



**US Army Corps
of Engineers** ®
Walla Walla District

YAKIMA RIVER DELTA ECOSYSTEM RESTORATION

**Draft Feasibility Report with
Integrated Environmental Assessment**

**Appendix C
Cost Estimate Report**

DRAFT

Yakima River Delta Ecosystem Restoration Draft Feasibility Report with Integrated Environmental Assessment
Appendix C, Cost Estimate Report

****** TOTAL PROJECT COST SUMMARY ******

Printed:12/28/2022
Page 1 of 2

PROJECT: **Yakima Delta**
 PROJECT NO: **XXXXXX**
 LOCATION: **Richland, WA**

DISTRICT: **NWW**

PREPARED: **12/28/2022**

POC: **CHIEF, COST ENGINEERING, XXX**

This Estimate reflects the scope and schedule in report; Yakima River Delta Ecosystem Restoration CAP Section 1135 Feasibility Report

Civil Works Work Breakdown Structure		ESTIMATED COST				PROJECT FIRST COST (Constant Dollar Basis)					TOTAL PROJECT COST (FULLY FUNDED)				
WBS NUMBER	Civil Works Feature & Sub-Feature Description	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	ESC (%)	COST (\$K)	CNTG (\$K)	REMAINING COST (\$K)	Program Year (Budget EC):	TOTAL FIRST COST (\$K)	ESC (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
										Effective Price Level Date:					
										2024					
										1-Oct-23					
										1-Oct-22					
09	CHANNELS & CANALS	\$6,677	\$2,158	32%	\$8,834	2.9%	\$6,867	\$2,219	\$9,087		\$9,087	2.6%	\$7,046	\$2,277	\$9,323
06	FISH & WILDLIFE FACILITIES		-			-						-			
	CONSTRUCTION ESTIMATE TOTALS:	\$6,677	\$2,158		\$8,834	2.9%	\$6,867	\$2,219	\$9,087		\$9,087	2.6%	\$7,046	\$2,277	\$9,323
01	LANDS AND DAMAGES	\$78	\$20	25%	\$98	2.9%	\$80	\$20	\$101		\$101		\$80	\$20	\$101
30	PLANNING, ENGINEERING & DESIGN	\$2,037	\$557	27%	\$2,594	2.8%	\$2,095	\$572	\$2,667		\$2,667	0.3%	\$2,101	\$574	\$2,675
31	CONSTRUCTION MANAGEMENT	\$969	\$265	27%	\$1,234	2.8%	\$996	\$272	\$1,269		\$1,269	2.2%	\$1,018	\$278	\$1,297
	PROJECT COST TOTALS:	\$9,761	\$2,998	31%	\$12,759		\$10,039	\$3,084	\$13,123		\$13,123	2.1%	\$10,245	\$3,149	\$13,395

CHIEF, COST ENGINEERING, XXX

PROJECT MANAGER, XXX

CHIEF, REAL ESTATE, XXX

CHIEF, PLANNING, XXX

CHIEF, ENGINEERING, XXX

CHIEF, OPERATIONS, XXX

CHIEF, CONSTRUCTION, XXX

CHIEF, CONTRACTING, XXX

CHIEF, PM-PB, xxxx

CHIEF, DPM, XXX

ESTIMATED TOTAL PROJECT COST: \$13,395
 ESTIMATED FEDERAL COST: **75%** \$10,046
 ESTIMATED NON-FEDERAL COST: **25%** \$3,349

22 - FEASIBILITY STUDY (CAP studies): \$2
 ESTIMATED FEDERAL COST: 50% \$1
 ESTIMATED NON-FEDERAL COST: 50% \$1

ESTIMATED FEDERAL COST OF PROJECT \$10,047

****** CONTRACT COST SUMMARY ******

Yakima River Delta Ecosystem Restoration Draft Feasibility Report with Integrated Environmental Assessment

Appendix C, Cost Estimate Report

**** TOTAL PROJECT COST SUMMARY ****

Printed:12/28/2022

Page 2 of 2

LOCATION: Richland, WA

POC: CHIEF, COST ENGINEERING, XXX

This Estimate reflects the scope and schedule in report;

