



**US Army Corps
of Engineers®**
St. Paul District

Appendix L: Quality Control

Fargo Moorhead Metropolitan Area Flood Risk Management Project

Reach 2

Engineering and Design Phase

P2# 370365

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Appendix L: Quality Control

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ATTACHMENTS

None

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Appendix L: Quality Control

L.1 GENERAL

The Quality Management Plan (QMP) for Reach 2 can be found in Appendix E of the Reach Management Plan Reach 2. The Review Management Plan (RMP) can be found in Appendix F of the same document. The QMP and RMP define the types of reviews that will take place, the documents that will be reviewed, and specific points in the design process that the reviews will occur. The Review Plan for the overall Fargo Moorhead Metro (FMM) Flood Risk Management project was completed by the Project Management Team and approved by the Risk Management Center.

L.2 PROJECT DELIVERY TEAM

The Project Delivery Team (PDT) is an inclusive term that is meant to include all parties involved in the design, review, and approval of the products produced by a definable work effort; this includes USACE personnel, non-federal sponsor personnel, and in some instances key stakeholders. The members assigned have extensive professional and technical experience in their assigned areas of responsibility.

L.2.1 Project Delivery Team

Table 1: Project Delivery Team

Project Delivery Team				
NAME	DISTRICT / ORG	DISCIPLINE/ROLE	PHONE	EMAIL
Terry Williams	CEMVP-PM	PM-FMM	651-290-5517	terryl.l.williams@usace.army.mil
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Project Delivery Team				
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Ron Silver	CEMVR-RE	Real Estate	309-794-5506	ronald.silver@usace.army.mil
Dawn Linder	CEMVP-CT-C	Contracts	651-290-5407	dawn.m.linder@usace.army.mil

L.2.2 Technical Leads and Functional POCs

Table 2: Technical Leads and Functional POC's

Technical Leads and Functional POCs				
NAME	DISTRICT / ORG	DISCIPLINE/ROLE	PHONE	EMAIL
Gary Wolf	CEMVP-EC-D	Technical Lead Engineer	651-290-5288	gary.c.wolf@usace.army.mil
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Technical Leads and Functional POCs				
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	CEMVP- RE	Real Estate	651-290-	@usace.army.mil

L.2.3 District Quality Control (DQC) Team

Table 3: DQC Team

DQC Team				
NAME	DISTRICT / ORG	DISCIPLINE/ROLE	PHONE	EMAIL
George Staley	CEMVR-EC-HH	Channels and Hydraulic Structures	309-794-5318	George.C.Staley@usace.army.mil
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Frederick Joers	CEMVR-EC-DS	Structural	309-794-5248	Frederick.R.Joers@usace.army.mil

DQC Team				
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Kara Mitvalsky	CEMVR-EC-DN	Civil-Site, NPDES/SWPPP	309-794-5623	Kara.N.Mitvalsky@usace.army.mil
Richard Nickel	CEMVR-EC-D	Utilities and Relocations	309-794-5210	Richard.T.Nickel@usace.army.mil
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Ronald Silver	CEMVR-RE-P	Real Estate	309-794-5506	Ronald.Silver@usace.army.mil

