



**NAVFAC**

# PACIFIC DETERRENCE INITIATIVE (PDI)

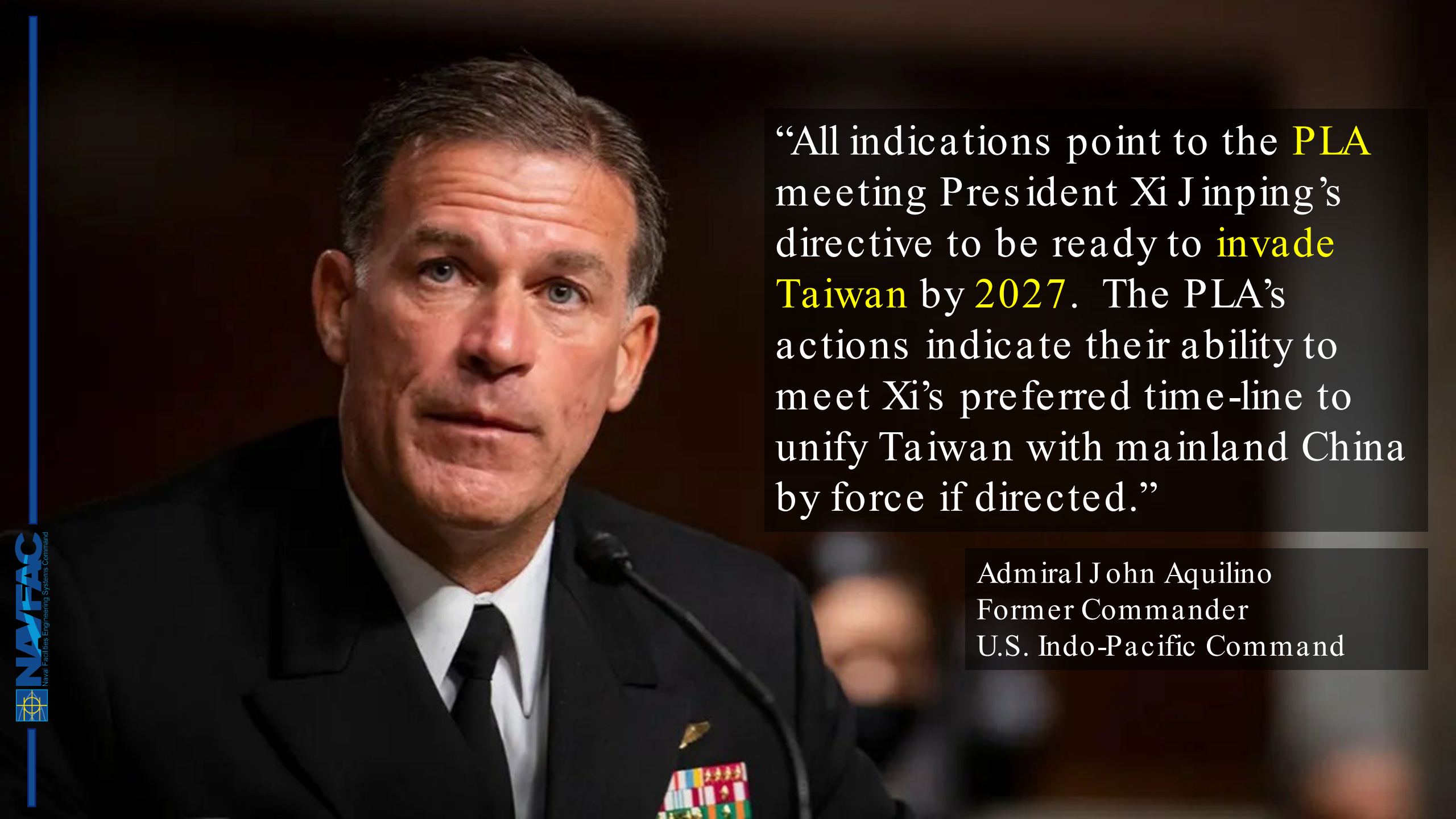
## Palau & Yap Port Improvements

Earl Estrella, OPS Program Manager  
NAVFAC Southwest

25 FEBRUARY 2025



The why...



“All indications point to the **PLA** meeting President Xi Jinping’s directive to be ready to **invade Taiwan** by **2027**. The PLA’s actions indicate their ability to meet Xi’s preferred time-line to unify Taiwan with mainland China by force if directed.”

Admiral John Aquilino  
Former Commander  
U.S. Indo-Pacific Command





## Taiwan Relations Act (TRA)

The TRA requires the United States to have a policy "to provide Taiwan with arms of a **defensive** character" and "**to maintain the capacity** of the United States **to resist** any resort to force or other forms of coercion that would jeopardize the security, or the social or economic system, of the people on Taiwan."





