

Appendix G – Cost Engineering

1 BASIS OF ESTIMATE

The feasibility study cost was a federal cost for the initial \$100,000; the amount after the initial \$100,000 was cost shared at 50%. The General Navigation Feature (GNF) costs are 90% federal and 10% non-federal and the Local Service Facility (LSF) costs are 100% non-federal, per CAP 107 cost share guidance for GNF dredging depth of <20 ft. GNF costs include the costs for dredge disposal areas and environmental mitigation.

1.1 SOUTH OXBOW ALTERNATIVES

Cost estimates for the south oxbow alternatives were developed using equipment and labor rates from a recent nearby dredging IDIQ contract. After research and much discussion, hydraulic dredging was assumed to be the most cost-effective methodology in the south oxbow. Riprap and bedding material quote were received from Columbia Quarry in Waterloo, IL. Dredge disposal areas identified in the main report would require sitework necessary to build up the berm to receive the slurry material. Costs include Mobilization/Demobilization from dredging IDIQ contract, hydraulic dredging, fleeting area revetment, mooring structures, and dredge disposal area site prep, 32% Contingency based on Abbreviated Risk Analysis (ARA), Planning Engineering and Design (18% of overall construction costs including contingency), Construction Management (10% of overall construction costs including contingency), environmental mitigation, and Real Estate. LSF costs are related to fleeting areas including mooring structures. Per ER 1110-2-1302, LSFs are Associated Costs which are excluded from the Total Project First Cost. The breakdown of the costs can be seen in **Table G-1, Table G-2, and Table G-3.**

Table G-1. South Oxbow Alternative 1a & 1b – Maximum – Two Way and One Way Traffic (FY24 Price Level)

Alternative		1a		1b	
		Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost
Total Project First Cost (GNF)	Construction w/ Contingency	\$6,913,000	\$1,022,000	\$6,362,000	\$961,000
	PED	\$1,244,000	\$184,000	\$1,145,000	\$173,000
	S&A	\$691,000	\$102,000	\$636,000	\$96,000
	Environmental Mitigation:	\$463,000	\$51,000	\$463,000	\$51,000
	Real Estate Costs:	\$0	\$225,000	\$0	\$225,000
	Total Project First Cost	\$9,311,000	\$1,584,000	\$8,606,000	\$1,506,000
		\$10,895,000		\$10,112,000	
Associated Costs (LSF)	Construction w/ Contingency		\$1,806,000		\$2,220,000
	PED		\$325,000		\$400,000
	S&A		\$180,000		\$222,000
	Environmental Mitigation:		\$21,000		\$36,000
	Real Estate Costs:		\$14,000		\$22,000
	Associated Cost Total		\$2,346,000		\$2,900,000
Project First Cost with Associated Costs:		\$13,241,000		\$13,012,000	
Feasibility Study Costs:		\$520,000	\$420,000	\$520,000	\$420,000
Total Fed/Non-Fed Costs:		\$9,831,000	\$4,350,000	\$9,126,000	\$4,826,000
Estimated Duration (Months)		16		16	

Table G-2. South Oxbow Alternative 2a & 2b – Turning Basin – Two Way and One Way Traffic (FY24 Price Level)

Alternative		2a		2b	
		Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost
Total Project First Cost (GNF)	Construction w/ Contingency	\$7,399,000	\$822,000	\$6,848,000	\$760,000
	PED	\$1,332,000	\$148,000	\$1,233,000	\$137,000
	S&A	\$740,000	\$82,000	\$685,000	\$76,000
	Environmental Mitigation:	\$463,000	\$51,000	\$463,000	\$51,000
	Real Estate Costs:	\$0	\$225,000	\$0	\$225,000
	Total Project First Cost	\$9,934,000	\$1,328,000	\$9,229,000	\$1,249,000
		\$11,262,000		\$10,478,000	
Associated Costs (LSF)	Construction w/ Contingency				
	PED				
	S&A				
	Environmental Mitigation:				
	Real Estate Costs:				
	Associated Cost Total				
Project First Cost with Associated Costs:		\$11,262,000		\$10,478,000	
Feasibility Study Costs:		\$520,000	\$420,000	\$520,000	\$420,000
Total Fed/Non-Fed Costs:		\$10,454,000	\$1,748,000	\$9,749,000	\$1,669,000
Estimated Duration (Months)		13		12	

Table G-3. South Oxbow Alternative 3a & 3b – Minimum – Two Way and One Way Traffic (FY24 Price Level)

Alternative		3a		3b	
		Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost
Total Project First Cost (GNF)	Construction w/ Contingency	\$2,665,000	\$296,000	\$2,115,000	\$235,000
	PED	\$480,000	\$53,000	\$381,000	\$42,000
	S&A	\$267,000	\$30,000	\$212,000	\$24,000
	Environmental Mitigation:	\$463,000	\$51,000	\$463,000	\$51,000
	Real Estate Costs:	\$0	\$85,000	\$0	\$85,000
	Total Project First Cost	\$3,875,000	\$515,000	\$3,171,000	\$437,000
		\$4,390,000		\$3,608,000	
Associated Costs (LSF)	Construction w/ Contingency				
	PED				
	S&A				
	Environmental Mitigation:				
	Real Estate Costs:				
Associated Cost Total					
Project First Cost with Associated Costs:		\$4,390,000		\$3,608,000	
Feasibility Study Costs:		\$520,000	\$420,000	\$520,000	\$420,000
Total Fed/Non-Fed Costs:		\$4,395,000	\$935,000	\$3,691,000	\$857,000
Estimated Duration (Months)		4		3	

