

APPENDIX B

Photographs

Concord River Diadromous Fish Restoration Feasibility Study

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Photo 59: Talbot Mills Dam – Historical Photo 32

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Photo 62: Talbot Mills Dam – Historical Photo 33

Photo 1: Middlesex Falls – Main Channel



Looking upstream from left bank during low flow period (McKeon, 2002)

Photo 2: Middlesex Falls – Main Channel



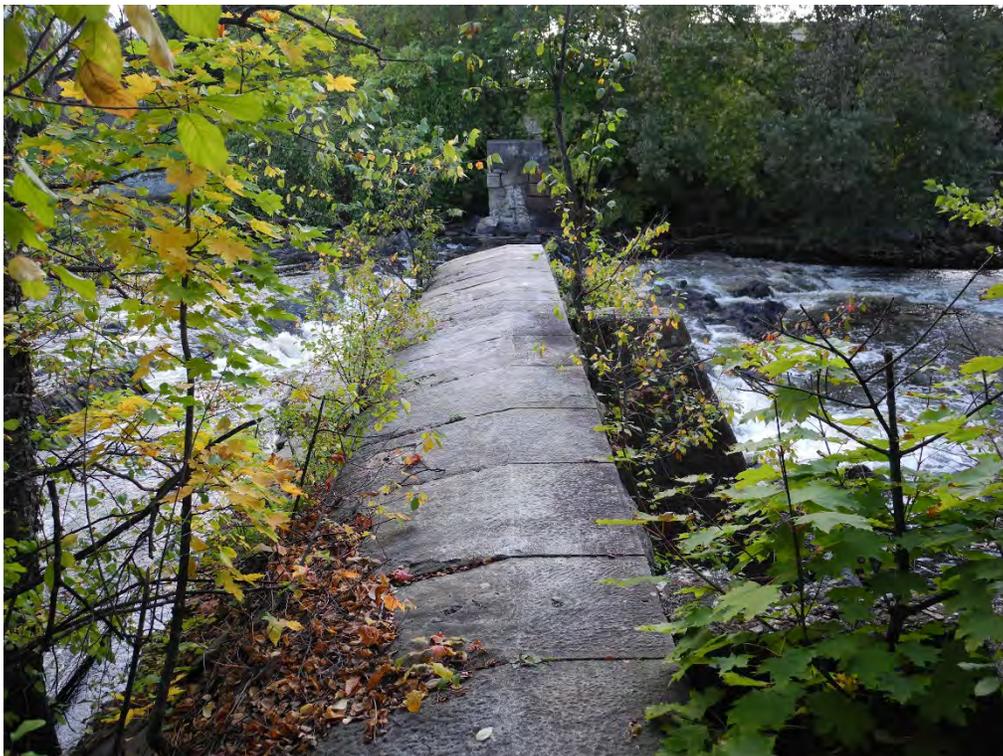
Close-up of ledge during low flow period (McKeon, 2002)

Photo 3: Middlesex Falls – Former Dams



Downstream face of former right Middlesex Dam abutment (McKeon, 2002)

Photo 4: Middlesex Falls – Former Dam Abutments



Looking toward river left bank/abutment from left dam abutment (GSE, 10/6/14)

Photo 5: Middlesex Falls – Former Dam Abutments



Looking down at toe of right abutment from top of abutment (GSE, 10/6/14)

Photo 6: Middlesex Falls – Former Dam Abutments



Looking toward river left bank/abutment from right abutment (NOAA, 6/21/12)

Photo 7: Middlesex Falls – Main Channel



Looking upstream from right abutment (GSE, 10/6/14)

Photo 8: Middlesex Falls – Main Channel



Looking downstream from right abutment (GSE, 10/6/14)

Photo 9: Middlesex Falls – Former Raceway



Looking upstream at former raceway inlet; Church St bridge in background (GSE, 10/6/14)

Photo 10: Middlesex Falls – Former Raceway



Looking downstream through former raceway structures (GSE, 10/6/14)

