U.S. Department of Agriculture	NRCS	-CPA-52	IA Client Name Case C	County	Laint Matar Pasaurca Distric	.4
Natural Resources Conservation Service 11/2019			A. Client Name: Cass County Joint Water Resource District  B. Conservation Plan ID # (as applicable):			
ENVIRONMENTAL EVALUATION WORKSHEET			B. Conservation Plan ID # (as applicable): Program Authority (optional):			
D. Client's Objective(s) (pu	rpose): on is to reduce the flood risk for the 0	City of	C. Identification # (farm, tract, field #, etc. as required):			
	er inundation from the Rush River du					
E. Need for Action:  Amenia has historic flood risks	H. Alternatives		Alternative 1 √ if RMS		Alternative 2	
with overbank flooding from the	<b>No Action</b> $$ if RMS No change from existing conditions;		Alternative 1 $\sqrt{\text{if RMS}}$ Dike (356), would be constructed as		Alternative 2 $\sqrt{\text{if RMS}}$ Dike 362would be constructed on the	
Rush River, ice jams, and overland flooding.	current flooding conditions.		the north, west, and south sides of of Amenia to provide flood protectic residents during a 100-year, 24-hot event. A stormwater pond (378), p (533) and lined waterway (468) w developed for Levee Alternative 1 t capture floodwaters and runoff from approximately 180 surface acres w levee system.	on to ur oump ould be o	south side of the Rush River, approximately 0.13 miles north of the of Amenia. A stormwater pond wou developed for Levee Alternative 2 to capture floodwaters and runoff from approximately 860 surface acres in immediate vicinity of the levee preceptom draining directly to the river by construction.	ald be
	R	esou	rce Concerns			
	ze, record, and address conce			es Inve	entory process.	
(See FOTG Section III - Res F. Resource Concerns	ource Planning Criteria for gu	idance	a).			
and Existing/ Benchmark	No Action		Alternative 1		Alternative 2	
Conditions (Analyze and record the	Amount, Status, Description		Amount, Status, Description		Amount, Status, Description	
existing/benchmark	(Document both short and	does	(Document both short and	does	(Document both short and	does
conditions for each identified concern)	long term impacts)	meet PC	long term impacts)	meet PC	long term impacts)	meet PC
SOIL Wind erosion	No change from existing		Temporary and permanent		Temporary and permanent	
Wind erosion will occur during construction phase.	conditions.	NOT meet PC	impacts from construction activities due to compaction from heavy equipment could occur. Soil erosion may occur if areas of soil remain exposed and bare during and after construction activities. This willl be for a short dutration and alleveated once construction is complete.	NOT meet PC	impacts from construction activities due to compaction from heavy equipment could occur. Soil erosion may occur if areas of soil remain exposed and bare during and after construction activities.	NOT meet PC
Compaction	No change from existing conditions.		Compacted areas will be under the dike and no longer farmed and		Compacted areas will be under the dike and no longer farmed and	
Compaction will occur during construction phase.	COTIONS.	NOT meet PC	therefore no longer a resource concern. Areas affected by construction not under the dike will have compaction reduced due to cropping systems.	NOT meet PC	therefore no longer arresource concern. Areas affected by construction not under the dike will have compaction reduced due to cropping systems.	NOT meet PC
WATER Ponding and flooding	No change from existing		Reduced risk from 100-year flood		Reduced risk from 100-year flood	
Current history of flooding over numerous years.	conditions will result in continued environmental and property damages.	NOT meet PC	event for approximately 93 acres. Potential increased risk of flooding from completion of the levee system for approximately 72 additional acres. Overall decrease of flooding during a 100-year event for approximately 21 acres of land.	NOT meet PC	event for approximately 188 acres. An additional levee on the east side of the city of Amenia may be necessary. Potential increased risk of flooding from completion of the levee system for approximately 140 additional acres. Overall decrease of	NOT meet PC

F. Resource Concerns	I. (continued)					
and Existing/ Benchmark	No Action		Alternative 1		Alternative 2	
Conditions (Analyze and record the existing/benchmark conditions for each identified	Amount, Status, Description  (Document both short and long term impacts)	√ if does NOT meet PC	Amount, Status, Description  (Document both short and long term impacts)	√ if does NOT meet PC	Amount, Status, Description  (Document both short and long term impacts)	√if does NOT meet PC
