

# FUTURE FISHERIES IMPROVEMENT PROGRAM GRANT APPLICATION



All sections must be addressed, or the application will be considered invalid

I.	AP	PLICANT INFORMA	ATION
	Α.	Applicant Name:	Clar

Α.	Applicant Name: Clark Fork Coalition
	Mailing Address: PO Box 7593
	City: Missoula State: MT Zip: 59807
	Telephone: (406) 542-0539 E-mail: andy@clarkfork.org
В.	Contact Person (if different than applicant):  Andy Fischer
	Address: Same as above
	City: State: Zip:
	Telephone: (406) 552-7513 E-mail: andy@clarkfork.org
C.	Landowner and/or Lessee Name (if different than applicant):  Kohrs Manning Ditch Company
	Mailing Address: 1340 Freeze Out Lane
	City: Deer Lodge State: MT Zip: 59722
	Telephone: Available upon request E-mail: None
PR	OJECT INFORMATION
A.	Project Name: Kohrs Manning Diversion Project
	River, stream, or lake: Upper Clark Fork River
	Location: Township: 8N Range: 9W Section: 33
	Latitude: 46.401113 Longitude: -112.742280 Within project (decimal degrees)
	County: Powell
В.	Purpose of Project: (high level, focus on why the project is important)
	The purpose of the project is to restore fish and recreational passage at the Kohrs Manning Diversion through the replacement of their Clark Fork River and Cottonwood Creek diversions. The project also involves reducing fish entrainment risks by screening the Clark Fork River diversion with an ISI cone screen. The project will benefit primarily westslope cutthroat and brown trout.

II.

C. Brief Project Description (attach additional information to end of application). Please include the anticipated construction schedule:

This project is part of a larger effort in partnership with Trout Unlimited and the Natural Resource Damage Program that began in 2018 to address fish and recreational passage at 8 locations on the mainstem Clark Fork River between Deer Lodge and Warm Springs. To date 5 diversions upstream of the Kohrs Manning Diversion have been addressed and this 6<sup>th</sup> project will open 12 miles of upstream passage.

The Kohrs Manning Diversion project is located on the Clark Fork River in Deer Lodge, MT and intersects Cottonwood Creek a short distance down the ditch. The Cottonwood Creek diversion dam is a full-spanning pin-and-plank style timber weir dam that blocks all upstream fish passage when it is in use. Metal supports are manually raised seasonally (May-October) to support check boards that form a dam approximately 2 feet high across the entire creek. The Clark Fork River diversion is a rock push up dam that can be a seasonal fish and recreation barrier. The Clark Fork River supplies most of the irrigation water and also presents an entrainment risk to fish.

This project involves replacing the existing Clark Fork diversion structure with a rock ramp diversion and installing an ISI cone screen at the diversion intake. The ditch crossing at Cottonwood Creek will be replaced with a metal pipe or flume over top of the creek and the diversion on Cottonwood Creek will be rebuilt a short distance upstream and accommodate fish passage. The goals of the project are to 1) improve fish passage, 2) prevent entrainment. This project will benefit trout moving upstream and downstream to cold water refuges and reduce the severity of dewatering at this location.

Construction is scheduled for fall of 2025 depending on permitting timelines and contractor availability. Due to state and federal funding, NEPA, Section 106 and 404 permits are all required.

D. What was the cause of habitat degradation and how will the project correct the cause?

The diversion on Cottonwood Creek is a complete fish passage and recreational barrier and the Clark Fork River diversion is a partial barrier. The ditch also entrains fish from the Clark Fork River and Cottonwood Creek. These issues will be corrected by 1) replacing and screening the Clark Fork River diversion and 2) piping a section of open ditch over the creek (eliminating a passage barrier) and 3) moving the Cottonwood Creek diversion upstream. Although the new Cottonwood Creek diversion will remain unscreened, it is expected to only contribute to a small proportion of the diverted flow and could be screened at a future point in time.

