observations for the purpose of developing and understanding natural trends, changes and cycles. (ALL MMB AGENCIES)
26. Conducting native Hawaiian cultural protocols and ceremonies, including offering of culturally and biologically appropriate ho‘okupu in accordance with Monument regulations and Best Management Practices. (ALL MMB AGENCIES)
27. Removing, moving, taking, harvesting, possessing, injuring, disturbing; or attempting to remove, move, take, harvest, possess, injure, or disturb non-living culturally significant natural materials acquired during Monument operations and activities for cultural ceremony, practices and education. (ALL MMB AGENCIES)
28. Transferring culturally significant natural materials acquired during Monument operations and activities to Hawaiian cultural practitioners, in coordination with appropriate federal and/or state resource agencies and community partners, including OHA and the Papahānaumokuākea Native Hawaiian Cultural Working Group, and with the appropriate transfer documents and required permits. (ALL MMB AGENCIES)
29. Maintaining, preserving, caring for, and perpetuating Native Hawaiian wahi kūpuna (cultural sites) and iwi kūpuna (ancestral bones) in accordance with proper cultural protocols and consultation per the NHPA, Native American Graves Protection and Repatriation Act, Archeological Resources Protection Act, American Indian Religious Freedom Act and applicable sections of the Hawai‘i State Constitution, Hawai‘i Revised Statutes and Hawai‘i Administrative Rules. (ALL MMB AGENCIES)
30. Conducting activities necessary for maintaining and preserving historic sites on Midway Atoll. (ALL MMB AGENCIES)

OUTREACH AND EDUCATION

31. Gathering information and experiences from personnel within the Monument to develop agency web pages, Navigating Change projects, and other Monument educational outreach products. (ALL MMB AGENCIES)
32. Removing, moving, taking, harvesting, possessing, injuring, disturbing; or attempting to remove, move, take, harvest, possess, injure, or disturb non-living debris and biological samples and specimens such as albatross boluses and carcasses for educational and/or outreach projects. (ALL MMB AGENCIES)
33. Transferring educational and outreach materials (e.g., albatross boluses or other non-living debris or biological samples) shall be according to one of the following categories, subject to all applicable permits and Monument Management Board (MMB) approved transfer documents: (ALL MMB AGENCIES)
 - a. *Internal transfers.* Transfers among the MMB agencies provided such educational and/or outreach material shall remain within the custody of the MMB. (ALL MMB AGENCIES)
 - b. *External transfers.* Transfers outside of the MMB agencies if authorized in writing, to government agencies and accredited educational institutions, for the purpose of cultivating, informing, or involving constituencies that support or enhance conservation of the natural, cultural, and historic resources of the Monument. (ALL MMB AGENCIES)
 - c. *Loan Transfers.* Loans of biological samples or specimens, which must be returned to the MMB with a specified time frame and are subject to conditions stipulated in writing, to government agencies and accredited educational institutions for the purpose of supporting educational or outreach projects that enhance conservation of the natural, cultural, and historic resources of the Monument. (ALL MMB AGENCIES)
34. Conducting news media and VIP site visits to enhance public knowledge and understanding of Monument resources. (ALL MMB AGENCIES)
35. Conducting environmental, cultural, and historical education programs throughout the Monument by designated agency staff and contractors. (ALL MMB AGENCIES)

HAWAIIAN MONK SEAL CONSERVATION AND MANAGEMENT ACTIVITIES

36. Conducting the following population monitoring activities:
 - a. Conducting seal assessments by visually identifying animals, and marking and tagging animals; (ALL MMB AGENCIES) Note: Prior to authorization to conduct work which may result in the “take” of a protected species, consultation with the appropriate lead agency will occur to evaluate whether a separate ESA/MMPA permit shall be required;