1.2 NORTH OXBOW ALTERNATIVES

Cost estimates for the north oxbow alternatives were developed using equipment and labor rates from a recent nearby dredging IDIQ contract. Because the north oxbow has never been dredged before, it was anticipated that hydraulic dredging would not be capable of removing the material, so mechanical dredging was assumed to be the most cost-effective method. Riprap and bedding material quote were received from Columbia Quarry in Waterloo, IL. Dredge disposal areas identified in the main report would require sitework necessary to build up the berm to receive the dredged material. Costs include Mobilization/Demobilization from dredging IDIQ contract, mechanical dredging, fleeting area revetment, mooring structures, and dredge disposal area site prep, 36% Contingency based on Abbreviated Risk Analysis (ARA), Planning Engineering and Design (18% of overall construction costs including contingency), Construction Management (10% of overall construction costs including contingency), environmental mitigation, and Real Estate. The GNF costs are 90% federal and 10% non-federal and the LSF costs are 100% non-federal. LSF costs are related to fleeting areas including mooring structures, and a new dock at the north oxbow. Per ER 1110-2-1302, LSFs are Associated Costs which are excluded from the Total Project First Cost. The breakdown of the

costs can be seen in **Table G-4**,

Alternative		4a		4b	
		Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost
Total Project First Cost (GNF)	Construction w/ Contingency	\$12,890,000	\$1,434,000	\$11,125,000	\$1,236,000
	PED	\$2,320,000	\$258,000	\$2,003,000	\$222,000
	S&A	\$1,289,000	\$143,000	\$1,113,000	\$124,000
	Environmental Mitigation:	\$656,000	\$73,000	\$656,000	\$73,000
	Real Estate Costs:	\$0	\$161,000	\$0	\$161,000
	Total	\$17,155,000	\$2,069,000	\$14,897,000	\$1,816,000
		\$19,224,000		\$16,713,000	
Associated Costs (LSF)	Construction w/ Contingency		\$14,663,000		\$14,820,000
	PED		\$2,639,000		\$2,668,000
	S&A		\$1,466,000		\$1,482,000
	Environmental Mitigation:		\$79,000		\$101,000
	Real Estate Costs:		\$25,000		\$32,000
	Associated Cost Total		\$18,872,000		\$19,103,000
Project First Cost with Associated Costs:		\$38,096,000		\$35,816,000	
Feasibility Study Costs:		\$520,000	\$420,000	\$520,000	\$420,000
Total Fed/Non-Fed Costs:		\$17,675,000	\$21,361,000	\$15,417,000	\$21,339,000
Estimated Duration (Months)		29		27	

Table G-5, Table G-6, and Table G-7.

Table G-4. North Oxbow Alternative 4a & 4b – Maximum – Two Way and One Way Traffic (FY24 Price Level)

Alternative		4a		4b	
		Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost
Total Project First Cost (GNF)	Construction w/ Contingency	\$12,890,000	\$1,434,000	\$11,125,000	\$1,236,000
	PED	\$2,320,000	\$258,000	\$2,003,000	\$222,000
	S&A	\$1,289,000	\$143,000	\$1,113,000	\$124,000
	Environmental Mitigation:	\$656,000	\$73,000	\$656,000	\$73,000
	Real Estate Costs:	\$0	\$161,000	\$0	\$161,000
	Total	\$17,155,000	\$2,069,000	\$14,897,000	\$1,816,000
		\$19,224,000		\$16,713,000	
Associated Costs (LSF)	Construction w/ Contingency		\$14,663,000		\$14,820,000
	PED		\$2,639,000		\$2,668,000
	S&A		\$1,466,000		\$1,482,000
	Environmental Mitigation:		\$79,000		\$101,000
	Real Estate Costs:		\$25,000		\$32,000
	Associated Cost Total		\$18,872,000		\$19,103,000
Project First Cost with Associated Costs:		\$38,096,000		\$35,816,000	
Feasibility Study Costs:		\$520,000	\$420,000	\$520,000	\$420,000
Total Fed/Non-Fed Costs:		\$17,675,000	\$21,361,000	\$15,417,000	\$21,339,000
Estimated Duration (Months)		29		27	

Table G-5. North Oxbow Alternative 5a & 5b – Fleeting Two Way and One Way Traffic (FY24 Price Level)

Alternative		5a		5b	
		Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost
Total Project First Cost (GNF)	Construction w/ Contingency	\$11,952,000	\$1,328,000	\$9,991,000	\$1,111,000
	PED	\$2,151,000	\$239,000	\$1,798,000	\$200,000
	S&A	\$1,195,000	\$133,000	\$999,000	\$111,000
	Environmental Mitigation:	\$579,000	\$64,000	\$579,000	\$64,000
	Real Estate Costs:	\$0	\$154,000	\$0	\$154,000
	Total	\$15,877,000	\$1,918,000	\$13,367,000	\$1,640,000
		\$17,795,000		\$15,007,000	
Associated Costs (LSF)	Construction w/ Contingency		\$14,663,000		\$14,820,000
	PED		\$2,639,000		\$2,668,000
	S&A		\$1,466,000		\$1,482,000
	Environmental Mitigation:		\$79,000		\$101,000
	Real Estate Costs:		\$25,000		\$32,000
	Associated Cost Total		\$18,872,000		\$19,103,000
Project First Cost with Associated Costs:		\$36,667,000		\$34,110,000	
Feasibility Study Costs:		\$520,000	\$420,000	\$520,000	\$420,000
Total Fed/Non-Fed Costs:		\$16,397,000	\$21,210,000	\$13,887,000	\$21,163,000
Estimated Duration (Months)		28		26	

Table G-6. North Oxbow Alternative 6a & 6b – Mouth Widening Two Way and One Way Traffic (FY24 Price Level)

Alternative		6a		6b	
		Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost
Total Project First Cost (GNF)	Construction w/ Contingency	\$12,206,000	\$1,356,000	\$10,529,000	\$1,170,000
	PED	\$2,197,000	\$244,000	\$1,895,000	\$211,000
	S&A	\$1,221,000	\$136,000	\$1,053,000	\$117,000
	Environmental Mitigation:	\$656,000	\$73,000	\$656,000	\$73,000
	Real Estate Costs:	\$0	\$161,000	\$0	\$161,000
	Total	\$16,280,000	\$1,970,000	\$14,133,000	\$1,732,000
		\$18,250,000		\$15,865,000	
Associated Costs (LSF)	Construction w/ Contingency		\$14,280,000		\$14,280,000
	PED		\$2,570,000		\$2,570,000
	S&A		\$1,428,000		\$1,428,000
	Environmental Mitigation:		\$29,000		\$29,000
	Real Estate Costs:		\$12,000		\$12,000
	Associated Cost Total		\$18,319,000		\$18,319,000
Project First Cost with Associated Costs:		\$36,569,000		\$34,184,000	
Feasibility Study Costs:		\$520,000	\$420,000	\$520,000	\$420,000
Total Fed/Non-Fed Costs:		\$16,800,000	\$20,709,000	\$14,653,000	\$20,471,000
Estimated Duration (Months)		27		25	

Table G-7. North Oxbow Alternative 7a & 7b – Minimum Two Way and One Way Traffic (FY24 Price Level)

