

**Appendix A**  
**Site Photographs**



Photo 1: Wooden crib remains in pond south of Whitney Rd.



Photo 2: Abandoned and breached beaver lodge at old outlet of pond area



Photo 3: Pond drain outlet, southern part of pond behind Whitney Road



Photo 4: Outfall structure for pond drainage near Ship Creek channel



Photo 5: KAPP pond. Whitney Rd. and closed KAPP facility in background



Photo 6: Weir to KAPP pond seen from Ship Creek dam. A backwater area can be seen along upper right.



Photo 7: Beaver lodge in KAPP pond



Photo 8: Mudflats looking north towards Swan Bay Docks. Ship Creek channel flows in cut near dock



Photo 9: Ship Creek channel through mudflats. Note deep downcut.



Photo 10: Salt marsh area at mouth of Ship Creek

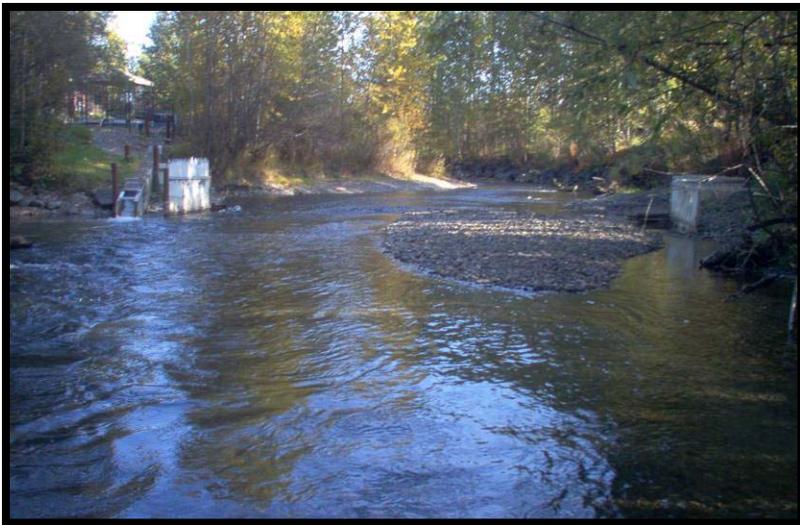


Photo 11: Reach U, general appearance

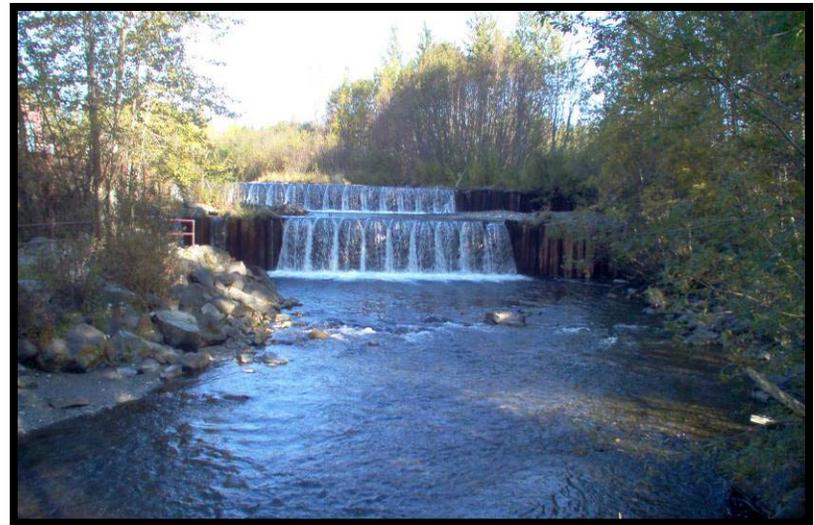


Photo 12: Elmendorf Hatchery dam from downstream

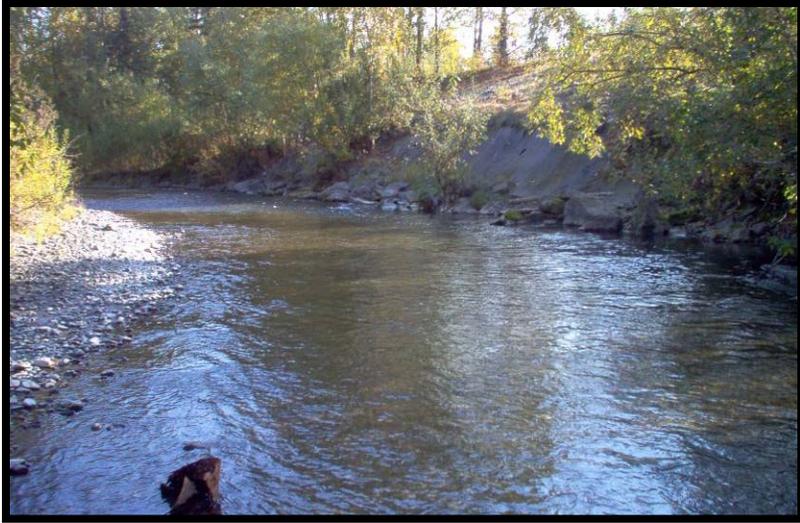


