



International Boundary and Water Commission United States Section



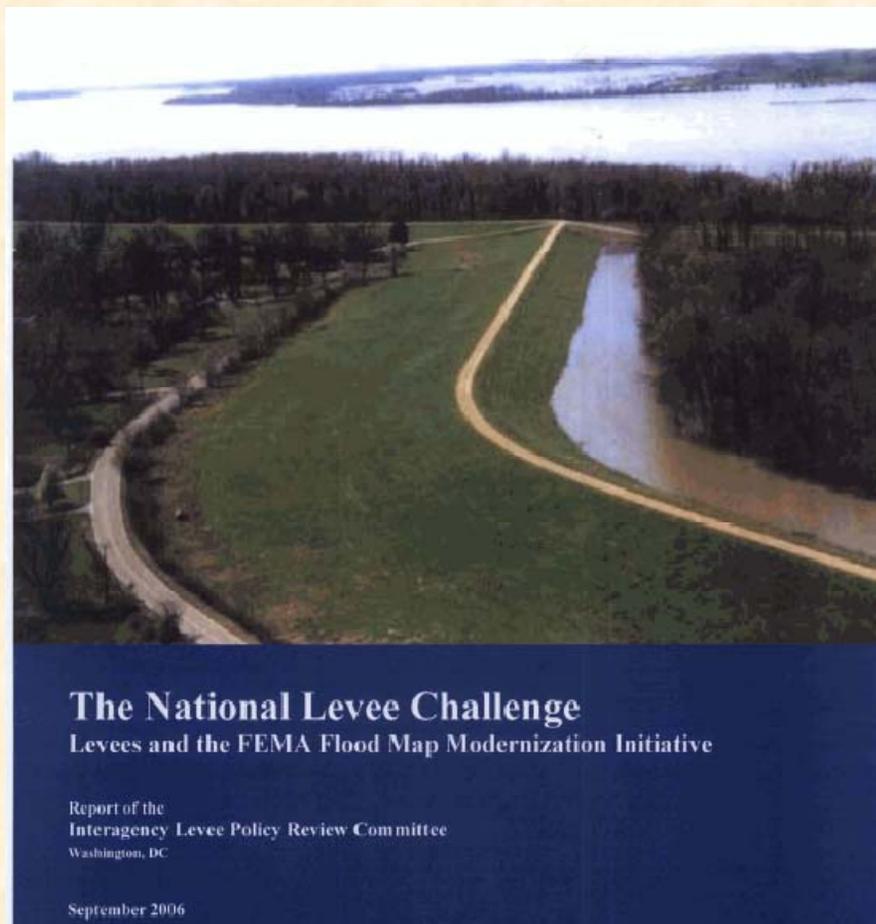
San Diego - Citizens Forum

October 7, 2010



Why Perform Levee Improvements?

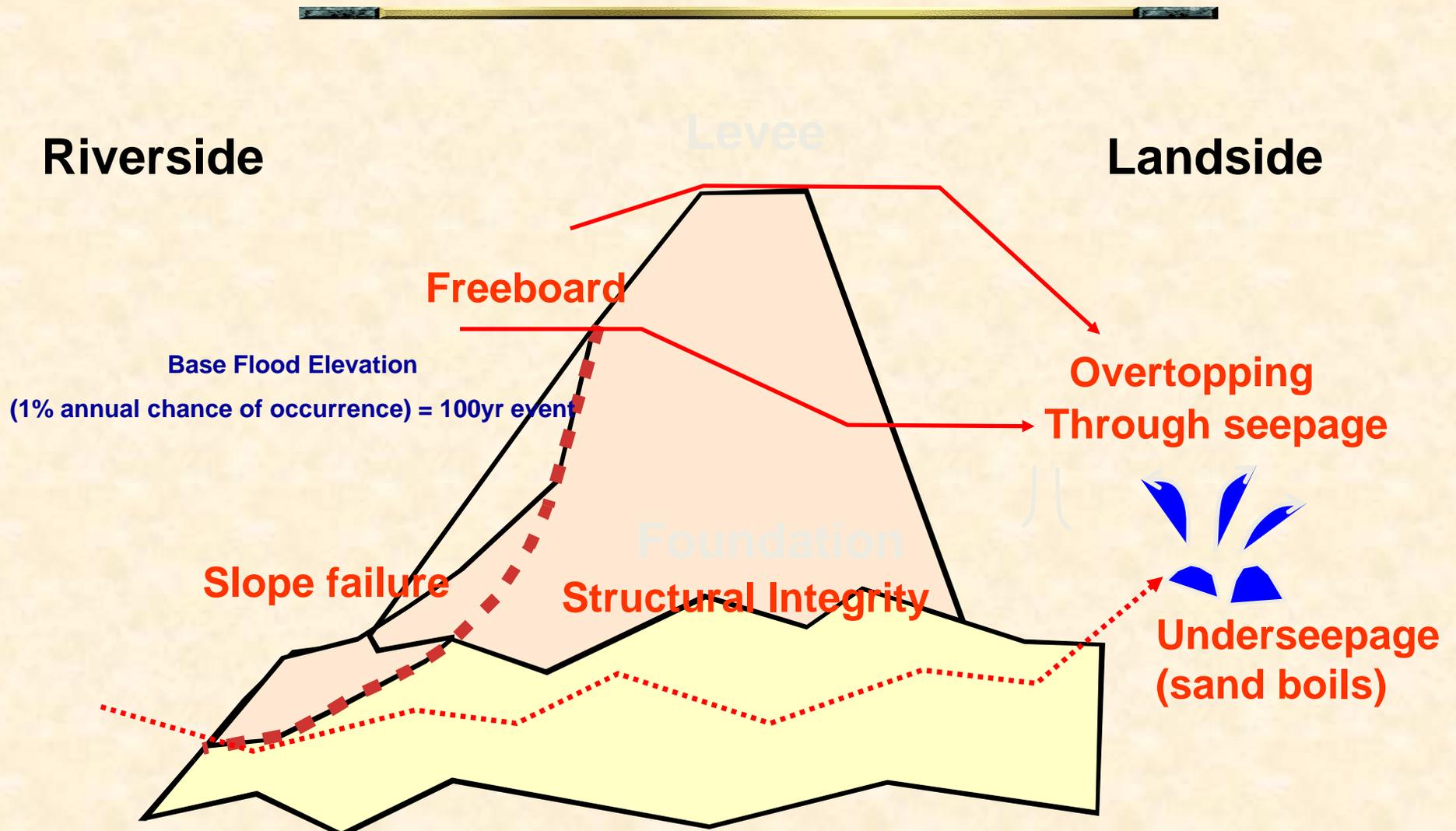
- FEMA is updating flood insurance rate maps
- FEMA requires levees to contain the 100-year flood with 3 ft. freeboard
- USIBWC notified FEMA in 2006 that it could not certify all levees as meeting this requirement



