

## North Central Texas Water Quality Project



### Validation of BMP Reservoir Impact Using WASP

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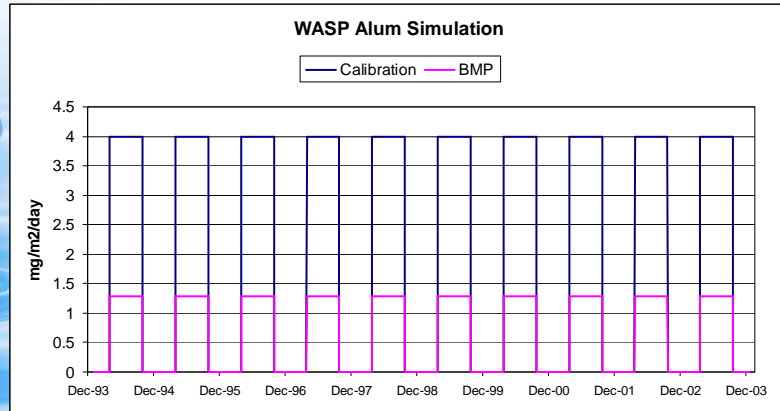


### Inactivation of P by Alum

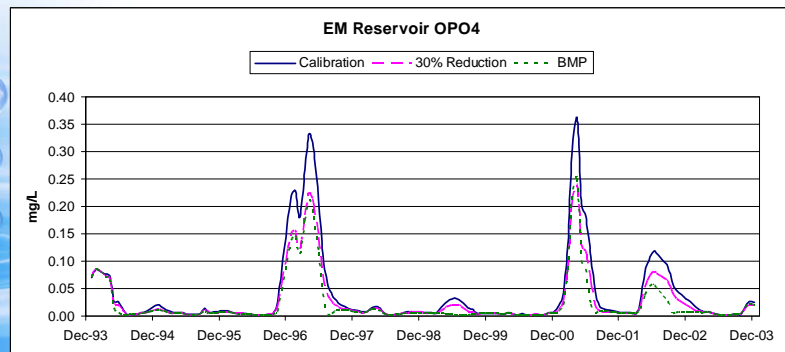
- Apply alum treatment to 3655 acres of EM Lake
- Should result in 68% reduction in P released through flux



