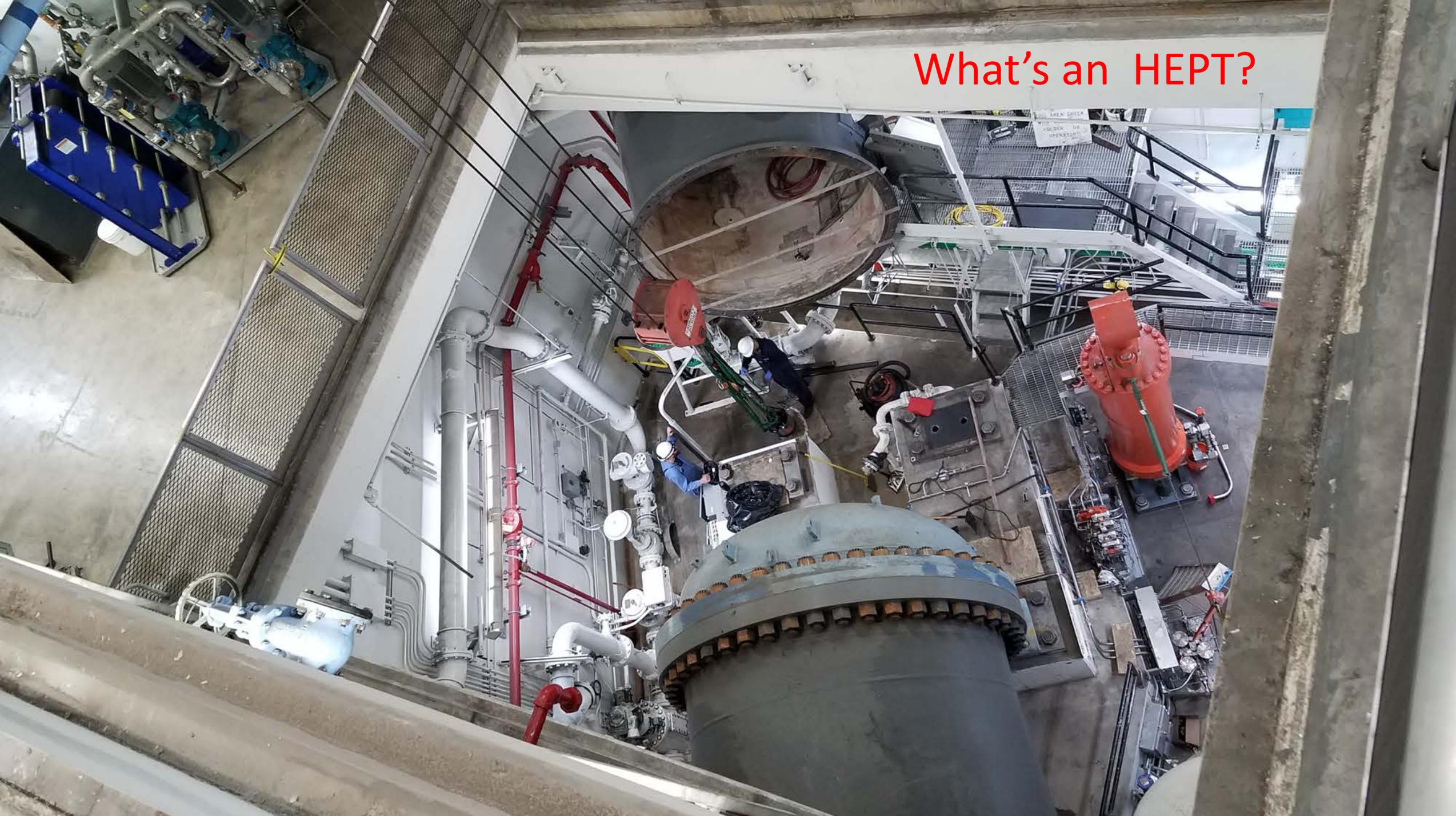


A white pickup truck is parked on a dirt road in a forest. A large, moss-covered log lies across the road in the background. The scene is set in a wooded area with tall trees and a steep, brush-covered embankment.