L.2.4 Biddability Constructability Operability & Environmental (BCOE) Team

Table 4: BCOE Team

BCOE Team				
NAME	DISTRICT / ORG	DISCIPLINE/ROLE	PHONE	EMAIL
TBD	CEMVP-EC-C	TBD		
TBD	CEMVP-EC-C	TBD		

L.2.5 Agency Technical Review (ATR) Team

Table 5: ATR Team

ATR Team				
NAME	DISTRICT / ORG	DISCIPLINE/ROLE	PHONE	EMAIL
Mark Nelson	CENWO-PM-AA	ATR Leader	402-995-2703	Mark.E.Nelson@usace.army.mil
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Kathleen Englert	CENWO-CD-S-CM	Civil-Site, Layout & Utilities	402-995-2038	Kathleen.J.Englert@usace.army.mil
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Ron Beyer	CENWO-ED-HE	Hydrologic	402-995-2339	Ron.S.Beyer@usace.army.mil
Dan Pridal	CENWO-ED-DF	Channel Stability	402-995-2336	Daniel.B.Pridal@usace.army.mil
Lyle Peterson	CENWO-ED-DF	Structures	402-995-2161	Lyle.E.Peterson@usace.army.mil
Dan Otterby	CENWO-ED-DC	Electrical	402-995-2146	Daniel.Otterby@usace.army.mil
Michael Smith	CENWO-ED-DA	Mechanical	402-995-2133	Michael.T.Smith2@usace.army.mil

ATR Team				
Mike Jerina	CENWO-ED-DJ	Landscape/Architecture	402-995-2202	Mike.Jerina@usace.army.mil
Jim Neubauer	CENWW-EC-X	Cost/Value Engineering	509-527-7332	James.G.Neubauer@usace.army.mil
Steve Butler	CENWO-ED-GB	Geotechnical	402-995-2244	Steve.M.Butler@usace.army.mil
Stephen Graf	CENWO-CD-S-SM	Civil Site, Layout and Utilities	402-995-2036	Stephen.R.Graf@usace.army.mil
Roger Kay	CENWO-ED-HD	Channels and Hydraulic Structures	402-995-2342	Roger.L.Kay@usace.army.mil

L.2.6 Sponsor Representatives

Table 6: Sponsor Representatives

Sponsor Representatives				
NAME	ORGANIZATION	DISCIPLINE/ROLE	PHONE	EMAIL
Mark Bittner	City of Fargo	City Engineer	701-241-1572	mbittner@cityoffargo.com
April Walker	City of Fargo	Engineer	701 241-1554	awalker@cityoffargo.com
Bob Zimmerman	City of Moorhead	City Engineer	218-299-5390	bob.zimmerman@ci.moorhead.mn.us
Keith Berndt	Cass County	County Engineer		berndtk@casscountynd.gov
Tom Waters, P.E.	CH2MHill	Program Manager	571-296-5245	tom.waters@ch2mh.com
John Glatzmaier, P.E.	CH2MHill	Project Manager	651-253-5910	john.glatzmaier@ch2m.com
Rick Carson	CH2MHill / KGS Group	H&H and Geology	204-478-3237	rcarson@ksgsgroup.com
Leon Schieber	CH2MHill / Black & Veatch	Structures	913-515-8657	schieberla@bv.com

L.2.7 State Agency Representatives

Table 7: State Agency Representatives

State Agency Representatives				
NAME	ORGANIZATION	DISCIPLINE/ROLE	PHONE	EMAIL
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Tom Groshens	Minnesota DNR			tom.groshens@state.mn.us
Bruce Kreft	North Dakota GFP			bkreft@nd.gov

L.3 REVIEWS TO BE CONDUCTED REACH 2

L.3.1 District Quality Control (DQC) Review of PER Submittal

District Quality Control Reviews will be performed on all engineering and design products as required by EC-1165-2-209 and the Review Plan.

L.3.2 Agency Technical Review (ATR) of PER Submittal

Agency Technical Reviews will be performed on all engineering and design products as required by EC-1165-2-209 and the Review Plan.

L.3.3 Independent External Peer Review (IEPR)

Since Reach 2 is an initial product that will be designed to P&S level for the FMM Project, a Type II IEPR will be conducted on this Reach.

L.3.4 Lessons Learned and After Action Reviews

Prior to start of designs, Design Engineers will review lessons learned from available databases and files that are pertinent and will assure they are considered for incorporation into the engineering and design products being prepared.

L.3.5 Final Product Quality Review Certifications

Upon completion of each design product or deliverable, the Project Engineer will perform a final product quality review and prepare a quality review certificate.

L.4 REVIEW DOCUMENTATION

The attachments at the end of this Appendix document the status of the reviews that have occurred and will be updated as reviews are completed and closed out.