Yakima River Delta Ecosystem Restoration CAP Section 1135 Feasibility Report

WBS Structure		ESTIMATED COST				PROJECT FIRST COST (Constant Dollar Basis)				TOTAL PROJECT COST (FULLY FUNDED)				
		Estimate Prepared: 6-May-16 Estimate Price Level: 1-Oct-22				Program Year (Budget EC): 2024 Effective Price Level Date: 1-Oct-23								
		RISK BASED												
WBS NUMBER	Civil Works Feature & Sub-Feature Description	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	ESC (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	Mid-Point Date	ESC (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
A	B	C	D	E	F	G	H	I	J	P	L	M	N	O
Alt 3a - Full Causeway Removal														
09	CHANNELS & CANALS	\$6,677	\$2,158	32.3%	\$8,834	2.9%	\$6,867	\$2,219	\$9,087	2025Q1	2.6%	\$7,046	\$2,277	\$9,323
06	FISH & WILDLIFE FACILITIES			32.3%										
CONSTRUCTION ESTIMATE TOTALS:		\$6,677	\$2,158	32.3%	\$8,834		\$6,867	\$2,219	\$9,087			\$7,046	\$2,277	\$9,323
01	LANDS AND DAMAGES	\$78	\$20	25.0%	\$98	2.9%	\$80	\$20	\$101	2024Q1		\$80	\$20	\$101
30	PLANNING, ENGINEERING & DESIGN													
2.5%	Project Management	\$167	\$46	27.3%	\$213	2.8%	\$172	\$47	\$219	2024Q1		\$172	\$47	\$219
1.0%	Planning & Environmental Compliance	\$67	\$18	27.3%	\$85	2.8%	\$69	\$19	\$88	2024Q1		\$69	\$19	\$88
15.0%	Engineering & Design	\$1,001	\$273	27.3%	\$1,274	2.8%	\$1,029	\$281	\$1,311	2024Q1		\$1,029	\$281	\$1,311
1.0%	Reviews, ATRs, IEPRs, VE	\$67	\$18	27.3%	\$85	2.8%	\$69	\$19	\$88	2024Q1		\$69	\$19	\$88
1.0%	Life Cycle Updates (cost, schedule, risks)	\$67	\$18	27.3%	\$85	2.8%	\$69	\$19	\$88	2024Q1		\$69	\$19	\$88
1.0%	Contracting & Reprographics	\$67	\$18	27.3%	\$85	2.8%	\$69	\$19	\$88	2025Q1	2.2%	\$70	\$19	\$90
3.0%	Engineering During Construction	\$200	\$55	27.3%	\$255	2.8%	\$206	\$56	\$262	2025Q1	2.2%	\$210	\$57	\$268
2.0%	Planning During Construction	\$134	\$37	27.3%	\$171	2.8%	\$138	\$38	\$175	2024Q1		\$138	\$38	\$175
3.0%	Adaptive Management & Monitoring	\$200	\$55	27.3%	\$255	2.8%	\$206	\$56	\$262	2024Q1		\$206	\$56	\$262
1.0%	Project Operations	\$67	\$18	27.3%	\$85	2.8%	\$69	\$19	\$88	2024Q1		\$69	\$19	\$88
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$668	\$182	27.3%	\$850	2.8%	\$687	\$188	\$875	2025Q1	2.2%	\$702	\$192	\$894
2.0%	Project Operation:	\$134	\$37	27.3%	\$171	2.8%	\$138	\$38	\$175	2025Q1	2.2%	\$141	\$38	\$179
2.5%	Project Management	\$167	\$46	27.3%	\$213	2.8%	\$172	\$47	\$219	2025Q1	2.2%	\$175	\$48	\$223
CONTRACT COST TOTALS:		\$9,761	\$2,998		\$12,759		\$10,039	\$3,084	\$13,123			\$10,245	\$3,149	\$13,395