Photo 11: Middlesex Falls – Former Raceway



Looking across steel beams to left channel wall in former raceway (GSE, 10/6/14)

Photo 12: Middlesex Falls – Former Raceway



Looking downstream from outlet of former raceway; note concrete sill (GSE, 10/6/14)

Photo 13: Centennial Falls Dam – Spillway



Looking upstream (NOAA, 6/21/12)

Photo 14: Centennial Falls Dam – Spillway



Looking toward river-left bank, with fishway and gatehouse in background (GSE, 10/6/14)

Photo 15: Centennial Falls Dam – Fishway



Looking upstream at non-overflow section (left) and fishway entrance (right) (NOAA; 6/21/12)

Photo 16: Centennial Falls Dam – Fishway



Looking upstream. Note misaligned baffles (NOAA; 6/21/12)

Photo 17: Centennial Falls Dam – Fishway



Looking downstream. Canal trashrack on left, bypass entrance center, Denil exit on right (USFWS, 2004)

Photo 18: Centennial Falls Dam – Fishway Barrier Dam



Denil entrance in foreground with non-overflow section behind; flow approximately 650 cfs (USFWS, 2004)

Photo 19: Centennial Falls Dam – High Flow



Looking upstream; flow approximately 1,050 cfs at Concord, MA gage (6/16/03, USFWS)

Photo 20: Centennial Falls Dam – Interpretive Sign



Interpretive sign on trail adjacent to dam (GSE, 10/6/14)

Photo 21: Talbot Mills Dam – Spillway



Looking downstream toward Faulkner Street bridge from left abutment (GSE, 10/6/14)

Photo 22: Talbot Mills Dam – Spillway



Looking downstream toward Faulkner Street bridge from right abutment (GSE, 10/6/14)

Photo 23: Talbot Mills Dam – Spillway



Looking from left abutment during extreme low flow (Reiner, 8/16/10)

Photo 24: Talbot Mills Dam – Spillway



Looking from right abutment during extreme low flow (Reiner, 8/16/10)

Photo 25: Talbot Mills Dam – Spillway



Looking from left abutment during extreme low flow (Reiner, 8/16/10)

Photo 26: Talbot Mills Dam – Spillway



Looking from Faulkner Street bridge during extreme low flow (Reiner, 8/16/10)

Photo 27: Talbot Mills Dam – Spillway



Close-up of right side of spillway during extreme low flow (Reiner, 8/16/10)

Photo 28: Talbot Mills Dam – Spillway



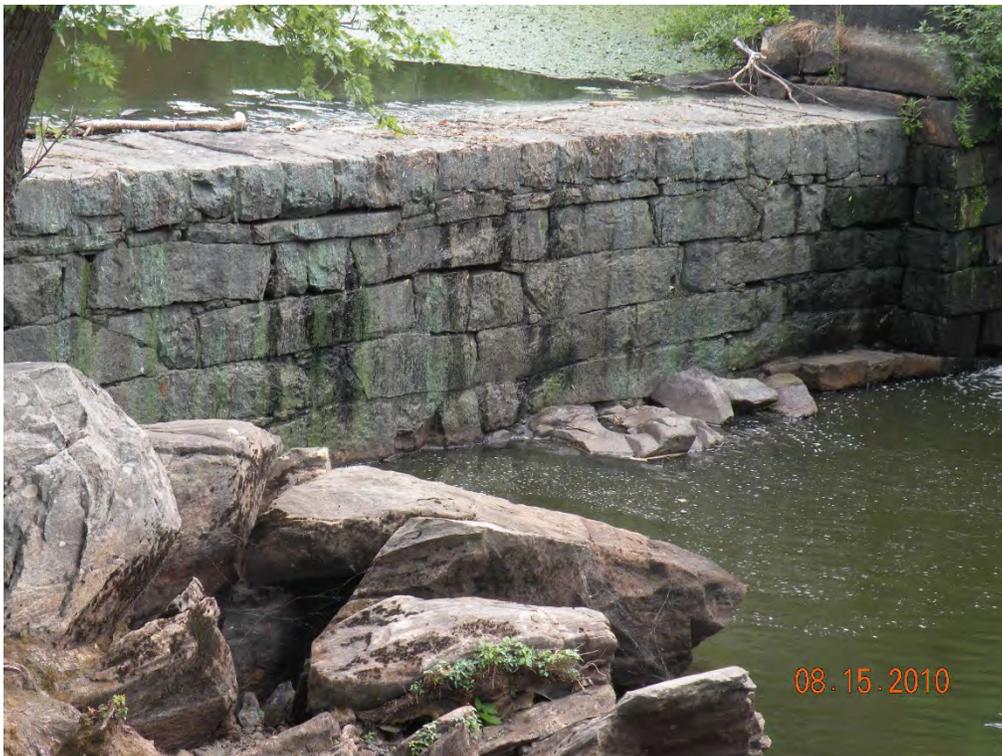
Close-up of center right side of spillway during extreme low flow (Reiner, 8/16/10)