- b. Instrumenting seals including but not limited to mounted cameras and telemetry tags. (NOAA)
37. Operating unmanned aircraft systems (UAS) to assist in monitoring Hawaiian monk seal population. (NOAA)
 38. Traversing Mokumanamana to conduct population assessment surveys only when full surveys cannot be completed by boat landing or UAS operations. (NOAA)
 39. Placing acoustic recording devices on submerged sandy substrate to capture underwater vocalizations of Hawaiian monk seals. (NOAA)
 40. Installing trail cameras in terrestrial areas to monitor entrapments and animal behavior. (NOAA)
 41. Disentangling monk seals from marine debris. (NOAA)
 42. Conducting health surveillance and response, including but not limited to cutting umbilical cords, antihelminthic treatments, lancing abscesses, administering antibiotics and vaccinations, responding to disease outbreaks, necropsy and collecting/archiving/transferring samples for further research and diagnostic collaboration. (NOAA)
 43. Translocating Hawaiian monk seals, consisting of the following types:
 - a. *Intra-atoll*: These translocations will include moving seals from areas of high risk where threats are imminent to safer areas and moving pups to promote maternal fostering when necessary. Field staff will perform these movements; greater resources (e.g., veterinarian care) will not typically be necessary. (NOAA)
 - b. *Inter-atoll*: These translocations will include transport of weaned female pups from atolls/islands of low survival to those of higher survival. (NOAA)
 - c. *MHI-NWHI*: These translocations will include transport of main Hawaiian Island (MHI) seals that are considered a threat to themselves or humans because they have demonstrated a pattern of interacting with humans. (NOAA)
 - d. *NWHI-captive care*: Seals may be taken into temporary captivity for treatment at appropriate, federally permitted rehabilitation facilities in the MHI for release back in the NWHI (i.e., permitted for captive care of injured, ill or prematurely weaned seals). (NOAA)
 - e. Aggressive male seal translocation to areas with no pups or juveniles. (NOAA)
 44. Reuniting nursing mothers and pups, when separated (includes instances of pup switches). (ALL MMB AGENCIES) Note: Prior to authorization to conduct work which may result in the “take” of a protected species, consultation with the appropriate lead agency will occur to evaluate whether a separate ESA/MMPA permit shall be required;
 45. Mitigating male aggression towards pups and juveniles (individual and multiple male-based aggression), including utilizing all federally permitted techniques (including, but not limited to, poles, rocks, slingshots, and air horns). Mitigation tools shall be applied as

appropriate for the given context (i.e., the intensity, severity and frequency of aggression and the location, with regard to other species in the area such as birds). Mitigation may include temporarily separating males from juveniles by placing either in temporary shore-pens (see below). Mitigation also may include removal of the male(s) from the area by:

- a. Translocation to a location where no pups or juveniles will be harmed; (NOAA)
- b. Placement in an appropriate, federally permitted facility that is agreeable and permitted to care for a male indefinitely; (NOAA)
- c. Lethal removal: this type of removal will only be applied when the above two options are not feasible, possible or exhausted. The preferred technique for euthanasia will be via physical means (e.g., firearm, captive bolt, etc.), in order for the carcass to remain in PMNM and for culturally appropriate and environmentally proper disposal to occur. When necessary, chemical euthanasia and removal of the carcass from PMNM will be allowed. (NOAA)

46. Conducting captive care of compromised seals to administer veterinary care and/or food supplementation. Captive care may include the capture and transport of seals to shore-pens (in the NWHI) or facilities in the MHI. NWHI seals under care in the MHI may be returned to the NWHI when a licensed veterinarian deems them rehabilitated and transport is feasible. The seals will then be released to the NWHI site deemed most appropriate for their subsequent survival (determined on the basis of such factors as the intensity and severity of imminent threats to the seals and recent survival trends at each atoll/island). (NOAA)
47. Monitoring shark activity at French Frigate Shoals. Monitoring may include camping on islets with shark incidents on nursing pups and recording shark activity and shark-seal interactions via hand-held or mounted cameras (cameras will be mounted on a pole 15' or less with no guy wires to be used only during the field season and attended daily by field staff). (NOAA)
48. Placing temporary shore-pens at select NWHI breeding sites to facilitate monk seal recovery activities described here within (e.g., translocations, captive care, and male aggression mitigation). (ALL MMB AGENCIES) Note: Prior to authorization to conduct work which may result in the "take" of a protected species, consultation with the appropriate lead agency will occur to evaluate whether a separate ESA/MMPA permit shall be required;
49. Attracting Monument living marine resources using baited hooks, with bait to include fish parts (brought from outside the Monument), shark remains (obtained from permitted activities), and salvaged monk seal tissues (obtained from deceased monk seals at French Frigate Shoals and brought from outside the Monument). (NOAA)
50. Removing, moving, taking, possessing, injuring, or disturbing; or attempting to remove, move, take, possess, injure, or disturb up to **13** Galapagos sharks (*Carcharhinus galapagensis*) within a distance of 700 meters from the shorelines of Trig, Gin, Little Gin and Round islets in consultation with OHA and the Papahānaumokuākea Native Hawaiian Cultural Working Group. Only Galapagos sharks with a minimum size of 2