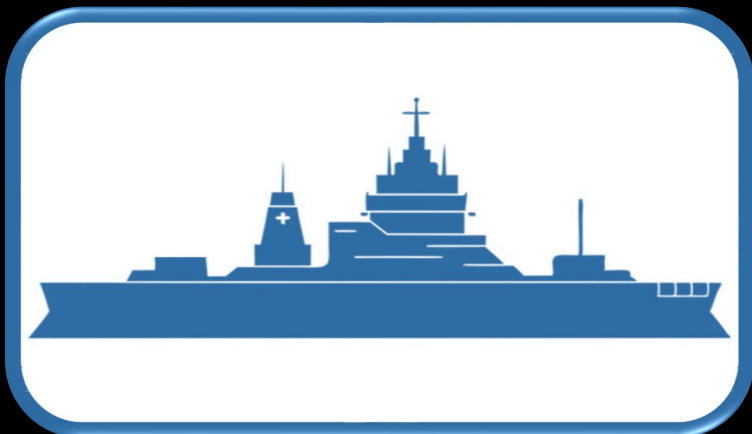
**Admiral Samuel Paparo**  
Commander  
U.S. Indo-Pacific Command

# The Projects

# THE REQUIREMENT



- Permanent, securable, **JOINT** Navy and Host Nation Port Facilities with mobile crane capability
- No ship-to-shore utilities required



- Approximately 900 ft long berths suitable for U.S. Navy vessels
- 36 ft dredge depth

“Places not bases...”