## Flux Reduction in WASP



## Reservoir Impact of Flux Reduction







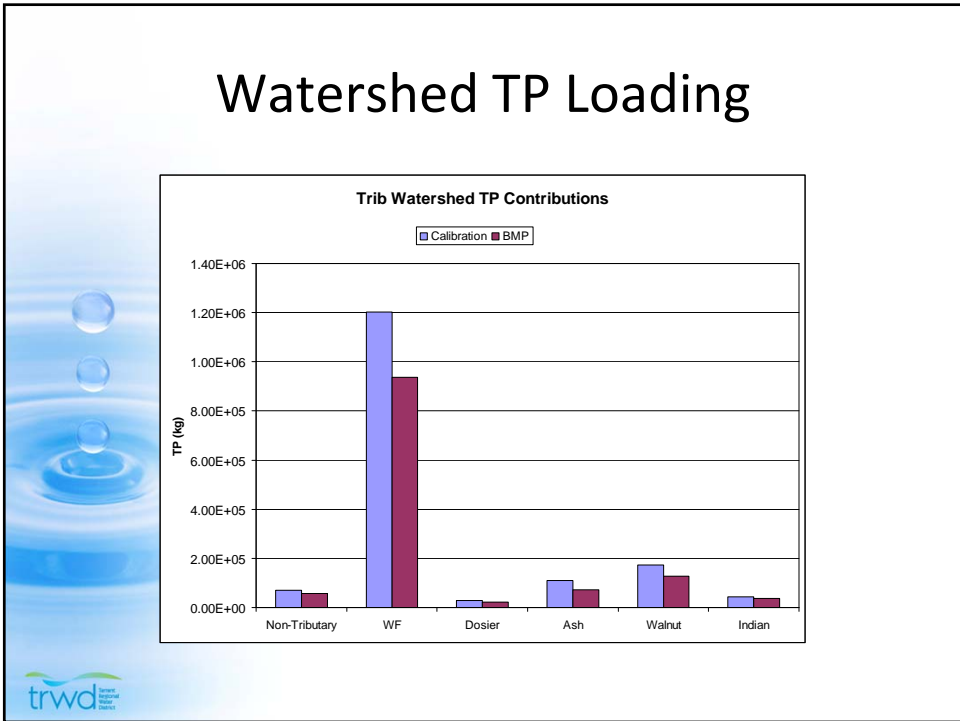
# North Central Texas

## Water Quality Project

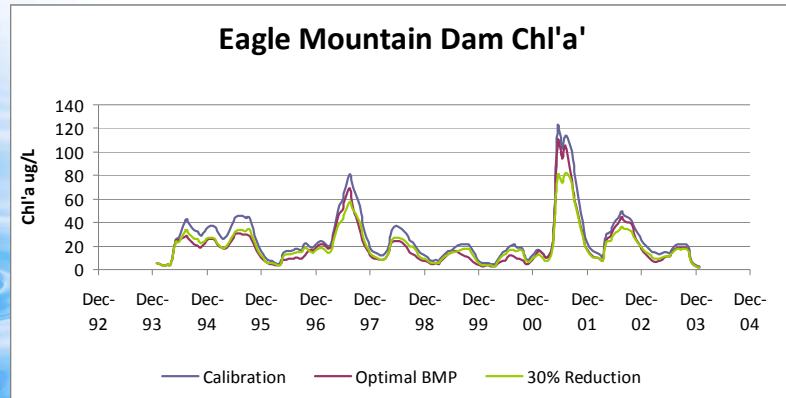
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### Optimal BMP WASP Run

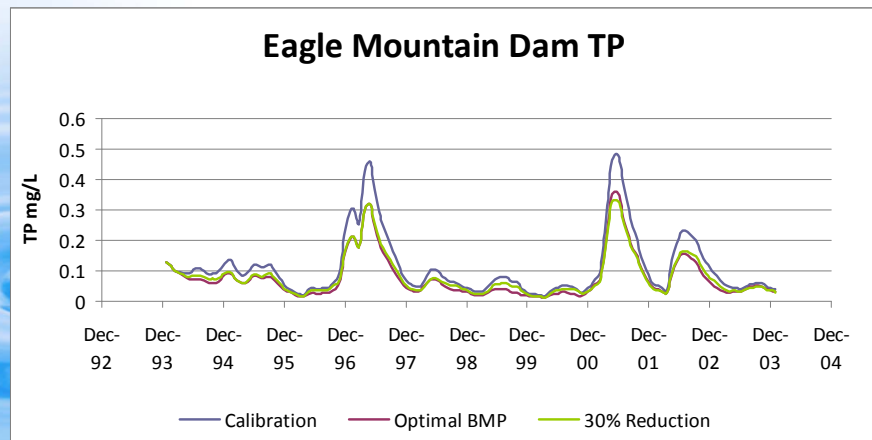
- New Watershed Loads (NPS) with suite of 11 BMPs implemented
- Summertime flux rate reduced
- All other loads remain unchanged
- All kinetics, uses, precipitation same as calibration model.

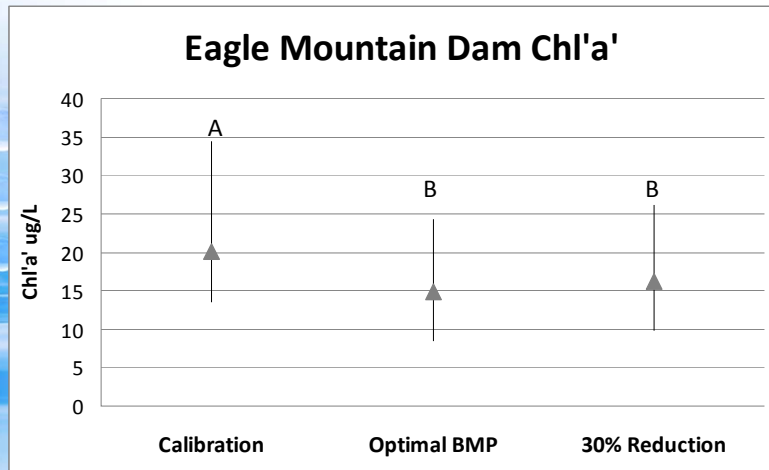
## WASP BMP Results – Chl-a



## WASP BMP Results - TP



## Chl'a Statistical Verification



## TP Statistical Verification