meters (6.5 feet) tail length or greater shall be lethally removed. Permittees are required to safely release Galapagos sharks smaller than the minimum size limit as well as all other non-target species. The following four removal methods are authorized:

- a. Deploying a *hand-held harpoon* from shore or small boat when a targeted Galapagos shark is observed. Targeted shark shall then be hauled on shore or alongside a small boat for humane euthanasia using a .44 caliber bang stick. (NOAA)
 - b. Deploying a baited *handline* from shore or small boat. Targeted shark caught shall then be hauled on shore or alongside a small boat for humane euthanasia using a .44 caliber bang stick. (NOAA)
 - c. Deploying *bottomsets*, where each bottomset shall have a maximum of ten baited hooks and a buoy line at the top and an anchor (9-12 lb.) at the bottom. All bottomset gear shall be deployed only on sandy substrate and shall be closely monitored by field project personnel. (NOAA)
 - d. Deploying *drumlines*, where each drumline shall consist of a single baited hook and drum-buoy with gear configuration to allow baited hook to rest on the bottom or suspended above the seafloor. All drumline gear shall be deployed only on sandy substrate and shall be closely monitored by field project personnel. (NOAA)
51. Possessing fishing gear in support of permitted activities, within a distance of 700 meters from the shorelines of East, Trig, Gin, Little Gin, and Round islets. All fishing gear shall be monitored closely to prevent mortality of non-target species. (NOAA)
52. Placing anchors on submerged lands that are part of authorized fishing gear. All anchors shall be placed on sandy substrate and all anchors removed when fishing gear is retrieved. (NOAA)
53. Conducting necropsies on euthanized Galapagos sharks on Tern Island, FFS for the purpose of obtaining morphometric measurements, reproductive state, and removing samples of muscle, liver, vertebrae, and gut contents for scientific analyses. (NOAA)
54. Discharging of Galapagos shark remains (post-necropsy) at a distance of approximately 0.5 miles seaward from the FFS breaking reef. Global Positioning System (GPS) coordinates shall be recorded at each carcass discharge site. One carcass, including any lethal by-catch shall be disposed of at each site. (NOAA)
55. Transferring necropsy samples from Galapagos shark remains to researchers for scientific analyses:
- a. Diet analysis through isotope screening (vertebrae) (NOAA)
 - b. Diet analysis through fatty acid profiles (liver) (NOAA)
 - c. Ciguatera and mercury level testing (muscle and liver) (NOAA)

d. DNA analysis from fin clip and stomach contents, if available (NOAA)

56. Transferring biological samples (e.g., teeth and skin) for cultural purposes to practitioners shall occur only to such persons conducting protocol in PMNM. (NOAA)

57. Erecting temporary polyvinyl tents for housing monk seal field teams at French Frigate Shoals, Laysan, Lisianski, Pearl and Hermes and Kure. One tent at each site may have a radio antenna extending upwards <10ft. (NOAA)

*Considering the purpose of the proposed activities, do you intend to film / photograph federally protected species? Yes ☒ No ☐

For a list of terrestrial species protected under the Endangered Species Act visit:

<http://www.fws.gov/endangered/>

For a list of marine species protected under the Endangered Species Act visit:

<http://www.nmfs.noaa.gov/pr/species/esa/>

For information about species protected under the Marine Mammal Protection Act visit:

<http://www.nmfs.noaa.gov/pr/laws/mmpa/>

7. Answer the Findings below by providing information that you believe will assist the Co-Trustees in determining how your proposed activities are compatible with the conservation and management of the natural, historic, and cultural resources of the Monument:

a. How can the activity be conducted with adequate safeguards for the cultural, natural and historic resources and ecological integrity of the Monument?