Alternative		7a		7b	
		Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost
Total Project First Cost (GNF)	Construction w/ Contingency	\$11,269,000	\$1,253,000	\$7,685,000	\$854,000
	PED	\$2,028,000	\$226,000	\$1,383,000	\$154,000
	S&A	\$1,127,000	\$125,000	\$769,000	\$85,000
	Environmental Mitigation:	\$579,000	\$64,000	\$579,000	\$64,000
	Real Estate Costs:	\$0	\$154,000	\$0	\$154,000
	Total	\$15,003,000	\$1,822,000	\$10,416,000	\$1,311,000
		\$16,825,000		\$11,727,000	
Associated Costs (LSF)	Construction w/ Contingency		\$14,280,000		\$14,280,000
	PED		\$2,570,000		\$2,570,000
	S&A		\$1,428,000		\$1,428,000
	Environmental Mitigation:		\$29,000		\$29,000
	Real Estate Costs:		\$12,000		\$12,000
	Associated Cost Total		\$18,319,000		\$18,319,000
Project First Cost with Associated Costs:		\$35,144,000		\$30,046,000	
Feasibility Study Costs:		\$520,000	\$420,000	\$520,000	\$420,000
Total Fed/Non-Fed Costs:		\$15,523,000	\$20,561,000	\$10,936,000	\$20,050,000
Estimated Duration (Months)		26		19	

The following pages show a more detailed cost breakdown of each alternative.

Kaskaskia River Regional Port Feasibility Study with Integrated Environmental Document
Draft Report

Alternative		1a		1b		2a		2b		3a		3b	
Total Project First Cost (GNF)		Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost
		\$6,913,000	\$1,022,000	\$6,362,000	\$961,000	\$7,399,000	\$822,000	\$6,848,000	\$760,000	\$2,665,000	\$296,000	\$2,115,000	\$235,000
	Construction w/ Contingency	\$1,244,000	\$184,000	\$1,145,000	\$173,000	\$1,332,000	\$148,000	\$1,233,000	\$137,000	\$480,000	\$53,000	\$381,000	\$42,000
	PED	\$691,000	\$102,000	\$636,000	\$96,000	\$740,000	\$82,000	\$685,000	\$76,000	\$267,000	\$30,000	\$212,000	\$24,000
	S&A	\$463,000	\$51,000	\$463,000	\$51,000	\$463,000	\$51,000	\$463,000	\$51,000	\$463,000	\$51,000	\$463,000	\$51,000
	Environmental Mitigation:	\$0	\$225,000	\$0	\$225,000	\$0	\$225,000	\$0	\$225,000	\$0	\$85,000	\$0	\$85,000
	Real Estate Costs:	\$9,311,000	\$1,584,000	\$8,606,000	\$1,506,000	\$9,934,000	\$1,328,000	\$9,229,000	\$1,249,000	\$3,875,000	\$515,000	\$3,171,000	\$437,000
	Total Project First Cost	\$10,895,000		\$10,112,000		\$11,262,000		\$10,478,000		\$4,390,000		\$3,608,000	
Associated Costs (LSF)			\$1,806,000		\$2,220,000								
			\$325,000		\$400,000								
	Construction w/ Contingency		\$180,000		\$222,000								
	PED		\$21,000		\$36,000								
	S&A		\$14,000		\$22,000								
	Environmental Mitigation:												
	Real Estate Costs:		\$2,346,000		\$2,900,000								
	Associated Cost Total	\$13,241,000		\$13,012,000		\$11,262,000		\$10,478,000		\$4,390,000		\$3,608,000	
	Economic Cost:	\$520,000	\$420,000	\$520,000	\$420,000	\$520,000	\$420,000	\$520,000	\$420,000	\$520,000	\$420,000	\$520,000	\$420,000
	Feasibility Study Costs:	\$9,831,000	\$4,350,000	\$9,126,000	\$4,826,000	\$10,454,000	\$1,748,000	\$9,749,000	\$1,669,000	\$4,395,000	\$935,000	\$3,691,000	\$857,000
	Total Fed/Non Fed Costs:	16		16		13		12		4		3	
	Estimated Duration (Months)												

Kaskaskia River Regional Port Feasibility Study with Integrated Environmental Document Draft Report

Kaskaskia Port CAP 107

Alternative 1a - Maximum (two-way traffic)

5/31/2022

1/4/2024

**Assume 12' Depth for Dredging

**Assume Hydraulic Dredging with Disposal at DD-2 & 4

ITEM	ESTIMATED AMOUNT		
	Federal cost	Non-Federal cost	Total
Mobilization and Demobilization	\$172,980	\$211,420	\$384,400
Dredging			
Channel, Turning Basin	\$2,787,885	\$309,765	\$3,097,650
Fleeting Area 1		\$1,071,150	\$1,071,150
Fleeting Area Revetment			
R-90 Stone		\$101,898	\$101,898
Bedding Stone		\$24,390	\$24,390
Excavation for Toe		\$9,625	\$9,625
Excavation for Key-In		\$9,025	\$9,025
Mooring Structures (FL-1)			
Excavation		\$1,784	\$1,784
Metal Pipe		\$47,923	\$47,923
Mooring		\$20,592	\$20,592
Concrete		\$81,900	\$81,900
Site Prep (DD-2a)			
Earthwork	\$480,600	\$53,400	\$534,000
Clear and Grub	\$307,800	\$34,200	\$342,000
Geotextile	\$148,725	\$16,525	\$165,250
Seeding	\$81,000	\$9,000	\$90,000
Site Prep (DD-4)			
Earthwork	\$1,020,015	\$113,335	\$1,133,350
Clear and Grub	\$188,100	\$20,900	\$209,000
Seeding	\$49,500	\$5,500	\$55,000
SUBTOTAL:	\$5,237,000	\$2,142,000	\$7,379,000
Contingency:	\$1,676,000	\$685,000	\$2,361,000 32%
Construction Subtotal:	\$6,913,000	\$2,827,000	\$9,740,000
E & D :	\$1,244,000	\$509,000	\$1,753,000 18%
S & A :	\$691,000	\$283,000	\$974,000 10%
Environmental Mitigation:	\$463,000	\$72,000	\$535,000
Real Estate Cost:	\$0	\$239,000	\$239,000
	\$9,311,000	\$3,930,000	
TOTAL COST:	\$13,241,000		

GNF costs are 90% federal and 10% non-federal and LSF costs are 100% non-federal.

