404 Permit Application

Platte River Recovery Implementation Program State Channel Re-Activation Project

Section 21, T14N, R130W, Lincoln County, Nebraska

EA Project No. 1482203 USACE Project #2012-02846



EA, Engineering, Science, and Technology, Inc. 221 Sun Valley Blvd, Suite D Lincoln, Nebraska 68521 (402) 476-3766

June 2014

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SUPPLEMENTAL INFORMATION FOR THE
DEPARTMENT OF THE ARMY PERMIT (33 CFR 325)
CLEAN WATER ACT, SECTION 404, 33 USC 1344
PERMIT APPLICATION TO THE
UNITED STATES ARMY CORPS OF ENGINEERS

Platte River Recovery Implementation Program
State Channel Re-Activation Project
Application Version 2.0
USACE File #2012-02846-KEA

The following information is being submitted in support of the application for a Section 404 permit for the Platte River Recovery Implementation Program's (Program) North Platte State Channel Re-activation Project located north of North Platte, Nebraska. The project area is west of Highway 83 on the north side of the main Platte River channel (see Figure 1, Appendix A). The project is sponsored by the Program and is located on private property. The standard application form (ENG FORM 4345) was used when possible (attached); however, in order to provide enough details on the proposed project, additional space was needed to provide the information required. This document is organized generally to reflect the same structure outlined in ENG FORM 4345.

1.0 INTRODUCTION

In 1997, the states of Colorado, Wyoming, and Nebraska and the U.S. Department of Interior came together in a unique partnership to develop a shared approach to managing the Platte River. Water users from the three states and conservation groups joined the effort, and together these stakeholders developed an innovative approach to better manage the Platte River for the health of the ecosystem and the people that depend on it. These stakeholders entered into a Cooperative Agreement and established a Governance Committee, which consisted of the signatories, water user groups, and environmental organizations, to develop the basin-wide, cooperative Platte River Recovery Implementation Program (Program). The Program is the culmination of that planning effort and is focused on implementing this shared vision for restoration of the Platte River. The Program focuses on "target species"; that is, threatened or endangered species in the Central and Lower Platte River Basin — whooping crane, piping plover, interior least tern, and pallid sturgeon.

The Bureau of Reclamation and the United States Fish and Wildlife Service (USFWS) released the Program's Final Environmental Impact Statement for public review and filed it with the United States Environmental Protection Agency (USEPA) on May 18, 2006. Following public review, a Record of Decision, signed on September 27, 2006, approved the Program.

The overall Program purpose is to offset some of the impacts to the target species and their habitat located in the Central and Lower Platte River corridor. Impacts caused by historic, current, and future water-related activities would be mitigated through the implementation of land and water management actions which result in target species habitat restoration, creation, and/or enhancement.

The Program will perform the following:

 Assist in the conservation and recovery of the target species in the Platte River Basin and thereby provide Endangered Species Act (ESA) regulatory compliance for effects to the target species' river habitats from existing and certain new water-related activities that deplete water from the Platte River upstream of the Loup River confluence. • Provide a means to ensure that future water uses in the Platte River Basin do not undermine the habitat and species benefits and are in compliance with ESA.

Help prevent the need to list more species under the ESA.

This project, like many of the Program's projects throughout Nebraska, provides another incremental step to achieving the overall Program purpose. A specific project purpose and project need is described below for the State Channel re-activation.

2.0 PROPOSED PROJECT

The 'State Channel' was created by the Nebraska Department of Roads (NDOR) around 1970 to direct flow in the 'North River Road Channel' into the 'State Channel' and towards the North Platte River as seen in Figure 1. The berm that restricted flow in the North River Road Channel to direct flow to the State Channel was breached in the early 1990's and a portion of the berm was also removed by an unknown source. Breaching the berm effectively cut off the State Channel, and resulted in flow continuing east in the North River Road Channel towards the flood-prone properties along North River Road. Partial re-activation of the State Channel was achieved in May 2012 through disking at the head of the State Channel, with flow naturally clearing disked material and diverting into the State Channel.

The overall design objective of the State Channel Re-Activation Project is to direct high flows from the North River Road Channel into the State Channel in order to increase flows though this reach up to 3,000 cfs without increasing flood impacts to properties along the river.

The flow distribution between the State Channel and the North River Road Channel needs to be controlled to allow a small amount of flow to continue east in the North River Road Channel while high flows are diverted back to the North Platte River via the State Channel.

The combined maximum design flow rate for the North River Road Channel and the State Channel is 200 cfs. According to modeling completed by the Program, approximately 200 cfs is routed to the North River Road Channel when the North Platte River is conveying 3,800 cfs.

The North River Road Channel flows downstream of the State Channel and State Channel flows were estimated using HydroCAD. As presently designed, flow rates at or below 4 cfs will continue down the North River Road Channel only and would not enter the State Channel. As the flow increases in the North River Road Channel above 4 cfs, flow would begin to be diverted starting at the location of the berm south through the State Channel and to the North Platte River.

As presently designed, when the North Platte River is at 3,800 cfs, 186 cfs would be diverted to the State Channel and 14 cfs would be conveyed through the North River Road Channel for a combined capacity of 200 cfs.

Table 1 below displays the dimensions of the berm as currently proposed. The proposed berm extension and enhancement will be constructed with native soil. Work will be completed using typical earth moving equipment such as a dozer, backhoe, skid loader, etc.

Figures 2-9 in Appendix A display several modeling scenarios completed by the Program at varying flow velocities (1,560, 2.400, 3,000 and 3,300 cfs), with and without the berm in place.

Table 1: Berm Dimensions

Berm Extending to the North River Road			
Berm Top Width	4' Min.		
Top of Berm Elevation	2807.5'		
Berm Length	500'		
Berm Across North River Road Channel			
Berm Top Width	12' Min.		
Top of Berm Elevation	2807.5'		
Maximum Berm Height	4'		
Berm Length	200'		
Pipe Diameter 18"			
State Channel Berm			
Berm Width	4' Min.		
Beginning Top of Berm Elevation	2807.5'		
End Top of Berm Elevation	2803.7'		
Berm Length	2250'		

3.0 PROJECT PURPOSE AND NEED

3.1 Purpose

The purpose of this project is to increase the ability of the North Platte River to convey 3,000 cfs without increasing identified flooding conditions upstream of the Highway 83 bridge by reconstructing the State Channel berm to redirect high-flow events from the North River Road Channel south through the State Channel to the North Platte River.

An existing berm was created by the NDOR around 1970 to define a flow path, referred to as the 'State Channel'. The berm directed flow in the 'North River Road Channel' into the 'State Channel' and on to the North Platte River. The portion of the berm that restricted flow in the North River Road Channel to direct that flow to the State Channel was breached in the early 1990's. Breaching the berm effectively cut off the State Channel, and resulted in flow continuing east in the North River Road Channel towards the properties along North River Road.

The conveyance of this reach has generally been decreasing over time. The naturally decreasing conveyance further impacts the Program's ability to pass Environmental Account water from Lake McConaughy without impacting these properties.