All conservation and management activities conducted by the permit applicants will be carried out with strict safeguards for the natural, cultural, and historic resources of the Monument as required by Presidential Proclamation 8031, and other applicable law and agency policies and standard operating procedures. All agencies have field protocols and best management practices. These practices and procedures will minimize or eliminate disturbance to wildlife, flora, habitats, and cultural and historic resources. Long and short-term monitoring data is used to inform management and conservation actions to maintain the ecological, cultural and historic integrity of the Monument.

To safeguard all the resources and ecological integrity of the Monument, early and ongoing coordination of interagency activities will occur between the action agency and interested Monument partners as soon as details of activities are identified. For example, Monument partners will document proposed activities under a memo-to-file and a joint calendar of projected activities to be covered under the manager's permit is kept and continually updated by agency staff. In addition, logistics planning and coordination meetings between all Monument Management Board (MMB) agencies may be implemented to further synchronize activities. The goal of early coordination is the commitment to identifying, incorporating, and customizing best management practices for specific activities.

Additionally, pre-access permit and cultural briefings will be conducted for all new personnel entering the Monument and annually for all.

b. How will the activity be conducted in a manner compatible with the management direction of this proclamation, considering the extent to which the conduct of the activity may diminish or enhance Monument cultural, natural and historic resources, qualities, and ecological integrity, any indirect, secondary, or cumulative effects of the activity, and the duration of such effects?

The activities requested are directed by Presidential Proclamation 8031 and other state and federal laws, regulations, and policies. The applicants will manage the Monument's natural, historic and cultural resources, qualities, and ecological integrity in a way that will not diminish and will likely enhance them. Indirect, secondary, and cumulative effects of management activities are always considered. Activities will be in support of the Monument Management Plan (2008), including but not limited to priority management needs 3.1: Understanding and Interpreting the NWHI; 3.2: Conserving Wildlife and Habitats; 3.3 Reducing Threats to Monument Resources; 3.5: Coordinating Conservation and Management Activities; and 3.6: Achieving Effective Monument Operations.

c. Is there a practicable alternative to conducting the activity within the Monument? If not, explain why your activities must be conducted in the Monument.

On June 15, 2006, President George W. Bush established Papahānaumokuākea Marine National Monument by issuing Presidential Proclamation 8031 (Proclamation; 71 FR 36443, June 26, 2006) under the authority of the Antiquities Act (16 U.S.C. 431), with codifying regulations in 50 CFR Part 404. This Proclamation designated that the Monument would be managed by the Department of Commerce through NOAA, the Department of the Interior through FWS, and that the State of Hawai'i's jurisdiction in the region remained unchanged. Through the December 8, 2006 and the January 10, 2017 Memorandums of Agreement (MOA), NOAA, FWS, and the State of Hawai'i through the Department of Land and Natural Resources, and the Office of Hawaiian Affairs (OHA), became the agencies responsible for the conservation and management of the Monument. The applicants have been directed to provide unified conservation and management of the lands and waters of the Monument; therefore there is no practicable alternative to conducting management activities inside the Monument.

d. How does the end value of the activity outweigh its adverse impacts on Monument cultural, natural and historic resources, qualities, and ecological integrity?

The end value is to maintain all Monument resources and conduct adaptive management which will allow educated management decisions and provide for long-term protection of the Monument. By taking appropriate management actions – from monitoring to habitat enhancement and education – agencies will be able to anticipate needs, take appropriate action, and allow only activities that enhance the quality and integrity of the natural, historic and cultural resources of the Monument. Appropriate management actions prevent potential adverse impacts that include but are not limited to: invasive species outbreaks, overharvesting of natural

resources; marine debris damage; avian disease outbreaks, and monk seal population declines. In addition, the applicants will employ time-tested best management practices to minimize and mitigate adverse impacts.