Photo 13: Reach U, Geotextile protected south bank



Photo 14: Reach U, canopy overhang area



Photo 15: Reach U, where seepages from the golf course enter Ship Creek, including snags and woody debris.



Photo 16: Reach 1, general appearance. Note similarity to Reach U



Photo 17: Reach 1, undercut banks and woody debris and snags



Photo 18: Reach 2, straightened channel upstream of Post Rd. Steel structure protects bridge from ice jams



Photo 19: Reach 2, typical debris reinforced banks



Photo 20: Reach 3, pool formed behind KAPP dam. Substrate in this pool is primarily sand.

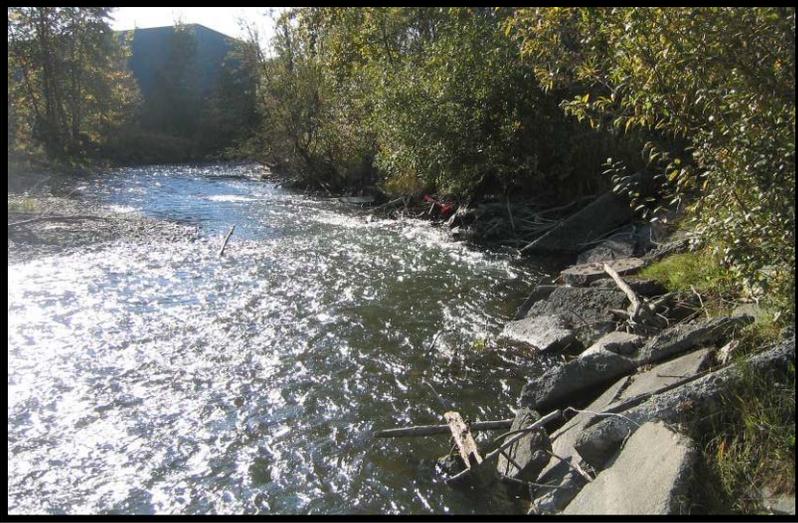


Photo 21: Reach 3, debris reinforced banks. Concrete, rebar, and pieces of railcars can be found.



Photo 22 : Reach 4: channel below KAPP dam (looking upstream). Note gravel bars and scoured channel conditions.

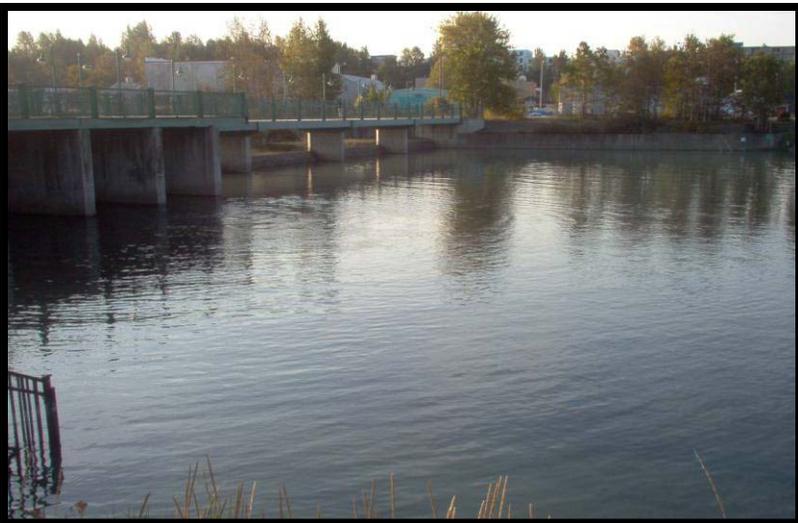


Photo 23: Reach 4, spring tide conditions at KAPP dam. High tide is less than one foot from lip of spillway.