3.2 Need

The project is needed to improve the operations of the Environmental Account by increasing the ability of the North Platte River to convey 3,000 cfs without creating increased flood risk. Flows of this magnitude from the Environmental Account are required by the Program to maintain and enhance habitat downstream of the Highway 83 Bridge for threatened and endangered species.

Nebraska's Environmental Account was established as part of Project 1417 Federal Energy Regulatory Commission License and is an account of water in Lake McConaughy available for release for the benefit of the target species and is controlled by USFWS in cooperation with the Program. The ability of the Environmental Account to meet those purposes is currently constrained by the channel capacity of the North Platte River near North Platte, Nebraska.

4.0 ADDITIONAL ALTERNATIVES CONSIDERED

Over the last ten years the Program has evaluated and considered several additional alternatives that would improve the ability of the North Platte River to convey 3,000 cfs without increasing identified flooding conditions upstream of the Highway 83 bridge. Below is a brief summary of each of the past actions or considerations.

Choke Point Vegetation Treatment

The Program began disking, shredding, mowing, and spraying herbicide on vegetation above and below the Highway 83 bridge in 2007 continuing through 2012. This action did not have a sufficient nor permanent impact on conveyance.

Channel Restoration

In July 2007, the Program evaluated restoration and enhancement of historic natural channels of the North Platte River floodplain upstream of the State Channel through removal of common reed (*Phragmites australis*). The project intent was to remove Phragmites either chemically or mechanically in designated areas and to re-open the identified natural channels by re-grading these channels 6-18 inches deep by 20-30 feet wide. The re-grading portion of this project was not implemented as naturally occurring high flows accomplished much of the channel re-opening desired.

Sediment Collector

The Program evaluated options to install sediment collectors upstream of the Highway 83 Bridge, which would essentially remove sediment without dredging. The operation and maintenance of a sediment collection system was not practical for this location.

Dredging

In September 2012, the Program compared several dredging alternatives to determine optimal dredging location, amount, and dimensions using 1-D sediment transport hydraulic modeling. The purpose of dredging would be to decrease the water surface elevation and increase hydraulic capacity at the Program's goal of 3,000 cfs. Cost estimates for the most effective dredging alternative were \$1.6 M and would have required removal of 230,000 cubic yards of material. Modeling indicated that dredging at this level would be required at a frequency of once every three to five years.

Dredging with Jetties

The Program also evaluated an alternative including dredging and installation of 19 small jetties downstream of Highway 83 making a narrower low flow channel. The intent was to increase velocity though the reach thereby making the reach self-scouring and reducing the need for repeated dredging. The advantage gained at low flows was overshadowed by the increased stage at higher flows such as 50-to 100-year flows. This alternative has not been evaluated further at this time.

Property Buyouts

In August 2012 the Program met with several property owners affected by the flooding to gage interest and determine the likelihood of buyouts. There has been no action towards property buyouts at this time beyond this meeting.

5.0 RESPONSE TO USACE LETTER, APRIL 2, 2013

During the initial permit application correspondence was received from the USACE project manager on April 2, 2013, with several detailed questions. Answers to these questions are summarized below, except for a description of the berm dimensions, which have been listed above in the project description (see Table 1).

1. How will the bridge and the south stream bank be impacted by higher flows?

The flow from the North River Road Channel flows into the North Platte River west of the bridge and therefore the bridge hydraulics will not be impacted by a partial diversion of the North River Road Channel.

The State Channel outlets approximately 1,500 feet north of the North Platter River's south bank. The impact of the flow diverted to the river through the State Channel will be completely dissipated in far less distance.

2. Will higher flows in the main channel cause a deepening of that channel? If this is the case, will this cause stream bank erosion?

According to modeling completed by the Program, diverting flow from the North River Road Channel will increase North Platte River flows at the State Channel outlet by 6 percent. This minor increase will not increase river velocities enough to alter the current dynamics of the river.

3. Will the wetlands downstream of the dike (north side of the main channel) be impacted; if so, how many acres? How will they be impacted? How will the impacts be mitigated?

Based upon the wetland delineation completed by EA on October 4, 2012, at the location of the State Channel berm, there is a strong presence of hydrology at the site due to a high water table. At that time, two wetland sample points towards the south side of the berm recorded very shallow depths to groundwater (SP-1 @ 25 inches and SP-2 @ 13 inches). Based upon the adjacency to the North Platte River it is assumed that wetland hydrology exists throughout this area due to high groundwater levels.

Therefore, considering the majority of the original State Channel berm is intact, and that the footprint of the original berm will be expanded only slightly, minimal, if any, impacts are expected to occur to the existing downstream wetlands due to the strong presence of groundwater hydrology. In addition, the project design allows base flows in the North River Road Channel to continue through the berm and will convey up to 14 cfs during high flow events, thus allowing the hydrology of the North River Road Channel to remain intact.

Pre and post project hydrologic modeling has also been completed estimate impacts to surface hydrology. Based upon the modeling results, it appears that backwater flooding will occur throughout most of the area post-construction. Table 2 displays the total area of surface water inundation that would be anticipated based on modeling results within the area identified in the April 2, 2013 as the functional assessment boundary. The total area of the functional assessment area is 140 acres.

Table 2: Surface Water Inundation

Flow Scenario (cfs)	Berm Presence	Inundation Area (acres)	Percent Area	% Difference with Berm
1 560	With	43.2	31%	-6%
1,560	Without	52.1	37%	
2 400	With	74.7	54%	-9%
2,400	Without	87.2	62%	
2 000	With	87.4	63%	-12%
3,000	Without	103.6	74%	
2 200	With	100.3	72%	-12%
3,300	Without	117.4	84%	

As seen in Table 2, the total area inundated is reduced between 6 to 12% post-project, thus the majority of the area within the functional assessment area will remain hydrologically connected to low-flow flood waters. It is assumed the remaining area will become saturated though high groundwater levels.

At this point the Program has discussed potential compensatory mitigation alternatives for the 2.76 acres of wetlands anticipated to be impacted by the berm footprint. There is currently no plan for wetland mitigation; however, the Program will be ready to discuss compensatory mitigation when that time arrives.

4. If a permit is issued and if the project is completed, will there be any plan to monitor the impacts of the dike? How/how often will the site be monitored after target flows/high flows have passed? What type of data will be gathered?

If a permit issued, the Program will create a monitoring plan utilizing all tools available in the area. The Program currently has several monitoring wells around the project site and also has stream gage stations in place above and below the proposed CMP in the North River Road Channel. The Program has been gathering water level data for both groundwater and surface water and can use this information as a baseline to be compared to post-construction flows and groundwater level conditions. Monitoring locations are shown in Figure 1 in Appendix A. Following construction, the Program could also monitor downstream wetlands for potential impacts.

6.0 DISCHARGE MATERIRAL AND IMPACTS

Native onsite soil will be used to make improvements to the State Channel berm. There will not be any fill material brought into the area from offsite locations to complete construction. Discharge of fill is unavoidable in order to complete construction. An estimate of permanent impacts is provided in the tables below. Temporary impacts would be expected but have not been estimated at this point in time.

