

Date: 5/9/2014

**Planning Level Opinion of Probable Cost**

**Alternative 2 - Dam Abandoned and Removed**

Project: Estabrook Park Dam Rehabilitation

Client: Milwaukee County

Location: Milwaukee, Wisconsin

Prepared b AECOM

AECOM Project No.: 60181463

Estimator: C. Dean

Checked by: J. Hiller

**Engineers Preliminary Estimate of Probable Costs (not including environmental sediment cleanup costs)**

Number	Description	Quantity	Rate	Units	Budget	Description
1	Mobilization/ Demob.	1		Estimate	\$37,000	
2	Silt Fence	1		Estimate	\$4,200	
3	Site Restoration	1		Estimate	\$15,750	
4	Diversion of water, two sides	1		Estimate	\$31,500	
5	Ice Breaker Removal/Disposal	24	1575	Ea	\$37,800	Dispose at gated dam area
6	Concrete Removal, gated side	1		Estimate	\$26,000	Cut down to El. 38' and drop in place
7	Gate and equipment removal	1		Estimate	\$10,500	Cost less salvage value
8	Concrete Removal, fixed side	1190		185 Cubic Yard	\$220,150	Dispose at gated dam area
9	Masonry Removal, fixed side	1		Estimate	\$42,000	Use as riprap and fill
10	Additional Fill at gated side	20,000		32 Cubic Yard	\$640,000	Use clean dredged sediment?
11	Soil, seed, grade at gated side	2800		63 Cubic Yard	\$176,400	Design as additional overflow spillway
				Subtotal		1,241,300
12	Engineering fees, 10% estimate				\$124,130	
13	20% Contingency (Design and Construction)				\$248,260	
14	Restoration part-time oversight	1		Estimate	\$60,000	
				<b>TOTAL</b>		<b>\$1,673,690 plus environmental costs with dredging</b>

**Notes**

This preliminary estimate needs to be refined before financial commitments are made.

The exact amount of fill on the north side of the island will depend on requirements of WDNR.

We assume we can fill north of the island more like an earthen overflow spillway section than

trying to fill completely to original finish grades before the gated section was excavated. - Verify

Our estimate of engineering fees covers tasks for development of plan and specifications. Fees for hydraulic modeling or

other studies, if required for restoration permitting, may increase this estimate.