# VICINITY MAP





# GETTING THERE

## OCEANIA & PACIFIC OCEAN

0 miles 250 500 750 1,000 miles

Scale at the Equator

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# GETTING THERE

6  
HRS

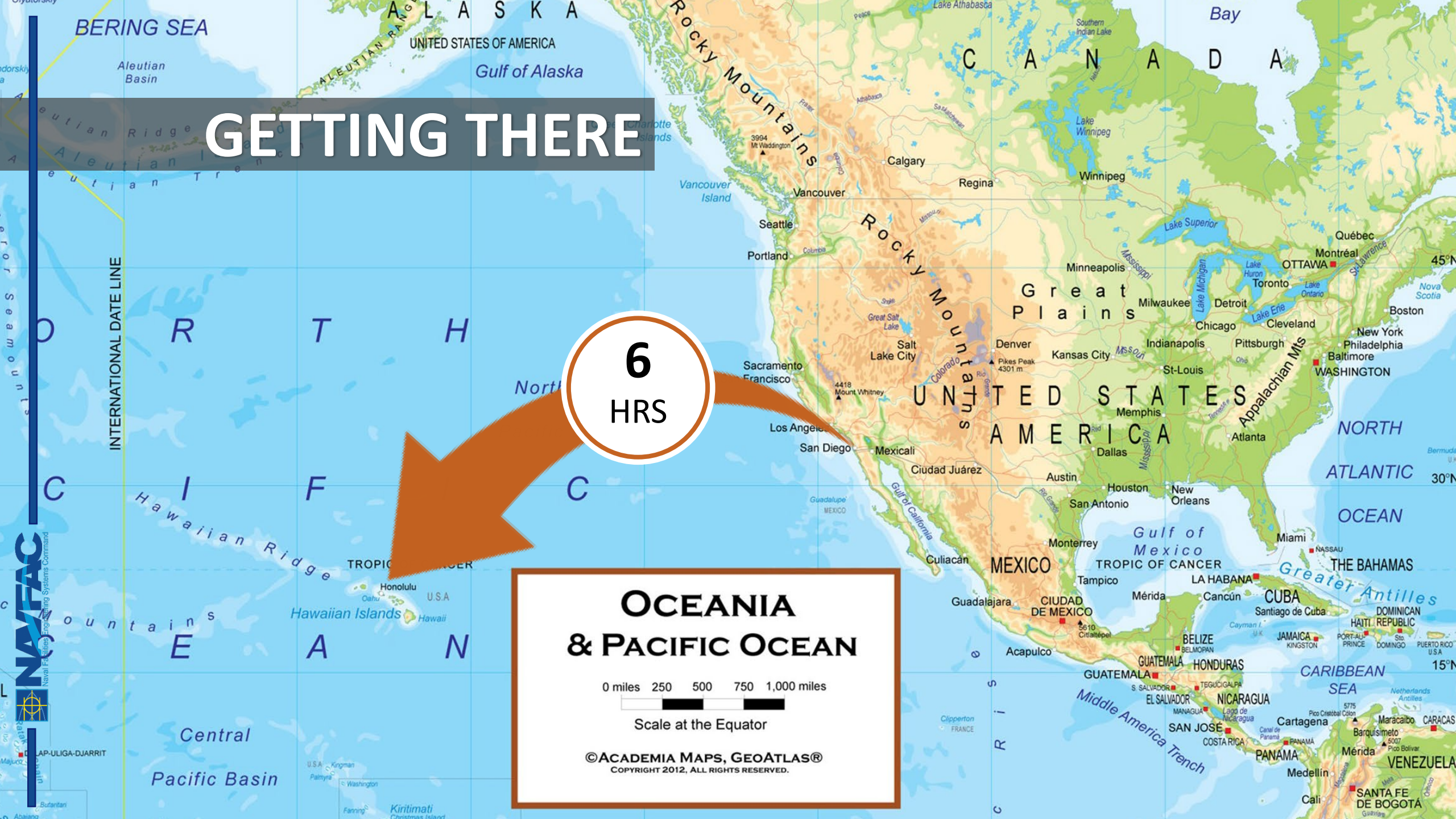
## OCEANIA & PACIFIC OCEAN

0 miles 250 500 750 1,000 miles



Scale at the Equator

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# GETTING THERE

8  
HRS





# GETTING THERE

2  
HRS

1.5  
HRS

START-TO-FINISH TRAVEL TIME

2.5 - 3 DAYS



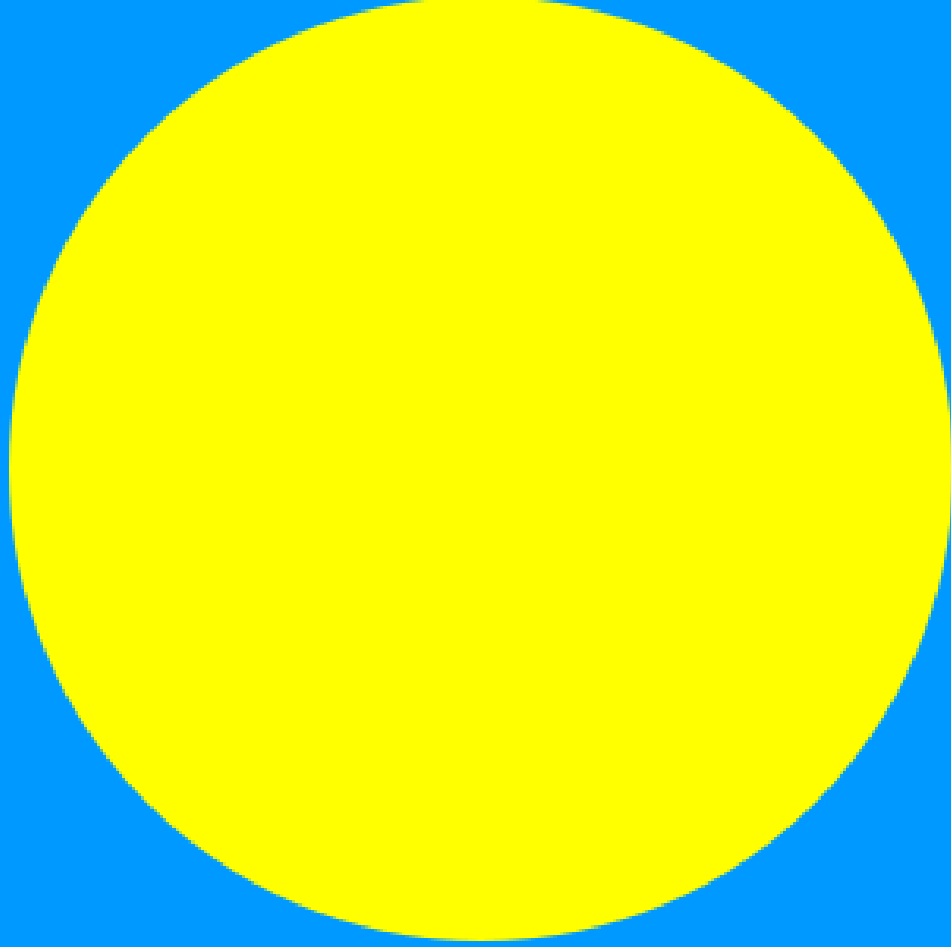


# FLIGHT TIMES

ISLAND	SUN	MON	TUE	WED	THU	FRI	SAT
PALAU							No Flights
YAP	No Flights	No Flights	No Flights		No Flights	No Flights	