Kaskaskia Port CAP 107

Alternative 1b - Maximum (one-way traffic)

5/31/2022

1/4/2024

**Assume 12' Depth for Dredging

**Assume Hydraulic Dredging with Disposal at DD-2 & 4

ITEM	ESTIMATED AMOUNT		
	Federal cost	Non-Federal cost	Total
Mobilization and Demobilization	\$172,980	\$211,420	\$384,400
Dredging			
Channel, Turning Basin	\$2,371,005	\$263,445	\$2,634,450
Fleeting Area 1 & 2		\$1,244,850	\$1,244,850
Fleeting Area Revetment			
R-90 Stone		\$165,240	\$165,240
Bedding Stone		\$39,353	\$39,353
Excavation for Toe		\$15,550	\$15,550
Excavation for Key-In		\$14,575	\$14,575
Mooring Structures (FL-1 & FL-2)			
Excavation		\$2,378	\$2,378
Metal Pipe		\$63,898	\$63,898
Mooring		\$27,456	\$27,456
Concrete		\$109,200	\$109,200
Site Prep (DD-2a)			
Earthwork	\$480,600	\$53,400	\$534,000
Clear and Grub	\$307,800	\$34,200	\$342,000
Geotextile	\$148,725	\$16,525	\$165,250
Seeding	\$81,000	\$9,000	\$90,000
Site Prep (DD-4)			
Earthwork	\$1,020,015	\$113,335	\$1,133,350
Clear and Grub	\$188,100	\$20,900	\$209,000
Seeding	\$49,500	\$5,500	\$55,000
SUBTOTAL:	\$4,820,000	\$2,410,000	\$7,230,000
Contingency:	\$1,542,000	\$771,000	\$2,313,000 32%
Construction Subtotal:	\$6,362,000	\$3,181,000	\$9,543,000
E & D :	\$1,145,000	\$573,000	\$1,718,000 18%
S & A :	\$636,000	\$318,000	\$954,000 10%
Environmental Mitigation:	\$463,000	\$87,000	\$550,000
Real Estate Cost:	\$0	\$247,000	\$247,000
	\$8,606,000	\$4,406,000	
TOTAL COST:	\$13,012,000		

GNF costs are 90% federal and 10% non-federal and LSF costs are 100% non-federal.

Kaskaskia River Regional Port Feasibility Study with Integrated Environmental Document
Draft Report

Kaskaskia Port CAP 107

Alternative 2a - Intermediate (two-way traffic)

5/31/2022

1/4/2024

**Assume 12' Depth for Dredging

**Assume Hydraulic Dredging with Disposal at DD-2 & 4

ITEM	ESTIMATED AMOUNT		
	Federal cost	Non-Federal cost	Total
Mobilization and Demobilization	\$172,980	\$19,220	\$192,200
Dredging	\$2,787,885	\$309,765	\$3,097,650
Site Prep (DD-2a)			
Earthwork	\$480,600	\$53,400	\$534,000
Clear and Grub	\$307,800	\$34,200	\$342,000
Geotextile	\$148,725	\$16,525	\$165,250
Seeding	\$81,000	\$9,000	\$90,000
Site Prep (DD-4)			
Earthwork	\$1,020,015	\$113,335	\$1,133,350
Clear and Grub	\$188,100	\$20,900	\$209,000
Seeding	\$49,500	\$5,500	\$55,000
SUBTOTAL:	\$5,605,000	\$623,000	\$6,228,000
Contingency:	\$1,794,000	\$199,000	\$1,993,000 32%
Construction Subtotal:	\$7,399,000	\$822,000	\$8,221,000
E & D :	\$1,332,000	\$148,000	\$1,480,000 18%
S & A :	\$740,000	\$82,000	\$822,000 10%
Environmental Mitigation:	\$463,000	\$51,000	\$514,000
Real Estate Cost:	\$0	\$225,000	\$225,000
	\$9,934,000	\$1,328,000	
TOTAL COST:	\$11,262,000		

GNF costs are 90% federal and 10% non-federal and LSF costs are 100% non-federal.

Kaskaskia Port CAP 107

Alternative 2b - Intermediate (one-way traffic)

5/31/2022

1/4/2024

**Assume 12' Depth for Dredging

**Assume Hydraulic Dredging with Disposal at DD-2 & 4

ITEM	ESTIMATED AMOUNT		
	Federal cost	Non-Federal cost	Total
Mobilization and Demobilization	\$172,980	\$19,220	\$192,200
Dredging	\$2,371,005	\$263,445	\$2,634,450
Site Prep (DD-2a)			
Earthwork	\$480,600	\$53,400	\$534,000
Clear and Grub	\$307,800	\$34,200	\$342,000
Geotextile	\$148,725	\$16,525	\$165,250
Seeding	\$81,000	\$9,000	\$90,000
Site Prep (DD-4)			
Earthwork	\$1,020,015	\$113,335	\$1,133,350
Clear and Grub	\$188,100	\$20,900	\$209,000
Seeding	\$49,500	\$5,500	\$55,000
SUBTOTAL:	\$5,188,000	\$576,000	\$5,764,000
Contingency:	\$1,660,000	\$184,000	\$1,844,000 32%
Construction Subtotal:	\$6,848,000	\$760,000	\$7,608,000
E & D :	\$1,233,000	\$137,000	\$1,370,000 18%
S & A :	\$685,000	\$76,000	\$761,000 10%
Environmental Mitigation:	\$463,000	\$51,000	\$514,000
Real Estate Cost:	\$0	\$225,000	\$225,000
	\$9,229,000	\$1,249,000	
TOTAL COST:	\$10,478,000		

GNF costs are 90% federal and 10% non-federal and LSF costs are 100% non-federal.

Kaskaskia Port CAP 107

Alternative 3a - Minimum (two-way traffic)

5/31/2022

1/4/2024

**Assume 12' Depth for Dredging

**Assume Hydraulic Dredging with Disposal at DD-2

ITEM	ESTIMATED AMOUNT		
	Federal cost	Non-Federal cost	Total
Mobilization and Demobilization	\$172,980	\$19,220	\$192,200
Dredging	\$1,172,475	\$130,275	\$1,302,750
Site Prep (DD-2b)			\$0
Earthwork	\$157,725	\$17,525	\$175,250
Clear and Grub	\$307,800	\$34,200	\$342,000
Geotextile	\$127,035	\$14,115	\$141,150
Seeding	\$81,000	\$9,000	\$90,000
SUBTOTAL:	\$2,019,000	\$224,000	\$2,243,000
Contingency:	\$646,000	\$72,000	\$718,000 32%
Construction Subtotal:	\$2,665,000	\$296,000	\$2,961,000
E & D :	\$480,000	\$53,000	\$533,000 18%
S & A :	\$267,000	\$30,000	\$297,000 10%
Environmental Mitigation:	\$463,000	\$51,000	\$514,000
Real Estate Cost:	\$0	\$85,000	\$85,000
	\$3,875,000	\$515,000	
TOTAL COST:	\$4,390,000		

GNF costs are 90% federal and 10% non-federal and LSF costs are 100% non-federal.