# Department of Water Resources Oroville Field Division DCP Maintenance

A day in the life of a Hydroelectric Plant Technician (HEPT)

# What's an HEPT?



## Meet SB-88 Requirements for water flow measurement

- At three Upper Feather lakes, added three new sites transmitting to NOAA/CDEC for tailrace water flow measurement

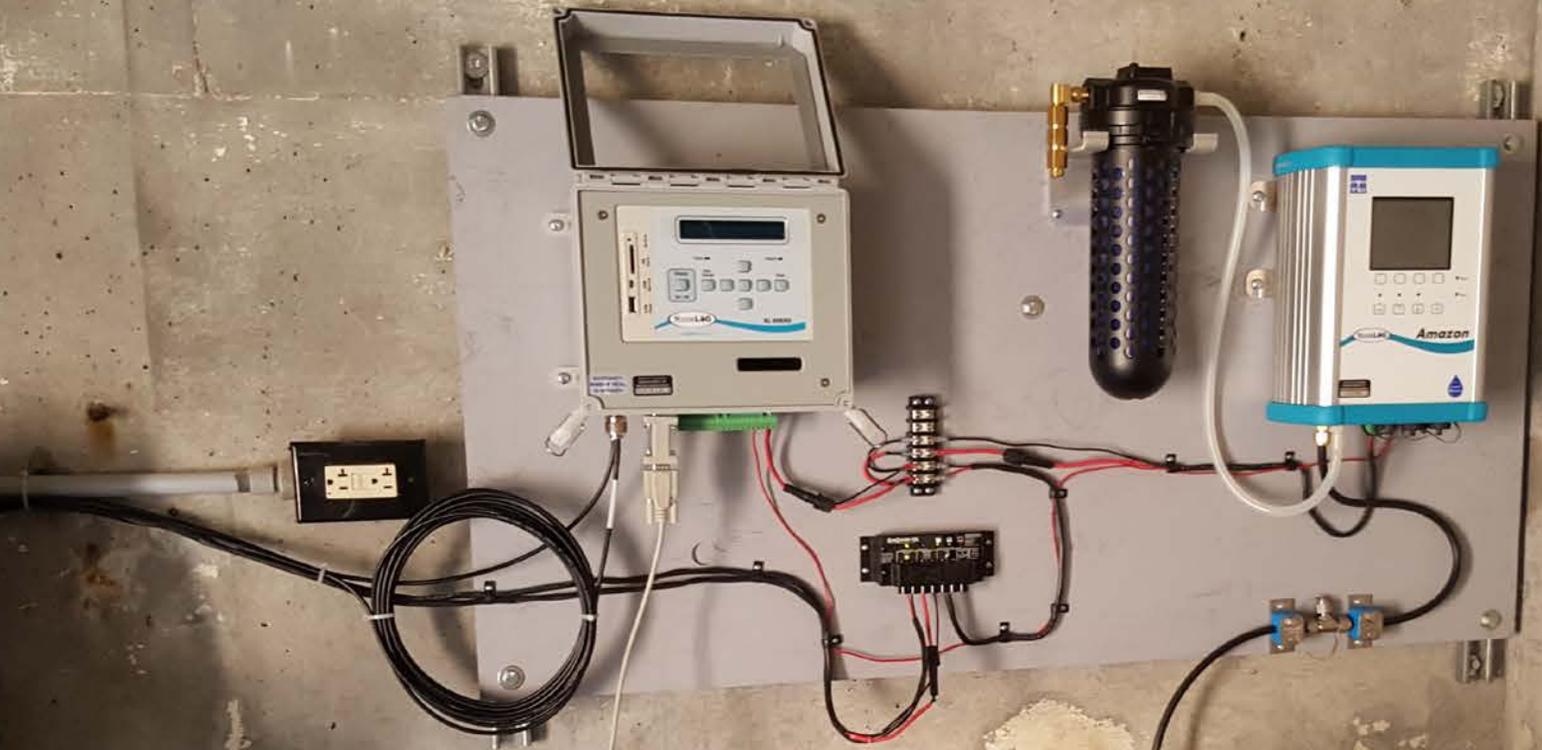
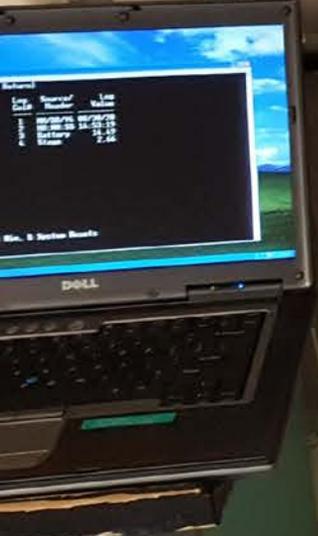


Measurement  
Measurement









Sensing lines for level instruments failing at 3  
Upper Feather lakes

- Installed permanent sensing line at Antelope Lake.
- Installed temporary sensing in pvc pipe at Lake Davis and Frenchman Lake.