The berm improvements will require onsite soil and small quantities of riprap around the 18-inch CMP within the North River Road Channel. The estimated fill quantities are as follows:

Table 3: State Channel Project Impact Quantities

Location	Description	Estimated Fill Quantity (CY)	Material
1	North River Road Channel Extension	105	Soil
2	North River Road Channel Berm	325	Soil
3	State Channel Berm	655	Soil
4	North River Road Channel CMP Erosion Control	40	Rip-rap
Total		1,125	

Table 4: State Channel Project Impact Area

Location	Description	Impact Area (Acres)
1	North River Road Channel Extension	0.16
2	North River Road Channel Berm	0.19
3	State Channel Berm	2.40
4	North River Road Channel CMP Erosion Control	0.01
Total		2.76

The total estimated impact for the project over totals 2.76 acres based on the preliminary design. The lengths and widths shown in Figure 1 in Appendix A are approximate.

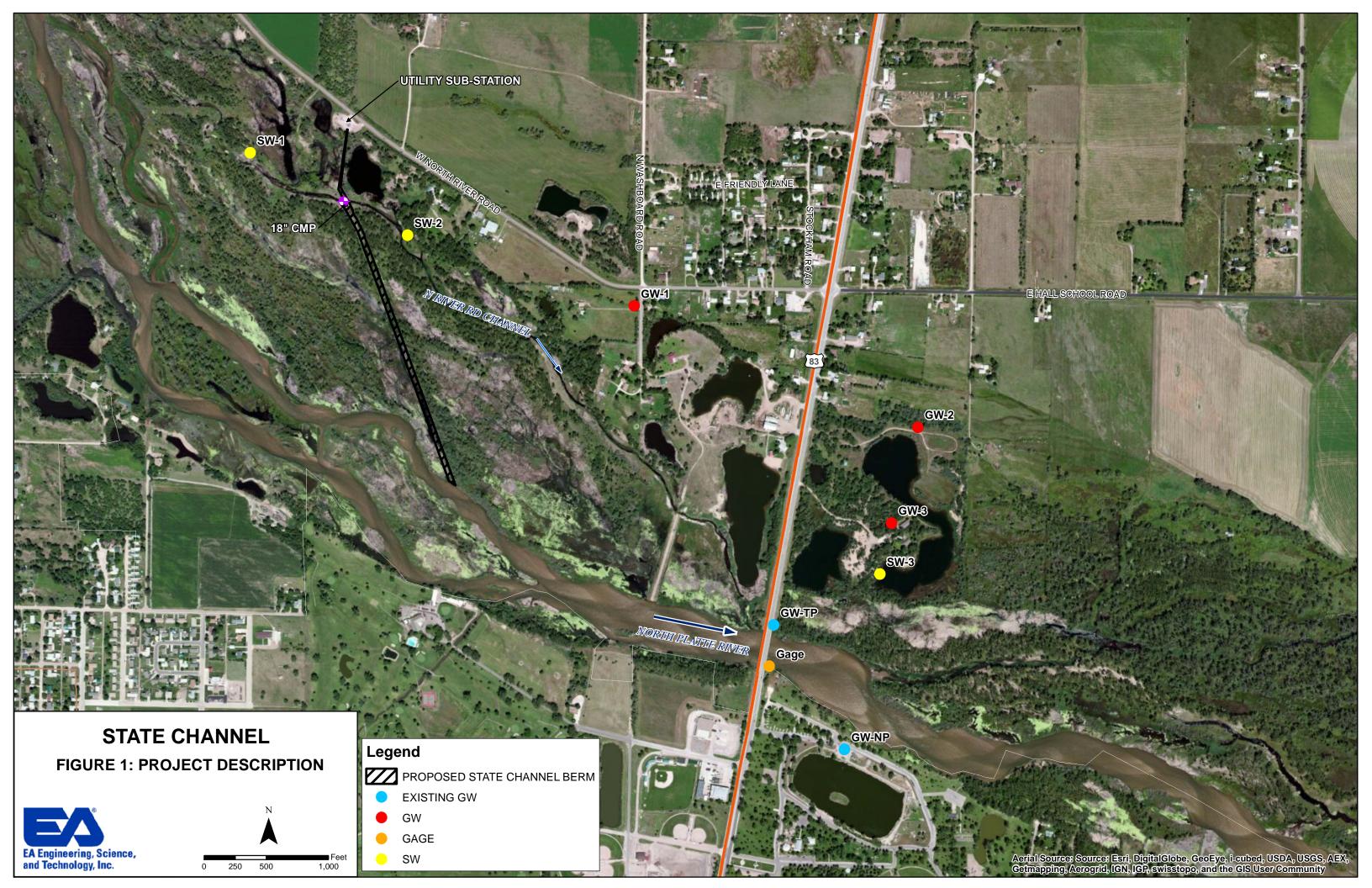
7.0 AVOIDANCE, MINIMIZATION, & COMPENSATION

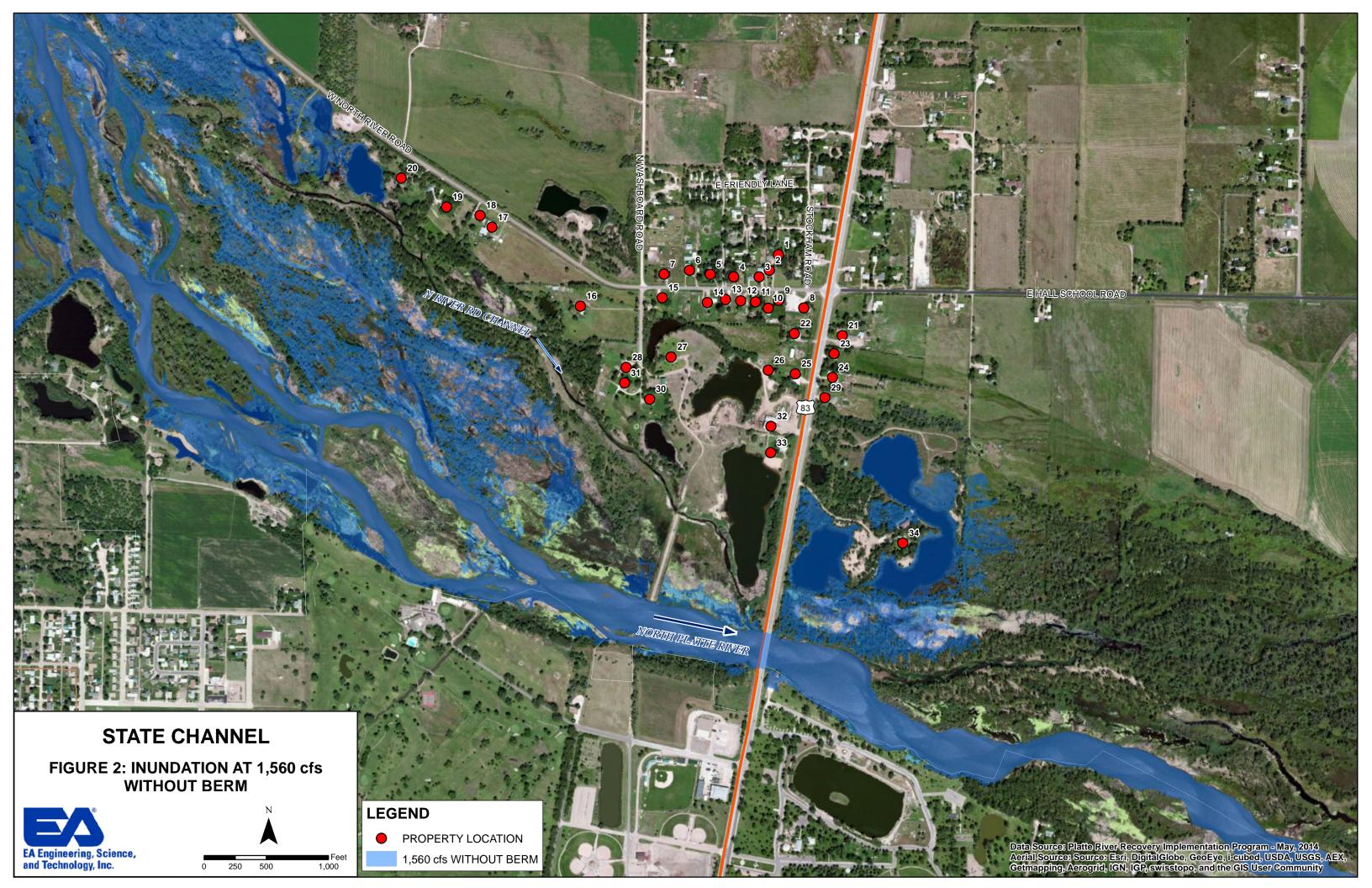
The preliminary design included elements to minimize or avoid impacts to aquatic resources as summarized below:

