

Papahānaumokuākea Marine National Monument
RESEARCH Permit Application

NOTE: *This Permit Application (and associated Instructions) are 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:

Papahānaumokuākea Marine National Monument Permit Coordinator

6600 Kalaniana'ole Hwy. # 300

Honolulu, HI 96825

nwhipermit@noaa.gov

PHONE: (808) 397-2660 FAX: (808) 397-2662

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

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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: Kekuewa Kikiloi and Dr. Michael Graves

Affiliation: Doctoral Candidate at the University of Hawai'i Department of Anthropology, Department Chair University of New Mexico.

Permit Category: Research

Proposed Activity Dates: not determined yet

Proposed Method of Entry (Vessel/Plane): vessel

Proposed Locations: Mokumanamana

Estimated number of individuals (including Applicant) to be covered under this permit: 1-2 people for on island access to Mokumanmana for research. No additional people needed.

Estimated number of days in the Monument: dependent upon ship timing, no more than 1 day on island needed.

Description of proposed activities: (complete these sentences):

a.) The proposed activity would...

The proposed activity would help further cultural research initiatives that are a priority for the Papahānaumokuākea Marine National Monument by answering unresolved questions about the timing and settlement of Mokumanamana. This is a continuation of previous research efforts that will serve management needs by creating a clear baseline of documentation for cultural sites on Mokumanamana and understanding its sequence of occupation and use.

b.) To accomplish this activity we would

To accomplish this activity we would need to get approval for this Monument access permit. Since this constitutes single research project has required a number of fieldseasons and accesses (due to the remote nature, short duration of fieldseasons, and infrequency of ship visits), we will go through the process again to obtain a multi-year Archaeological Resources Protection Act (ARPA) Permit and a multi-year National Historic Preservation Act (NHPA) Section 106 Consultation Approval that extended through 2011-12. We'll continue discussion with NOAA

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(and also USFWS) about possible ship berths for this upcoming research season.

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

This activity would help the Monument enhance their understanding of their cultural resources. Both Nihoa and Mokumanamana are listed on the National Register for Historic Places and are a critical aspect of its World Heritage value. The research would help us better understand the history of Native Hawaiian voyaging, exploration, and colonization in the region. Overall, the dissertation project in its entirety has already helped renew interest in traditional cultural practices (the voyages of the Hokule'a) and protocol, the development of a education curriculum and outreach materials (Center for Hawaiian Studies, Navigating Change, NOWRAMP), and informed management policy (NWHICRER and Monument Management Plan)

Other information or background: none

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Section A - Applicant Information

1. Applicant

Name (last, first, middle initial): Kikiloi, Scott T. (Kekuewa), and Graves, Michael W.

Title: Doctoral Candidate, Department of Anthropology at the University of Hawai'i at Manoa.

Chair of the Department of Anthropology at the University of New Mexico, Committee Chair for Kekuewa Kikiloi (Doctoral candidate at the University of Hawai'i Mānoa)

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

Kekuewa Kikiloi, Graduate Student, University of Hawai'i at Mānoa Department of Anthropology.

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

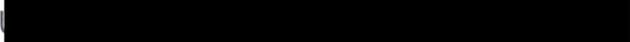
University of Hawai'i at Manoa
Department of Anthropology



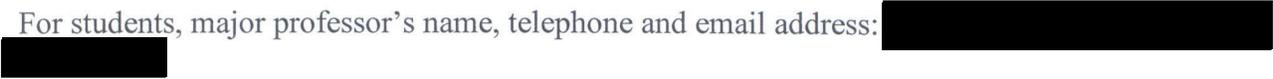
University of New Mexico
Department of Anthropology



Phone: 

Fax: 

Email: 

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

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

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University of Hawai'i at Manoa Department of Anthropology and University of New Mexico Department of Anthropology.