Kaskaskia Port CAP 107

Alternative 3b - Minimum (one-way traffic)

5/31/2022

1/4/2024

**Assume 12' Depth for Dredging

**Assume Hydraulic Dredging with Disposal at DD-2

ITEM	ESTIMATED AMOUNT		
	Federal cost	Non-Federal cost	Total
Mobilization and Demobilization	\$172,980	\$19,220	\$192,200
Dredging	\$755,595	\$83,955	\$839,550
Site Prep (DD-2b)			\$0
Earthwork	\$157,725	\$17,525	\$175,250
Clear and Grub	\$307,800	\$34,200	\$342,000
Geotextile	\$127,035	\$14,115	\$141,150
Seeding	\$81,000	\$9,000	\$90,000
SUBTOTAL:	\$1,602,000	\$178,000	\$1,780,000
Contingency:	\$513,000	\$57,000	\$570,000 32%
Construction Subtotal:	\$2,115,000	\$235,000	\$2,350,000
E & D :	\$381,000	\$42,000	\$423,000 18%
S & A :	\$212,000	\$24,000	\$236,000 10%
Environmental Mitigation:	\$463,000	\$51,000	\$514,000
Real Estate Cost:	\$0	\$85,000	\$85,000
	\$3,171,000	\$437,000	
TOTAL COST:	\$3,608,000		

GNF costs are 90% federal and 10% non-federal and LSF costs are 100% non-federal.

Kaskaskia River Regional Port Feasibility Study with Integrated Environmental Document Draft Report

Alternative		4a		4b		5a		5b		6a		6b		7a		7b	
		Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost	Federal Cost	Non-Federal Cost
Total Project First Cost (GNF)	Construction w/ Contingency	\$12,890,000	\$1,434,000	\$11,125,000	\$1,236,000	\$11,952,000	\$1,328,000	\$9,991,000	\$1,111,000	\$12,206,000	\$1,356,000	\$10,529,000	\$1,170,000	\$11,269,000	\$1,253,000	\$7,685,000	\$854,000
	PED	\$2,320,000	\$258,000	\$2,003,000	\$222,000	\$2,151,000	\$239,000	\$1,798,000	\$200,000	\$2,197,000	\$244,000	\$1,895,000	\$211,000	\$2,028,000	\$226,000	\$1,383,000	\$154,000
	S&A	\$1,289,000	\$143,000	\$1,113,000	\$124,000	\$1,195,000	\$133,000	\$999,000	\$111,000	\$1,221,000	\$136,000	\$1,053,000	\$117,000	\$1,127,000	\$125,000	\$769,000	\$85,000
	Environmental Mitigation:	\$656,000	\$73,000	\$656,000	\$73,000	\$579,000	\$64,000	\$579,000	\$64,000	\$656,000	\$73,000	\$656,000	\$73,000	\$579,000	\$64,000	\$579,000	\$64,000
	Real Estate Costs:	\$0	\$161,000	\$0	\$161,000	\$0	\$154,000	\$0	\$154,000	\$0	\$161,000	\$0	\$161,000	\$0	\$154,000	\$0	\$154,000
	Total	\$17,155,000	\$2,069,000	\$14,897,000	\$1,816,000	\$15,877,000	\$1,918,000	\$13,367,000	\$1,640,000	\$16,280,000	\$1,970,000	\$14,133,000	\$1,732,000	\$15,003,000	\$1,822,000	\$10,416,000	\$1,311,000
		\$19,224,000		\$16,713,000		\$17,795,000		\$15,007,000		\$18,250,000		\$15,865,000		\$16,825,000		\$11,727,000	
Associated Costs (LSF)	Construction w/ Contingency		\$14,663,000		\$14,820,000		\$14,663,000		\$14,820,000		\$14,280,000		\$14,280,000		\$14,280,000		\$14,280,000
	PED		\$2,639,000		\$2,668,000		\$2,639,000		\$2,668,000		\$2,570,000		\$2,570,000		\$2,570,000		\$2,570,000
	S&A		\$1,466,000		\$1,482,000		\$1,466,000		\$1,482,000		\$1,428,000		\$1,428,000		\$1,428,000		\$1,428,000
	Environmental Mitigation:		\$79,000		\$101,000		\$79,000		\$101,000		\$29,000		\$29,000		\$29,000		\$29,000
	Real Estate Costs:		\$25,000		\$32,000		\$25,000		\$32,000		\$12,000		\$12,000		\$12,000		\$12,000
	Associated Cost Total		\$18,872,000		\$19,103,000		\$18,872,000		\$19,103,000		\$18,319,000		\$18,319,000		\$18,319,000		\$18,319,000
			\$18,872,000		\$19,103,000		\$18,872,000		\$19,103,000		\$18,319,000		\$18,319,000		\$18,319,000		\$18,319,000
Project First Cost with Associated Costs:		\$38,096,000		\$35,816,000		\$36,667,000		\$34,110,000		\$36,569,000		\$34,184,000		\$35,144,000		\$30,046,000	
Feasibility Study Costs:		\$520,000	\$420,000	\$520,000	\$420,000	\$520,000	\$420,000	\$520,000	\$420,000	\$520,000	\$420,000	\$520,000	\$420,000	\$520,000	\$420,000	\$520,000	\$420,000
Total Fed/Non Fed Costs:		\$17,675,000	\$21,361,000	\$15,417,000	\$21,339,000	\$16,397,000	\$21,210,000	\$13,887,000	\$21,163,000	\$16,800,000	\$20,709,000	\$14,653,000	\$20,471,000	\$15,523,000	\$20,561,000	\$10,936,000	\$20,050,000
Estimated Duration (Months)		29		27		28		26		27		25		26		19	

Kaskaskia River Regional Port Feasibility Study with Integrated Environmental Document Draft Report

Kaskaskia Port CAP 107

Alternative - 4a - North Oxbow Maximum (Two-Way Traffic)