concern) Sediment transported to surface water	No change from existing		Potential impacts from		Potential impacts from sediment	
Rush River is listed as impaired for fecal coliform, fish bioassessments, physical substrate habitat alteraions, and sedimentation/siltation.	conditions.	NOT meet PC	sedimentation/siltation of downstream waterways during construction activities and until soils are stabilized; potential reduction in downstream sediment/nutrient delivery during stormwater pond operations.	NOT meet PC	and sediment-related pollutants within or adjacent to the Rush River floodplain during construction activities and until soils are stabilized; potential reduction in downstream sediment/nutrient delivery during stormwater pond operations.	NOT meet PC
AIR						
No resource concern identified		NOT meet PC		NOT meet PC		NOT meet PC
		NOT meet PC		NOT meet PC		NOT meet PC
PLANTS						
Invasive Species  Two noxious weed species were identified within the study area:  Canada thistle (Cirsium arvense) and leafy spurge (Euphorbia esula).	Noxious weeds will contiue to be present with no management.	NOT meet PC	Potential impacts from soil disturbance and importing soil-carrying weed seeds during construction activities. Weeds will be controlled after project installation.	NOT meet PC	Potential impacts from soil disturbance and importing soil-carrying weed seeds during construction activities. Weeds will be controlled after project installation.	NOT meet PC
		NOT meet PC		NOT meet PC		NOT meet PC
		NOT meet PC		NOT meet PC		NOT meet PC
ANIMALS						
Aquatic habitat for fish and other organisms Existing habitat includes agricultural areas, river, and small wetlands.	No change from existing conditions.	NOT meet PC	Removal of trees, increased noise, and human activity during construction of the levee system could impact habitat or disrupt some wildlife species. The stormwater pond could provide additional habitat for some fish and wildlife species.	NOT meet	Removal of trees from within the riparian area along the Rush River could alter habitat for some fish and wildlife species. Temporary impacts could occur from increased noise and human activity. The stormwater pond could provide additional habitat for some fish and wildlife species.	NOT meet PC
		NOT meet PC		NOT meet PC		NOT meet PC
ENERGY						
No resource concern identified		NOT meet PC		NOT meet PC		NOT meet PC
		NOT meet PC		NOT meet PC		NOT meet PC

F. Resource Concerns	. (continued)					
and Existing/ Benchmark	No Action		Alternative 1		Alternative 2	
Conditions (Analyze and record the existing/benchmark conditions for each identified	Amount, Status, Description  (Document both short and	does NOT meet	Amount, Status, Description  (Document both short and	√ if does NOT meet	Amount, Status, Description  (Document both short and	does NOT meet
concern)	long term impacts)	PC	long term impacts)	PC	long term impacts)	PC
Human Economic and Soci Public Health and Safety Access to emergency services can be impeded or delayed due to road closures and detours associated with flooding.	No change from exising conditions.		Reduced risk from 100-year flood events would minimize future road closures, delays, and detours within the levee system. Placement and removal of temporary levees over the road and railroad crossings would briefly restrict access for emergency services. Approximately 72 additional acres outside of the levee system would be at greater risk from flooding.		Reduced risk from 100-year flood events would minimize future road closures, delays, and detours within the levee system. Approximately 140 additional acres would be at greater risk from flooding as a result of the construction of the levee system.	
Social Issues Social issues centered on agriculture	No change from exising conditions. The city of Amenia would not be eligible for exemption from purchasing flood insurance.		Temporary disruption of transportation systems and agricultural practices during construction activities. Residents and businesses within the levee system would be exempt from purchasing flood insurance.		Temporary disruption of transportation systems and agricultural practices during construction activities. Residents and businesses within the levee system would be exempt from purchasing flood insurance.	