Photo 29: Talbot Mills Dam – Spillway



Close-up of center left side of spillway during extreme low flow (Reiner, 8/16/10)

Photo 30: Talbot Mills Dam – Spillway



Close-up of left side of spillway during extreme low flow (Reiner, 8/16/10)

Photo 31: Talbot Mills Dam – Right Abutment



Right abutment showing concrete plug in former fishway and leakage (Reiner, 8/16/10)

Photo 32: Talbot Mills Dam – Right Abutment



Right abutment showing granite capstone and leakage (PAL, 2015)

Photo 33: Talbot Mills Dam – Left Abutment



Left abutment showing leakage through inoperable low level outlets (Reiner, 8/16/10)

Photo 34: Talbot Mills Dam – Left Abutment



Left abutment showing granite capstone (PAL, 2015)

Photo 35: Talbot Mills Dam – Sluiceway



Looking upstream toward sluiceway inlet from footbridge (Reiner, 8/16/10)

Photo 36: Talbot Mills Dam – Sluiceway



Looking upstream in sluiceway at concrete weir with sluice gate and footbridge (NOAA, 11/27/07)

Photo 37: Talbot Mills Dam – Sluiceway



Looking downstream in sluiceway at concrete weir with sluice gate and Faulkner Street beyond (NOAA, 11/27/07)

Photo 38: Talbot Mills Dam – Sluiceway



Close-up of upstream face of sluice gate (Reiner, 8/23/02)

Photo 39: Talbot Mills Dam – Sluiceway



Upstream face of sluice gate in open position during low flow showing rotted sections (Reiner, 8/16/10)

Photo 40: Talbot Mills Dam – Sluiceway



Close-up of downstream face of sluice gate in closed position showing leakage (Geotechnical Consultants, 2015)

Photo 41: Talbot Mills Dam – Stilling Basin



Looking downstream in stilling basin toward outlet gate to Faulkner Mill (Geotechnical Consultants, 2015)