E. Length of stream or size of lake that will be treated (project extent): 600 ft
 Length/size of impact, if larger than project extent (e.g., stream miles opened): 12 Miles

F. Project Budget Summary:

Grant Request (Dollars): \$ 75,000

Matching Dollars: \$ 1,300,000

Matching In-Kind Services:\* \$ 0

\*salaries of government employees are not considered matching contributions

Other Contributions (not part of this app) \$ 349,195

Total Project Cost: \$ 1,724,195

- G. Attach itemized (line item) budget see budget template
- H. Attach project location map(s) that include:

### IV.

critical habitat for bull trout, although their abundance in this section of the river is quite low and FWP surveys have not detected bull trout in Cottonwood Creek.

B. How will the project protect or enhance wild fish habitat?

Cottonwood Creek is the most upstream consistent recruitment source for westslope cutthroat trout to the Upper Clark Fork River according to FWP. Numerous upstream fish passage projects have been completed in Cottonwood Creek and this project has been identified as the highest priority project remaining for fish passage. The project will remove a major fish passage barrier in the Upper Clark Fork River and prevent fish entrainment by screening the primary intake on the ditch. Once removed westslope cutthroat in the river will be able to successfully out migrate to the Clark Fork River without being entrained in a ditch and move upstream from the river to more favorable more favorable habitat in Cottonwood Creek during certain times of the year.

C. What is the expected improvement to fish populations, both short term and long term? How might the project translate to angler success?

FWP data suggests that this project will increase recruitment of both brown trout and cutthroat trout to the Clark Fork River in a section of river where recruitment is limited. Fish will benefit from improved passage upstream and downstream during the summer drought periods when they move to cold water refuges in nearby tributaries such as Cottonwood Creek. Fish populations will also benefit from lower entrainment risks in the ditch due to screening and less chance of mortality due to improved water flows in the river.

D. Will the project increase public fishing opportunity for wild fish and, if so, how? Is public fishing allowed onsite? Is it allowed by permission? If not, describe how the public would benefit.

The project is located on public land (City and Federal) that is accessible to the public and adjacent to a popular campground in Deer Lodge. Anglers and floaters will gain better access to a section of river that presents a major recreational barrier and safety concern when the diversion dam is in operation. Plans are being developed by the City of Deer Lodge to eventually improve the area near the diversion into a City Park. Grant Kohrs Ranch National Historic Site has a primitive nature trail along Cottonwood Creek in the project area that is accessible to anglers as well. This project should improve angling opportunities in the vicinity due to improved fish recruitment into the river.

E. Aside from angling, what local or large-scale public benefits will be realized from this project?

The proposed improvements to the Kohrs Manning Diversions will improve public safety for floaters in the Clark Fork River, enhance habitat conditions and recruitment of native fish and support the agricultural economy. This section of river is a popular recreational stretch through the city of Deer Lodge and will benefit from improved public safety at the diversion (more gradual drop), especially given there is a campground located immediately upstream and plans to develop a city park near the diversion. Preventing entrainment at the Clark Fork diversion and improving fish passage at Cottonwood Creek will also improve recruitment for native fish by preventing them from getting stuck in the ditch and allowing them to access high quality upstream habitat. Removing the fish passage barrier/diversion on Cottonwood Creek will also improve habitat conditions within this reach and allow for the establishment of riparian vegetation at the confluence with the Clark Fork River. The project will also improve water security for the Kohrs Manning Ditch Company and support agriculture by ensuring there are not disruptions to their irrigation supply because of aging, worn-out infrastructure.

F. Will the project interfere with water or property rights of adjacent landowners? (explain):

No. All property owners adjacent to the project are involved and supportive of the project. There are also no other immediately adjacent irrigation diversions that will be impacted and there are no proposed changes to the water rights other than filing a notice of the new point of diversion 150' upstream on Cottonwood Creek (DNRC form 644 Notice of Replacement Point of Diversion).

G	Will the project result in the development of commercial recreational use on the site (including pai
<b>U</b> .	access)? Explain:

No.

H. Is this project associated with the reclamation of past mining activity?

Future remediation efforts will not impact the project. The project is located in the Clark Fork River Operable Unit and this location has not been remediated. Contamination sampling is being conducted by the engineer to determine if removal of contaminated soils will be necessary at any locations where stream bank disturbance will occur. Stream bank disturbance will be minimized and will be contained primarily to the ~300' of streambank where the rock weirs/rip rap for the diversion are being installed. Any contaminated material will be hauled off site to the ARCO repository in Opportunity in coordination with DEQ. This will ensure that when future remediation occurs at this location, the diversion can be left in place.