Other Amenia Park and snowmobile in APE.	No change from exising conditions.		Construction of the levee system would protect Amenia Park from 100-year flood events. Approximately 0.2 miles of an existing snowmobile trail would be impacted by placement of the levee system.		Compared to Levee Alternative 1, protections for Amenia Park would be less for future 100-year flood events. Impacts to the snowmobile trail are not anticipated.	
Land Use Periodic flooding conditions would continue to impact infrastructure and exisisting land uses.	No change from exising conditions.		Construction impacts: Permanent re of approximately 4 acres of prime farmland and approximately 0.9 acr forested land. Temporary impacts to approximately 37 acres of prime far are anticipated during construction. Operational impacts: Flood protective 48 properties within the city of Ame Permanent modifications would be required to three road crossings and railroad crossing.	es of o mland on for nia.	Construction impacts: Permanent nof approximately 8 acres of prime farmland and approximately 0.3 acr forested land. Temporary impacts t approximately 11 acres of prime fa are anticipated during construction. Operational impacts: Flood protect 48 properties within the city of Ame	res of to rmland tion for
Other Local traffic and agriculture related noise in APE.	No change from exising conditions.		Temporary construction-related noise impacts anticipated.		Temporary construction-related noise impacts anticipated.	
In Section "G" complete an require a federal permit or o effects may need to be dete practices not involved in co	d attach Environmental Proce consultation/coordination bet ermined in consultation with a	edures ween t inothe	Onmental Laws, Executi Guide Sheets for documentat the lead agency and another g r agency. Planning and practi tal Concerns  Alternative 1	ion as	applicable. Items with a "•" ment agency. In these cases,	
(Document existing/	Document all impacts	√ if	Document all impacts	√ if	Document all impacts	√if
benchmark conditions)	(Attach Guide Sheets as applicable)	needs further action	(Attach Guide Sheets as applicable)	needs further action	(Attach Guide Sheets as applicable)	needs further action
Clean Air Act Guide Sheet North Daktoa has no identified non-attainement areas.	NA		NA		NA	
Clean Water Act / Waters of the U.S. Guide Sheet	No change from existing conditions.		May Effect If wetlands identified as being impacted by the project are deemed as jurisdictional by the USACE, a 404 permit would be necessary.		May Effect If wetlands identified as being impacted by the project are deemed as jurisdictional by the USACE, a 404 permit would be necessary.	
Coastal Zone Management     Guide Sheet Not applicable to North Dakota	NA		NA		NA	
Coral Reefs <i>Guide Sheet</i> Not applicable to North Dakota	NA		NA		NA	

G. Special Environmental	J. Impacts to Special Enviro	nmen	tal Concerns			
Concerns	No Action		Alternative 1		Alternative 2	
(Document existing/ benchmark conditions)	Document all impacts (Attach Guide Sheets as applicable)	√ if needs further action	Document all impacts (Attach Guide Sheets as applicable)	√ if needs further action	Document all impacts (Attach Guide Sheets as applicable)	√ if needs further action
Cultural Resources / Historic Properties     Guide Sheet	No Effect No change from existing conditions.		May Effect Known sites present. A Class II or III field survey will be needed to be conducted during permitting to avoid or minimize potential impacts.		May Effect Known sites present. A Class II or III field survey will be needed to be conducted during permitting to avoid or minimize potential impacts.	
◆Endangered and Threatened Species  Guide Sheet According to USFWS, the following federally-listed species could be present in APE and it's vicinity: whooping crane (federally endangered), , and northern long-eared bat (federally threatened).	No Effect No change from existing conditions.		No Effect According to USFWS, the following federally-listed species could be present in APE and it's vicinity: whooping crane (federally endangered), and northern long- eared bat (federally threatened). Unlikely potential effect on northern long-eared bats from removing trees that serve as habitat. Temporary impacts from increased noise and human activity during construction could disrupt whooping crane and gray wolf in the unlikely event they are present within the vicinity of the levee system. USFWS Programmatic will be followed.		No Effect According to USFWS, the following federally-listed species could be present in APE and it's vicinity: whooping crane (federally endangered),, and northern long- eared bat (federally threatened). Unlikely potential effect on northern long-eared bats from removing trees that serve as habitat. Temporary impacts from increased noise and human activity during construction could disrupt whooping crane and gray wolf in the unlikely event they are present within the vicinity of the levee system. USFWS Programmatic will be followed.	