1/8/2024

**Assume 12' Depth for Dredging

**Assume Mechanical Dredging with Disposal at DD-3

ITEM	ESTIMATED AMOUNT		
	Federal cost	Non-Federal cost	Total
Mobilization and Demobilization	\$129,780	\$14,420	\$144,200
New Dock (KRPD)		\$10,500,000	\$10,500,000
Site Prep at DD-3			
Earthwork	\$1,020,375	\$113,375	\$1,133,750
Seeding	\$45,000	\$5,000	\$50,000
Clear and Grub	\$171,000	\$19,000	\$190,000
Excavation for Outflow Ditch	\$46,125	\$5,125	\$51,250
R-50 Stone	\$89,910	\$9,990	\$99,900
Bedding Stone	\$37,665	\$4,185	\$41,850
Erosion Control Blanket	\$33,300	\$3,700	\$37,000
24" Dia RCP Culverts	\$6,480	\$720	\$7,200
Site Prep (DD-4)			
Earthwork	\$1,020,015	\$113,335	\$1,133,350
Clear and Grub	\$188,100	\$20,900	\$209,000
Seeding	\$49,500	\$5,500	\$55,000
Dredging	\$6,574,689	\$730,521	\$7,305,210
Mouth Cut Area Revetment			
R-90 Stone	\$46,413	\$5,157	\$51,570
Bedding Stone	\$10,935	\$1,215	\$12,150
Excavation for Toe	\$4,388	\$488	\$4,875
Excavation for Key-In	\$4,163	\$463	\$4,625
Fleeting Area Revetment			
R-90 Stone		\$125,766	\$125,766
Bedding Stone		\$30,015	\$30,015
Excavation for Toe		\$11,850	\$11,850
Excavation for Key-In		\$11,100	\$11,100
Mooring Structures (FL-5)			
Excavation		\$1,241	\$1,241
Metal Pipe		\$31,949	\$31,949
Mooring		\$13,728	\$13,728
Concrete		\$56,160	\$56,160
SUBTOTAL:	\$9,478,000	\$11,835,000	\$21,313,000
Contingency:	\$3,412,000	\$4,261,000	\$7,673,000 36%
Construction Subtotal:	\$12,890,000	\$16,096,000	\$28,986,000
E & D :	\$2,320,000	\$2,897,000	\$5,217,000 18%
S & A :	\$1,289,000	\$1,610,000	\$2,899,000 10%
Environmental Mitigation:	\$656,000	\$152,000	\$808,000
Real Estate Cost:	\$0	\$186,000	\$186,000
	\$17,155,000	\$20,941,000	
TOTAL COST:	\$38,096,000		

GNF costs are 90% federal and 10% non-federal and LSF costs are 100% non-federal.

Kaskaskia River Regional Port Feasibility Study with Integrated Environmental Document Draft Report

Kaskaskia Port CAP 107

Alternative - 4b - North Oxbow Maximum (One-Way Traffic)

1/8/2024

**Assume 12' Depth for Dredging

**Assume Mechanical Dredging with Disposal at DD-3

ITEM	ESTIMATED AMOUNT		
	Federal cost	Non-Federal cost	Total
Mobilization and Demobilization	\$129,780	\$14,420	\$144,200
New Dock (KRPD)		\$10,500,000	\$10,500,000
Site Prep at DD-3			
Earthwork	\$1,020,375	\$113,375	\$1,133,750
Seeding	\$45,000	\$5,000	\$50,000
Clear and Grub	\$171,000	\$19,000	\$190,000
Excavation for Outflow Ditch	\$46,125	\$5,125	\$51,250
R-50 Stone	\$89,910	\$9,990	\$99,900
Bedding Stone	\$37,665	\$4,185	\$41,850
Erosion Control Blanket	\$33,300	\$3,700	\$37,000
24" Dia RCP Culverts	\$6,480	\$720	\$7,200
Site Prep (DD-4)			
Earthwork	\$1,020,015	\$113,335	\$1,133,350
Clear and Grub	\$188,100	\$20,900	\$209,000
Seeding	\$49,500	\$5,500	\$55,000
Dredging	\$5,276,502	\$586,278	\$5,862,780
Mouth Cut Area Revetment	\$0	\$0	
R-90 Stone	\$46,413	\$5,157	\$51,570
Bedding Stone	\$10,935	\$1,215	\$12,150
Excavation for Toe	\$4,388	\$488	\$4,875
Excavation for Key-In	\$4,163	\$463	\$4,625
Fleeting Area Revetment			
R-90 Stone		\$189,108	\$189,108
Bedding Stone		\$45,000	\$45,000
Excavation for Toe		\$17,775	\$17,775
Excavation for Key-In		\$16,675	\$16,675
Mooring Structures (FL-4 & 5)			
Excavation		\$1,551	\$1,551
Metal Pipe		\$39,936	\$39,936
Mooring		\$17,160	\$17,160
Concrete		\$70,200	\$70,200
SUBTOTAL:	\$8,180,000	\$11,806,000	\$19,986,000
Contingency:	\$2,945,000	\$4,250,000	\$7,195,000 36%
Construction Subtotal:	\$11,125,000	\$16,056,000	\$27,181,000
E & D :	\$2,003,000	\$2,890,000	\$4,893,000 18%
S & A :	\$1,113,000	\$1,606,000	\$2,719,000 10%
Environmental Mitigation:	\$656,000	\$174,000	\$830,000
Real Estate Cost:	\$0	\$193,000	\$193,000
	\$14,897,000	\$20,919,000	
TOTAL COST:	\$35,816,000		

GNF costs are 90% federal and 10% non-federal and LSF costs are 100% non-federal.

