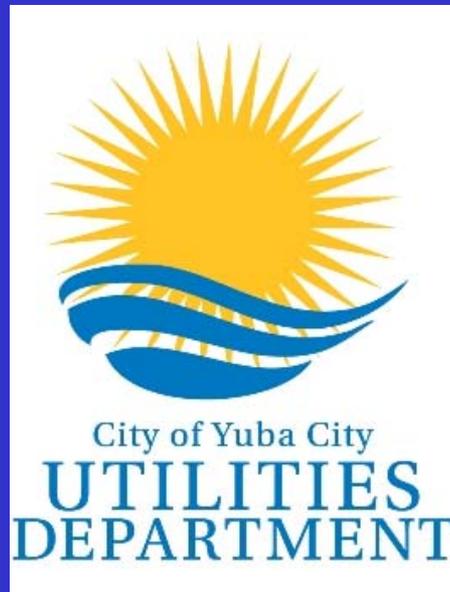


City of Yuba City NPDES Permit

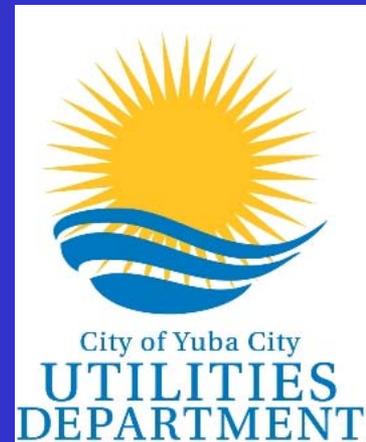
State Water Resources Control
Board

November 18, 2008



Order Discussion Topics

- Mixing Zone Boundary
- Dilution and Maintenance of Outfall Diffusers
- Discharge to Disposal Ponds
- Impact of Lower Yuba River Accord (LYRA) on Dilution Calculation



Feather River – 3050 cfs



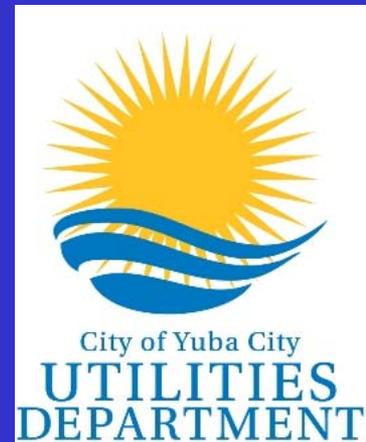
Chronic
Mixing
Zone

Zone of
Passage



Mixing Zone Boundary

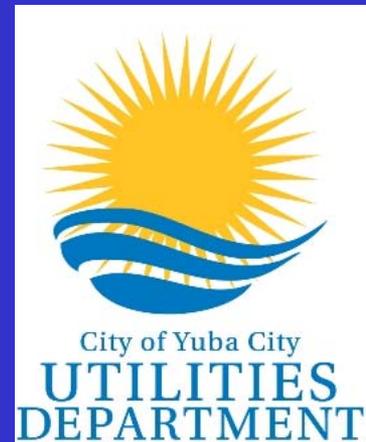
- Fact sheet thoroughly discusses mixing zone calculations
- Concur that mixing zone boundary be clearly defined in permit





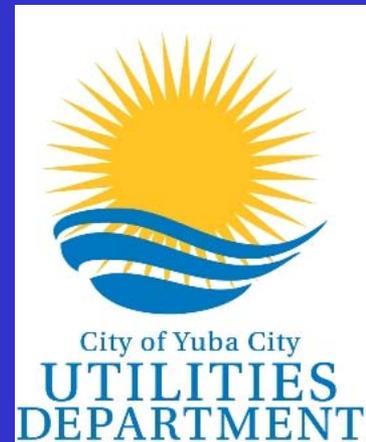
Monitoring of Discharge to Disposal Ponds

- The same limits apply to disposal ponds and Feather River
 - except chlorine residual
- Historically discharge to ponds does not occur in winter months when overtopping could occur



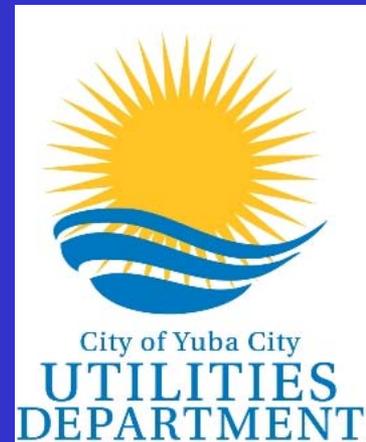
Monitoring of Discharge to Disposal Ponds