With regard to shark removal activities at French Frigate Shoals for conservation and management of Hawaiian monk seals, to further safeguard natural resources, NOAA was granted a catch limit of 20 Galapagos sharks within 700 meters of four islets across French Frigate Shoals (Trig, Gin, Little Gin and Round islets) during the main pupping and weaning season which historically runs from May – September. To date, 7 sharks have been removed since 2010, leaving a quota of 13 Galapagos sharks which could be removed during the permit period. The French Frigate Shoals Galapagos shark population is estimated to be in the hundreds or low thousands. The number of Galapagos sharks likely involved in predation of monk seal pups in the shallows (i.e., around the French Frigate Shoals pupping islets) is estimated to be in the low tens based on sonic-tag data (C. Meyer pers comm.). Fishing staff are expert in shark identification and the only shark that is likely to be confused with the Galapagos shark is the grey reef shark; however reef sharks are significantly smaller in size and have been found to reach a maximum size of 1.60 meters in length across the Northwestern Hawaiian Islands. It is for this reason, as well as information obtained from C. Meyer's work on movement behavior of tagged Galapagos sharks, that the applicants are limiting removal to lethally take Galapagos sharks with a minimum size of two meters (6.5 feet) tail length or greater. NOAA would be required to as safely as possible release all Galapagos sharks smaller than two meters tail length, as well as all other non-target species.

e. Explain how the duration of the activity is no longer than necessary to achieve its stated purpose.

All conservation and management activities conducted by the permit applicants are conducted in the shortest possible window to prevent or eliminate disturbance to the natural, historic, and cultural resources of the Monument.

f. Provide information demonstrating that you are qualified to conduct and complete the activity and mitigate any potential impacts resulting from its conduct.

The applicants and their representative management, biological, interpretive, law enforcement, administrative, and education and outreach staff possess high levels of expertise and knowledge of the ecosystem and locations within the Monument. These experts provide their knowledge and recommendations in all management decisions so that all impacts are minimized and mitigated if necessary.

g. Provide information demonstrating that you have adequate financial resources available to conduct and complete the activity and mitigate any potential impacts resulting from its conduct.

The applicants have adequate financial resources available to conduct the proposed management activities. Federal funding is provided through congressional appropriation. State funding is provided through State of Hawai'i funding processes.

h. Explain how your methods and procedures are appropriate to achieve the proposed activity's goals in relation to their impacts to Monument cultural, natural and historic resources, qualities, and ecological integrity.

The methods and procedures used in the conservation and management activities by the permit applicants are appropriate to achieve the proposed activity's goals. All activities proposed are required for effective management of the Monument and are conducted in a way that minimizes impact as required by law. Management activities assist the applicants to protect the Monument natural, historic and cultural resources, qualities, and ecological integrity.

i. Has your vessel been outfitted with a mobile transceiver unit approved by OLE and complies with the requirements of Presidential Proclamation 8031?

All vessels used by the applicants that are not stationed in the Monument will be outfitted with a functional NOAA Office of Law Enforcement type-approved Vessel Monitoring System as required by 50 CFR Part 404.5 and stated in the Proclamation.

j. Demonstrate that there are no other factors that would make the issuance of a permit for the activity inappropriate.

There are no other factors that would make the issuance of a permit for the listed activities inappropriate.

8. Procedures/Methods:

The above activities will be conducted by employees, contractors, and volunteers under the direction and control of the applicants in accordance with Presidential Proclamation 8031 and all other applicable laws and regulations.

The applicants will abide by the following Best Management Practices, policies, and procedures, among others that may be developed, when operating in the Monument:

1. Marine Alien Species Inspection Standards for Maritime Vessels (BMP# 001);
2. Protocol for Acquiring Avian Blood Samples (BMP# 002);
3. Human Hazards to Seabirds (BMP# 003);
4. Best Management Practices for Boat Operations and Diving Activities (BMP# 004);
5. Protocols to Reduce Impact to the Laysan Finch (BMP# 005);
6. General Sampling and Transport Protocols for Collected Samples (BMP# 006);
7. Best Management Practices for Terrestrial Biosecurity (BMP# 007);
8. Seabird Protocols Necessary for Conducting Trolling Research and Monitoring in Papahānaumokuākea Marine National Monument (BMP# 008);
9. Best Practices for Minimizing the Impact of Artificial Light on Sea Turtles (BMP# 009);
10. Marine Wildlife Viewing Guidelines (BMP# 010);
11. Disease and Introduced Species Prevention Protocol for Permitted Activities in the Marine Environment (BMP# 011);
12. Precautions for Minimizing Human Impacts on Endangered Land Birds (BMP# 012);