Environmental Justice Guide Sheet	No Effect Based on the EJScreen review, the study area does not qualify for environmental justice considerations as either a minority or low-income population.		No Effect Based on the EJScreen review, the study area does not qualify for environmental justice considerations as either a minority or low-income population.		No Effect Based on the EJScreen review, the study area does not qualify for environmental justice considerations as either a minority or low-income population.	
•Essential Fish Habitat  Guide Sheet	No Effect No Essential Fish Habitat in vicinity.		No Effect No Essential Fish Habitat in vicinity.		No Effect No Essential Fish Habitat in vicinity.	
Floodplain Management Guide Sheet	No Effect Existing flooding conditions would continue.		No Effect There would be an overall decrease of land flooded during a 100-year flood event.		No Effect There would be an overall decrease of land flooded during a 100-year flood event. No Effect	
Invasive Species Guide Sheet	No Effect No change from existing conditions.		No Effect		INO Effect	
Migratory Birds/Bald and Golden Eagle Protection Act Guide Sheet	No change from existing conditions.		May Effect The alternatives may remove suitable habitat for migratory birds as a result of tree removal. However, no take of migratory birds, including eagles is anticipated. No bald or golden eagles or nests have been identified in the vicinity USFWS programmatic will be followed		May Effect The alternatives may remove suitable habitat for migratory birds as a result of tree removal. However, no take of migratory birds, including eagles is anticipated. No bald or golden eagles or nests have been identified in the vicinity. USFWS Programmatic Agreement will be followed.	
Natural Areas <i>Guide Sheet</i>	No Effect No designated natural areas present.		No Effect No designated natural areas present.		No Effect No designated natural areas present.	

G. Special Environmental	J. Impacts to Special Enviro	onment	tal Concerns			
Concerns	No Action		Alternative 1		Alternative 2	
(Document existing/	Document all impacts	√if	Document all impacts	√if	Document all impacts	√if
benchmark conditions)	(Attach Guide Sheets as	needs further	(Attach Guide Sheets as	needs further	(Attach Guide Sheets as	needs further
	applicable)	action	applicable)	action	applicable)	action
Prime and Unique Farmlands	No Effect		May Effect		May Effect	
Guide Sheet	No change from existing conditions.		The majority of Amenia is classified as prime farmland or		The majority of Amenia is classified as prime farmland or	
	conditions.		prime farmland if drained. There is		prime farmland if drained. There is	
			no way to avoid prime farmland in		no way to avoid prime farmland in	
			placement of the levee system.		placement of the levee system.	
			Construction of the levee would		Construction of the levee would	
			result in permanent removal of approximately 4 acres of prime		result in permanent removal of approximately 8 acres of prime	
			farmland.Construction impacts:		farmland. Construction impacts:	
			Permanent removal:		Permanent removal:	
			- 7 acres cultivated cropland		- 7 acres cultivated cropland	
			- 4 acres prime farmland Temporary impact during		- 4 acres prime farmland Temporary impact during	
			construction:		construction:	
			- 43 acres cultivated cropland		- 43 acres cultivated cropland	
			- 37 acres prime farmland		- 37 acres prime farmland	
			Operational impacts:		Operational impacts: Flood protection for approximately	
			Flood protection for approximately 31 acres of cultivated cropland,		31 acres of cultivated cropland,	
			including 64 acres of prime		including 64 acres of prime	
			farmland, and 11 acres of prime		farmland, and 11 acres of prime	
			farmland if drained and increased		farmland if drained and increased	
			risk to approximately 55 acres of cultivated cropland, including 40		risk to approximately 55 acres of cultivated cropland, including 40	
			acres of prime farmland, and 17		acres of prime farmland, and 17	
			acres of prime farmland if drained		acres of prime farmland if drained	
			outside the levee system. During		outside the levee system. During	
			operation of the levee a net		operation of the levee a net	
			increase of 24 acres of prime farmland would be protected from		increase of 24 acres of prime farmland would be protected from	
			100-year flood events.		100-year flood events.	