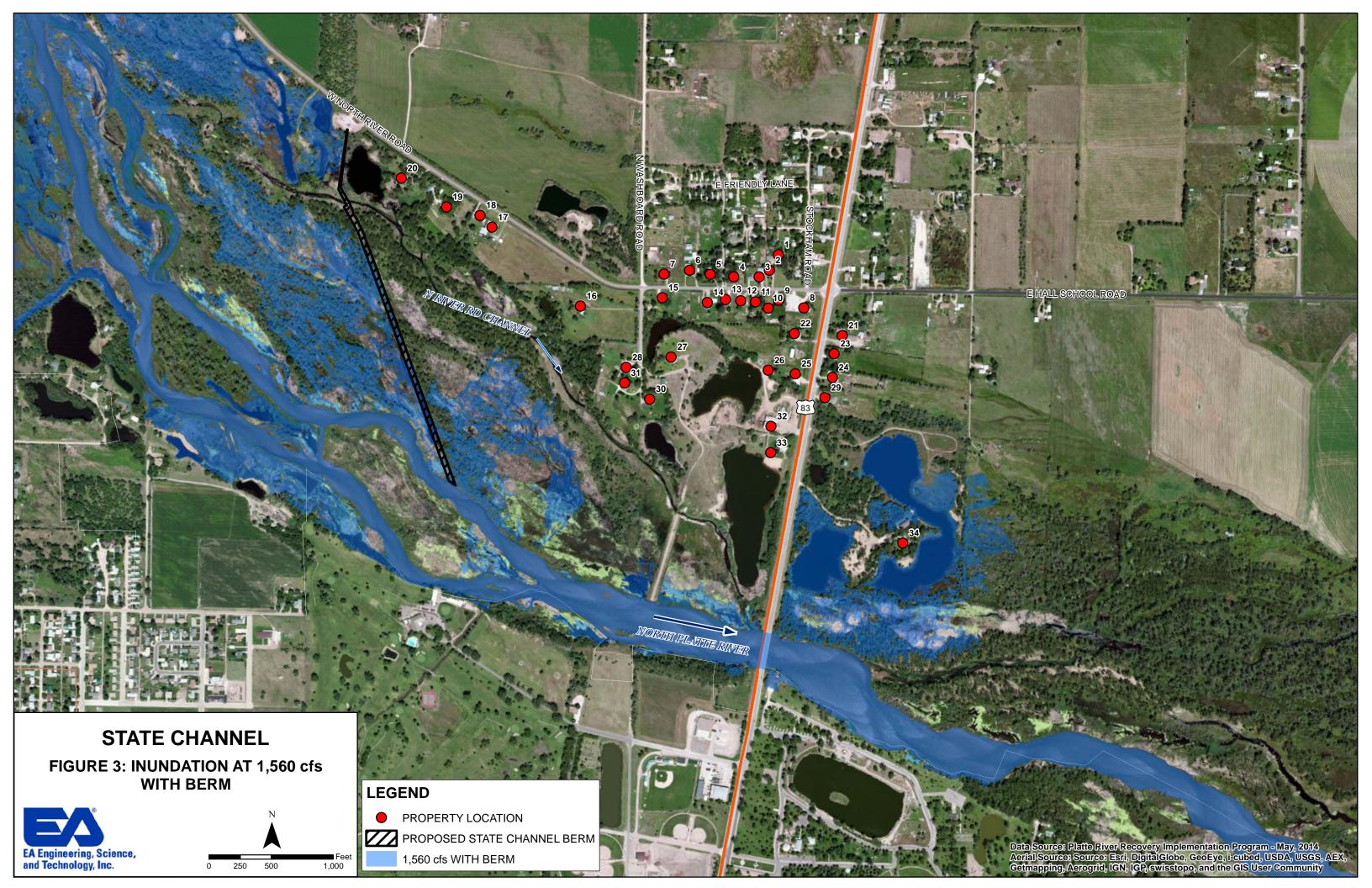
- During construction, efforts will be taken to minimize disturbances and discharge during construction.
- Another alternative for the berm was considered 500 feet upstream but would have resulted in far greater impacts to aquatic resources.
- The Program has also considered an alternative that would have extended the berm from the
 end of the proposed location to the east 2,000 feet along the north bank, but this would have
 resulted in greater impacts to aquatic resources.
- The current design includes an 18-inch CMP that would allow passage of normal 'base flows' to continue down the North River Road Channel. This was included in the design to minimize impacts to the existing hydrology within this channel.