Photo 42: Talbot Mills Dam – Sluiceway Outlet



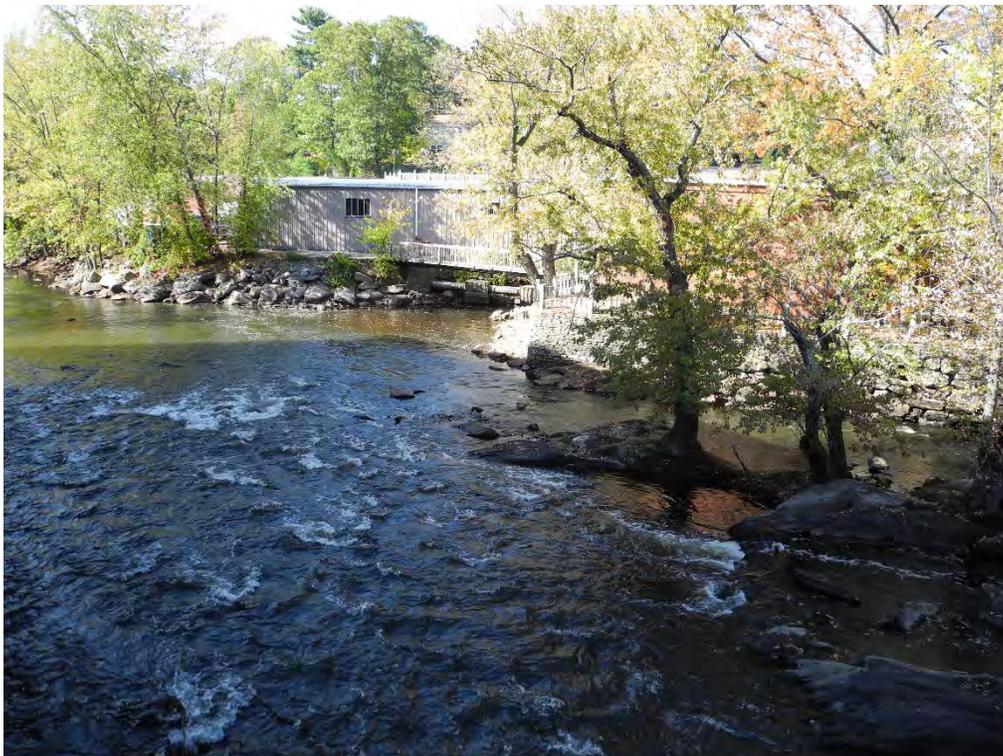
Looking upstream at outlet of sluiceway under Faulkner Mill showing sewer line (Reiner, 8/16/10)

Photo 43: Talbot Mills Dam – Downstream Channel



Looking downstream at channel below Faulkner Street toward Talbot Mill (GSE, 10/6/14)

Photo 44: Talbot Mills Dam – Downstream Channel



Looking downstream at channel below Faulkner Street toward Faulkner Mill and sluiceway outlet (GSE, 10/6/14)

Photo 45: Talbot Mills Dam – Former Intake Structures



Former intakes to Talbot Mill (GSE, 10/6/14)

Photo 46: Talbot Mills Dam – Former Intake Structures



Close-up of former intakes to Talbot Mill (GSE, 10/6/14)

Photo 47: Talbot Mills Dam – Mill Buildings



View of Talbot Mill from across impoundment; spillway on right (Geotechnical Consultants, 2015)

Photo 48: Talbot Mills Dam – Mill Buildings



View of Faulkner Mill from across impoundment (GSE, 10/6/14)

Photo 49: Talbot Mills Dam – Mill Buildings



Former Talbot cloth warehouse and future home of MCA Middlesex Canal Museum (GSE, 11/6/14)

Photo 50: Talbot Mills Dam – Middlesex Canal



Wetted Segment 24 of Old Middlesex Canal adjacent to former Talbot cloth warehouse (GSE, 11/6/14)

Photo 51: Talbot Mills Dam – Middlesex Canal



Wetted Segment 24 of Old Middlesex Canal on east side of impoundment, looking towards dam (PAL, 2015)

Photo 52: Talbot Mills Dam – Middlesex Canal



Historic floating towpath peninsula (GSE, 11/6/14)

Photo 53: Talbot Mills Dam – Middlesex Canal



Historic floating towpath anchor stone (adjacent to former Talbot cloth warehouse) (Reiner, 4/1/12)

Photo 54: Talbot Mills Dam – Middlesex Canal



Historic 1825 iron bolt benchmark (el. 108.81 ft NAVD 88) on east shoreline of impoundment (Reiner, 8/16/10)

Photo 55: Talbot Mills Dam – Impoundment



View of impoundment looking downstream showing invasive water chestnut (Reiner, 7/31/11)