Kaskaskia River Regional Port Feasibility Study with Integrated Environmental Document Draft Report

Kaskaskia Port CAP 107

Alternative - 5a - North Oxbow Fleeting (Two-Way Traffic)

1/8/2024

**Assume 12' Depth for Dredging

**Assume Mechanical Dredging with Disposal at DD-3

ITEM	ESTIMATED AMOUNT		
	Federal cost	Non-Federal cost	Total
Mobilization and Demobilization	\$129,780	\$14,420	\$144,200
New Dock (KRPD)		\$10,500,000	\$10,500,000
Site Prep at DD-3			
Earthwork	\$1,020,375	\$113,375	\$1,133,750
Seeding	\$45,000	\$5,000	\$50,000
Clear and Grub	\$171,000	\$19,000	\$190,000
Excavation for Outflow Ditch	\$46,125	\$5,125	\$51,250
R-50 Stone	\$89,910	\$9,990	\$99,900
Bedding Stone	\$37,665	\$4,185	\$41,850
Erosion Control Blanket	\$33,300	\$3,700	\$37,000
24" Dia RCP Culverts	\$6,480	\$720	\$7,200
Site Prep (DD-4)			
Earthwork	\$1,020,015	\$113,335	\$1,133,350
Clear and Grub	\$188,100	\$20,900	\$209,000
Seeding	\$49,500	\$5,500	\$55,000
Dredging	\$5,951,187	\$661,243	\$6,612,430
Fleeting Area Revetment			
R-90 Stone		\$125,766	\$125,766
Bedding Stone		\$30,015	\$30,015
Excavation for Toe		\$11,850	\$11,850
Excavation for Key-In		\$11,100	\$11,100
Mooring Structures (FL-5)			
Excavation		\$1,241	\$1,241
Metal Pipe		\$31,949	\$31,949
Mooring		\$13,728	\$13,728
Concrete		\$56,160	\$56,160
SUBTOTAL:	\$8,788,000	\$11,758,000	\$20,546,000
Contingency:	\$3,164,000	\$4,233,000	\$7,397,000 36%
Construction Subtotal:	\$11,952,000	\$15,991,000	\$27,943,000
E & D :	\$2,151,000	\$2,878,000	\$5,029,000 18%
S & A :	\$1,195,000	\$1,599,000	\$2,794,000 10%
Environmental Mitigation:	\$579,000	\$143,000	\$722,000
Real Estate Cost:	\$0	\$179,000	\$179,000
	\$15,877,000	\$20,790,000	
TOTAL COST:	\$36,667,000		

GNF costs are 90% federal and 10% non-federal and LSF costs are 100% non-federal.

Kaskaskia Port CAP 107

Alternative - 5b - North Oxbow Fleeting (One-Way Traffic)

1/8/2024

**Assume 12' Depth for Dredging

**Assume Mechanical Dredging with Disposal at DD-3

ITEM	ESTIMATED AMOUNT		
	Federal cost	Non-Federal cost	Total
Mobilization and Demobilization	\$129,780	\$14,420	\$144,200
New Dock (KRPD)		\$10,500,000	\$10,500,000
Site Prep at DD-3			
Earthwork	\$1,020,375	\$113,375	\$1,133,750
Seeding	\$45,000	\$5,000	\$50,000
Clear and Grub	\$171,000	\$19,000	\$190,000
Excavation for Outflow Ditch	\$46,125	\$5,125	\$51,250
R-50 Stone	\$89,910	\$9,990	\$99,900
Bedding Stone	\$37,665	\$4,185	\$41,850
Erosion Control Blanket	\$33,300	\$3,700	\$37,000
24" Dia RCP Culverts	\$6,480	\$720	\$7,200
Site Prep (DD-4)			
Earthwork	\$1,020,015	\$113,335	\$1,133,350
Clear and Grub	\$188,100	\$20,900	\$209,000
Seeding	\$49,500	\$5,500	\$55,000
Dredging	\$4,508,757	\$500,973	\$5,009,730
Fleeting Area Revetment			
R-90 Stone		\$189,108	\$189,108
Bedding Stone		\$45,000	\$45,000
Excavation for Toe		\$17,775	\$17,775
Excavation for Key-In		\$16,675	\$16,675
Mooring Structures (FL-4 & 5)			
Excavation		\$1,551	\$1,551
Metal Pipe		\$39,936	\$39,936
Mooring		\$17,160	\$17,160
Concrete		\$70,200	\$70,200
SUBTOTAL:	\$7,346,000	\$11,714,000	\$19,060,000
Contingency:	\$2,645,000	\$4,217,000	\$6,862,000 36%
Construction Subtotal:	\$9,991,000	\$15,931,000	\$25,922,000
E & D :	\$1,798,000	\$2,868,000	\$4,666,000 18%
S & A :	\$999,000	\$1,593,000	\$2,592,000 10%
Environmental Mitigation:	\$579,000	\$165,000	\$744,000
Real Estate Cost:	\$0	\$186,000	\$186,000
	\$13,367,000	\$20,743,000	
TOTAL COST:	\$34,110,000		

GNF costs are 90% federal and 10% non-federal and LSF costs are 100% non-federal.

Table of costs related to a proposed alternative. Contact the team for more information or 508 needs.

Kaskaskia Port CAP 107

Alternative - 6a - North Oxbow Mouth (Two-Way Traffic)

1/8/2024

**Assume 12' Depth for Dredging

**Assume Mechanical Dredging with Disposal at DD-3

ITEM	ESTIMATED AMOUNT		
	Federal cost	Non-Federal cost	Total
Mobilization and Demobilization	\$129,780	\$14,420	\$144,200
New Dock (KRPD)		\$10,500,000	\$10,500,000
Site Prep at DD-3			
Earthwork	\$1,020,375	\$113,375	\$1,133,750
Seeding	\$45,000	\$5,000	\$50,000
Clear and Grub	\$171,000	\$19,000	\$190,000
Excavation for Outflow Ditch	\$46,125	\$5,125	\$51,250
R-50 Stone	\$89,910	\$9,990	\$99,900
Bedding Stone	\$37,665	\$4,185	\$41,850
Erosion Control Blanket	\$33,300	\$3,700	\$37,000
24" Dia RCP Culverts	\$6,480	\$720	\$7,200
Site Prep (DD-4)			
Earthwork	\$1,020,015	\$113,335	\$1,133,350
Clear and Grub	\$188,100	\$20,900	\$209,000
Seeding	\$49,500	\$5,500	\$55,000
Dredging	\$6,072,165	\$674,685	\$6,746,850
Mouth Cut Area Revetment			
R-90 Stone	\$46,413	\$5,157	\$51,570
Bedding Stone	\$10,935	\$1,215	\$12,150
Excavation for Toe	\$4,388	\$488	\$4,875
Excavation for Key-In	\$4,163	\$463	\$4,625
SUBTOTAL:	\$8,975,000	\$11,497,000	\$20,472,000
Contingency:	\$3,231,000	\$4,139,000	\$7,370,000 36%
Construction Subtotal:	\$12,206,000	\$15,636,000	\$27,842,000
E & D :	\$2,197,000	\$2,814,000	\$5,011,000 18%
S & A :	\$1,221,000	\$1,564,000	\$2,785,000 10%
Environmental Mitigation:	\$656,000	\$102,000	\$758,000
Real Estate Cost:	\$0	\$173,000	\$173,000
	\$16,280,000	\$20,289,000	
TOTAL COST:	\$36,569,000		

GNF costs are 90% federal and 10% non-federal and LSF costs are 100% non-federal.