Each approved project applicant must enter into a written agreement with Montana Fish, Wildlife & Parks specifying terms and duration of the project. The applicant must obtain all applicable permits prior to project construction. A competitive bid process must be followed when using State funds.

### V. AUTHORIZING STATEMENT

I (we) hereby declare that the information and all statements to this application are true, complete, and accurate to the best of my (our) knowledge and that the project or activity complies with rules of the Future Fisheries Improvement Program.

Applicant Signature:

Date: 5/15/2024

Submittal: Applications must be signed and received on or before November 15 and May 15 to be considered for the subsequent funding period. Late or incomplete applications will be rejected.

Mail to: FWP Future Fisheries

Fish Habitat Bureau PO Box 200701

Helena, MT 59620-0701

Email: Future Fisheries Coordinator

FWPFFIP@mt.gov

(electronic submissions must be signed)

For files over 10MB, use https://transfer.mt.gov and send

to mmcgree@mt.gov

### BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS

Both tables MUST be completed appropriately or the application will be invalid. Please see the example budget sheet for clarification.

PROJECT COSTS					GRANT REQUEST AND FUNDING					
Work Items (Itemize by Category)	Number of Units	Unit Description* ards, etc. Do not	Cost/Unit	unla	Total Cost	FUTURE FISHERIES REQUEST	Matching Contributions (Cash or In- Kind)***	Other Contributions (Funds not used as match)		Total Funding
	i, Hours, cubic y	arus, etc. Do not	use lump sum t	unie	ss riecessary.		Killu)	matonj		
Personnel Survey	122	шр	\$100.00	φ.	12,200.00			12,200.00	Ф.	12,200.00
Design	352		\$100.00		63,370.00				\$ \$	·
Engineering	417		\$180.00		75,000.00			75,000.00	\$	63,370.00 75,000.00
Permitting	306		\$180.00		55,000.00		55,000.00	75,000.00	\$	55,000.00
Oversight and Project							33,000.00		Ψ	33,000.00
Management	862		\$87.00	-	75,000.00			75,000.00	\$	75,000.00
Maintenance**	53	HR	\$76.00	\$	4,000.00		4,000.00		\$	4,000.00
			Sub-Total	\$	284,570.00	\$ -	\$ 59,000.00	\$ 225,570.00	\$	284,570.00
<u>Travel</u>				1						
Mileage	4000	EA	\$0.70		2,800.00			2,800.00	\$	2,800.00
Per diem				\$	-				\$	-
			Sub-Total	\$	2,800.00		\$ -	\$ 2,800.00	\$	2,800.00
Construction Ma				,						
Rock Ramp	1650		\$150.00		247,500.00		247,500.00		\$	247,500.00
Riprap Bank	362	CY	\$100.00	\$	36,200.00		36,200.00		\$	36,200.00
Buried Cutoff Liner	100	LF	\$100.00	\$	10,000.00		10,000.00		\$	10,000.00
Concrete Intake Structure	165		\$1,500.00		247,500.00		247,500.00		\$	247,500.00
3' Headgates		EA	\$14,000.00		28,000.00		28,000.00		\$	28,000.00
3' Sluice Pipe	50	LF	\$250.00	\$	12,500.00		12,500.00		\$	12,500.00
10' Diameter ISI Cone Screen Log Grate		LS LS	\$75,000.00 \$25,000.00	\$	75,000.00 \$25,000.00	75,000.00	25,000.00		\$	75,000.00 25,000.00
3' Ditch intake	<u> </u>		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,==,===		2,22230		*	,
Gates 3' Ditch intake	2	EA	\$14,000.00	\$	28,000.00		28,000.00		\$	28,000.00
Pipes Articulated Concrete Block		LF	\$250.00		15,000.00		15,000.00		\$	15,000.00
Armor	600	SF	\$30.00	\$	18,000.00		18,000.00		\$	18,000.00
Walkway	140		\$200.00	\$	28,000.00		28,000.00		\$	28,000.00
Handrail	140	SF	\$200.00	\$	28,000.00		28,000.00		\$	28,000.00

BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROCEDAM APPLICATIONS	021-2025
RIDGET TEMPLATE SUPERING TO BE TO THE PROPERTY OF THE PROPERTY	021-2025

		E	BUDGET TEMPLATE	SH	EET FOR FUTUR	REFISHERIES PROG	RAM AP	PLICATI	ONS		
Roughened											
Riffle Materials	180	CY	\$150.00	\$	27,000.00		2	7,000.00		\$	27,000.00
Rip Rap	ı							•			•
(Cottonwood)	180	CY	\$100.00	\$	18,000.00		1	8,000.00		\$	18,000.00
Metal intake	ı										
structure	1	LS	\$15,000.00	\$	15,000.00		1	5,000.00		\$	15,000.00
2' Headgates	2	EA	\$10,000.00	\$	20,000.00		2	0,000.00		\$	20,000.00
2' Intake Pipes	40	LF	\$200.00	\$	8,000.00			8,000.00		\$	8,000.00
4' Steel Pipe	140	LF	\$1,500.00	\$	210,000.00			0,175.00	79,825.00	\$	210,000.00
Pipe Retaining	ı			·	,			-,			•
Walls	2	EA	\$10,000.00	\$	20,000.00				20,000.00	\$	20,000.00
Buried Concrete											
Anchors	6	EA	\$1,500.00	\$	9,000.00		<u> </u>		9,000.00	\$	9,000.00
			Sub-Total	\$	1,125,700.00	\$ 75,000.00	\$ 94	1,875.00	\$ 108,825.00	\$	1,125,700.00
Equipment, Labor	r, and Mobiliz	ation									
Mobilzation and											
Bonding	1	LS	\$100,000.00	\$	100,000.00		10	0,000.00		\$	100,000.00
Temporary	ı										
Access Road	450	LF	\$35.00	\$	15,750.00		1	5,750.00		\$	15,750.00
	I										
CFR Temporary	ı										
Bypass Channel	1860	CY	\$25.00	\$	46,500.00		4	6,500.00		\$	46,500.00
CFR Temporary	ı										
Coffer Dam	2	EA	\$5,000.00	\$	10,000.00		1	0,000.00		\$	10,000.00
Demolition and	1			_							
Removal	1	LS	\$5,000.00	\$	5,000.00			5,000.00		\$	5,000.00
Site Restoration	1	LS	\$15,000.00	\$	15,000.00		1	5,000.00		\$	15,000.00
Rock Ramp											
Earthwork	1500	CY	\$10.00	\$	15,000.00		1	5,000.00		\$	15,000.00
Cone Screen	I										
Installation		LS	\$50,000.00		50,000.00			0,000.00		\$	50,000.00
Power Supply	1	LS	\$20,000.00	\$	20,000.00		2	0,000.00		\$	20,000.00
Feeder Ditch	ı										
Earthwork	1200	CY	\$10.00	\$	12,000.00				12,000.00	\$	12,000.00
CC Temporary	1										
Bypass Channel	675	CV	\$25.00	¢	16,875.00		1	6,875.00		\$	16,875.00
CC Coffer Dam		EA	\$2,500.00		5,000.00			5,000.00		Φ	5,000.00
CC Collet Dalli	۷	<u> </u>			311,125.00	ტ		9,125.00	42 000 00	φ	
		L	Sub-Total	\$							311,125.00
			OVERALL TOTALS	\$	1,724,195.00	\$ 75,000.00	\$ 1,30	0,000.00	\$ 349,195.00	\$	1,724,195.00

Pages 2 of 3 (Revised 5/16/2025)

# BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS

### **OTHER REQUIREMENTS:**

- \*\*For projects that include a maintenance request, it cannot exceed 10% of the total project cost.
- \*\*\*Match can include in-kind materials or labor. Justification for in-kind labor (e.g. hourly rates used) can be noted below. Do not use government salaries as match.