Photo 24 : Reach 4, channel looking downstream to lower railroad bridge. Limited riparian habitat and constructed banks.



Photo 25: Reach 4: Mudflats along Ship Creek below lower railroad bridge



Photo 26: Reach 4: Deeply downcut channel through mudflats at low tide.



Photo 27: Reach 3, recent beaver activity



Photo 28: Reach 3, recent beaver activity



Photo 29: Reach 4, recreational fishing at low tide in channel next to ARRC office



Photo 30: Reach 3, dead Coho salmon



Photo 31: Storm drain from railroad right-of-way east of ARRC Terminal Reserve. Drains to Ship Creek upstream of Elmendorf hatchery



Photo 32: One of several hatchery return flows to Ship Creek



Photo 33: Reach U, outfall of hatchery drainage ditch, immediately upstream of Reeve Blvd. bridge. Abundant salmon noted at this location.



Photo 34: Reach U, Ditch draining south side near golf course



Photo 35: Reach 1, OU-5 outfall



Photo 36: Reach 1: MOA 830-832 outfall (dry)



Photo 37: Reach 1, Ditch draining MOA 830/832 north of Ship Creek



Photo 38: Outfall MOA 835, south bank



Photo 39: Reach 1, Abandoned ditch east of old Standard Steel facility



Photo 40: Reach 1, ditch behind Commercial Truck Services draining seepage to marsh



Photo 41: Reach 1: Iron-stained seepages to Ship Creek through gravel/cobble berm separating marsh from the creek.



Photo 42: Reach 2, MOA 833 outfall (south side at Post Rd.). Minor sheening emanating from this storm drain.



Photo 43: Reach 3, MOA 826 outfall (south side). Strong hydrocarbon odor present.



Photo 44: Reach 3, MOA 812A outfall.



Photo 45: Reach 3, MOA 812B outfall, south side



Photo 46: Reach 2: ARRC E-1 outfall north side, Whitney Rd. and Post Rd.



Photo 47: Reach 2: Ditch along railroad track draining ARRC E-1, looking northeast



Photo 48: Reach 3, ARRC A-2 outfall. Note outfall is made of wood.

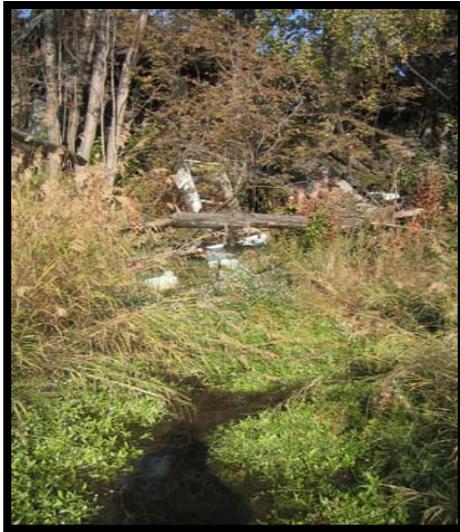


Photo 49: Reach 3: Flow from ARRC A-2 to pond



Photo 50: Reach 4, MOA 811 outfall



Photo 51: Reach 4: MOA 809A outfall west of covered bridge



Photo 52: Reach 4: MOA 809B outfall east of covered bridge



Photo 53: Reach 4: MOA 808 outfall, partially crushed by ice flows



Photo 54: Reach 4, outfall ARRC B-1/MOA 825 on left, KAPP pond outfall on right. Located under north KAPP dam landing



Photo 55: Reach 4, MOA 820/ADOT outfall on top, ARRC A-1 on bottom. Located adjacent to highway bridge on north side



Photo 56: Reach 4, ARRC C-1 outfall, north bank adjacent to C St. bridge. Subdrainage may be inactive.



Photo 57: Reach 4, salt marsh area on north side of creek adjacent to mudflats. Photo taken at high tide (cf. Photo 10)



Photo 58: Reach U, overhead pipe crossing



Photo 59: Reach 2, sewer pipe crossing creek



Photo 60: Reach 3, wood crib along creek near pond area



Photo 61: Reach 3, concrete "box", partially embedded in bank. Possibly abandoned water intake.



