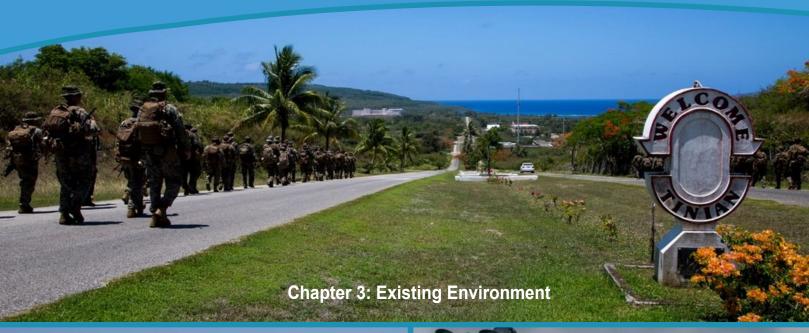


Revised Draft Environmental Impact Statement Commonwealth of the Northern Mariana Islands Joint Military Training







Revised Draft Environmental Impact Statement in Support of the Commonwealth of the Northern Mariana Islands Joint Military Training Environmental Impact Statement

CHAPTER 3 EXISTING ENVIRONMENT

June 2025

This Revised Draft EIS is compliant with Section 508 of the Rehabilitation Act. This allows assistive technology to be used to obtain the available information from the document. However, accessibility is limited to a descriptive title for some graphics, figures, tables, images, and attachments. Individuals who require assistance may submit a request through the Section 508 link on the project website at CNMIJointMilitaryTrainingEIS.com

TABLE OF CONTENTS

3	EXIS	STING ENVIRONMENT	3-1
	3.1	Public Access	3-1
	3.2	Land Use and Recreation.	3-1
		3.2.1 Land Uses and Recreation Outside of the Military Lease Area	3-4
		3.2.2 Land Uses and Recreation within the Military Lease Area	
	3.3	Socioeconomics	
		3.3.1 Population and Demographic Composition	3-7
		3.3.2 Economic Activity	
		3.3.3 Public Services	3-13
	3.4	Biological Resources	3-14
		3.4.1 Terrestrial Vegetation	3-14
		3.4.2 Terrestrial Wildlife	3-19
		3.4.3 Terrestrial Special Status Species	3-21
		3.4.4 Marine Communities	3-28
		3.4.5 Marine Special Status Species	3-29
	3.5	Cultural Resources	3-38
		3.5.1 Historical Overview	3-42
		3.5.2 Previously Recorded Resources	3-42
	3.6	Visual Resources	
	3.7	Transportation	3-55
		3.7.1 Ground Transportation	3-55
		3.7.2 Water Transportation	3-58
		3.7.3 Air Transportation	3-59
	3.8	Noise	
		3.8.1 Francisco Manglona Borja / Tinian International Airport	
		3.8.2 Military Training in the Military Lease Area	3-69
	3.9	Air Quality	
		3.9.1 Sources of Air Emissions	3-71
		3.9.2 Greenhouse Gas Emissions	3-73
	3.10	Public Health and Safety	3-74
		3.10.1 Ground Training	3-74
		3.10.2 Aviation Training and Civilian Aviation	3-75
		3.10.3 Radio Frequency and Microwave Emissions	
		3.10.4 Unexploded Ordnance and Discarded Military Munitions	3-76
		3.10.5 Hazardous Materials and Waste	3-77
		3.10.6 Natural Hazards	
		3.10.7 Protection of Children	3-78
	3.11	Utilities	
		3.11.1 Potable, Non-Potable, and Groundwater Water Supply	
		3.11.2 Wastewater Treatment	
		3.11.3 Solid Waste and Hazardous Waste	
		3.11.4 Green Waste	
		3.11.5 Stormwater Management	
		3.11.6 Electrical Power System.	
		3.11.7 Communications	3-87

3.12	Topography, Geology, and Soils	3-87
	3.12.1 Topography	
	3.12.2 Geology	
	3.12.3 Soils	
	Groundwater and Hydrology	
	3.13.2 Groundwater Quality	
	Surface Waters and Wetlands	
	3.14.1 Surface Waters	
	3.14.2 Wetlands	
	3.14.3 Water Quality	3-99
	LIST OF FIGURES	
Figure 3.2-1	Existing Land Uses and Land-Based Recreation Sites on Tinian	3-3
Figure 3.2-2		
Figure 3.4-1	Plant Communities on Tinian (North)	
Figure 3.4-2		
Figure 3.4-3	Occurrences of Federally Listed and CNMI-listed Species on Tinian	3-26
Figure 3.5-1	Area of Potential Effect	
Figure 3.5-2	Cultural Resources Survey Coverage on Tinian	3-41
Figure 3.5-3	North Field National Historic Landmark and Contributing Features	3-44
Figure 3.6-1	Tinian Viewpoints and View Orientation	3-47
Figure 3.7-1	Existing Roads in and Near the Military Lease Area on Tinian	3-57
Figure 3.7-2	Local Flight Routes	3-61
Figure 3.8-1	Sound Levels from Typical Sources	3-64
Figure 3.8-2	Sensitive Noise Receptors on Tinian and Saipan	3-66
Figure 3.8-3	Baseline/No Action Alternative Modeled Noise Contours at TNI	3-68
Figure 3.9-1	Prevailing Wind Patterns for Tinian, based on the Wind Rose for Saipan	
	International Airport	3-72
Figure 3.10-	1 Special Flood Hazard Area Subject to Coastal High Hazard Flooding	3-79
Figure 3.11-	Public Water System	3-81
Figure 3.11-	2 Tinian Power Distribution	3-86
Figure 3.12-	1 Tinian Topographic Map	3-88
Figure 3.12-	2 Tinian Karst Features	3-90
Figure 3.12-	3 Tinian Soils	3-91
Figure 3.12-	4 Tinian Prime Farmland Soils	3-94
Figure 3.13-	1 Tinian Groundwater Wells, Elevation, and Flow Direction	3-96
Figure 3.14-	1 Tinian Surface Water and Wetland Features, Flood Zones, and Watersheds	3-98