Photo 56: Talbot Mills Dam – Impoundment



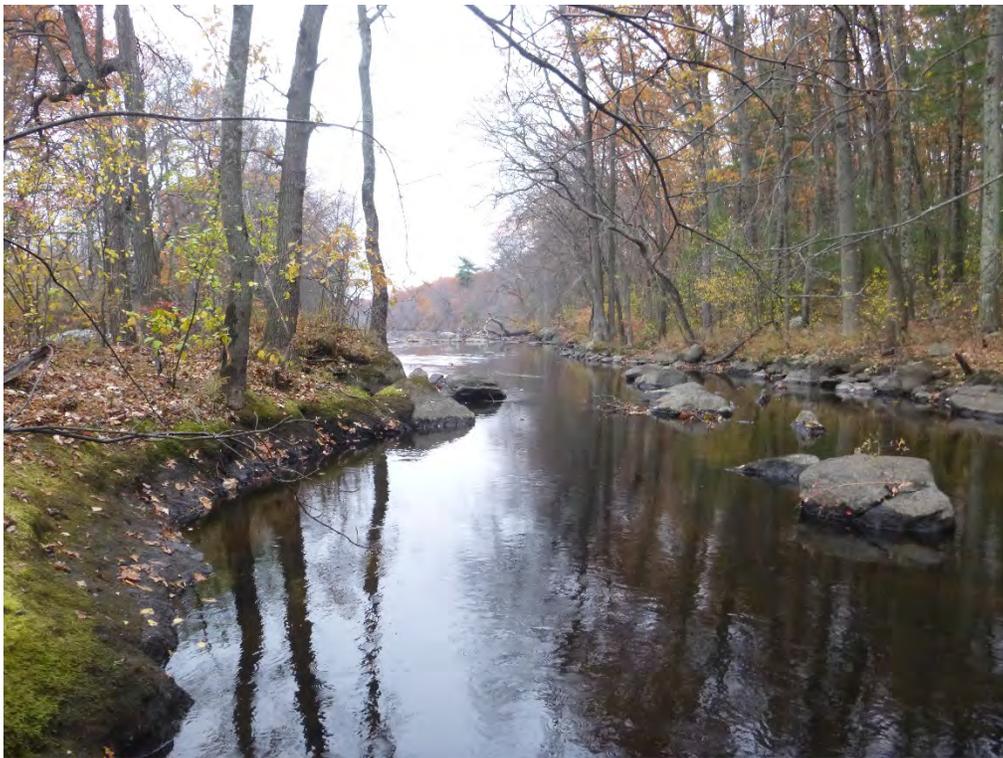
Close-up of invasive water chestnut in impoundment (Reiner, 7/31/11)

Photo 57: Talbot Mills Dam – Fordway Bar



Looking upstream at rocky outcroppings below Fordway Bar (Pollard Street bridge in background) (GSE, 11/6/14)

Photo 58: Talbot Mills Dam – Impoundment



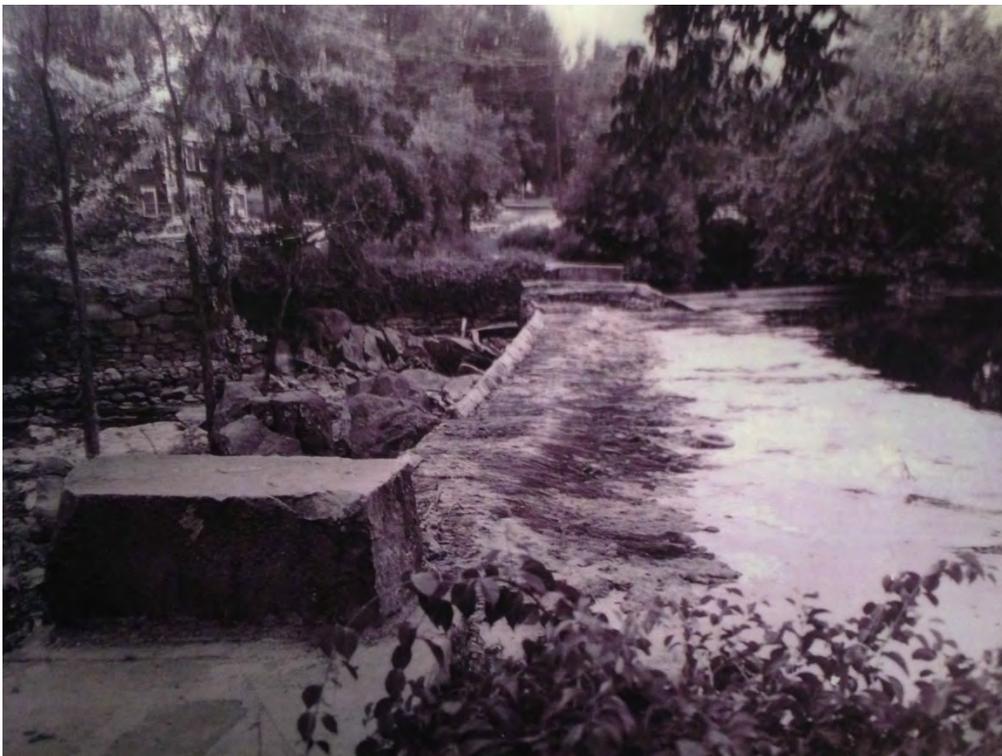
Looking upstream at rocky outcroppings below Fordway Bar (GSE, 11/6/14)