## La Porte DCP building water/mold damage

- Civil Maintenance team replacing siding.







## Precip. Tipping Containers leak glycol

- Designed and installed new containers for glycol tipping mechanisms.
- Recover glycol and dispose offsite.









## Leaking glycol column at Frenchman Lake

- Replace noncompatible material.
- Replace acrylic column due to aging.







## Lake Davis Tailrace Fish strainer removal

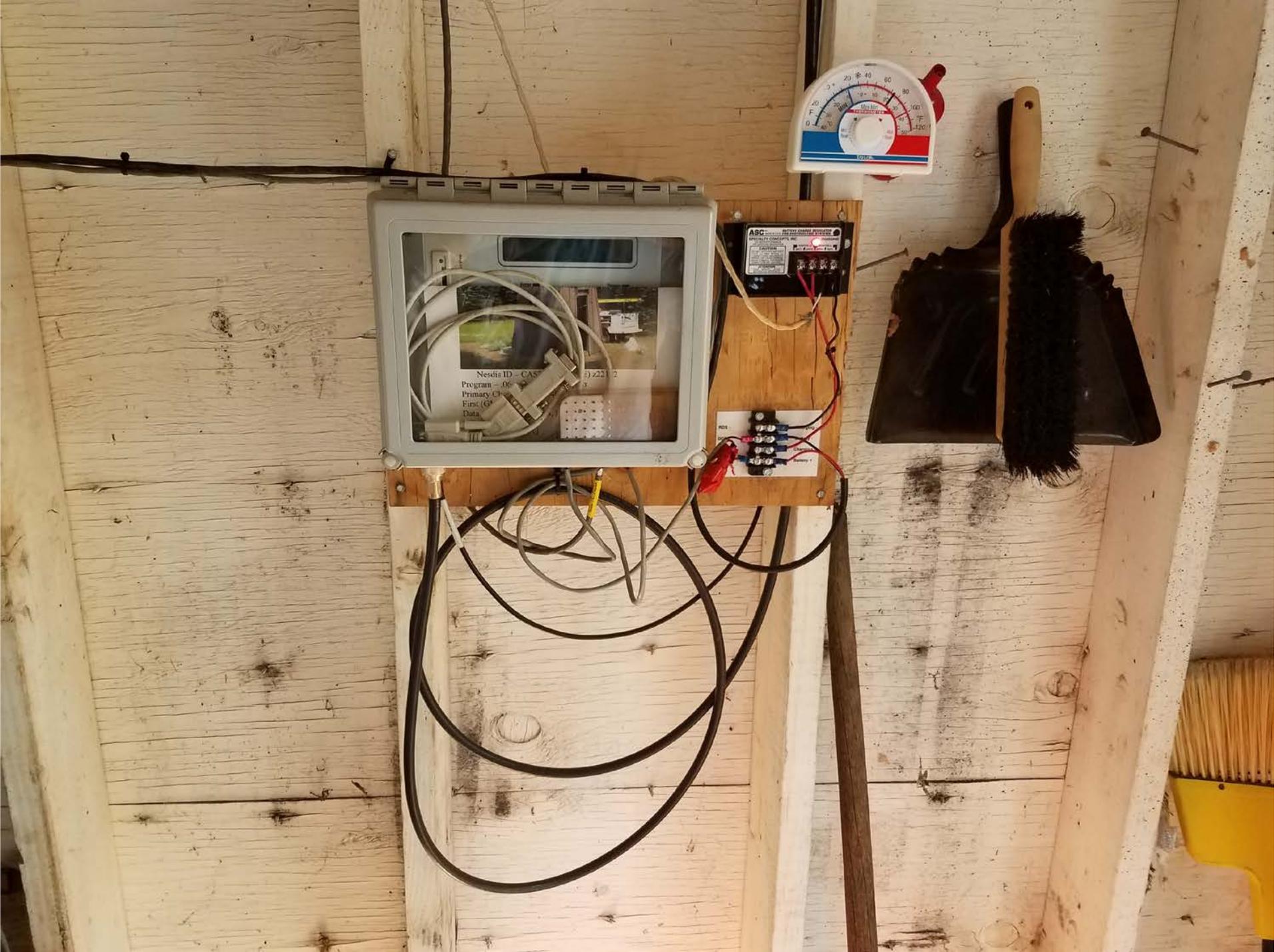
- Originally installed to prevent spread of Northern Pike.
- Restore flow instruments or remove and restore to original weir configuration.