**UNITED** IS THE ONLY U.S. CARRIER



# REPUBLIC OF PALAU

Compact of Free Association

Population 18,024

4,620 miles from Hawaii







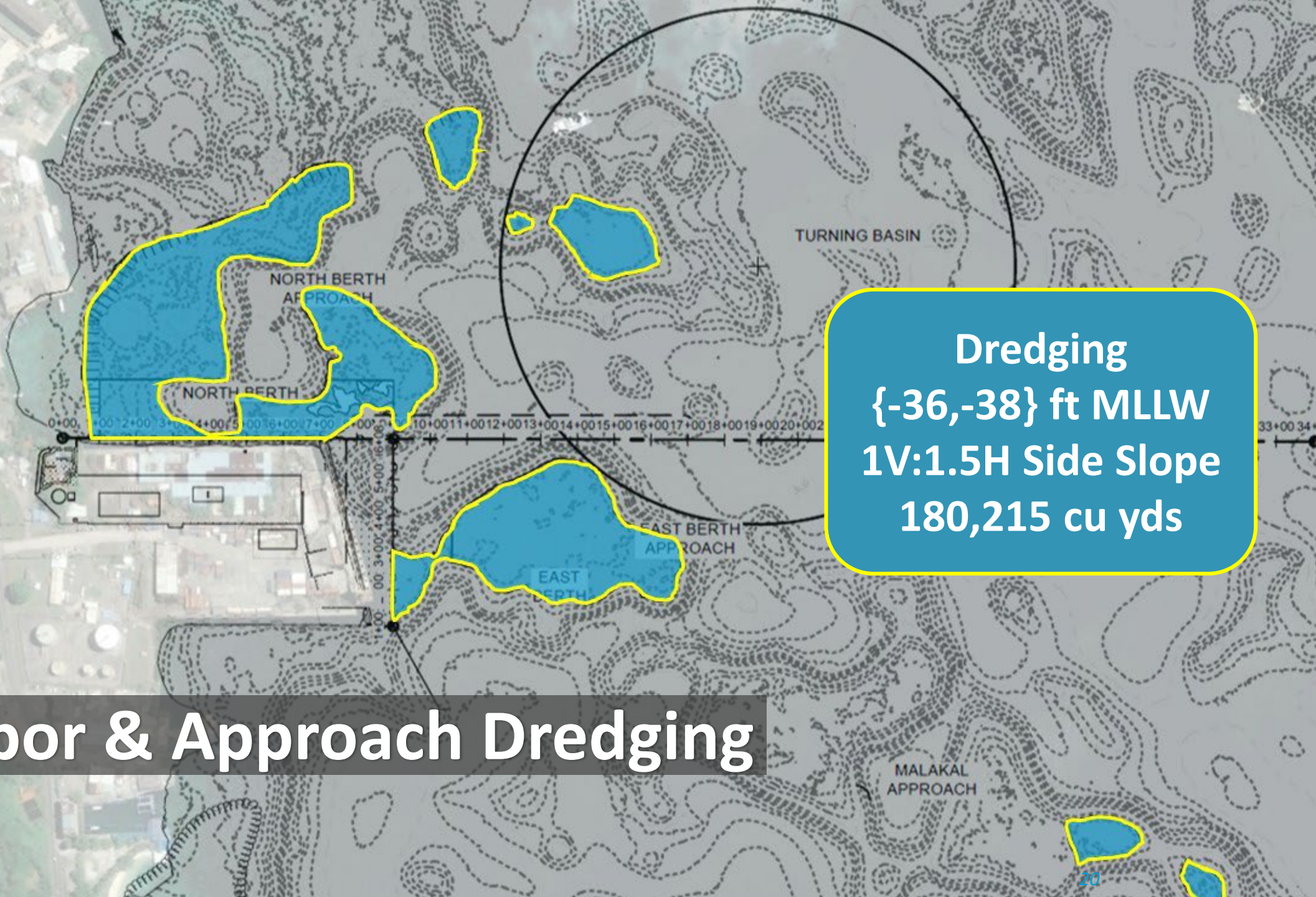






# Harbor & Approach Dredging

**Dredging**  
**{-36,-38} ft MLLW**  
**1V:1.5H Side Slope**  
**180,215 