Addi	itional	bud	get d	letail:
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APPLICATION MATCHING CONTRIBUTIONS  Total should equal match listed above; do not include requested funds							
CONTRIBUTOR IN-KIND CASH TOTAL Secured? (Y/N)							
USFWS Fish Passage Funding	\$	-	\$	1,300,000.00	\$	1,300,000.00	Υ
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
	TOTALS \$	-	\$	1,300,000.00	\$	1,300,000.00	

OTHER CONTRIBUTIONS							
Total should equal other contributions listed above;	these a	re funds not sp	ecic	ally matched to the	e Fu	ture Fisheries	application
CONTRIBUTOR		IN-KIND		CASH		TOTAL	Secured? (Y/N)
State of MT, DOJ, Natural Resource Damage Program	\$	-	\$	269,195.00	\$	269,195.00	Υ
Resources Legacy Fund, Open Rivers Fund	\$	-	\$	80,000.00	\$	80,000.00	Υ
	\$	-	\$		\$	-	
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
TOTALS	\$	-	\$	349,195.00	\$	349,195.00	

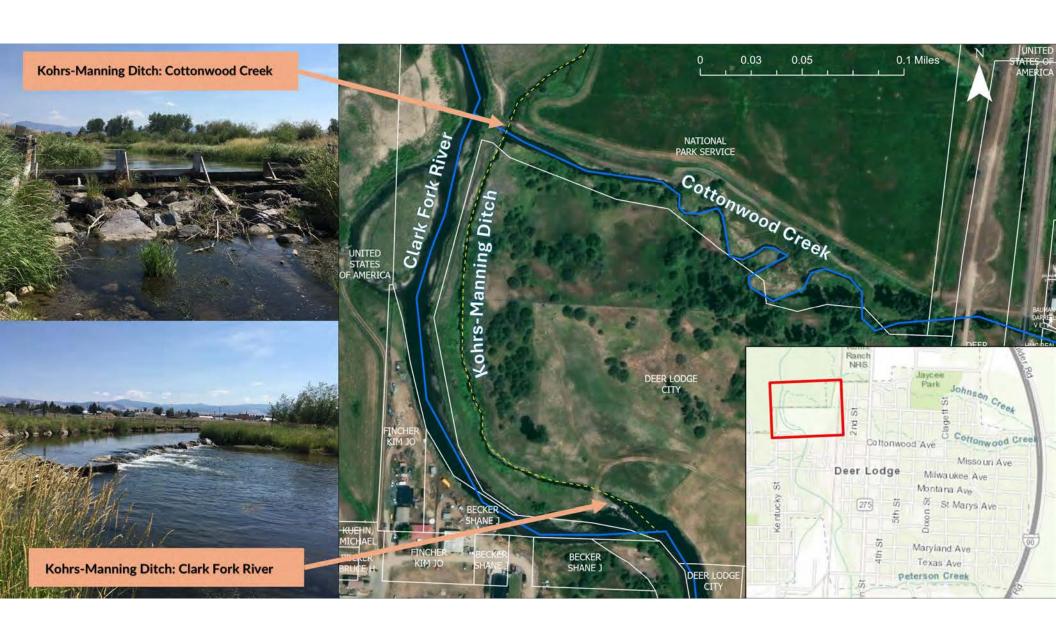
Pages 3 of 3 (Revised 5/16/2025)

# MONTANA FISH, WILDLIFE & PARKS

# Future Fisheries Improvement Program

Appendix: FWP Statement

Project Title:							
Please describe the potential impact of the project, including the priorities of the Fisheries Division and the importance to Montana's anglers.							
Name of FWP Biologist Date:							
Please attach to the FFIP application and materials and submit according to listed deadlines.							







May 12, 2025

ATTN: FWP Future Fisheries Review Committee

RE: Letter of Support for Kohr-Manning Diversion Project

### To whom it may concern:

This letter is written in support of the "Kohrs Manning Diversion Project" grant application submitted to the FWP Future Fisheries Program by the *Clark Fork Coalition* (CFC) in partnership with the Montana Department of Justice Natural Resource Damage Program (NRDP) and Trout Unlimited (TU) to replace the irrigation diversion infrastructure and improve fish passage in the Upper Clark Fork Basin (UCF) of western Montana. The project involves screening and improving the Kohrs Manning Clark Fork River diversion and relocating the Cottonwood Creek diversion.

I am a landowner and shareholder of the Kohrs-Manning Ditch Company. I support this FWP Future Fisheries grant proposal and will work with CFC, NRDP, TU and contractors to access this site and look forward to working with these partners on implementing this important project.