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):

Unknown at this time and dependent upon approval of a ship berths during the Summer-Fall research season. Two personell requested:

(1) Field Principal Investigator: Kekuewa Kikiloi, U.H.M, [REDACTED]
[REDACTED]

(2) Additional USFWS monitor (Anan Raymond)

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Section B: Project Information

5a. Project location(s):

Ocean Based

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

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

Location Description:

Mokumanamana (Necker) (23° 35' N latitude, 164° 42' W longitude) lies northwest of Nihoa and about 510 km. from Kaua'i (Figure 4). The island comprises of about 0.19 km² of land that measure about 1370 m. long, by 150 m. wide at its widest point with a maximum elevation of 82 m. Steep sides define the perimeter of Necker which consists of two parts. Five peaks extend along the east-west island ridge, which extends 1200 m. long and varies in width from 60-80 m. Shallow saddles separate the peaks except for the peak to a gap about 0.5 m. above sea level. The smaller portion of Mokumanamana, the northwest cape, extends about 246 m. northeast from the gap (Clapp and Kridler 1977; Clapp et. al 1977; Emory 1928; Palmer 1927). The island's surface slopes gently to the north. The slopes are sparsely covered with a variety of common coastal plants such as 'āweoweo (*Chenopodium oahuense*), and smaller succulents like ihi (*Portulaca lutea*), 'ākulikuli (*Sesuvium portulacastrum*) (Evenhui and Eldredge 2004). There are twenty four bird species that have been documented on the island. There are no well defined stream channels as rainwater either sinks into the rock or runs off through unorganized channels. One of two small seeps of groundwater occurs about 15 m. above sea level a little to the west of Bowl Cave (Site NK). The second seep is about 10 m. above sea level on the north side of the westernmost saddle of the main island (Bishop 1885 A,B; Clapp and Kridler 1977; Clapp et. al 1977; Emory 1928; Palmer 1927).

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

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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

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

This proposed research is a continuation of Kikilo'i's dissertation project that looks at the dynamics of traditional Polynesian voyaging, exploration, settlement, and interaction in the Hawaiian archipelago as it extends into the remote the 'Northwestern Hawaiian Islands,' an expansive oceanic region that spans for more than 1,759 kilometers to the northwest of the 'main' Hawaiian islands. It is here that two small rugged islands, Nihoa and Mokumanamana, are located. Though quite barren and seemingly inhospitable, these two islands contain over 140 archaeological sites, including residential features, agricultural terraces, ceremonial structures, shelters, cairns, and burials, that bear witness to a pre-contact occupation and use of these islands. While these islands have seen previous archaeological research and these projects have documented numerous cultural sites on the islands, there have been few contemporary studies focused on how human colonization process works in the most marginal limits of Oceania.

It is important to point out that fieldwork and data gathering is largely complete for this dissertation project. From 2002-2005, a comprehensive research project was conducted to compile oral traditions and ethno-historical records concerning the NWHI Hawaiian Islands. This research has played a major role in the revitalization of traditional cultural practices in the area and the renewed interest in traditional voyaging. Its also helped in providing historical guidance in the naming of the newly designated Papahānaumokuākea Marine National Monument in 2007. In August 2005, October 2006, and October 2008 we conducted three field work expeditions to Nihoa. In 2008-09, we completed our two field seasons at Mokumanamana.

The purpose of this trip is to collect additional coral samples we missed on Mokumanama last expedition to supplement the single coral date result we received from University of New Mexico's Dept. of Earth & Planetary Sciences Lab. Samples were identified to be present on at least 3 additional sites but were not collected at the time because we were not sure if they would be datable since they were so severely eroded. Now that we know it can be dated, its critical to add these additional samples to the analysis to create a sequence of dates for Mokumanama's occupation and use.

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:

The Findings are as follows:

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

The proposed research will be compliant with all USFWS biological protocols as it pertains to

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island access. All gear and clothing will be brand new and frozen for two days. If an opportunity does arise where we can get a ship berth, both federal agencies (NOAA, USFWS) are mandated to have the adequate safeguards as to ensure that no invasive species are introduced into the NWHI chain. In terms of cultural protocol, Kekuewa Kikilo'i is a native Hawaiian cultural practitioner and he will be doing chants and protocols learned from Aunty Pua Kanahēle through his learning in Na Kupu'eu Paemoku. As someone trained in cultural resource management, we've adopted methods for this research that has the lowest impact possible and enables me to move quickly across the island and effectively record and map utilizing- tape and compass, hand held trimble GPS, preset forms to document attribute information, printed site maps to record areas of disturbance.

