# Clean Water Act Section 303(d): Total Maximum Daily Loads

Guam Stormwater Workshop July 27, 2011

## **Session Objectives**

- Brief overview of CWA section 303(d) and Total Maximum Daily Load Program
- Approved TMDLs in Guam
- Relationship with storm water and construction and development
- Summary Possible implications for dischargers

## Clean Water Act

- Section 305(b) of the Clean Water Act (CWA) requires States and Territories to assess waterbodies every two years.
- Total Maximum Daily Loads (TMDLs) prepared for impaired waters on the Section 303(d) list.
- A TMDL is the maximum amount of pollutant that can be discharged to the waterbody and still meet water quality standards.

## Total Maximum Daily Load

- TMDL =  $\sum$  WLA +  $\sum$  LA +Allowance for Future Growth + Margin of Safety
  - Waste Load Allocations (WLAs) assigned to point sources.
  - Load Allocations (LA) assigned to non-point sources.
  - In practice, allocations may be expressed as mass, concentration, or other measures.

## Approved TMDLs in Guam

- Ugum Watershed Sediment TMDL approved by U.S. EPA February 22, 2007
- Guam Northern Watershed Beaches Bacteria TMDL approved by U.S. EPA March 17, 2010



## **Ugum Sediment TMDL**

- Ugum Watershed 7.3 square miles, south from Talofofo and Fena watersheds in southern Guam
- No point sources identified;
  WLA = 0
- Implementation currently through voluntary nonpoint source program projects



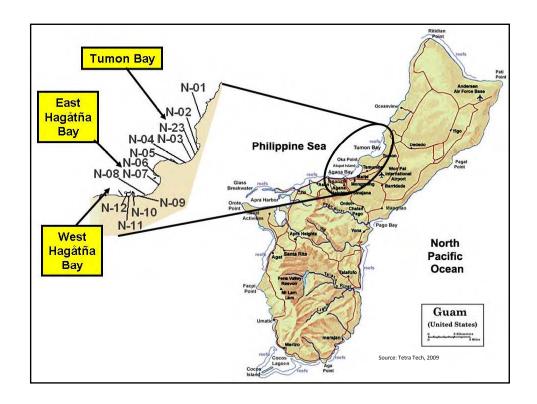
#### **Effective Erosion and Sediment Control**

- Effective erosion and sediment control for construction in the affected watersheds can improve water quality and mitigate future implications of the TMDL
- Other likely measures include:
  - Numeric effluent limits
  - Requirements placed on MS4's
  - Regional projects
  - Other non-point source project

## Guam Northern Watershed Beaches Bacteria TMDL

- N01-Tanguisson Beach
- N24-Gun Beach
- N25-North San Vitores /Okura
- N02-San Vitores
- N23-Fujita
- N03-Matapang Beach Park
- N04-Guma Trankilidat
- N05-Ypao Beach

- N06-Sleepy Lagoon
- N07-Dungca's Beach
- N26-Alupang Towers Beach
- N08-Trinchera Beach
- N09-Padre Palomo Park
- N10-Hagåtña Channel
- N11-Paseo Outrigger Ramp
- N12-Hagåtña Boat Basin
- N13-Hagåtña Bayside Park



## **Summary Points**

- TMDLs provide another level of protection for impaired water bodies
- Implementation plans can have implications for point source and nonpoint source dischargers
- Effective erosion and sediment control can provide significant benefits

## Resources

- Ugum Sediment TMDL document: http://www.epa.gov/waters/tmdldocs/33620\_Ugum%20Sediment%20TMDL.pdf
- EPA's Impaired Waters and TMDL Program: http://water.epa.gov/lawsregs/lawsguidance/cwa/tmdl/

## **Questions?**