13. Nonnative Species Inspection Requirements at Midway Atoll (BMP# 015);
14. Best Management Practices for Activities on Nihoa (BMP# 016);
15. Best Management Practices for Maritime Heritage Sites (BMP# 017);
16. Rodent Prevention and Inspection Standards for Permitted Vessels (BMP# 018);
17. Best Management Practices for Activities on Mokumanamana (Necker Island) (BMP# 019);
18. Best Management Practices to minimize the spread of nuisance alga (BMP# 20);
19. Health and Safety Plans, and Emergency Response Plans;
20. All FWS refuge policies and procedures for conduct in the two wildlife refuges (Hawaiian Islands National Wildlife Refuge and Midway Atoll National Wildlife Refuge);
21. All policies and procedures for conduct in Northwestern Hawaiian Islands Hawai'i State Marine Refuge and Kure Atoll State Seabird Sanctuary;
22. Northwestern Hawaiian Islands Coral Reef Ecosystem Reserve Executive Orders;
23. Hawai'i Administrative Rules, §13-60.5, the Hawai'i Revised Statutes, § 187A-6; and
24. All other applicable state and federal laws and regulations.

NOTE: If land or marine archeological activities are involved, contact the Monument Permit Coordinator at the address on the general application form before proceeding.

9a. Collection of specimens - collecting activities (would apply to any activity): organisms or objects (List of species, if applicable, attach additional sheets if necessary):

Collections will occur as necessary to support the management activities listed under Question 6, Number 2 (Resource Survey and Monitoring). Collections will occur as needed in the following instances:

- Collecting species for propagation or translocation;
- Collecting post-contact artifacts as needed;
- Collecting biological, climatological, chemical, geological, or archaeological samples for study;
- Collection of biological voucher specimens that cannot be visually identified on the spot and/or may represent new geographic records or new species;
- Collection of culturally significant natural materials for cultural ceremonies and practices;
- Collection of specimens and biological samples for educational outreach activities; and
- Collection of specimens and biological materials for monitoring and research purposes to include organisms found dead and non-lethal biological samples, if such collection supports stated research or monitoring needs. (For example: birds collected to determine cause of death; birds and other samples collected for other information (e.g. genetic or isotope analyses); plastic pollution studies; and feather and egg samples for genetic and isotope sampling.)

Answers to the following will be dependent on specific management activities, and will be reported on per activity to document and track actual collections.

Common name:

Scientific name:

& size of specimens:

Collection location:

☒ Whole Organism ☒ Partial Organism

9b. What will be done with the specimens after the project has ended?

Collections and specimens will be processed and archived according to agency protocols and Monument Best Management Practices. Some material may be provided for educational use or for museum vouchers and studies. Cultural materials may be provided to Hawaiian cultural practitioners when applicable, in coordination with appropriate federal and/or state resource agencies, including OHA. When practicable, and desirable, collections and specimens will be returned to the Monument at the location of collection.

9c. Will the organisms be kept alive after collection? ☒ Yes ☒ No

Management activity dependent

• General site/location for collections:

Management activity dependent

• Is it an open or closed system? ☒ Open ☒ Closed

Management activity dependent

• Is there an outfall? ☒ Yes ☒ No

Management activity dependent

• Will these organisms be housed with other organisms? If so, what are the other organisms?

Management activity dependent

• Will organisms be released?

Management activity dependent

10. If applicable, how will the collected samples or specimens be transported out of the Monument?

Collected samples and specimens will be transported out of the Monument by approved aircraft or vessel unless used for management within the Monument. Appropriate media for preservation will be used, and are incident or specimen specific.

11. Describe collaborative activities to share samples, reduce duplicative sampling, or duplicative research:

Collaborative activities are always a goal, and are incident specific. Collaboration opportunities will be sought out and will be entered into as opportunities present themselves. Monument Co-Trustee representatives and the Monument Management Board will work collaboratively to achieve the desired results, thus reducing duplicative sampling.