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? Proclamation 8031, which established the NWHI Marine National Monument, "seeks to preserve access for Native Hawaiian practices." With a considerable lack of cultural information concerning the history and practices in this remote area, research initiatives such as the one proposed here should be supported in order to understand the significance of this area to Native Hawaiian people. This research builds upon our previous ethno-historical study, two cultural protocol trips on the Hokule'a, two archaeological field seasons on Nihoa, a preliminary analysis of basalt artifacts in the U.H. collection gathered in 1992, and a current loan request to Bishop Museum to conduct non-destructive EDXRF analysis on their collections and conduct AMS dating on carbon materials. Almost all the cultural research initiatives for the NWHI in the past five years has had overlap with this dissertation research. Ultimately, this has helped serve Monument management needs in a variety of ways.

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. This research project is about Nihoa and Mokumanamana and their unique cultural resources and the role those resources play within the broad patterns of Hawaiian pre-contact history. In order to minimize time in the field we have used other data sets (existing archaeological artifact collections already in the Museum and archival records of the islands' sites). We've also limited our request to make new field collections, utilized non-intrusive methods (no excavations, relative dating methods- seriation techniques), and laboratory analyses of limited impact (non destructive EDXRF sourcing and AMS dating).

d. How does the end value of the activity outweigh its adverse impacts on Monument cultural, natural and historic resources, qualities, and ecological integrity? There will be very little adverse impact to any of the resources due to the proposed short duration of stay and presence on the island. Only surface collection of a few coral samples will be done at a few sites.

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

Our hope is to get on island, collect the samples and leave. There is no additional work that will need to be done at this point in time.

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

Please see attached CVs for both Kekuewa Kikiloi and Dr. Michael Graves.

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 proposed research has required a relatively low budget for personal costs for new gear for going on-island. The real costs have come post-field work during the analysis phase of the research. All the necessary equipment needed to conduct mapping and surveying of cultural sites will be utilized from the U.H. Mānoa Archaeological Laboratory. In the past both NOAA and USFWS have been extremely supportive in finding berth space on their research vessels to go up to the NWHI. Without their commitment to find space on a ship none of this research could ever be accomplished. So far the following funds have been appropriated for this project: ship berths (NOAA's Hi'ialakai August 2005, USFWS October 2006); EDXRF analysis of basalt artifacts (\$3000 total provided by U.H. Social Sciences Grant) digitalization of Nihoa maps (\$1200.00 total provided by Monument & \$9000.00 from OHA), Th-230 dating of coral samples from Nihoa and Mokumanamana (\$16,000 total provide by Monument/ \$8,500 USFWS), Paleobotanical Identification & AMS dating (\$12,000 USFWS), Soil Nutrient Analysis (inkind contribution by Stanford University). Other costs for gear have been covered through scholarships provided by 'Aha Pūnana Leo Lamakū, Kamehameha Schools 'Imi Na'auao, and Hawai'i Community Foundation. The application has also received a Mellon Fellowship for the 2011-12 school year.

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.

As stated before we've tried our best to minimize time in the field and to utilize other data sets (existing archaeological artifact collections already in the Museum). We've also limited our request for surface collections while in the field, utilized non-intrusive field methods (limiting ourselves to no subsurface excavations as to preserve the integrity of subsurface deposits and avoid encountering human burials). We are proposing the use of relative dating methods such as seriation that utilizes observational data about architectural attributes. Also in terms of laboratory analyses we are using non-destructive EDXRF sourcing that preserves the integrity of the basalt artifacts and AMS dating techniques that utilize only exceeding tiny samples of carbon.

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

We currently do not have a vessel, but are hoping to get a ship berth on a NOAA ship or USFWS

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ship either this Summer or Fall. We're currently in discussion with Randy Kosaki from the Papahānaumokuākea Marine National Monument, and Anan Raymond of the USFWS about this. We applied for a permit in order to anticipate any opportunities that may arise during the course of the research season.

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

With the exception of this permit request, all permits required for access and conducting archaeological field work will be attained again for this research if required. We will contact USFWS concerning the possible requirement of a new Archaeological Resources Protection Act permit, and whether an additional National Historic Preservation Act Section 106 Consultation is necessary to ensure that everything is pono (culturally appropriate).

8. Procedures/Methods:

All research activities will take place during the day. The location of most of the archaeological and cultural sites are along the ridgeline of Mokumanamana. No outside assistance from the Monument staff will be needed.