					•	
Riparian Area	No Effect	<b>!</b>	May Effect		May Effect	
Guide Sheet Riparian Area is in the APE.	No change from existing conditions.		Tree clearing in the riparian area would be required during		Direct and indirect impacts to riparian areas include tree clearing	
Mpanan Alea is in the Al L.	conditions.		construction.		and other vegetation removal for	
					the construction of the levee	
					system.	
Scenic Beauty	No Effect		No Effect		No Effect	
Guide Sheet	No change from existing conditions.					
Wilder			M F#4		M F#	
●Wetlands  Guide Sheet	No Effect No change from existing		May Effect Loss in wetland acreage and		May Effect Approximately 0.56 acres of	
Suido Orioci	conditions.	╽Ш	wetland function will be mitigated	Ш	permanent wetland impacts and	Ш
			off site through a Ducks Unlimited		approximately 1.59 acres of	
			wetland mitigation bank. The 0.56		temporary impacts are anticipated	
			acres of permanently impacted		from construction activities. Operation of the levee would	
			wetlands will be replaced at a 2:1 ratio. A total of 1.12 acres of		remove approximately 1.1 acres of	
			wetland credits will be purchased.		wetlands from flooding from a 100-	
					year event while potentially	
					increasing flooding on	
					approximately 0.2 additional acres.	
					40,00.	
●Wild and Scenic Rivers	No Effect		No Effect		No Effect	
Guide Sheet	No Wild and Scenic Rivers in		No Wild and Scenic Rivers in		No Wild and Scenic Rivers in	
Not applicable to private land in North Dakota	vicinity.	_	vicinity.		vicinity.	
. ISTAT BAROLA						

C Other Age		No Action	Alternative 1	Alternative 2
asements, Pem Review, or Permi and Agencies Co	its Required			
Cumulative Effect Describe the cumpacts consider lest, present and actions regardles performed the actions are considered the actions are considered the actions are the considered the actions are the actions actions actions are the actions actions actions actions actions the actions actions the actions actions the actions actions actions the actions actions the the actions actions the actions actions the actions actions the actions the actions actions the actions actions the actions the actions the actions the actions the actions the actions the actions the the actions the actions the actions the	mulative red. including I known future as of who	As a result of the scoping process discussions with resource agencie interested groups, no past, preser reasonably foreseeable projects the would result in cumulative impacts identified for this project.	s and discussions with resource agencies a t, or interested groups, no past, present, o reasonably foreseeable projects that	nd discussions with resource agencies and interested groups, no past, present, or reasonably foreseeable projects that would result in cumulative impacts were identified for this project. However, a
Mitigation Record actions Inimize, and co				
M. Preferred	v preferred			
Alternative	Supporting reason		Alternative 1 meets the purpose and in that it provides a certified levee system allowing the residents of the city of A an exemption from purchasing federal flood insurance and a reduction in rist from a 100-year flood event. Alternate hances environmental quality by removing the risk of property and infrastructure damage within the city Amenia, providing continued floodpla management, and reducing sediment nutrient runoff with the incorporation of stormwater pond and buffer strips. Additionally, Alternative 1 cost estimate lower than Alternative 2-	stem, menia I c c vive 1 of in and
I. Contaxt (F	lecord contaxt	of alternativas analysis)	City of Amenia City of A	menia City of Amenia
	ce of an action sts, and tha lo		ontexts such as sociaty as e whola (huma	n, national), the affected region, the
n the casa wh	era a non-NR0 o verify the inf		s form is accurate and completa: with planning thay are to sign the first sign  Title	nature block and then NRCS is to sign the
TODD SCHWAGLER Digitally signed by TODD SCHWAGLER Date: 2020.06.16 07:34:46-05'00'		State Resource Conservation	nist 4/2/2020	
	Signature (NRCS)		Title	Dete

