



Naval Facilities Engineering Command, Pacific
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**MILITARY RELOCATION TO GUAM AND CNMI
PROGRAMMATIC AGREEMENT (PA) MEMO #1**

Project: Revised PA Memo: Water Well Development-Design and Construction	Date: July 31, 2017 (review by September 14, 2017)
Project Location: Andersen Air Force Base	Prepared By: NAVFAC Pacific

PROJECT SUMMARY:

NOTE: This PA Memo has been amended to reflect changes in the Area of Potential Effects (APE) that were necessary as a result of design requirements. In addition, the DoD has determined that due to the timing of this memo, construction of the water wells should also be included. Test well locations have not changed, and are within the previously consulted on APE that was determined as having no historic properties affected.

This project proposes to conduct design studies and construction of water well facilities at Andersen Air Force Base. The wells would provide approximately 1.2 million gallons of water per day, and would be used to support the increase in personnel, facilities, and operations associated with the military relocation.

Design efforts include topographical surveys, geotechnical surveys, exploratory well drilling, and possible munitions of explosive concern (MEC) removal. Specifically, design efforts require vegetation trimming, geotechnical borings (via auger or rotary wash drilling), mechanized excavation, and exploratory water well drilling to facilitate soil and groundwater sample collection.

Generally, geotechnical surveys for structures, buildings, tanks, and roads entails drilling borings with a truck-mounted drill rig using 20.2 to 30.5 centimeter (8- to 12-inch) diameter augers or using rotary wash drilling with temporary steel casings and drilling fluid. Total number of borings will vary depending on facility type from 1 to 5 borings for each structure. Boring depths vary, but generally range from 3.0 meters (10 feet) to 36.6 meters (120 feet). Test pits will be excavated every 229 to 305 meters (750 to 1,000) feet along future permanent roads, and in future permanent facility yard areas for the treatment/transfer pump station and water storage reservoir. Test pit depths vary, but generally range from 1.5 to 3.0 meters (5 to 10 feet).

Exploratory water well work entails drilling 25.4 centimeter (10-inch) to 30.5 centimeter (12-inch) diameter boreholes with a truck-mounted drill rig. Pump tests will be carried out at each borehole

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to develop and determine the water production capacity of the well. If test wells have sufficient yield, boreholes will be widened to 45.7 centimeter (18-inch) to 55.9 centimeter (22-inch) diameter. Water well test borehole and production borehole depths vary, but generally range from 140 meters (460 feet) to 180 meters (590 feet) depending on existing ground surface elevations and depth to the groundwater table.

Construction of the water well system consists of raw water transmission lines, water treatment, water storage, water transfer pump facility, a power and communications system, and treated water transmission lines. Two of the well sites will be equipped with generator buildings and the remainder of the well sites will be equipped with electrical buildings. Construction work includes site preparation, paving and construction site improvements, electrical and mechanical utilities, and MEC removal.

Site preparation consists of vegetation clearing and grubbing across the construction area. Paving and construction site improvements include site demolition, construction of access roadways, an emergency access roadway, and installation of a 2.5 meter high chain link fence with cable barriers, bollards, and deadmen for the emergency access roadway. Electrical utilities will require primary electrical distribution, secondary electrical distribution, transformers, exterior lighting, and telecommunications infrastructure. Mechanical utilities include fire protection water distribution lines. Removal of MEC involves metal anomaly detection and investigation requiring hand excavation by qualified unexploded ordnance consultants.

This project was identified after preparation of the Final Environmental Impact Study (FEIS) for the military relocation to Guam and the Commonwealth of the Northern Mariana Islands (CNMI) and Appendix E under various projects of the 2011 Programmatic Agreement (PA). In accordance with Stipulation I.E. of the PA, it is a new project associated with the Guam and CNMI Military Relocation (the Undertaking). This memorandum presents information to allow the Guam State Historic Preservation Officer (SHPO) to provide comments on the identification and evaluation of historic properties in the proposed project area and the determination of effect.