Kaskaskia Port CAP 107

Alternative - 6b - North Oxbow Mouth (One-Way Traffic)

1/8/2024

**Assume 12' Depth for Dredging

**Assume Mechanical Dredging with Disposal at DD-3

ITEM	ESTIMATED AMOUNT		
	Federal cost	Non-Federal cost	Total
Mobilization and Demobilization	\$129,780	\$14,420	\$144,200
New Dock (KRPD)		\$10,500,000	\$10,500,000
Site Prep at DD-3			
Earthwork	\$1,020,375	\$113,375	\$1,133,750
Seeding	\$45,000	\$5,000	\$50,000
Clear and Grub	\$171,000	\$19,000	\$190,000
Excavation for Outflow Ditch	\$46,125	\$5,125	\$51,250
R-50 Stone	\$89,910	\$9,990	\$99,900
Bedding Stone	\$37,665	\$4,185	\$41,850
Erosion Control Blanket	\$33,300	\$3,700	\$37,000
24" Dia RCP Culverts	\$6,480	\$720	\$7,200
Site Prep (DD-4)			
Earthwork	\$1,020,015	\$113,335	\$1,133,350
Clear and Grub	\$188,100	\$20,900	\$209,000
Seeding	\$49,500	\$5,500	\$55,000
Dredging	\$4,839,120	\$537,680	\$5,376,800
Mouth Cut Area Revetment			
R-90 Stone	\$46,413	\$5,157	\$51,570
Bedding Stone	\$10,935	\$1,215	\$12,150
Excavation for Toe	\$4,388	\$488	\$4,875
Excavation for Key-In	\$4,163	\$463	\$4,625
SUBTOTAL:	\$7,742,000	\$11,360,000	\$19,102,000
Contingency:	\$2,787,000	\$4,090,000	\$6,877,000 36%
Construction Subtotal:	\$10,529,000	\$15,450,000	\$25,979,000
E & D :	\$1,895,000	\$2,781,000	\$4,676,000 18%
S & A :	\$1,053,000	\$1,545,000	\$2,598,000 10%
Environmental Mitigation:	\$656,000	\$102,000	\$758,000
Real Estate Cost:	\$0	\$173,000	\$173,000
	\$14,133,000	\$20,051,000	
TOTAL COST:	\$34,184,000		

GNF costs are 90% federal and 10% non-federal and LSF costs are 100% non-federal.

Kaskaskia Port CAP 107

Alternative - 7a - North Oxbow Minimum (Two-Way Traffic)

1/8/2024

**Assume 12' Depth for Dredging

**Assume Mechanical Dredging with Disposal at DD-3

ITEM	ESTIMATED AMOUNT		
	Federal cost	Non-Federal cost	Total
Mobilization and Demobilization	\$129,780	\$14,420	\$144,200
New Dock (KRPD)		\$10,500,000	\$10,500,000
Site Prep at DD-3			\$0
Earthwork	\$1,020,375	\$113,375	\$1,133,750
Seeding	\$45,000	\$5,000	\$50,000
Clear and Grub	\$171,000	\$19,000	\$190,000
Excavation for Outflow Ditch	\$46,125	\$5,125	\$51,250
R-50 Stone	\$89,910	\$9,990	\$99,900
Bedding Stone	\$37,665	\$4,185	\$41,850
Erosion Control Blanket	\$33,300	\$3,700	\$37,000
24" Dia RCP Culverts	\$6,480	\$720	\$7,200
Site Prep (DD-4)			
Earthwork	\$1,020,015	\$113,335	\$1,133,350
Clear and Grub	\$188,100	\$20,900	\$209,000
Seeding	\$49,500	\$5,500	\$55,000
Dredging	\$5,448,663	\$605,407	\$6,054,070
SUBTOTAL:	\$8,286,000	\$11,421,000	\$19,707,000
Contingency:	\$2,983,000	\$4,112,000	\$7,095,000 36%
Construction Subtotal:	\$11,269,000	\$15,533,000	\$26,802,000
E & D :	\$2,028,000	\$2,796,000	\$4,824,000 18%
S & A :	\$1,127,000	\$1,553,000	\$2,680,000 10%
Environmental Mitigation:	\$579,000	\$93,000	\$672,000
Real Estate Cost:	\$0	\$166,000	\$166,000
	\$15,003,000	\$20,141,000	
TOTAL COST:	\$35,144,000		

GNF costs are 90% federal and 10% non-federal and LSF costs are 100% non-federal.

Kaskaskia Port CAP 107

Alternative - 7b - North Oxbow Minimum (One-Way Traffic)

1/8/2024

**Assume 12' Depth for Dredging

**Assume Mechanical Dredging with Disposal at DD-3

ITEM	ESTIMATED AMOUNT		
	Federal cost	Non-Federal cost	Total
Mobilization and Demobilization	\$129,780	\$14,420	\$144,200
New Dock (KRPD)		\$10,500,000	\$10,500,000
Site Prep at DD-3			\$0
Earthwork	\$1,020,375	\$113,375	\$1,133,750
Seeding	\$45,000	\$5,000	\$50,000
Clear and Grub	\$171,000	\$19,000	\$190,000
Excavation for Outflow Ditch	\$46,125	\$5,125	\$51,250
R-50 Stone	\$89,910	\$9,990	\$99,900
Bedding Stone	\$37,665	\$4,185	\$41,850
Erosion Control Blanket	\$33,300	\$3,700	\$37,000
24" Dia RCP Culverts	\$6,480	\$720	\$7,200
Dredging	\$4,071,375	\$452,375	\$4,523,750
SUBTOTAL:	\$5,651,000	\$11,128,000	\$16,779,000
Contingency:	\$2,034,000	\$4,006,000	\$6,040,000 36%
Construction Subtotal:	\$7,685,000	\$15,134,000	\$22,819,000
E & D :	\$1,383,000	\$2,724,000	\$4,107,000 18%
S & A :	\$769,000	\$1,513,000	\$2,282,000 10%
Environmental Mitigation:	\$579,000	\$93,000	\$672,000
Real Estate Cost:	\$0	\$166,000	\$166,000
	\$10,416,000	\$19,630,000	
TOTAL COST:	\$30,046,000		

GNF costs are 90% federal and 10% non-federal and LSF costs are 100% non-federal.