

FISH PASSAGE

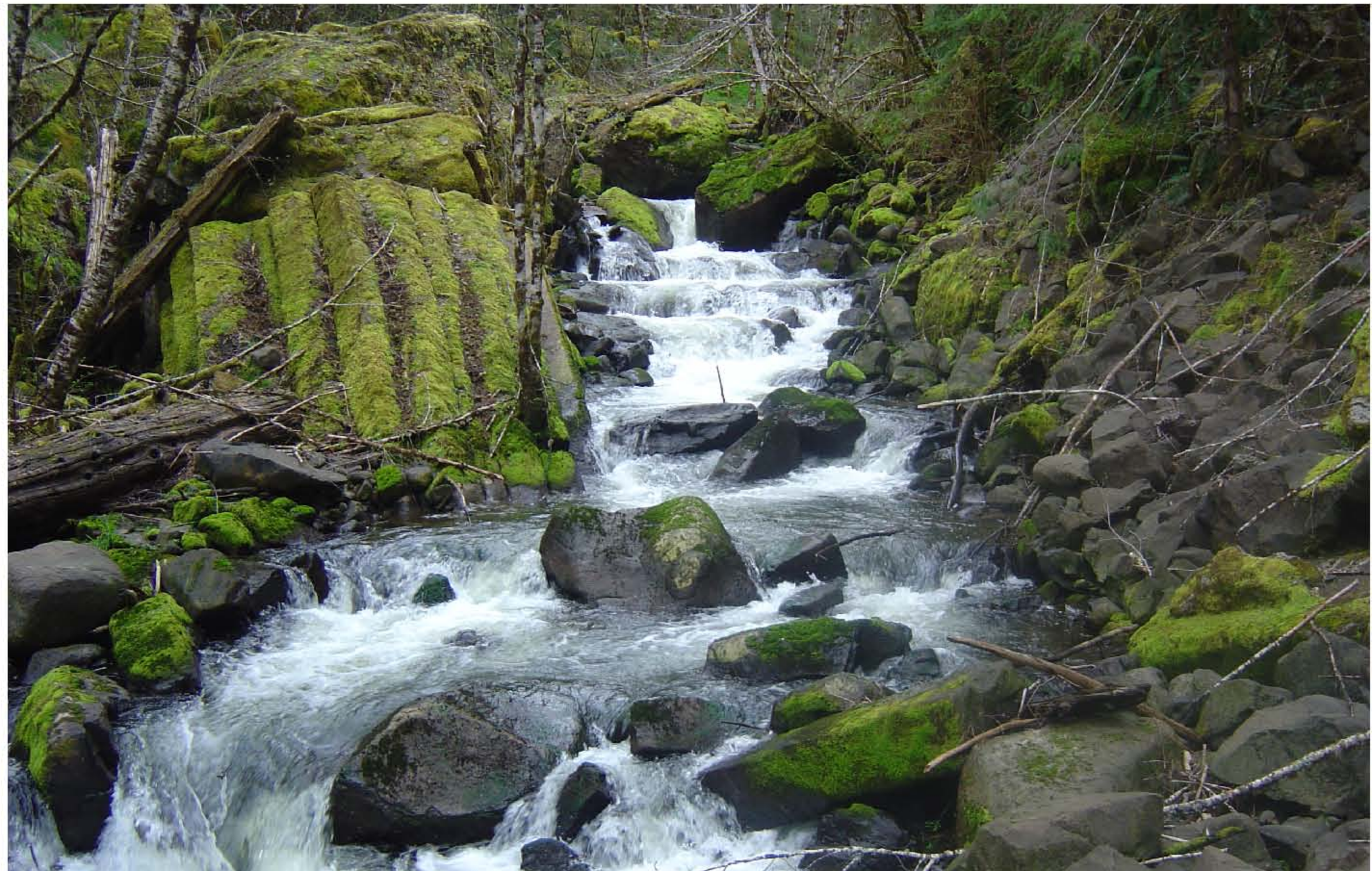


STILLING BASIN REHABILITATION BULL RUN DAM NO. 2 – WALKER CREEK FISH PASSAGE CULVERT CITY OF PORTLAND WATER BUREAU, OR

- 18.5-foot wide open bottom arched culvert design to replace existing 52-inch diameter culvert
- Culvert construction under existing 52-inch and 66-inch diameter water conduits No. 2 and No. 4
- Channel restoration to natural stream conditions
- Jumping pools for fish passage enhancement
- Project completed concurrently with the removal of existing upstream culverts and channel restoration

FISH PASSAGE MITIGATION AT “THE CHUTE”, MCMINNVILLE WATER AND LIGHT, OR

- Enhancements to “the Chute” reach of the Nestucca River
- An officially designated Oregon State Scenic Waterway
- Fish jumping pools constructed to remove a barrier to fish passage
- Natural appearance achieved by using native materials, to conform with Oregon State Scenic Waterway designation
- Design coordinated with Oregon Parks and Recreation Department
- Effectiveness confirmed by observation of formerly absent or rare species above the obstruction



IDLEWILD CREEK FISH PASSAGE IMPROVEMENTS, MCMINNVILLE WATER AND LIGHT, OR

- Jumping pools added to downstream side of existing six-foot diameter culvert
- Restored fish passage by removing 13-foot drop
- Accommodates fish passage through wide range of flows
- Jumping pools designed to provide resting places for small fish
- Drops accommodate juvenile fish jumping ability