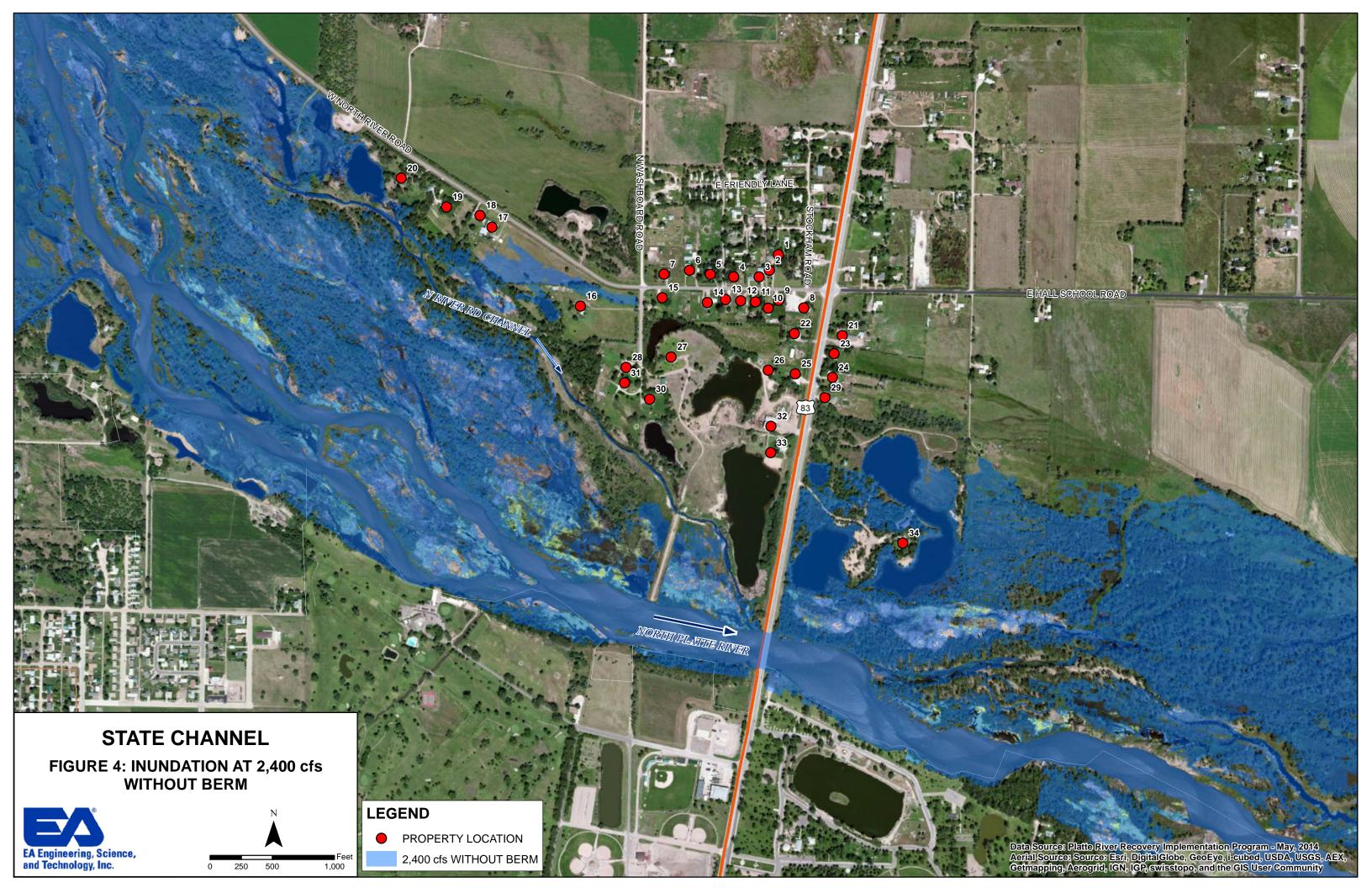
If necessary, the Program will consider onsite mitigation alternatives including enhancement or creation of wetlands near the berm construction site. As of the time which this application was submitted the Program has not specifically evaluated mitigation alternatives.