cu yds**





# Dredge Disposal Concept at Ice Box Park



Indicative cross section

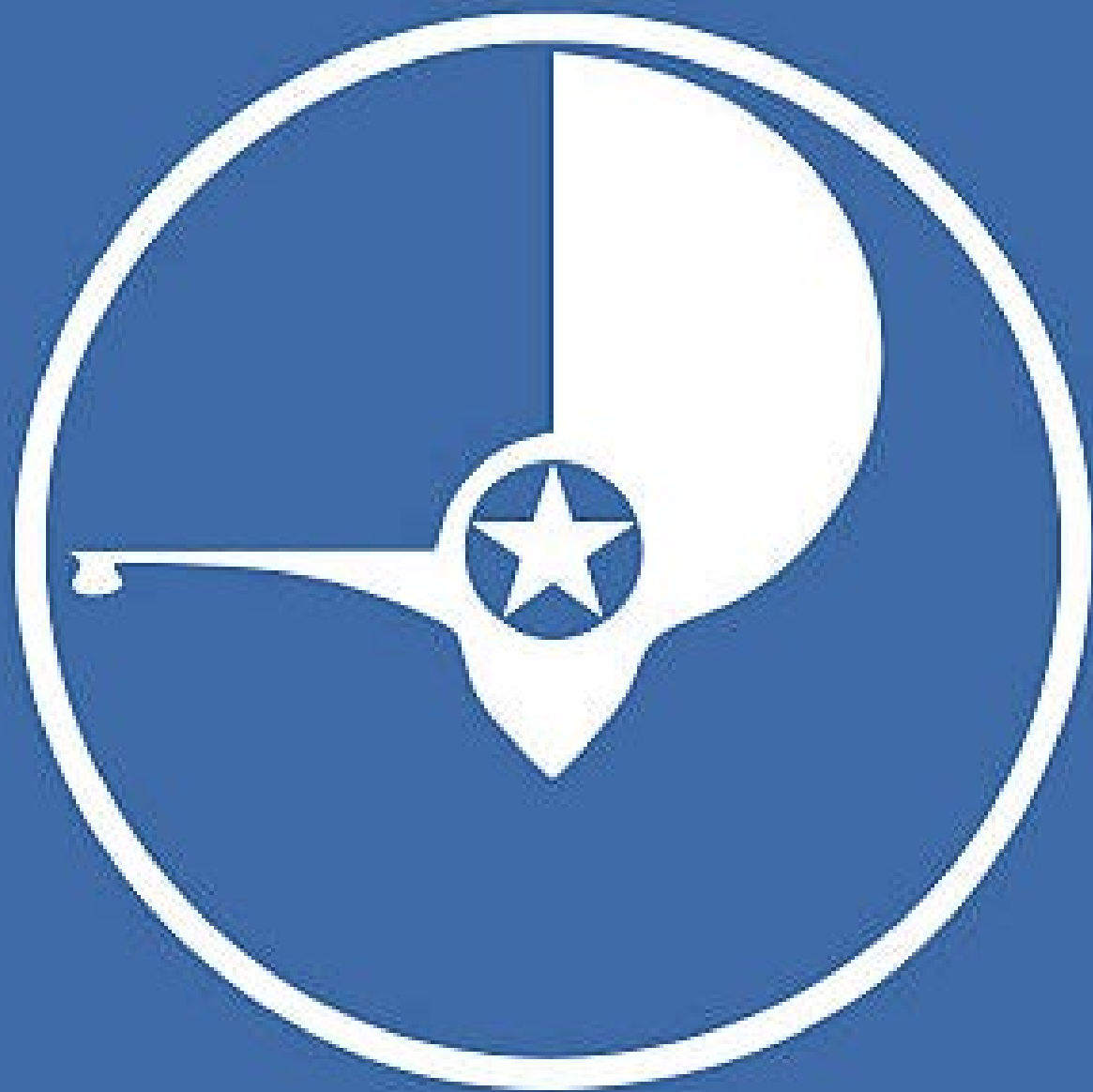


# Palau ATONs

Replace 37 channel ATONs  
(e.g. Single Pile Aids, Buoys, etc.)

Replace/Install 10 harbor ATONs  
(e.g. Single Pile Aids, Buoys, etc.)





