

# WHY DO YOU NEED A WATERSHED MONITORING PROGRAM?

- establish existing (or baseline) watershed condition
- determine if conditions (or parameters) are at 'problem' levels
- provide focus to the watershed management program

## **CONTINUED:**

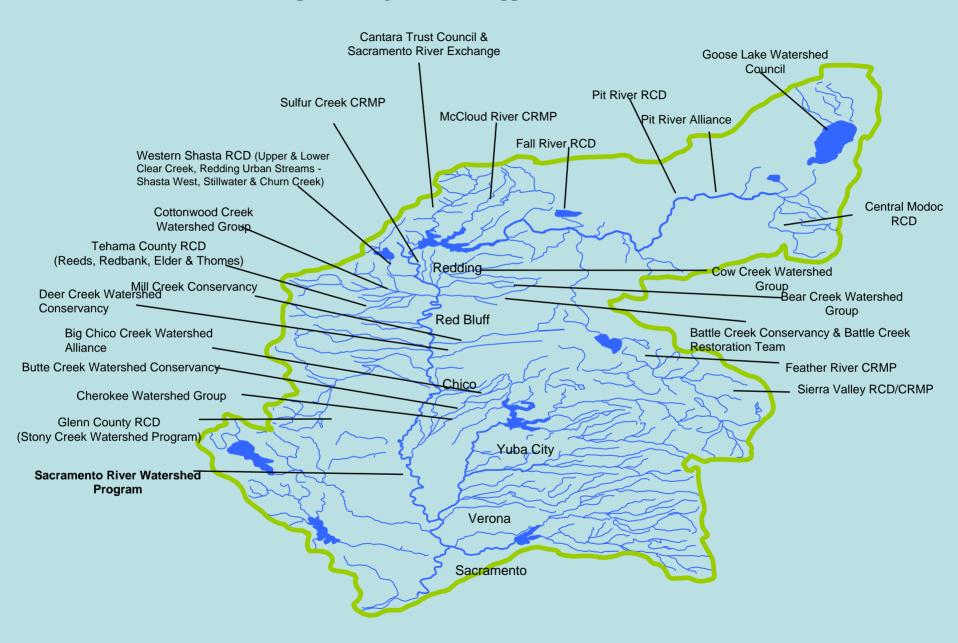
- involve and educate the watershed community (includes agencies)
- evaluate long term trends
- validate improvements resulting from projects, better practices, and education

# CONSIDERATIONS IN ESTABLISHING A WATERSHED MONITORING PROGRAM

- focus on the issues and parameters of concern
- involve an interdisciplinary TAC
- select parameters that are information rich, feasible to measure, and <u>repeatable</u>

- •consider all options for implementation (volunteers, watershed program staff, resource agencies/academia, contract consultants)
- design and implement monitoring program consistent with available funding

#### Watershed Groups and Programs in the Upper Sacramento River Watershed





- implementing entity Feather River CRM and Plumas Corporation
- underway since 1999
- 26 fixed monitoring stations
- monitoring parameters (next slide)
- Reports: Feather River CRM Watershed Monitoring Report 2000-2003 (Manufacturer river-crimette)



### **Upper Feather River** Watershed Monitoring Locations



- Goodrich Cr
- NFFR aby Lake Almanor
- Last Chance Cr @ Doyle Crossing (CRS)
- 5. Last Chance Cr blw Murdock Crossing
- 6. Red Clover Cr blw Chase Bridge
- 7. Red Clover Cr at Notson Bridge (CRS)
- 8. Red Clover Cr blw Drum Bridge
- 9. Indian Cr abv Red Clover (DWR weir) 10. Indian Cr blw Red Clover (Flournoy)
- 11. Indian Cr at Taylorsville
- 12. Lights Cr
- 13. Wolf Cr near Town Park

- 14. Indian Cr aby Spanish Cr
- 15. Rock Cr
- 16. Spanish Cr at Hwy 70 (Gansner Park)
- 17. Spanish Cr aby Greenhorn
- 18. Greenhorn Cr
- 19. Spanish Cr aby Indian
- 20. East Branch North Fork Feather abv NFFR
- 21. Middle Fork Feather @ Beckwourth
- 22. Sulphur Cr
- 23. Jamison Cr
- 24. Middle Fork Feather abv Nelson Cr
- 25. North Fork Feather
- 26. Wolf Cr @ Main St Bridge

# PIT RIVER WATERSHED MONITORING PROGRAM:

- implementing entity Pit River Alliance
- (4 RCD's, USFS, BLM, RWQCB, DWR)
- underway since 2000
- 52 fixed monitoring sites
- monitoring parameters (next slide)
- Pit River Water Quality Study 2001-2002 (www.elfalliance.com)

## **MONITORING PARAMETERS:**

- Flow
- Water Quality
  - temperature
  - DO (24 hour sampling)
  - nutrients
  - E. coli
  - turbidity, SS
  - pH, EC, standard chemicals (minimal)
- Macro invertebrates
- Longitudinal Stream Surveys (bank stabilit riparian, aquatic habitat)