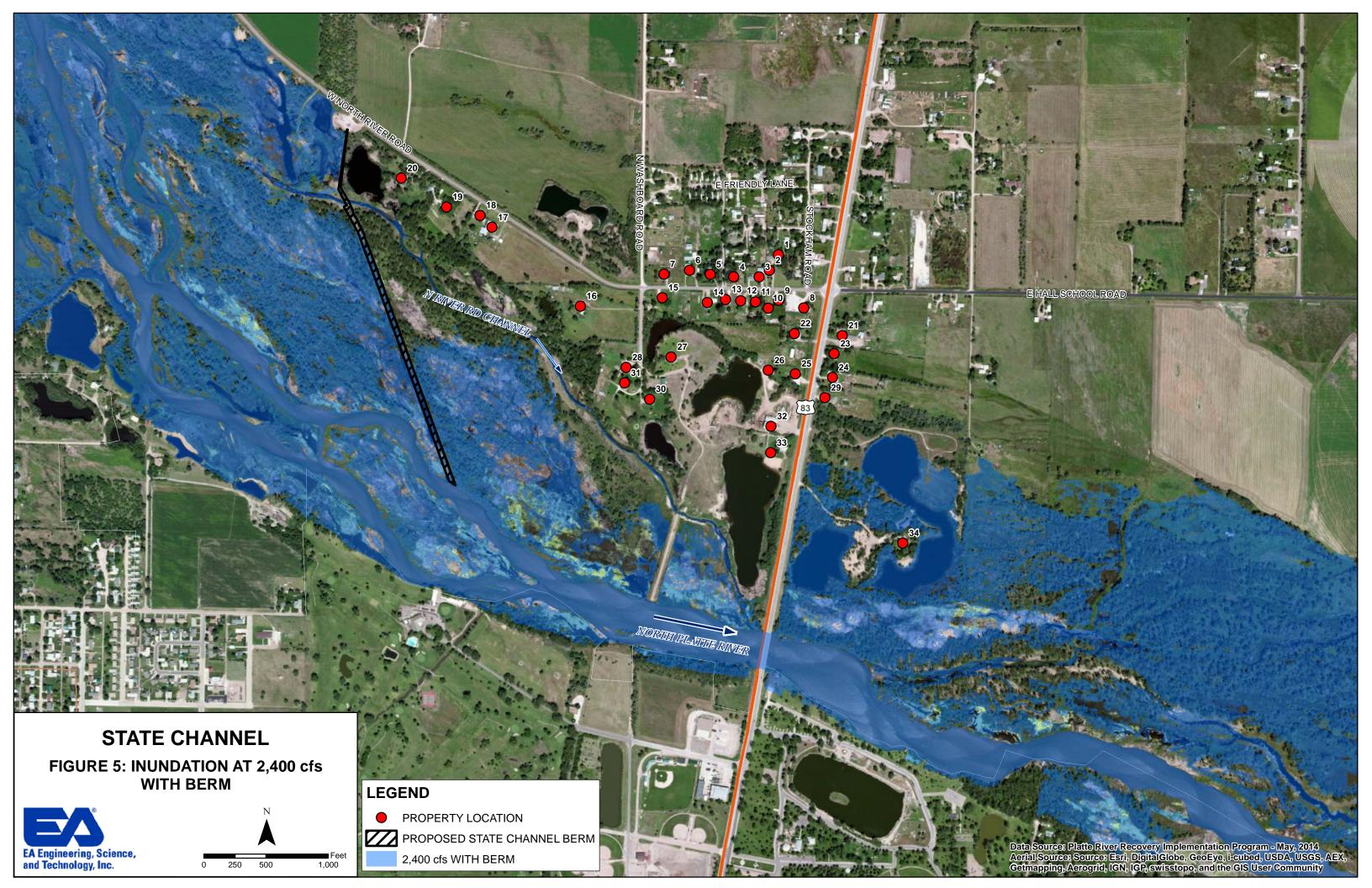
Attachment A – Figures

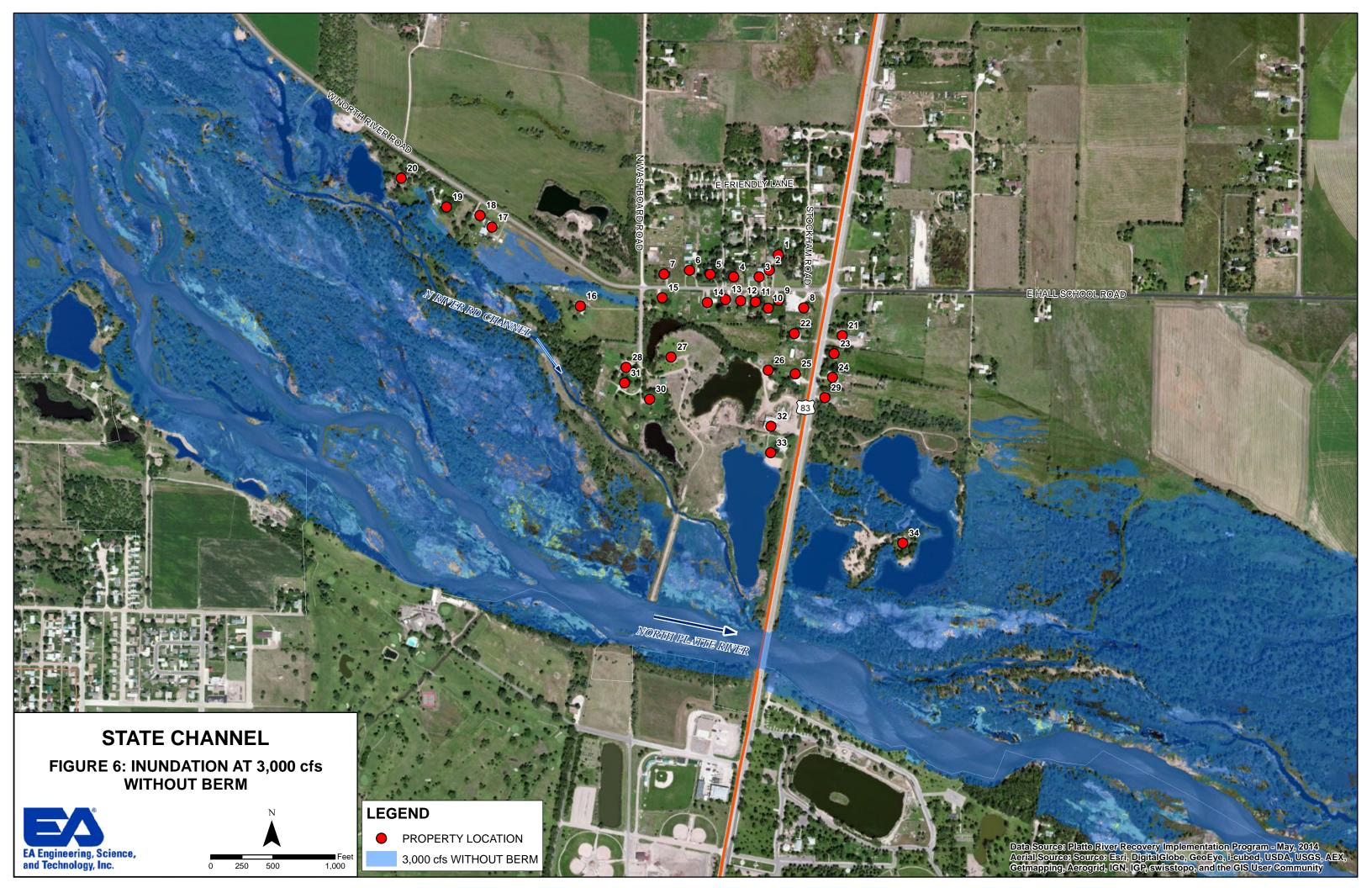


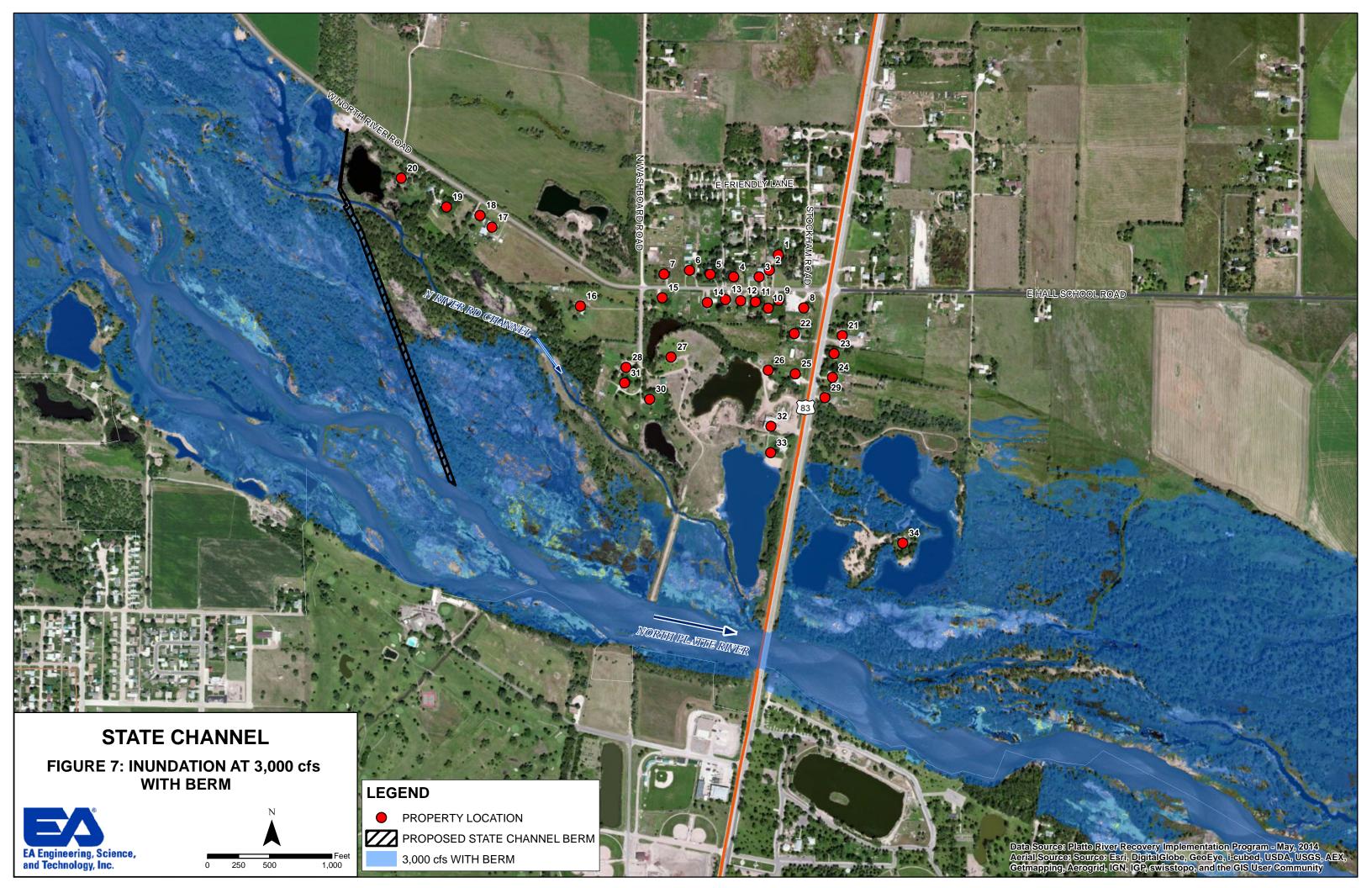


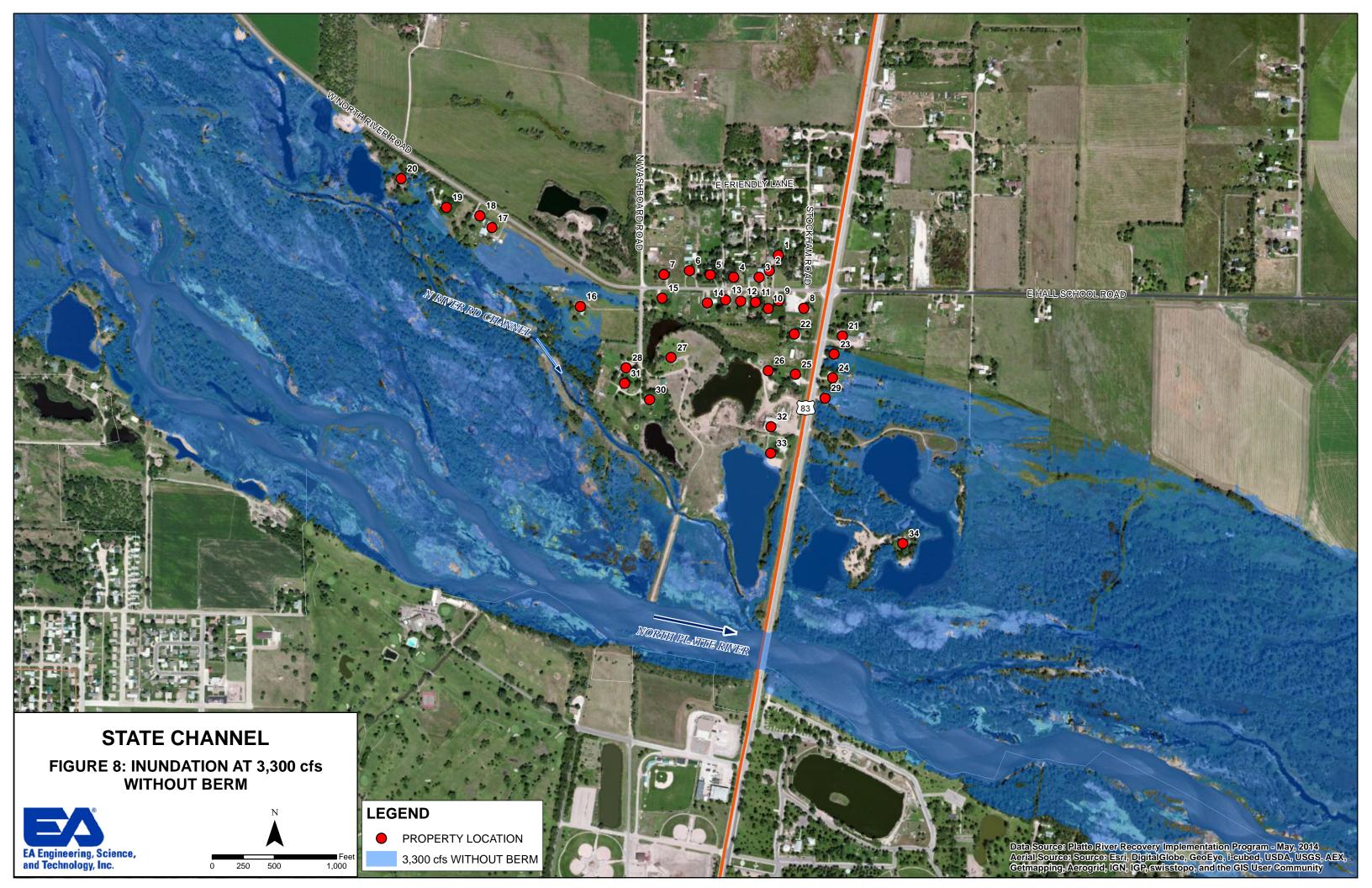


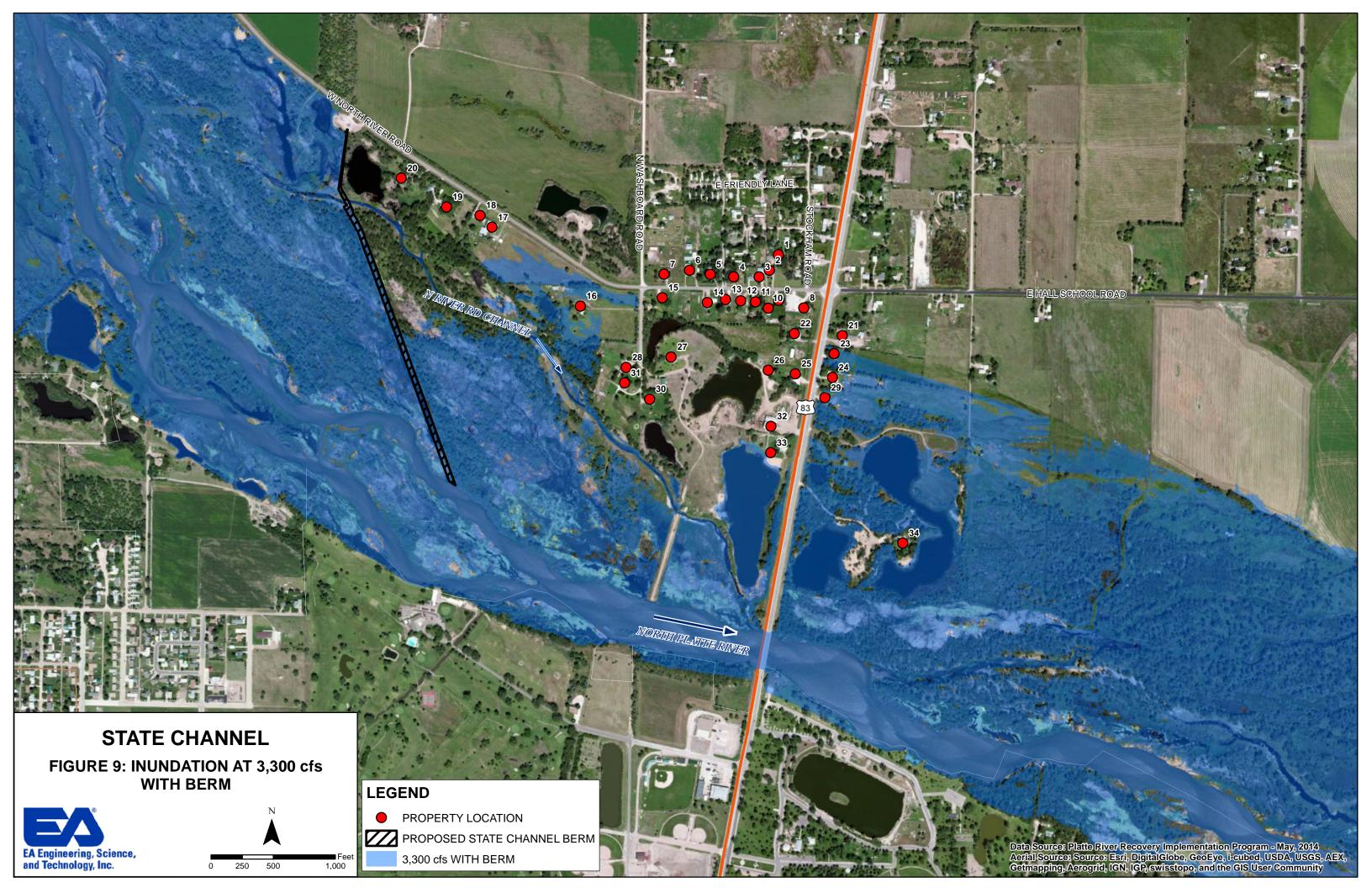












EA Project No:	1482203
J	une 2014

EA Engineering, Science, and Technology, Inc.

Attachment B - Form 4345

ATTACHMENT B

U.S. ARMY CORPS OF ENGINEERS APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

33 CFR 325. The proponent agency is CECW-CO-R.

OMB APPROVAL NO. 0710-0003 EXPIRES: 28 FEBRUARY 2013

Public reporting for this collection of information is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters, Executive Services and Communications Directorate, Information Management Division and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.					
(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)					
1. APPLICATION NO. 2. FIELD OFFICE CODE	3. DATE RECEIVED 4. DATE APPLICATION COMPLETE				
(ITEMS BELOW TO BE	FILLED BY APPLICANT)				
5. APPLICANT'S NAME	AUTHORIZED AGENT'S NAME AND TITLE (agent is not required)				
First - Jerry Middle - Last - Kenny	First - Jonathan Middle - Last - Mohr				
Company - Headwaters Corporation	Company - EA Engineering, Science, and Technology, Inc.				
E-mail Address - kennyj@headwaterscorp.com	E-mail Address - jmohr@eaest.com				
6. APPLICANT'S ADDRESS:	9. AGENT'S ADDRESS:				
Address- 4111 4th Avenue, Suite 6	Address- 221 Sun Valley Blvd, Ste. D				
City - Kearney State - NE Zip - 68845 Country - USA	City - Lincoln State - NE Zip - 68528 Country - USA				
7. APPLICANT'S PHONE NOs. w/AREA CODE	10. AGENTS PHONE NOs. w/AREA CODE				