Sincerely,

Signature

Date

Name or Entity

2532 Freezeout Lone Address May 12, 2025

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Sincerely,

Signature

Date

Name or Entity

Address



# United States Department of the Interior

NATIONAL PARK SERVICE 266 Warren Lane Grant-Kohrs Ranch National Historic Site Deer Lodge, Montana 59722



A22 (7.B.)

May 7, 2025

Montana Fish Wildlife and Parks Future Fisheries Improvement Program

Dear FWP Future Fisheries Review Committee:

On behalf of Grant-Kohrs Ranch National Historic Site, I am writing to share how the Kohrs Manning Diversion Project grant application submitted by the Clark Fork Coalition aligns with Grant-Kohrs Ranch's goals to protect our resources.

We are landowners and water right holders that irrigate from the Kohrs-Manning Diversion. This project will replace irrigation diversion infrastructure and improve fish passage in the Upper Clark Fork Basin of western Montana. This project involves screening and improving the Kohrs Manning Clark Fork River diversion and the Cottonwood Creek diversion. This project will be completed in coordination with National Park Service staff.

Once again thank you for your consideration of the Kohrs Manning Diversion Project grant application.

Sincerely,

MCKENZIE NOVAK Digitally signed by MCKENZIE NOVAK Date: 2025.05.07 13:33:55 06'00'

McKenzie Novak Natural Resource Manager

# NATURAL RESOURCE DAMAGE PROGRAM KOHRS MANNING DIVERSION IMPROVEMENTS POWELL COUNTY, MONTANA

825 W. Custer Ave.

Helena, Montana 59602

PHONE: 406-443-4210 FAX: 406-442-7182



www.tetratech.com

#### PREPARED FOR:





#### SHEET INDEX

### SHEET NUMBER SHEET TITLE

- COVER SHEET
- EXISTING SITE AND ACCESS PLAN
- C-1 OVERALL SITE PLAN
- CFR TEMPORARY BYPASS
- CFR SITE PLAN
- CFR DIVERSION GRADING PLAN
- C-5 CFR ROCK RAMP PROFILE AND SECTIONS
- CFR SLUICE PLAN AND PROFILE
- C-7 CFR INTAKE PLAN AND PROFILE
- E-1 CONE SCREEN ELECTRICAL PLAN
- C-9 COTTONWOOD CREEK TEMPORARY BYPASS
- C-10 COTTONWOOD CREEK SITE PLAN
- C-11 COTTONWOOD CREEK DIVERSION PLAN AND PROFILE
- COTTONWOOD CREEK FEEDER DITCH PLAN AND PROFILE C-12
- COTTONWOOD CREEK PIPE FLUME PLAN AND PROFILE
- C-14 COTTONWOOD CREEK DETAILS

### PROJECT LOCATION:

#### CLIENT INFORMATION:

CLARK FORK RIVER AT DEER LODGE POWELL COUNTY, MONTANA

NATURAL RESOURCE DAMAGE PROGRAM 1720 9TH AVE. HELENA, MONTANA 59601

CLIENT PROJECT No.:

#### Tt PROJECT No.:

### 117-002166-24006 PROJECT DESCRIPTION / NOTES:

PROJECT GOALS INCLUDE IMPROVEMENTS TO DIVERSION STABILITY, FISH PASSAGE, ELIMINATION OF FISH ENTRAINMENT, COTTONWOOD CREEK CONNECTIVITY, AND REDUCTION IN IRRIGATION OPERATION DEMANDS.

- CONTONNOCO CREEK (CD. DE SIGN CRITERIA:

  \* PROVICE MINIMUM 12 CPS RINGATION WATER WITH 15 CPS IN CC ABOVE DIVERSION

  \* WITHSTAND CC PLOOD FORCES UP 10 1,730 CPS (1.0% ANNUAL-CHANCE, 0.100)

  \* MIRROWC COTTONNOCO CREEK CONNECTION TWIN DICTHOREGE (GRADE SEPARATION AND NEW DIVERSION

#### ISSUED: MAY 2025

DRAFT FOR REVIEW - MAY 2025

### VICINITY MAP: NOT TO SCALE