NOTE: If land or marine archeological activities are involved, contact the Monument Permit Coordinator at the address on the general application form before proceeding, as a customized application will be needed. For more information, contact the Monument office on the first page of this application.

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

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?

Any coral samples or artifacts collected will be held in curation at the U.H. Mānoa

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Archaeological Laboratory.

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

- General site/location for collections:

- Is it an open or closed system? Open Closed

- Is there an outfall? Yes No

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

- Will organisms be released?

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

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

There are no other collaborative activities running concurrently to this research project. After analysis of the collected materials is complete they will be retained and curated by the U.H. Archaeological Laboratory. The applicants have been in contact with Anan Raymond, Regional Archaeologist with the USFWS and have had discussions about formalizing a curation agreements with both the U.H. Archaeological Laboratory and Bishop Museum to emphasize that all collections derived from the Northwestern Hawaiian Islands are part of the jurisdiction and property of the NWHI Marine National Monument. Currently there no document that clarifies this jurisdiction and loan transactions are at the sole discretion of the curational facilities. The lack of process for making a loan request, no developed loan criteria, and no timeline for the duration of a loan, has created a complicated situation with very little accountability and uncertain stewardship of the NWHI artifact collections. Because of this, a number of studies have been conducted with no consultation with the Monument and responsible agencies (USFWS, State of Hawai'i, OHA). We've urged all parties involved (USFWS, Papahānaumokuākea Marine National Monument, U.H. Department of Anthropology, and Bishop Museum) that this is something that needs to be looked at and resolved soon. We've tried to be as proactive as possible and have at minimal a written approval by USFWS to move forward with utilizing previously gathered collections. We are open to further dialogue and consultation on this matter.

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For this project, any cultural materials collected for analysis will be returned to the island to their original provenience and context after analysis and publication of the dissertation research unless requested to do so otherwise by the Monument.

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

Trimble handheld GPS, Clipboard, Tape Measures

12b. List all Hazardous Materials you propose to take to and use within the Monument:

none

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

none

14. Provide a time line for sample analysis, data analysis, write-up and publication of information:

Majority of the data analysis concerning dating has been completed, and these additional samples will be a necessary supplement to the single coral date for Mokumanamana Island. A basic write up will be done for the results, but the final interpretation will be the part of Kekuewa Kikiloi's dissertation for graduation.

15. List all Applicants' publications directly related to the proposed project:

Kikiloi, K. (2006). Reconnecting with Ancestral Islands: Examining the historical relationship between kānaka maoli and the Northwestern Hawaiian Islands. A Report to the National Oceanic Atmospheric Administration and the Northwestern Hawaiian Islands Coral Reef Ecosystem Reserve, January 2006.

Kikiloi, K. (2010) Rebirth of an Archipelago: Sustaining a Hawaiian Cultural Identity for People and Homeland. In Hūlili: Multidisciplinary Research on Hawaiian Well-being. Vol. 7 no. 1. Link:
http://www.ksbe.edu/spi/Hulili/Hulili_vol_6/5_Rebirth_of_an_Archipelago.pdf

Lundblad, Steven P., Mills, Peter R., Drake-Raue, Arian, and Kikiloi, Scott Kekuewa (2010). Non-destructive EDXRF Analysis of Archaeological Basalts, in Shackley, M.S. (ed.), X-Ray Fluorescence Spectrometry in Geoarchaeology, Springer Press.

Graves, Michael and Kekuewa Kikiloi. in prep. Archaeological Investigations of Nihoa Island in Papahānaumokuākea Marine National Monument: Field Seasons: August 2005, October 2006, October 2008. Prepared for U. S. Fish Wildlife Services, State of Hawaii, and the National Oceanic Atmospheric Administration.

Graves, Michael and Kekuewa Kikiloi. in prep. Archaeological Investigations of Mokumanamana (Necker) Island in Papahānaumokuākea Marine National Monument: Field seasons July 2008, August 2009. Prepared for U. S. Fish Wildlife Services, State of Hawaii, and

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the National Oceanic Atmospheric Administration.

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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.

Michael W Graves
Signature

April 29, 2011
Date

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

Papahānaumokuākea Marine National Monument Permit Coordinator
6600 Kalaniana'ole Hwy. # 300
Honolulu, HI 96825
FAX: (808) 397-2662

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