- Monitoring plan is currently same regardless of discharge location
- Permit exceedence detected regardless of discharge location



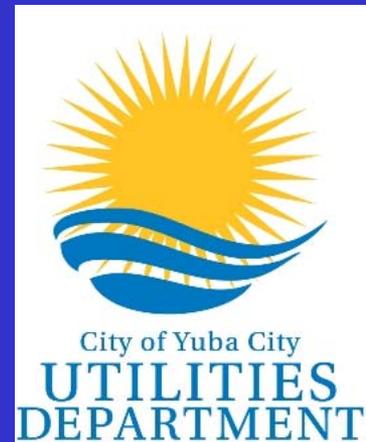
Monitoring of Discharge Location Effluent Wastewater Ponds

- Permit requires submission of a pond study
- Study was submitted to the Regional Board



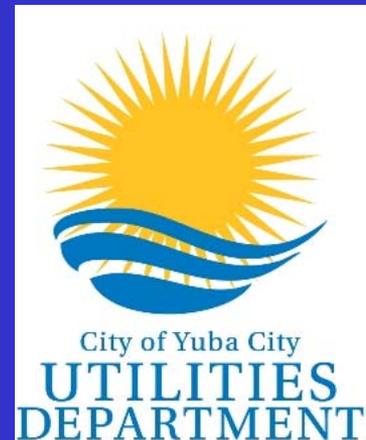
Monitoring of Discharge Location Effluent Wastewater Ponds

- City Recommendation:
 - Remove Point 4 of the draft Order or
 - Modify to allow the Regional Board to determine appropriate monitoring requirements



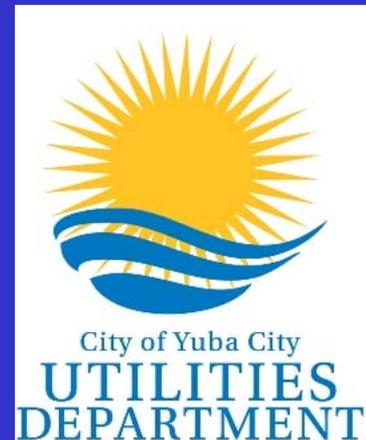
Impact of Lower Yuba River Accord (LYRA)

- Order correctly Identifies an assumption error with LYRA minimum flows
- Order references low flow event with 1:100 year return frequency
- Minimum flow events on Yuba River occur in Summer
- Higher flows occur Fall through Spring
- Feather River upstream flows typically higher in summer and lower in Fall through Spring



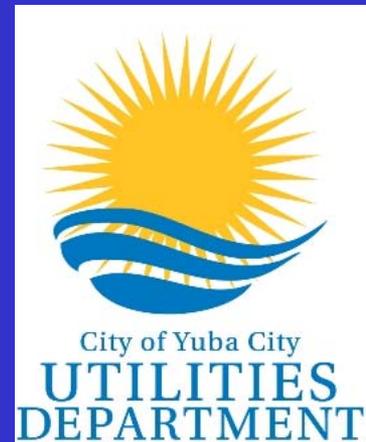
Impact of Lower Yuba River Accord (LYRA)

- LYRA has a requirement that instantaneous flow rate never be less than 90% of required flow, but must meet 5 day running average
- If required flow is 400 cfs – can range between 360 and 520 cfs to meet 5 day running average of 400



Impact of Lower Yuba River Accord (LYRA)

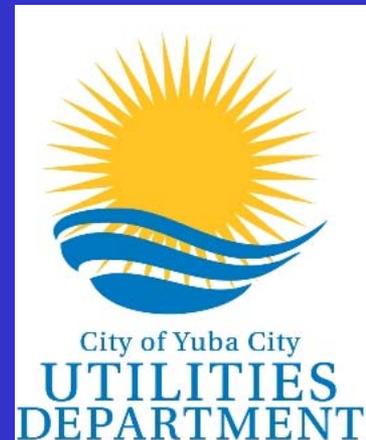
- SIP establishes dilution credits based on 1Q10 and 7Q10
- Determination of 1Q10 and 7Q10 requires determining Feather River and Yuba River flows
- Requires a statistical analysis
- Draft Order has not performed this analysis