a. Residence b. Business c. Fax	a. Residence b. Business c. Fax				
308-237-5728 308-237-4651	402-476-3766 402-476-7825				
STATEMENT OF	AUTHORIZATION				
11. I hereby authorize, <u>Jonathan Mohr</u> to act in my behalf as supplemental information in support of this permit application.	,				
SIGNATURE OF APPLIC	DATE DATE				
NAME, LOCATION, AND DESCR	PTION OF PROJECT OR ACTIVITY				
12. PROJECT NAME OR TITLE (see instructions) State Channel Re-Activation Project					
13. NAME OF WATERBODY, IF KNOWN (if applicable)	14. PROJECT STREET ADDRESS (if applicable)				
North Platte River	Address Not Applicable				
15. LOCATION OF PROJECT Latitude: •N 41.162556 Longitude: •W -100.774242	City - North Platte State- NE Zip- 69101				
16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions)					
State Tax Parcel ID Municipality North Platte, NE					
Section - SW1/4, SW1/4, 21 Township - 14N	Range - 30W				

ATTACHMENT B

17. DIRECTIONS TO THE SITE From the intersection of Highway 30 and Hi	ghway 83 in North Platte, Nebraska, tr	ravel north approximately 1.15 miles to North Rive	r
Road. Travel west on North River Road app	proximately 0.8 miles. Project location	will be on the south side of North River Road.	
 Nature of Activity (Description of project, inclusee Supplemental Information 	ide all features)		
see supplemental information			
19. Project Purpose (Describe the reason or purp	pose of the project, see instructions)	A STATE OF THE STA	·
See Supplemental Information			
USE BLOCKS	20-23 IF DREDGED AND/OR FILL MATE	RIAL IS TO BE DISCHARGED	
	20-23 IF DREDGED AND/OR FILL MATE	RIAL IS TO BE DISCHARGED	