PROJECT LOCATION:

The proposed well field site at Andersen Air Force Base (AAFB) is located near Potts Junction and Route 9 on the west side of the Munitions Storage Area (MSA) as shown in Figure 1. This project was previously identified in Appendix E of the PA. Note that the area identified in Figure 1 depicts a general area suitable for release to the public, as the well locations are withheld for security reasons. A buffer zone is included in planning to allow the contractors to avoid historic properties and threatened and endangered plant species.

AAFB covers 6,275 ha (15,500 acres) and occupies a mostly flat, uplifted limestone plateau in the northern portion of the island of Guam. The Main Operations area in the eastern third of the base includes the main active airfield and an array of operations, maintenance and community support

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facilities, most of which are located along the South Ramp. The North Ramp area includes operations of the Navy's HSC-25, munitions storage in the former Strategic Air Command storage area, and parking apron space for contingency operations. The central third of the base is a Munitions Storage Area (MSA). The western third is Northwest Field, a WWII-era airfield that is currently used for fixed-wing aircraft, helicopter training, and various field exercises and bivouacs.

The total APE for P-103 is 19.87 hectares (49.1 acres).

IDENTIFICATION OF HISTORIC PROPERTIES:

Scope of DoD Identification Efforts

In planning for the Undertaking, the Department of Defense (DoD) first conducted a data gap analysis to determine the need for supplemental identification and evaluation surveys and then conducted those surveys. In consultation with the Guam SHPO, Advisory Council on Historic Preservation (ACHP), National Park Service (NPS) and Concurring Parties to the 2011 Programmatic Agreement (2011 PA), the DoD has applied the results of those identification efforts to the siting/lay down of individual projects to avoid and minimize effects to historic properties to the extent practical. DoD has provided documentation of these efforts to the Signatories and Invited Signatories via Appendices D and E of the 2011 PA.

DoD surveys and evaluations have focused on project-specific APEs, defined consistent with 36 CFR §800.16(d) to include those portions of the island of Guam subject to direct and indirect effects of projects included in the Undertaking.

More specifically, the entirety of the P-103 APE has been subject to one or more of the historic property identification efforts listed in 36 CFR §800.4(b)(1), which may include background research, consultation, oral history interviews, sample field investigation and field survey. As such, results of identification and evaluation efforts in the vicinity of, and including the P-103 APE can be found in the following original studies of cultural and/or historic resources:

Church, M., J. Hokanson, J. Gallison, and M. Jennings

2009 Cultural Resources Survey of 297 Acres at Andersen Air Force Base, Guam. Prepared for AAFB, Guam. June.

Dixon, B. and S. Walker

2011 Cultural Resource Investigations Conducted in the Territory of Guam Supporting the Joint Guam Build-Up Environmental Impact Statement: Final Archaeological Surveys on Guam 2009 at Proposed Utility Sites, Harmon Property, and AAFB. Prepared by for Naval Facilities Engineering Command, Pacific Division. Prepared by Cardno TEC, Inc., Honolulu, HI.

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Dixon, B., S. Walker, and R. Schaefer

2011b Final Report Cultural Resource Investigations Conducted in the Territory of Guam Supporting the Joint Guam Build-Up Environmental Impact Statement: Final Archaeological Surveys on Guam 2010 on AAFB, Prepared by the Naval Facilities Engineering Command, Pacific Division. Prepared by Cardno TEC, Inc., Honolulu, HI.

Dixon, B., T. Rudolph, A. Jalandoni, I. Nelson, M. Hroncich-Conner, S. Leary, R. Schaefer, E. Lash, M. Todd

2014a Draft Proposed Guam and CNMI Military Relocation 2012 Roadmap Adjustments SEIS Live-Fire Training Range Complex Footprint and Main Cantonment Alternatives and Access Route Options In-Fill Cultural Resource Studies. Prepared for the Naval Facilities Engineering Command, Pacific Division. Prepared by Cardno TEC, Inc., Honolulu, HI. 1 March.

Dixon B.