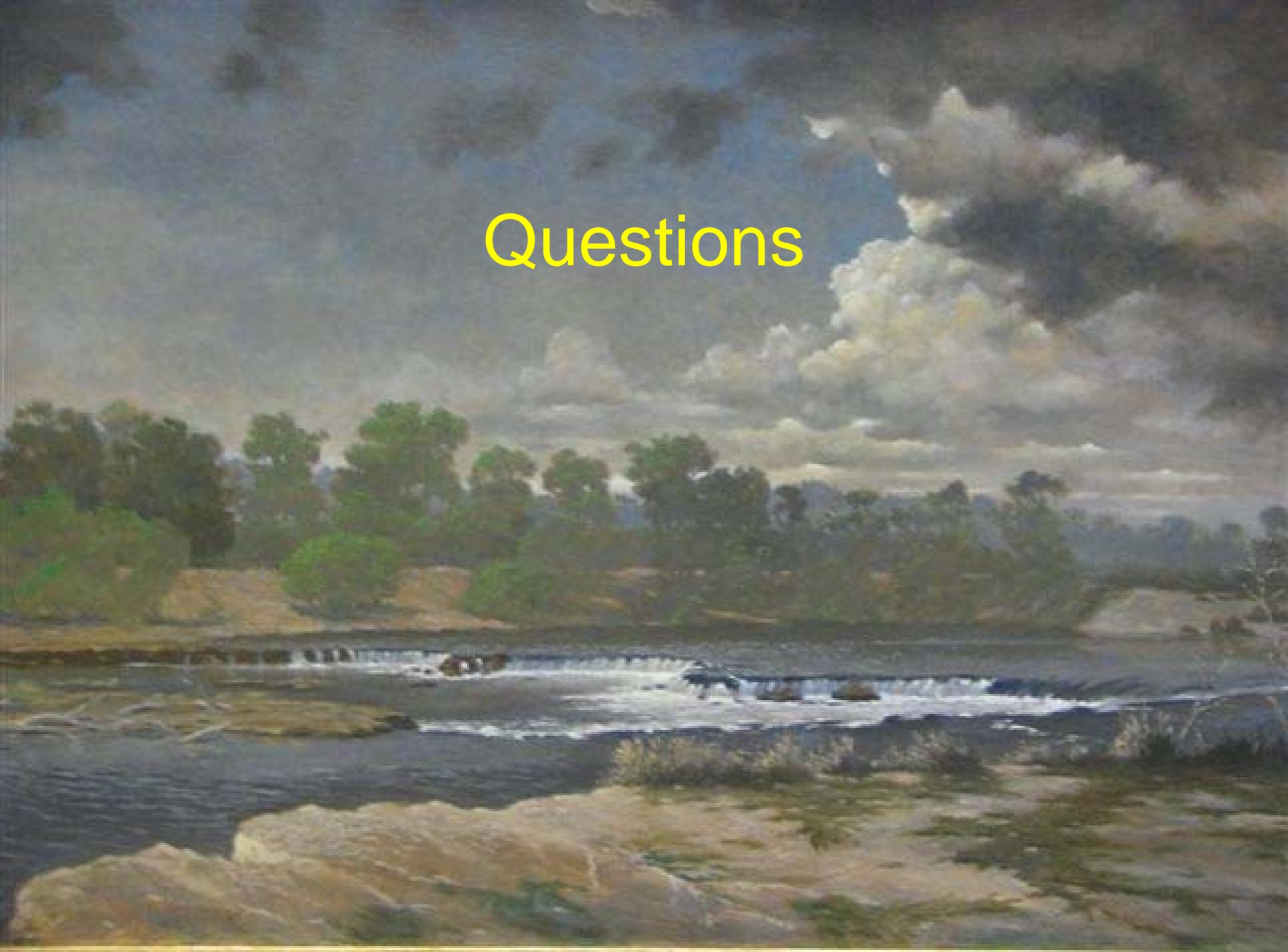
Impact of Lower Yuba River Accord (LYRA)

- Proposed Language for Item 5

“Reconsider the effect of the adopted LYRA on flows at the Yuba City diffuser and reevaluate the post-LYRA effluent limits”