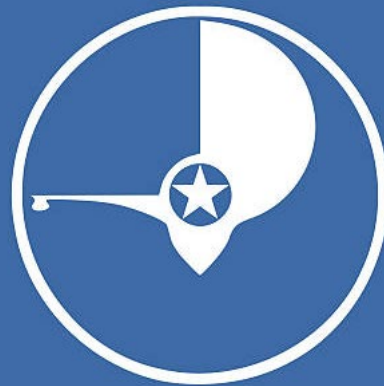


# YAP

Federated State of Micronesia

Population 11,377

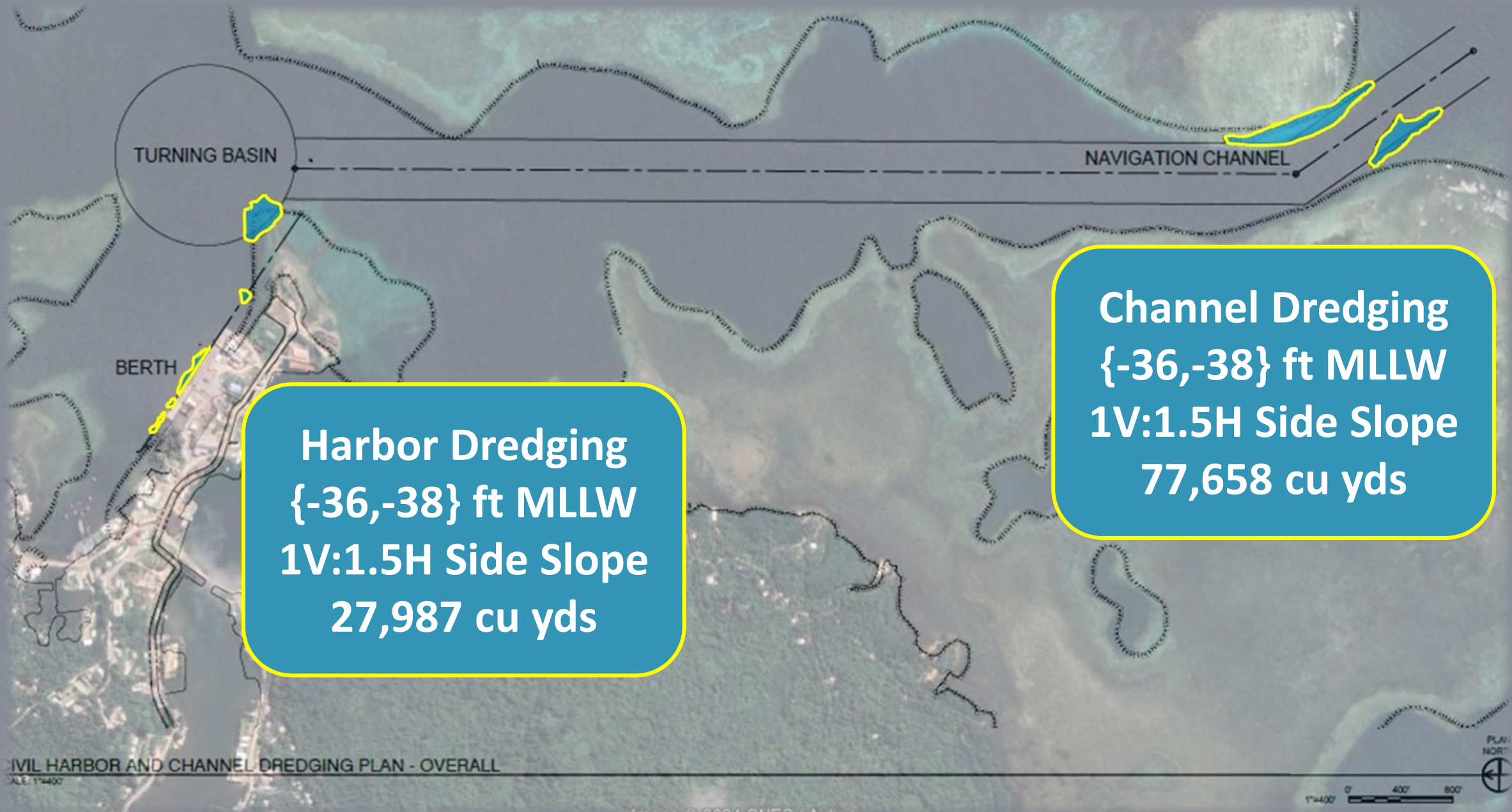
4,318 miles from Hawaii







**NAVFAC**  
Naval Facilities Engineering Systems Command



# YAP DREDGING

**TYPICAL DREDGING OPERATIONS  
IN CHANNEL AND HARBOR**

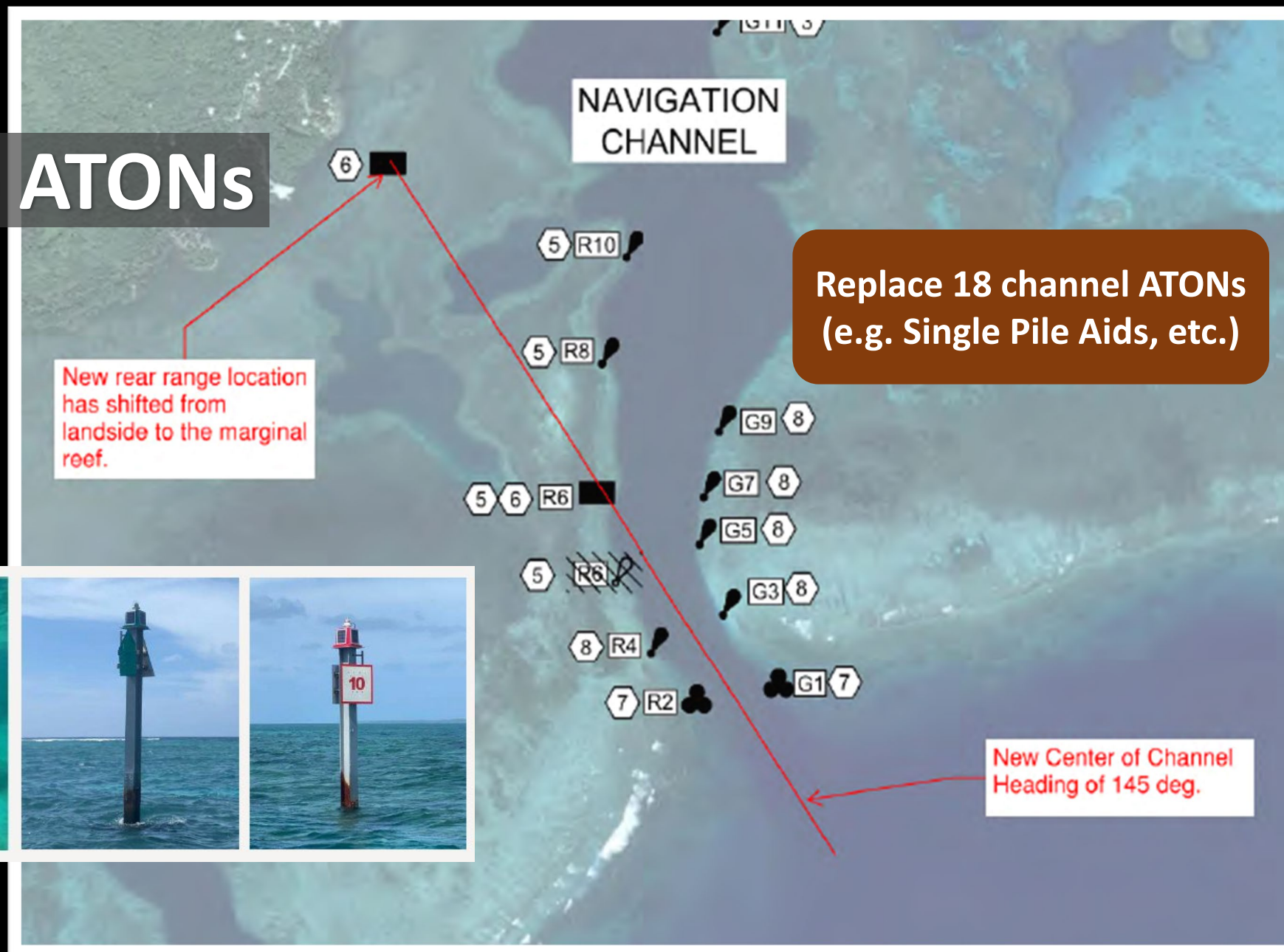


**UPLAND DREDGE SPOIL  
OFFLOADING & TRUCKING**


**CONCEPTUAL DREDGE SPOIL  
NON-ENGINEERED PLACEMENT  
FOR PENINSULA EXPANSION**



# Yap ATONs





An aerial photograph of a coastal area with a road and a large body of water. A blue line highlights a section of the road for repair. A yellow arrow points to this section from a text label. A brown box contains a challenge statement.

**Challenge: Maintain traffic flow within tight ROW during construction**

6,310 LF of Road Repair  
(24 ft average width)

## Yap Roadway



# Contracting

# ACQUISITION STRATEGY

- Best Value Source Selection – Pending Vehicle
  - Two Separate Contracts (one for each island)
  - DBB Full Plans & Specifications
- Contract Value **\$600M - \$700M**
- Construction Duration ~ **1,200 Calendar Days**
- Early KTR Engagement – Unofficial release of 100% design
- Pre-Proposal Conference on Island and/or Guam
- **Post-Award Partnering & Value Engineering**
- **Post-Award On-Site ROICC & Designer Support**



# THE WAY AHEAD

## PALAU

Early Engagement	APR 2025
Issue RFP	JUL 2025
Proposals Due	OCT 2025
BAFO	APR 2026
Award	JUL 2026

## YAP

Early Engagement	MAY 2025
Issue RFP	JUL 2025
Proposals Due	OCT 2025
BAFO	APR 2026
Award	JUL 2026

Your feedback and the “tyranny of distance”