Photo 59: Talbot Mills Dam – Historical Photo



View from left abutment showing dewatered dam with flashboards (Middlesex Canal Museum, date unknown)

Photo 60: Talbot Mills Dam – Historical Photo



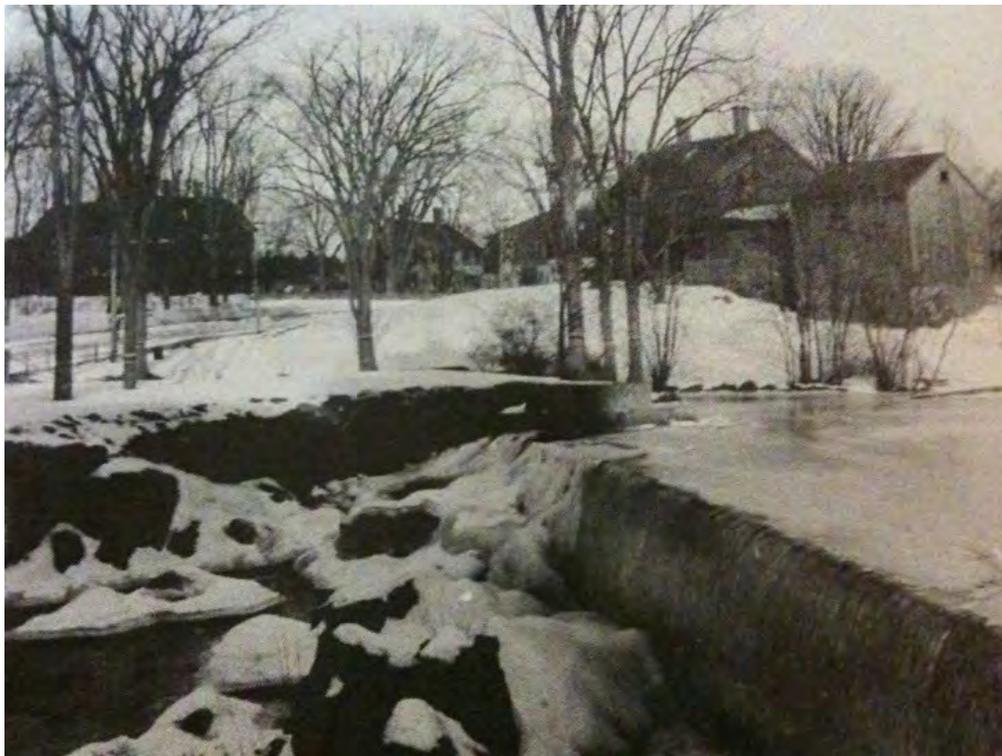
View from left abutment showing dewatered dam with flashboards (Middlesex Canal Museum; date unknown)

Photo 61: Talbot Mills Dam – Historical Photo



1907 historical postcard view from river right bank (Billerica Historical Society, 2003)

Photo 62: Talbot Mills Dam – Historical Photo



Circa 1900 historical postcard view from Faulkner Street bridge (Billerica Historical Society, 2003)