12. List all specialized gear and materials to be used in this activity:

All gear and materials necessary for the activities listed in Section B, Number 6 are either available on location or will be provided by the acting agency as necessary. All gear and materials will be selected and treated according to invasive species and disease prevention protocols.

13. List all Hazardous Materials you propose to take to and use within the Monument:

All hazardous materials necessary for the activities listed in Section B, Number 6 are either available on location or will be provided by the acting agency as necessary. Hazardous materials on the islands will be used in amounts that will sustain an approved activity for an appropriate time period. Inventory of hazardous materials will be conducted annually to reduce or minimize long term storage in order to reduce spills or accidents per OSHA standards. Unused and old hazardous materials brought into the Monument will be removed appropriately for disposal. All U.S. Department of Transportation safety measures will be followed for storage and transport of hazardous materials within the Monument.

14. Describe any fixed installations and instrumentation proposed to be set in the Monument:

Fixed installations and instrumentation will be used in marine and terrestrial survey, monitoring, and conservation activities such as:

- Placement, maintenance, testing, and removal of measuring devices and related equipment;
- Placement of weighted floats and/or lines affixed directly to the seabed for the purposes of grounding response, or benthic surveys;
- Setting of survey stakes;
- Coring the seabed to determine adequacy of the substrate for installation of moorings, and permanent monitoring stations;
- Installation and maintenance of moorings, boundary buoys, and permanent monitoring stations; and
- Placement of scientific equipment.

All installed hardware, including but not limited to instrumentation, survey stakes, moorings, buoys, and scientific equipment will be removed from the Monument upon completion of their respective projects.

15. Provide a timeline for sample analysis, data analysis, write-up and publication of information:

Samples and data will be analyzed as quickly as possible if they are collected, and publication of resulting information will follow. All data or a summary description will be provided in the permit reports as required by the permit resulting from this application.

16. List all Applicant's publications directly related to the proposed project:

N/A

With knowledge of the penalties for false or incomplete statements, as provided by 18 U.S.C. 1001, and for perjury, as provided by 18 U.S.C. 1621, I hereby certify to the best of my abilities under penalty of perjury of that the information I have provided on this application form is true and correct. I agree that the Co-Trustees may post this application in its entirety on the Internet. I understand that the Co-Trustees will consider deleting all information that I have identified as “confidential” prior to posting the application.

JARED UNDERWOOD

Digitally signed by JARED UNDERWOOD
Date: 2023.09.28 13:34:55 -10'00'

Jared Underwood
Superintendent
Papahānaumokuākea Marine National Monument
U.S. Department of the Interior, U.S. Fish and Wildlife Service

Date

ROBERTS.ERIC.TROY.1177444614

Digitally signed by ROBERTS.ERIC.TROY.1177444614
Date: 2023.09.25 15:28:27 -10'00'

Eric Roberts
Superintendent
Papahānaumokuākea Marine National Monument
U.S. Department of Commerce, National Oceanic and Atmospheric Administration

Date



Oct 5, 2023

Brian Neilson
Division of Aquatic Resources Administrator
State of Hawai‘i, Department of Land and Natural Resources

Date



Oct 6, 2023

Colin Kippen
Ka Pouhana (Interim)
Office of Hawaiian Affairs

Date

**SEND ONE SIGNED APPLICATION VIA MAIL TO THE MONUMENT OFFICE
BELOW:**

NOAA/Daniel K. Inouye Regional Center
NOS/ONMS/Papahānaumokuākea Marine National Monument
Attention: Permit Coordinator
1845 Wasp Blvd., Building 176
Honolulu, HI 96818
nwhipermit@noaa.gov
PHONE: (808) 725-5800 FAX: (808) 455-3093

DID YOU INCLUDE THESE?

- ☐ Applicant CV/Resume/Biography
- ☐ Intended field Principal Investigator CV/Resume/Biography
- ☐ Electronic and Hard Copy of Application with Signature
- ☐ Statement of information you wish to be kept confidential
- ☐ Material Safety Data Sheets for Hazardous Materials