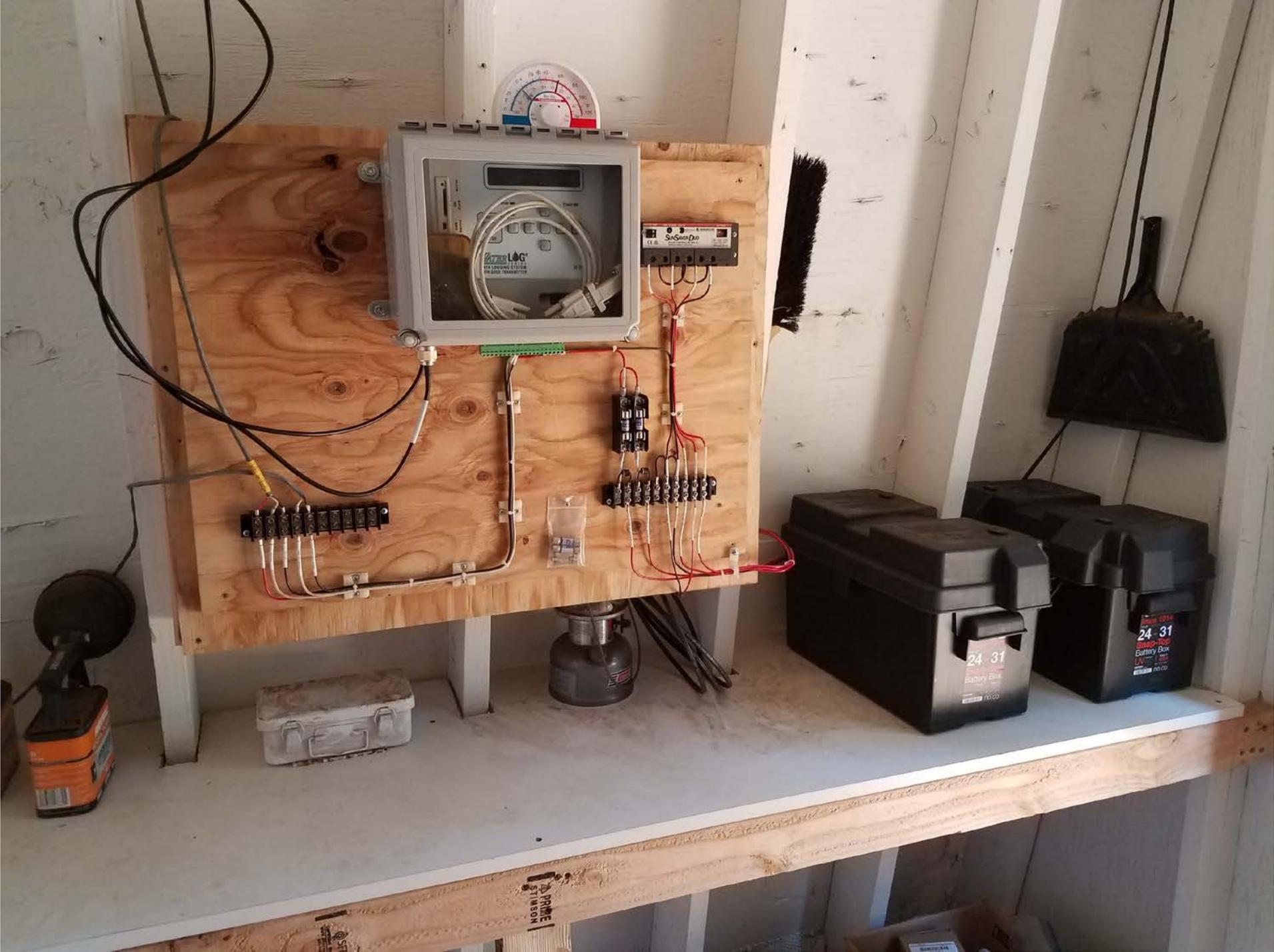




## Many site need electrical upgrades

- Rewired electrical and/or replace backplanes at about 5 sites so far.
- Incorporated dual/backup battery concept at Bucks Lake site.





# Chronic leaks from 2 glycol snow pillows

- Enclosed the PEX snow pillow tubing inside a protective PVC conduit.
- Installed two fluid-less snow pillows at Bucks lake (BKL) and Humbug Summit (HUM).



















# Future Projects

Continue Electrical Upgrades

Install temperature sensors at all sites

Install level instrument sensing lines at Davis and Frenchman lakes

Incorporate PRISM instrumentation at 4 sites

Continue to develop a systematic maintenance program (SAP, FMEP)

Our goal is reliable and accurate data from Feather River Basin

The End

