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**Final
Environmental Impact Statement
for Designation of an Ocean Dredged Material Disposal Site
Offshore of Guam**

MARCH 2010

*Prepared for:
United States Environmental Protection Agency*



ABSTRACT

This Environmental Impact Statement (EIS) covers the proposed designation of the Northwest Ocean Dredged Material Disposal Site (ODMDS) Alternative as a permanent site for the ocean disposal of dredged material. This ocean disposal site will be available as an alternative for placement of dredged material when no practicable upland placement or viable beneficial reuse options are available.

Use of the Northwest ODMDS Alternative is not anticipated to cause significant long-term adverse environmental impacts beyond the site boundaries. Temporary physical impacts to benthos are expected within the site by sediment disposal but the environmental effects are not anticipated to extend beyond the site boundaries. Water quality impacts will be localized, short-term and negligible. The few identified potentially adverse impacts are not anticipated to be irreversible or to involve any irretrievable commitment of resources. As part of the site designation process, the United States Army Corps of Engineers (USACE) and United States Environmental Protection Agency (USEPA) have developed a Site Monitoring and Management Plan (SMMP) included in an appendix to this EIS that will ensure that environmental impacts remain insignificant.

The alternatives considered in this EIS are: 1) No Action, 2) North ODMDS Alternative, and 3) Northwest ODMDS Alternative. The Preferred Alternative identified in this EIS is the Northwest ODMDS Alternative. This decision is based on the absence of significant long-term environmental impacts beyond the site boundaries, the greater potential for adverse environmental impacts (particularly air quality) associated with the other alternatives, and the demonstrated need for continued availability of an ocean disposal site for dredged material.

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**ENVIRONMENTAL IMPACT STATEMENT
FOR DESIGNATION OF AN OCEAN DREDGED MATERIAL DISPOSAL SITE
OFFSHORE OF GUAM**

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ACRONYMS AND ABBREVIATIONS

°C	Celcius
°F	Fahrenheit
µg/L	micrograms per liter
Ag	Silver
AVS	acid volatile sulfide
BSP	Bureau of Statistics and Plans
CAA	Clean Air Act
CCC	Criterion Continuous Concentration
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
CO	Carbon Monoxide
CNMI	Commonwealth of the Northern Mariana Islands
cm	centimeter
CMC	Criterion Maximum Concentration
CTD	conductivity/temperature/depth
CWA	Clean Water Act
cy	cubic yards
CZM	Coastal Zone Management
CZMA	Coastal Zone Management Act
DAWR	Division of Aquatic and Wildlife Services
DDT	Dichlorodiphenyltrichloroethane
DEIS	Draft Environmental Impact Statement
DoD	U.S. Department of Defense
DON	Department of the Navy
E	East
EDL	Estimated Detection Limit
EEZ	Exclusive Economic Zone
EFH	Essential Fish Habitat
EIS	Environmental Impact Statement
EPA	Environmental Protection Agency
EO	Executive Order
ERA	Ecological Reserve Area
ESA	Endangered Species Act
FAD	Fish Aggregation Device
FeS	Iron Sulfide
FMP	Fishery Management Plan
FR	Federal Register
ft	feet
FY	Fiscal Year
G	gram
GEPA	Guam Environmental Protection Agency
GFCA	Guam Fisherman's Cooperative Association
GIS	Geographic Information Systems
GOVGUAM	Government of Guam
GPS	Global Positioning System
Guam	Territory of Guam
GVB	Guam Visitors Bureau
GWA	Guam Waterworks Authority
In	inch
IUCN	International Union for the Conservation of Nature
IWC	International Whaling Commission
kg	kilogram
km	kilometers
km ²	square kilometers
kph	kilometers per hour
kt	knots
LPC	limiting permissible concentration
m	meters
mi	miles
mi ²	square miles

m ²	square meters
m ³	cubic meters
MBTA	Migratory Bird Treaty Act
mcy	million cubic yards
MDL	method detection limit
mg	milligrams
mg/L	milligrams per liter
MISTCS	Mariana Islands Sea Turtle and Cetacean Survey
MLLW	Mean Lower Low Water
MMPA	Marine Mammal Protection Act
MODAS	Modular Ocean Data Assimilation System
MPA	Marine Protected Area
mph	miles per hour
MPRSA	Marine Protection Research and Sanctuaries Act
MSFCMA	Magnuson-Stevens Fisheries Conservation and Management Act
N	North
NAAQS	National Ambient Air Quality Standards
NAVFAC PAC	Naval Facilities Engineering Command Pacific
NAVO	Naval Oceanographic Office
NCOM	Naval Coastal Ocean Model
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NLOM	Navy Layered Ocean Model
nm	nautical miles
NMFS	National Marine Fisheries Service
NO _x	Nitrogen Dioxide
NOA	Notice of Availability
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NPDW	North Pacific Deep Water
NPEC	North Pacific Equatorial Current
NRHP	National Register of Historic Places
NTU	Nephelometric Turbidity Units
NWS	National Weather Service
ODMDS	Ocean Dredged Material Disposal Site
PAG	Port Authority of Guam
PAH	polycyclic aromatic hydrocarbons
PCB	polychlorinated biphenyls
pg/g	picrograms per gram
ROI	region of influence
SAP	sampling and analysis Plan
SEM	Simultaneously Extracted Metals
SHPO	State Historic Preservation Officer
SMMP	Site Management and Monitoring Plan
SO ₂	Sulfur Dioxide
SST	sea surface temperature
TBT	tributyltin
TIAS	Treaties and Other International Act Series
TKN	Total Kjeldahl Nitrogen
TOC	total organic carbon
TON	Total Organic Nitrogen
U.S.	United States of America
USACE	U.S. Army Corps of Engineers
USC	United States Code
USCG	U.S. Coast Guard
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
WAPA	War in the Pacific National Historic Park
WPRFMC	Western Pacific Regional Fishery Management Council
WQC	Water Quality Criteria
ZSF	Zone of Siting Feasibility