Questions









WRP Diffuser

Waterfall

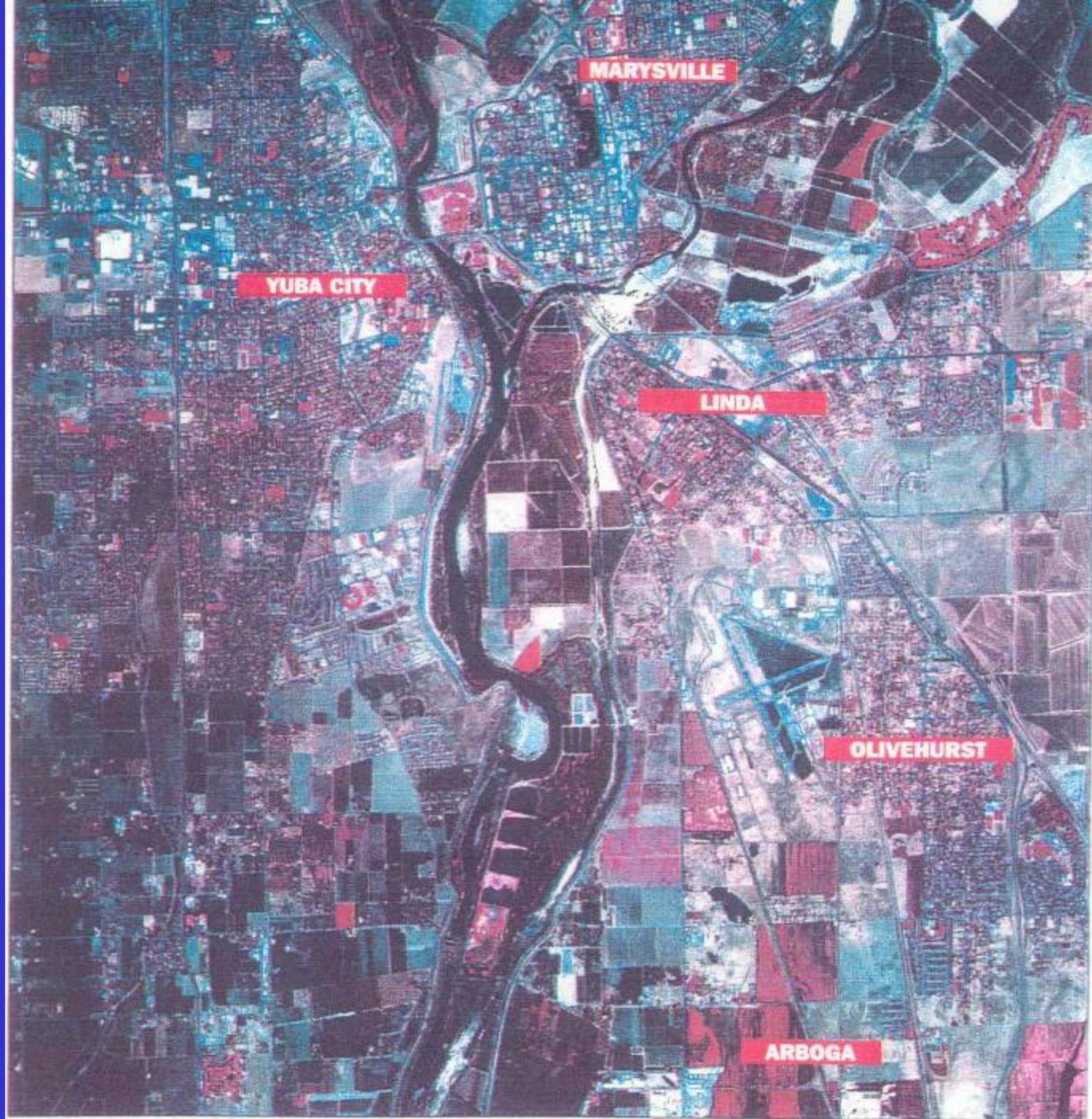
River contraction

Island

3 to 4 minutes

Less than 15 minutes

Feather
and
Yuba
River
October
1996



Feather
and
Yuba
River
January
1997



Pond Location
17 – 26 feet
under water

Monitoring and Maintenance of Outfall Diffusers

- Reword Order Points 2 & 3:

“Modify the diffuser maintenance requirements to insure 40 open ports whenever the Feather River flow falls below 1500 cfs”

