# IRRIGON HATCHERY

# Water History

- Hatchery designed to produce 25,000 gpm from two well collectors in 1984
- Well Production dropped 18,000 gpm in the late 80's
- Three additional vertical wells contructed in the early 90's
- Water production fell back to 18,000 gpm in late 90's
- Today, five wells produce 12,500-13,000 gpm without any negative impact to static levels

# AERATION TOWER

# INLET

# SOUTH SIDE COLUMN

# NORTH SIDE COLUMN

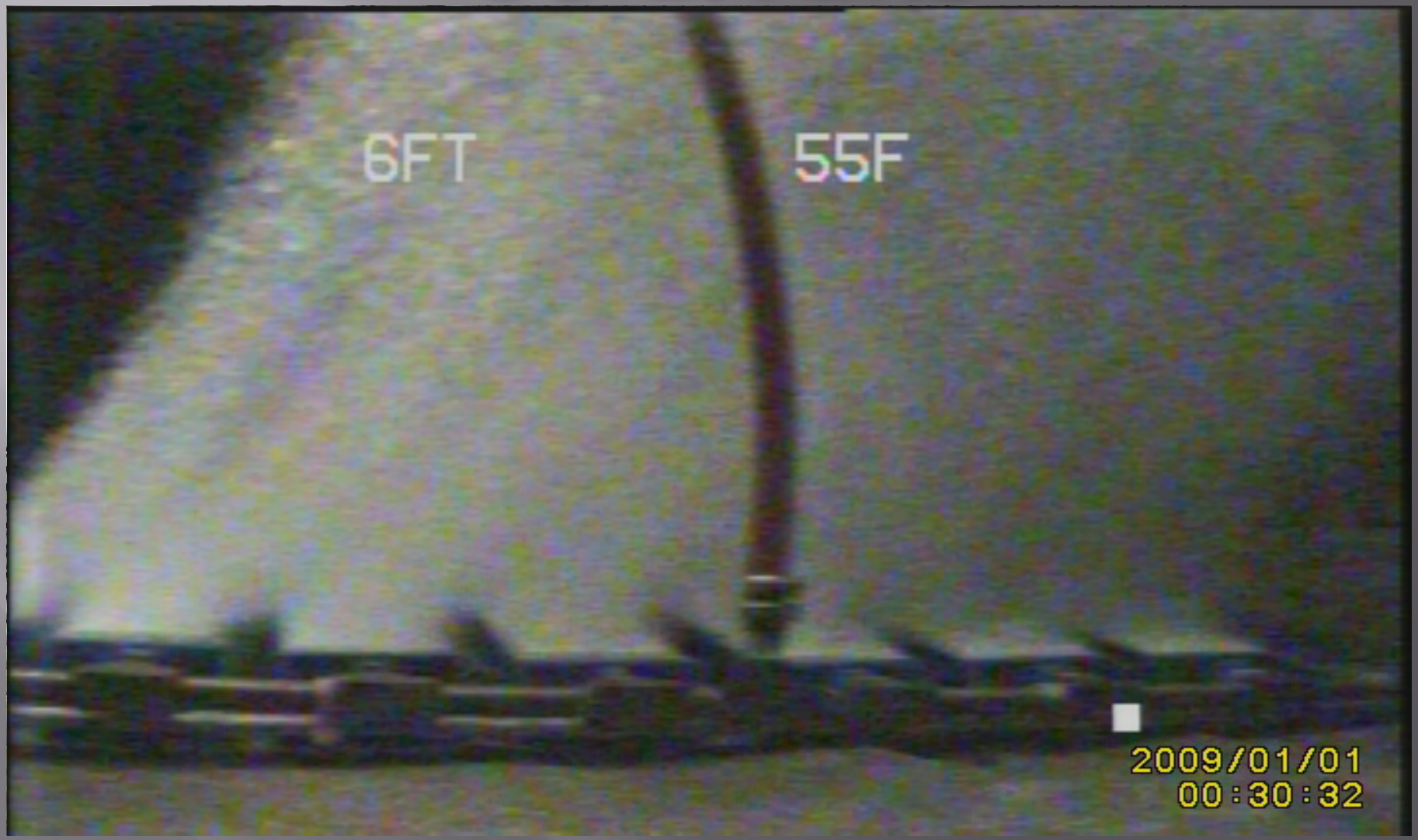
# INLET/PACKED COLUMNS

# MAIN PIPELINE

# 25 LITERS

# 35 LITERS

# 55 LITERS



# SPLASHBOARD

# ALUMINUM BOX

# Results of Modifications

- Oxygen supplementation with airstones has increased DO levels by 100%, while using 80% less oxygen
- Using perforated screen lined headbox has shown a higher increase in %saturation being delivered in the re-use ponds than using splashboards
- The screened headbox has been in use less than two weeks, detailed results are pending

# Summary

- We are producing more pounds of fish with 50% of the water
- We have changed the acclimation transfer of the summer steelhead to Wallowa Hatchery
- We have concluded that most cost effective approach to maintain production is to implement efficient O2 supplementation