

MEMORANDUM

January 16, 1976

To: Howard Steeley

From: Scott Jeane

Subject: Spring Creek Federal Hatchery

The hatchery was visited in late September 1975 and their spawning procedures observed. All waste (blood, eggs, slime, etc.) drain into the main hatchery effluent which receives primary treatment in a large lagoon. The hatchery had been spawning for several weeks. The lagoon effluent samples collected on the 2nd of October should represent high loading conditions. The unusually large return of adult salmon over-filled the holding facilities resulting in DO stress (see picture).

The rectangular effluent weir was measured and the water taped down at the time the grab samples were collected. The weir measurements deviated from standard specifications but not significantly. The instantaneous flow was computed to be 1.196 MGD.

Laboratory analysis by DOE indicate the usual nutrient levels associated with fish hatchery waste.

Parameter	mg/l	lbs/day
COD	11.0	109.2
NO ₃ -N	0.69	6.8
NO ₂ -N	0.03	0.3
NH ₃ -N	0.81	8.1
T-K-N	1.08	10.8
O-PO ₄ -P	0.15	1.5
T-PO ₄ -P	0.30	2.9

GSJ:ee