# KTR FORUM FEEDBACK

## ISSUE

- Project Labor Agreements (PLA)
- Jones & Cargo Preference Act
- Economic Price Adjustment (EPA)
- Skilled labor shortage
- Housing on remote islands

## RESOLUTION PLAN

- Not applicable
- Fully applicable. Transportation premium acknowledged
- On the table. Under review
- Priority will be for U.S. and host nation labor, but augmenting with foreign labor is envisioned
- Adequate commercial housing in Palau. Labor camp site in Yap



# Regional UFC-Compliant Materials

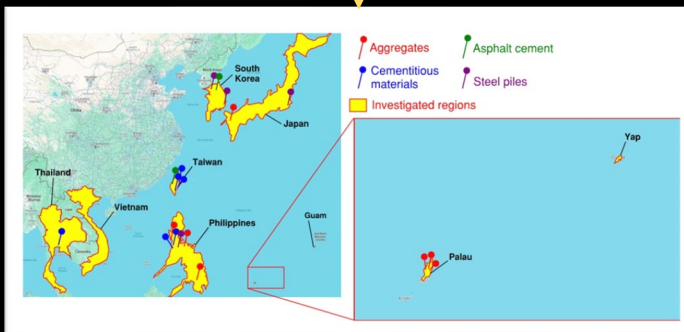
## ID Major Materials

## ID Suppliers

## Sample or Test Materials

## Viable Suppliers List

Palau Port			Yap Port		
Description	Qty	Unit	Description	Qty	Unit
<b>Concrete for wharf</b>					
Marine concrete	~23k	Yd <sup>3</sup>	Marine concrete	~7k	Yd <sup>3</sup>
Aggregate	~31k	Tons	Aggregate	~11k	Tons
Cementitious material	~7k	Tons	Cementitious material	~2.3k	Tons
<b>Piles (~10 miles)</b>					
King Pile - 36x3/4	12,772	LF	Wharf Piles - 36x1.25	14,332	LF
King Pile - 36x1	299	LF	Socket pipe piles	3220	LF
Wharf Piles - 36x1.25	22,000	LF	PZ22 x 21 ft	20	Tons
King Pile Drill/Grout - 36"	2,982	LF	<b>Asphalt</b>		
NZ26 x 55ft	877	LF	AC Binder	193	Tons
W16x57	24,539	LF	Aggregate blend	3,316	Tons



Concrete UFGS 03 29 31	Asphalt UFGS 32 12 16.16	Base Course UFGS 32 11 23
<b>Palau</b> 1.Oikull Quarry* Coarse  <b>Philippines</b> 1.Mindanao Quarry* Coarse  <b>Japan</b> 1.Kyoritsu Sangyo* Coarse  <b>Guam</b> 1.Hawaiian Rock Products Coarse & Fine  <b>Canada</b> 1.Orca Aggregates 2.Heidelberg Materials Coarse & Fine	<b>Philippines</b> 1.Mindanao Quarry* 1.Coarse 2.Helix Aggregates* 2. Coarse & Fine  <b>Japan</b> 1.Kyoritsu Sangyo* Coarse & Fine  <b>Canada</b> 1.Orca Aggregates 2.Heidelberg Materials Coarse & Fine	<b>Philippines</b> 1.Mindanao Quarry* 1.Coarse & Fine 2.Helix Aggregates* 2.Coarse & Fine 3.Fahrenheit Company Ltd 3.Fine  <b>Japan</b> 1.Kyoritsu Sangyo* Coarse & Fine  <b>Canada</b> 1.Orca Aggregates 2.Heidelberg Materials 1.Coarse 2.Coarse & Fine
Pipe Piles UFGS 31 62 16.13	Sheet piles UFGS 31 41 16	Wide flange piles UFGS 31 62 16.16
<b>Philippines</b> 1.ESC Steel  <b>Japan</b> 1.Nippon Steel  <b>South Korea</b> 1.SeAH Steel Crop 2.Hyundai RB CO., LTD.  <b>USA</b> 1.JD Fields HDM Spiralweld Mill, LLC 2.Gerdau	<b>Japan</b> 1.Nippon Steel  <b>United Arab Emirates</b> 1.Meevor USA  <b>Luxembourg</b> 1.ArcelorMittal Belval & Differdange (producer), JD Fields & Company, Inc. (importer)	<b>Japan</b> 1.Nippon Steel  <b>Luxembourg</b> 1.ArcelorMittal Belval & Differdange (producer), JD Fields & Company, Inc. (importer)

# Potential Source Selection Factors

1. Experience & Qualifications of Key Personnel
2. Logistics Plan and Host Nation Interface
3. Past Performance
4. Safety
5. Price



Q & A