2015 Andersen Air Force Base, Guam National Historic Preservation Act Section 110 Cultural Resources Identification and Evaluation Studies, 2015. Prepared for the Naval Facilities Engineering Command, Pacific Division. Prepared by Cardno TEC, Inc., Honolulu, HI. Forthcoming.

Yee et al 2004 Yee, S., D. Welch, and J. Allen

2004 Archaeological Overview Survey Report for Andersen Air Force Base, Guam. Prepared for 36 CES/CEVN, AAFB, Guam and Earth Tech, Inc., Honolulu, HI. Prepared by International Archaeological Research Institute, Inc. Honolulu, HI.

Results of the above identification efforts indicate that while there is one archaeological site within the APE, it was determined ineligible for listing in the National Register of Historic Properties. The water wells were designed specifically to avoid historic properties, and there are none located within the P-103 APE.

Following the DoD's last submittal of PA Memo #1, the Guam SHPO objected to the DoD's determination of effect due to a disagreement on the identification of historic properties, and submitted a letter of non-concurrence. Following consultation between DoD and SHPO on April 14, 2016, both parties have agreed that the project would have no adverse effect on historic properties. However, they requested that the DoD archaeologist provide spot monitoring within portions of the project area that occur near archaeological feature concentrations. No comments for the proposed project were received from the public following PA Memo #1.

The Guam SHPO archaeologist toured the project area for the well field on May 18, 2016 with

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DoD staff and concurred that the project will not affect historic properties, staying within the APE that will be flagged by DoD natural resource and cultural resource personnel. Steps the SHPO archaeologist requested are outlined below.

The Guam SHPO archaeologist requested that DoD:

- Walk the access paths flagged by the DoD Natural Resource staff, and flag the access corridors and well site footprint to maintain any disturbance to those areas, and to record any unexpected cultural material discoveries,
- Spot monitor the geotechnical test borings,
- Spot check any earthmoving that may be required for either the borings or the topographic survey, and
- Prepare a bound monitoring report on any historic properties or cultural materials encountered, and if deemed necessary, enact section XI. A. on page 32 of the 2011 PA for “previously unknown archaeological sites”.

In accordance with Stipulation VI.F. of the PA, the DoD has retained a full-time Archaeologist to provide site checks, oversee coordination and execution of the archaeological mitigation measures in the PA and to provide quality control. This individual is on-staff at Marine Corps Activity Guam, Public Works Department, and is also designated to respond to and reporting of any inadvertent discoveries to the Signatories, Invited Signatories, and Concurring Parties per Stipulation XII of the PA.

DETERMINATION OF EFFECT:

Considering the information presented here, the DoD has determined that this project will have no historic properties affected.

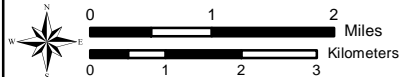
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FIGURE 1



Well Development Area
Figure - 1

-  DoD Property
-  Well Development General Location
-  Guam Highways



PREPARED BY:
Naval Facilities Engineering Command Pacific
Date: 7/24/2017



Coordinate System: UTM Zone 55 North
Projection: Transverse Mercator
Datum: D WGS 84



Military Relocation PA Memo Comment Form

2017

If submitting via e-mail, please click link and include all required information: criwebcomment@navy.mil

If submitting via postal mail, send to:

Attn: CRI Web Comments
Code EV23, NAVFAC Pacific
258 Makalapa Drive, Suite 100
JBPHH, Hawaii 96860-3134

Submitted comments will be posted on the Navy's Cultural Resources Information (CRI) web site. Information presented on the CRI web site is considered public. The sections highlighted in red are required.

Privacy Act Statement

Personal information will only be used to contact you regarding the comments you submit. This information will only be shared with another government agency if your inquiry relates to that agency, or as otherwise required by law. We will not create individual profiles or give your information to any private organization. While you must provide a valid e-mail address or postal address, please **DO NOT** include personally identifying information such as a social security number.

By submitting this comment form, you agree not to include content that is offensive in nature, such as profanity, personal attacks on individuals, and racist or abusive language.

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SUBJECT: PA Memo #1

Date:

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