The National Levee Challenge -2006



Levee Terminology





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Levee Problems

**Levee
Seepage**



**Levee
Slope
Failure**



**Total
Levee
Failure**



**Sand Boil
Caused by
Animal
Burrow**

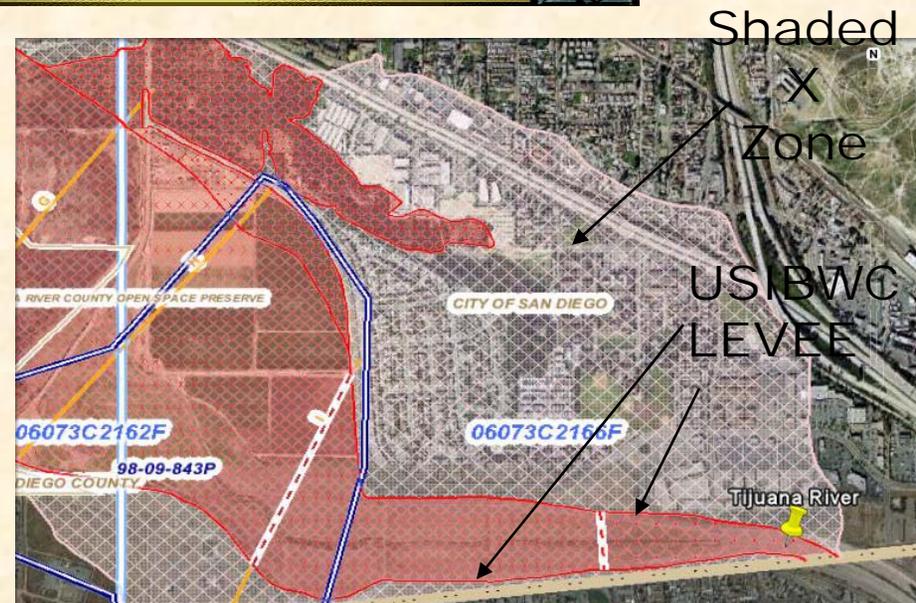




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FEMA – Tijuana River Levee Issues

- The area is currently rated as a Shaded X Zone
- Shaded Zone X relates to a 500 yr event or (0.2%) probability of flooding every year
- The Levee is Provisionally Accredited, until USIBWC submits Hydraulic Studies (January 2011)
- Properties in Shaded Zone X are considered to be at moderate risk, flood insurance is *not* required.



Current FEMA Flood Map

(1) Fly to an address. (2) See if it is covered by one of these flood hazard zones:

High Risk Areas: A and V zones							
AE	A	AH	AO	AR	A99	VE	V
Moderate Risk Areas: "Shaded X" zone		Undetermined Risk Areas: D zone					
"Shaded X" zone	D zone						
No data available: Try the FEMA Map Service Center http://msc.fema.gov							
No flood hazard data available in Google Earth							
Other information: Jurisdictions Cross sections FIRMs LOMRs							
This information displays at an eye altitude of 10,000 feet or lower.							

FEMA Map Legend



San Diego Flood Control Project-Hydraulic Issues

Sediment Control/Mowing

- USACE to prepare a Scope of Work (SOW) to conduct a Storm Drainage Study
- USIBWC will work as a facilitator between Mexico, USACE and the City of San Diego and project sponsor
- Currently USIBWC has an MOU with U.S. Customs and Border Protection to manage vegetation
- Areas sensitive to the Least Bells Vireo will be mapped by U.S. Fish and Wildlife and avoided to preserve habitat

Sediment,
Tijuana
River Valley
Goat
Canyon
December
2008



Least Bells
Vireo



SAN DIEGO Flood Control Project Trash Migration Issues

- **IBWC**
 - Will work closer with BECC and others to address trash migration to the north
 - USIBWC will work as a facilitator between Mexico, Army Corps of Engineers (USACE) and the City of San Diego
 - USACE is seeking funding
 - USIBWC will work with BECC to recognize trash/silt migration as a issue

**Pilot
Channel
Tijuana
River
November
2008**



**Pilot
Channel
Tijuana
River
January
2009**

INTERNATIONAL BOUNDARY AND WATER COMMISSION, UNITED STATES AND MEXICO



Contact Information

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