## The following sections are to be completed by the Responsible Federal Official (RFO) NRCS is the RFO if the action is subject to NRCS control and responsibility (e.g., actions financed, funded, assisted, conducted, regulated, or approved by NRCS). These actions do not include situations in which NRCS is only providing technical assistance because NRCS cannot control what the client ultimately does with that assistance and situations where NRCS is making a technical determination (such as Farm Bill HEL or wetland determinations) not associated with the planning process. P. Determination of Significance or Extraordinary Circumstances To answer the questions below, consider the severity (intensity) of impacts in the contexts identified above. Impacts may be both beneficial and adverse. A significant effect may exist even if the Federal agency believes that on balance the effect will be beneficial. Significance cannot be avoided by terming an action temporary or by breaking it down into small component parts. If you answer ANY of the below questions "ves" then contact the State Environmental Liaison as there may be extraordinary circumstances and significance issues to consider and a site specific NEPA analysis may be required. Yes Is the preferred alternative expected to cause significant effects on public health or safety? **V** Is the preferred alternative expected to significantly affect unique characteristics of the geographic area such as proximity **V** П to historic or cultural resources, park lands, prime farmlands, wetlands, wild and scenic rivers, or ecologically critical П $\overline{\phantom{a}}$ Are the effects of the preferred alternative on the quality of the human environment likely to be highly controversial? Does the preferred alternative have highly uncertain effects or involve unique or unknown risks on the human П $\sqrt{\phantom{a}}$ environment? Does the preferred alternative establish a precedent for future actions with significant impacts or represent a decision in $\overline{}$ principle about a future consideration? Is the preferred alternative known or reasonably expected to have potentially significant environment impacts to the quality П $\checkmark$ of the human environment either individually or cumulatively over time? П **V** Will the preferred alternative likely have a significant adverse effect on ANY of the special environmental concerns? Use the Evaluation Procedure Guide Sheets to assist in this determination. This includes, but is not limited to, concerns such as cultural or historical resources, endangered and threatened species, environmental justice, wetlands, floodplains, coastal zones, coral reefs, essential fish habitat, wild and scenic rivers, clean air, riparian areas, natural areas, and invasive species Will the preferred alternative threaten a violation of Federal, State, or local law or requirements for the protection of the 4 environment?

Q. NEPA Co	mpliance Finding (check one) d alternative:		Action required
	1) is not a federal action where the agency has	control or responsibility	Document in 'R, I' below No additional analysis is required
	<ol> <li>Is a federal action ALL of which is categorical analysis AND there are no extraordinary circumon.</li> </ol>		Document in "R.2" below. No additional analysis is required
-	is a federal action that has been sufficiently regional, or national NEPA document and there environmental effects or extraordinary circumsta.	are no predicted pronificant adverse	Document in "R.1" below. No additional analysis is required:
	4) is a federal action that has been sufficiently ar NEPA document (EA or EIS) that addresses the and has been formally adopted by NRCS. NR own Finding of No Significant Impact for an EA o adopting another agency's EA or EIS document. FSA)	proposed NRCS action and its effects CS is required to prepare and publish its r Record of Decision for an EIS when	Contact the State Environmental Lieison for lat of NEPA documents formally adopted and available for tiening. Document in "R-1" below. No additional analysis is required.
V	it a federal action that has NOT been sufficie significant adverse environmental effects or extra ah EA or EIS.		Contact the State Environmental Lisison Further NEPA analysis required.
R. Rationale	Supporting the Finding		
Findings Doc R.2 Applicable Ca Exclusion(s) (more than one	itegorical		
excluded under this section, the	bpart 650.6  ilusions states  ning that a  is categorically  paragraph (d) of  proposed action  ideboard criteria		
	dered the effects of the alternatives on the Reso tal Concerns, and Extraordinary Circumstances ated above.		
	of Responsible Federal Official:  D SCHWAGLER Digitally signed by TODD SCHWAGLER Date: 2020.0616 07:35:21-05'00'	State Resource Conservationist	4/2/2020
	Signature	Title	Date
	AND SECURE LAND SECURE		
	Ad	ditional notes	