USE BLOCKS 20. Reason(s) for Discharge See Supplemental Information	20-23 IF DREDGED AND/OR FILL MATE	RIAL IS TO BE DISCHARGED	
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ENG FORM 4345, OCT 2012 Page 2 of 3

ATTACHMENT B

24. Is Any Portion of th	e Work Already Complete?	Yes No IF YES	, DESCRIBE THE COMPI	LETED WORK	
Construction has not s	started, preliminary desig	gn is underway.			
			·		
25. Addresses of Adjoir	ning Property Owners, Less	ees, Etc., Whose Property	Adjoins the Waterbody (if n	nore than can be entered here, plea	se attach a supplemental list).
a. Address- See Origi	nal Application				
City - NA		State - NA	Zip - N.	Α	
b. Address- NA					
City - NA		State - NA	Zip - N.	A	
c. Address- NA					
City - NA		State - NA	Zip - N	A	
d. Address- NA					
City - NA		State - NA	Zip - N	A	
e. Address- NA					
City - NA		State - NA	Zip - N	A	
	cates or Approvals/Denials r			for Work Described in Thi	s Application.
AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
NDEQ	Cons. Stormwater	_ <u>NA</u>	NA NA	NA	NA NA
Lincoln Co.	Flood Plain	NA NA	NA	NA	NA
			,		the chinageness and the second se
* Would include but is n	ot restricted to zoning, build	ling, and flood plain permit	s		
	oy made for permit or permit I further certify that I posse				
SIGNATURI	E OF APPLICANT	DATE	SIGN	ATURE OF AGENT	DATE
The Application must	be signed by the persor e statement in block 11			y (applicant) or it may b	e signed by a duly

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or discusses a material fact or makes any false, fictitious or

knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

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