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Jones Hatchery Water Flow & Measurement

Water flow into the headrace from Weatherby Springs, Three Springs, and Hoagland tunnel. The fry ponds are fed from a pipeline and each pond has a separate valve in its own headrace.

The water flows through the upper raceways and fry ponds. It then is split and part of the water is directed over the hill into the below hill headrace which enters the headrace above below hill #9 raceway. The rest of the water goes into the west raceways and the headrace of #1 and 2 below hill. The water then goes through the west ponds feeds the Bar S Ditch and the overflow returns to the Below Hill #1 and 2 headrace. The discharge from #1 and 2 below hill raceways then enters the below hill raceways near #3 below hill. Water is flows through the below hill raceways and discharges into Billingsley Creek. During the summer months some of that discharge is diverted into the settling pond for irrigation.

All the early measurements were taken from the tailrace of all the large raceways and fry pond (X). These measured all the water thru the hatchery, including the water for the Bar S and irrigation. The only other water that was added below that point was some water that flowed back into the channel between the west ponds headrace and below hill #1 and 2 headrace. This measurement was added to the total water flow of the hatchery.

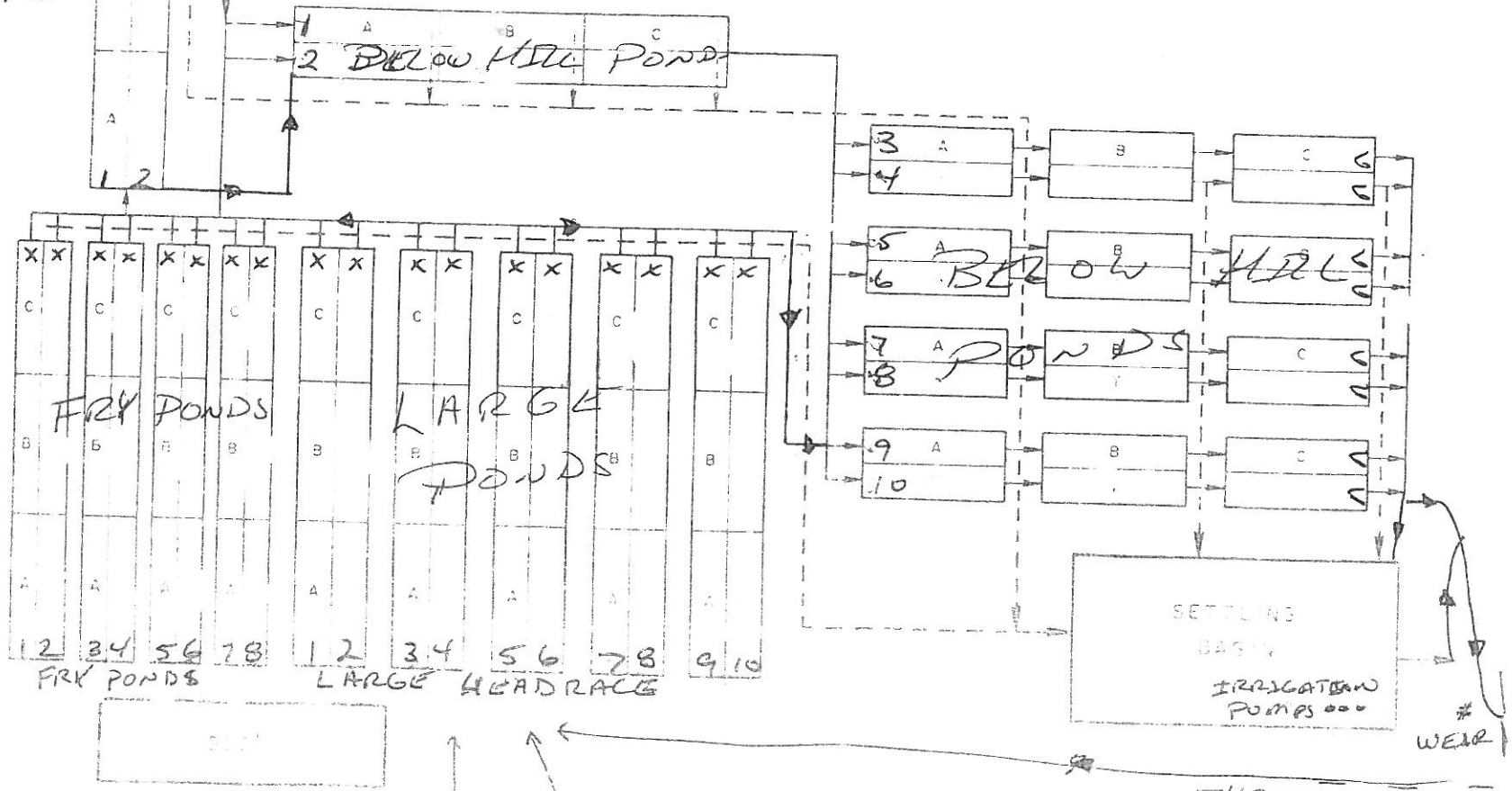
In 2006 we installed a weir going into Billingsley Creek. This weir collected water from the raceway discharge and the settling pond discharge. At the same time we installed a weir at the head of the Bar S Ditch. At that point we measured the two weirs for hatchery flow(*). If the irrigation pumps were on then we had a meter on the pipeline for the irrigation pumps. We also consulted on a weekly basis of what pumps were on at the time. This year we have been measuring the water at the tailraces of the below hill ponds(^).

I have enclosed a older copy of the hatchery water flow. I have also enclosed an aerial photo of the hatchery. I hope this helps.

BARS DITCH

WEST
PONDS

LEGEND
--- CLEANING WASTE
— RACEWAY WATER



FRY PONDS

LARGE HEADRACE

SETTLING
BASIN
IRRIGATION
PUMPS

WEIR

THREE SPRINGS

MORGAN TUNNEL, WEATHERBY SPRINGS