Photo 62: Reach 3, steel pipe emerging from north bank.

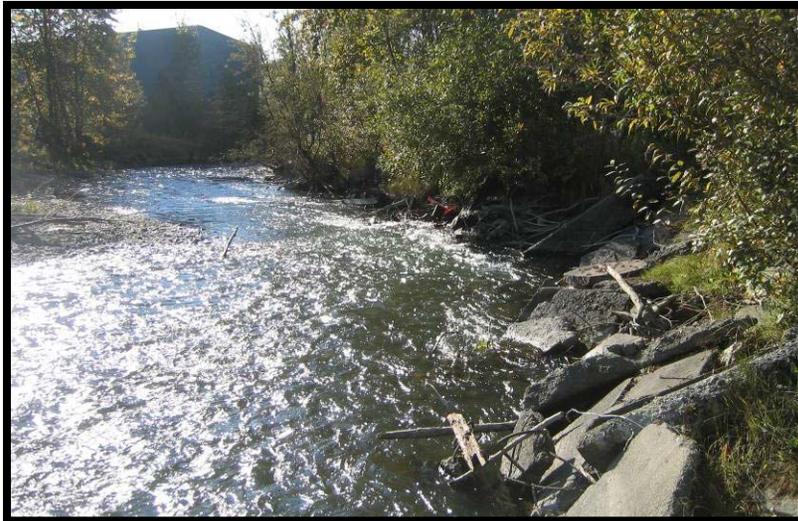


Photo 63: Reach 3, armored north bank with debris, rebar, and remains of railroad cars



Photo 64: Reach 3, remains of railroad couplings in creek north bank adjacent to location in Photo 63



Photo 65: Reach 4, seepages along north bank below Wrightway Auto.



Photo 66: Reach 4, cut cement asbestos pipe emerging high on north bank below Wrightway Auto



Photo 67: Reach 1, ditch carrying seepage from fill bank behind Commercial Trucking Services



Photo 68: Reach 1, black sludgy material in ditch just below berm behind Commercial Truck Services. Strong hydrocarbon odor, although little sheening.



Photo 69: Reach 3, MOA 826 outfall, strong hydrocarbon odor but no sheening or visible contamination



Photo 70: Outlet of ditch from MOA 826 outfall



Photo 71: Reach 3, apparent sheens on pond surface



Photo 72: Reach 3, close-up of sheens on pond. Sheens appear to be of natural, biogenic origin



Photo 73: Reach 3, unidentified pumping structure: view of pit and abandoned pump house



Photo 74: Reach 3, unidentified pumping structure: detail of pit



Photo 75: Reach 3, unidentified pumping structure: detail of pit



Photo 76: Reach 3, unidentified pumping structure: connector pipe emerging from ground



Photo 77: Reach 3, unidentified pumping structure: additional structures 75 feet north of pump housing



Photo 78: Reach 3, abandoned fuel tank in creek. Tank was clean with no evidence of contamination



Photo 79: North Bluffs: excavated portion of bluff, looking east to the "knob" area



Photo 80: North Bluffs: central section of the excavated portion of the bluff.



Photo 81: North Bluffs: small wetland area in the far eastern end of the railyard, adjacent to railroad spur.



Photo 82: North Bluffs; another wetland area in the central portion of the bluffs adjacent to roadway. Drains to the ditch along the roadway.



Photo 83: North Bluffs: typical seepage along roadway with iron-related stained soils.



Photo 84: North Bluffs: forested slopes in central portion of bluffs. Trail visible on left leads to a gate in the fence to Elmendorf AFB



Photo 85: North Bluffs: typical understory vegetation



Photo 86: North Bluffs: typical understory vegetation



Photo 87: North Bluffs: outlet for part of OU-5 recovery system to treatment pond.



Photo 88: North Bluffs: portion of the OU-5 treatment pond



Photo 89: North Bluffs: remains of fueling rack along spur. Pipes remain in ground. OU-5 treatment pond on right



Photo 90: Looking east from fuel rack. Fuel distribution line emerges from ground at top center.



Photo 91: North Bluffs: ditch carrying meltwater and runoff from top of bluff. Boggy area towards the left (west). Abundant debris and garbage was noted in the ditch