LIST OF TABLES

Table 3.2-1	Tinian Land	3-2
Table 3.3-1	Population of CNMI and Tinian, 1970-2020	3-7
Table 3.4-1	Plant Communities on Tinian and Within the Military Lease Area	3-14
Table 3.4-2	Occurrence of Terrestrial Federally Listed and CNMI-listed Species on Tinian	3-22
Table 3.4-3	Migratory Bird Treaty Act Bird Species Documented on Tinian Potentially Affected by the Proposed Action	3-27
Table 3.4-4	Occurrence of Federally Listed and CNMI-listed Marine Species on and Around Tinian	3-31
Table 3.4-5	Tinian Essential Fish Habitat and Habitat Area of Particular Concern	3-38
Table 3.6-1	Description of Existing Tinian Views	3-48
Table 3.7-1	Primary Roads on Tinian Within and Outside the Military Lease Area	3-56
Table 3.7-2	Existing Operations at TNI	3-59
Table 3.8-1	Typical Outdoor Ambient Noise Levels	3-63
Table 3.8-2	Baseline/No Action Alternative Flight Operations at TNI	3-67
Table 3.8-3	Single Event Noise Levels (Sound Exposure Level and Maximum Noise Level) at Ground Level Underneath Common Military Aircraft	
	Operations	3-70
Table 3.9-1	CNMI 2023 Greenhouse Gas Emissions Inventory	3-74
Table 3.11-1	Commonwealth Utilities Corporation Water Production from Maui Well Number 2	3-82
Table 3.11-2	Commonwealth Utilities Corporation Billed Water Demand	3-82
Table 3.12-1	Tinian Soil Classifications and Properties	
Table 3.14-1	Impaired Coastal Waters on Tinian	3-100

This page intentionally left blank.

3 EXISTING ENVIRONMENT

This chapter describes the existing environment or future baseline that may be affected by the Proposed Action. The future baseline includes the continuation of approved onshore training events in the CNMI as described in prior NEPA documents (DON 2010a, 2015c). The baseline also includes construction and operations associated with the U.S. Air Force's Divert project (U.S. Air Force 2016, 2020). Additionally, projects under the U.S. Air Force's Agile Combat Employment program would also continue, which would include the clearance of vegetation and restoration of the runway and other engineered surfaces at North Field. This chapter is organized in 14 sections: Public Access, Land Use and Recreation; Socioeconomics; Biological Resources; Cultural Resources; Visual Resources; Transportation; Noise; Air Quality; Public Health and Safety; Utilities; Topography, Geology, and Soils; Groundwater and Hydrology; and Surface Waters and Wetlands.

3.1 Public Access

The Military Lease Area (northern two-thirds of Tinian and shoreline areas immediately adjacent to Tinian) is currently available to residents of Tinian and tourists during festivals and holidays and for fishing and boating, commercial ranching, cultural activities, recreation, tourism, and subsistence activities like hunting and gathering of both plants and animals. Access to the Military Lease Area is restricted only when needed to comply with safety and security requirements during military training activities, consistent with the terms of the 1983 Lease Agreement.

Current military training on Tinian includes large training events like Valiant Shield (June 2024), which is held a few times per year for approximately four weeks. During these training events, access has been restricted around North Field, with closure of the taxiway between runways Able and Baker and the two ends of runway Baker for the duration of training activities. No access has been permitted on runway Baker during aviation operations and airdrops. Small and medium training events, typically lasting a few weeks, are also conducted throughout the year on Tinian in conjunction with at-sea training. The portion of the Cope North exercises that have previously occurred in the CNMI (February 2024) is an example of a medium training event. In addition, Seabee units conduct training at Camp Tinian and the Military Lease Area throughout the year.

The USAGM, formerly the International Broadcasting Bureau, operated two broadcast facilities in the Mariana Islands—one on Tinian and one on Saipan. The Tinian site is located within the Military Lease Area. The Saipan site is situated in the southwest area of the island adjacent to the Commonwealth Utilities Corporation Agingan wastewater treatment plant. Both USAGM sites supported international shortwave radio transmissions and are collectively referred to as the Robert E. Kamosa Transmitting Station. Public access to both sites is restricted due to the presence of sensitive communications infrastructure and federal security requirements.

3.2 Land Use and Recreation

The island of Tinian encompasses approximately 25,000 acres. Land use on Tinian includes residential and commercial uses on privately owned land, with the population primarily located in the village of San Jose. Commercial uses include grocery and dry goods stores, restaurants, agriculture, hotels, TNI, and the Port of Tinian. Public land uses include civic and government functions, homesteads, conservation areas, and recreation. Recreation on Tinian is outdoor-focused and includes land uses such as beaches and parks, and recreational activities such as