

US ARMY CORPS OF ENGINEERS St. Louis District Gateway to Excellence

Reply To: U.S. Army Corps of Engineers Attn: CEMVS-OD-F **1222 Spruce Street**

Public Notice No. MVS-2019-586 **Public Notice Date**

Postmaster Please Post Conspicuously Until:

File Number: MVS-2019-586

Interested parties are hereby notified that the Land Learning Foundation (Sponsor) has requested under their In-Lieu-Fee (ILF) Program Instrument and corresponding amendment; approval for an ILF mitigation project pursuant to 33 CFR 332 and 40 CFR 230 Compensatory Mitigation for Losses of Aquatic Resource; Final Rule (Federal Register / Vol. 73, No. 70 Pages 19594-19705, April 10, 2008).

COMMENTS AND ADDITIONAL INFORMATION: All comments related to this ILF mitigation project and/or requests for public hearing must reach this office no later than the expiration date of the Public Notice to become part of the record and be considered in the decision. Comments should be mailed to the following address:

> U.S. Army Corps of Engineers **Regulatory Branch** 1222 Spruce Street St. Louis, Missouri 63103-2833 ATTN: Mr. David Meyer

IN-LIEU FEE SPONSOR: Land Learning Foundation P.O.C. Mr. Larry Pollard P.O. Box 55 Keytesville, MO 65261

LOCATION: The Sponsor proposes this ILF mitigation project (Indian Creek Site) within the Ozark/Meramec Ecological Drainage Unit (EDU). The subject site consists of approximately 41.6+/acres and contains both sides of Indian Creek. The proposed mitigation site is located on Indian Creek, which originates in Washington County, Missouri and flows north to join the Meramec River, less than one mile downstream of the proposed mitigation site. Indian Creek is a 4th order stream, and its watershed area is approximately 100,000 acres. Indian Creek's watershed area represents about 7% of the total watershed of the Meramec River. The site is located at 38°15'39.5"N 90°56'29.7"W just south of St. Clair, MO in Franklin County.

PROJECT DESCRIPTION: The Sponsor seeks approval from the U.S. Army Corps of Engineers (the Corps) and the Interagency Review Team (IRT); which is composed of representatives from the U.S. Environmental Protection Agency, U.S. Fish & Wildlife Service, Missouri Department of Natural Resources, and Missouri Department of Conservation; to establish the Indian Creek project as an

Public Notice

May 6, 2020 **Expiration Date** June 4, 2020

authorized source of stream mitigation credit. The Sponsor would make the stream mitigation credit available to Department of the Army permittees seeking to fulfill requirements to purchase compensatory mitigation credit, to offset losses of aquatic functions and services. The mitigation project includes the preservation and restoration of forested riparian corridor, as well as the stabilization of highly eroded and incised channel bank.

The Sponsor proposes to restore, protect, and maintain 6,880 linear feet of perennial stream channel with wooded corridor. The restored and preserved corridor will generally extend 100-150 feet perpendicular from the channel banks. This consists of tree plantings and the removal of any invasive species.

The project consists of bank stabilization and riparian restoration and preservation. Three locations along Indian Creek exhibit active erosion, totaling over 4,700 linear feet in length. Bank stabilization will use a combination of bank shaping, rock vanes, longitudinal peaked stone toe protection, brush layering, and vegetative staking. A full technical description can be found in the attached stabilization plan.

The property owners will record a perpetual conservation easement on the mitigation site. The conservation easement will protect this reach of Indian Creek and its forested corridors from future clearing and other disturbances. The Sponsor will assume responsibility for long-term monitoring of the requirements of the conservation easement.

If approved by the Corps, the Indian Creek project will create a total potential credit release of 28,258.25 stream credits. Mitigation credits generated by this project will be released for debiting on an incremental basis, determined by the project's successful achievement of performance criteria as set forth in the ILF Program Instrument.

This ILF mitigation program does not preclude the requirement for any Section 404 permit applicant, who intends or is required to use stream credits generated by this mitigation project, to comply with Clean Water Act Section 404(b)(1) Guidelines; the National Environmental Policy Act; and our evaluation of probable impacts on public interest.

LOCATION MAPS AND DRAWINGS: See attached.

ADDITIONAL INFORMATION: Additional information may be obtained by contacting Mr. David Meyer, Project Manager, U.S. Army Corps of Engineers, at (314) 331-8810. Your inquiries may also be sent by e-mail to david.p.meyer@usace.army.mil.

<u>AUTHORITY</u>: This permit will be processed under Section 404 of the Clean Water Act (33 U.S.C. 1344).

ENDANGERED SPECIES: The proposed project is within the range of the federally endangered Indiana bat (*Myotis sodalis*), Gray bat (*Myotis grisescens*) and the Northern Long-eared bat (*Myotis septentrionalis*) that currently is a threatened species and is a proposed candidate for endangered status. Also, according to the Missouri Department of Conservation, there are occurrences of Spectaclecase (*Margaritifera monodonta*), (federally endangered) immediately downstream of the confluence of Indian Creek with the Meramec. There are additional occurrences throughout the reach in the Meramec River, both up- and downstream, as well as occurrences of Sheepnose (*Plethobasus cyphyus*), federally endangered. A preliminary determination, in compliance with the Endangered Species Act, as amended, has been made that the work that is proposed would not affect species designated as threatened or endangered, or adversely affect

critical habitat. The Corps is coordinating with the U.S. Fish and Wildlife Service and the applicant is taking measures to minimize potential effects of the project during construction. In order to further complete our evaluation, written comments are solicited by this public notice from the U.S. Fish and Wildlife Service and other interested agencies and individuals.

<u>CULTURAL RESOURCES</u>: The ILF mitigation project will be evaluated for compliance with the National Historic Preservation Act of 1966 and 36 CFR 800. The St. Louis District will consider information provided by the State Historic Preservation Office, Federally-recognized tribes, and the public in response to the proposed mitigation project.

PUBLIC INTEREST REVIEW: The purpose of this public notice is to advise all interested parties of the proposed ILF project and to solicit comments. The decision to allow or deny the Sponsor to proceed with the mitigation project will be based on an evaluation of all comments received, and all relevant factors to the proposal, including the cumulative effects thereof. These factors include: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, and the general needs and welfare of the people. The Corps is soliciting comments from the public; Federal, state, and local agencies and officials; Native American tribes; and other interested parties in order to consider and evaluate the proposed mitigation project.

<u>PUBLIC HEARING</u>: Any person may request, in writing, prior to the expiration date of this public notice, that a public hearing be held to consider this ILF mitigation proposal. Any request for a public hearing shall state, with particularity, the reason for the hearing, and must be based on issues that would warrant additional public review.

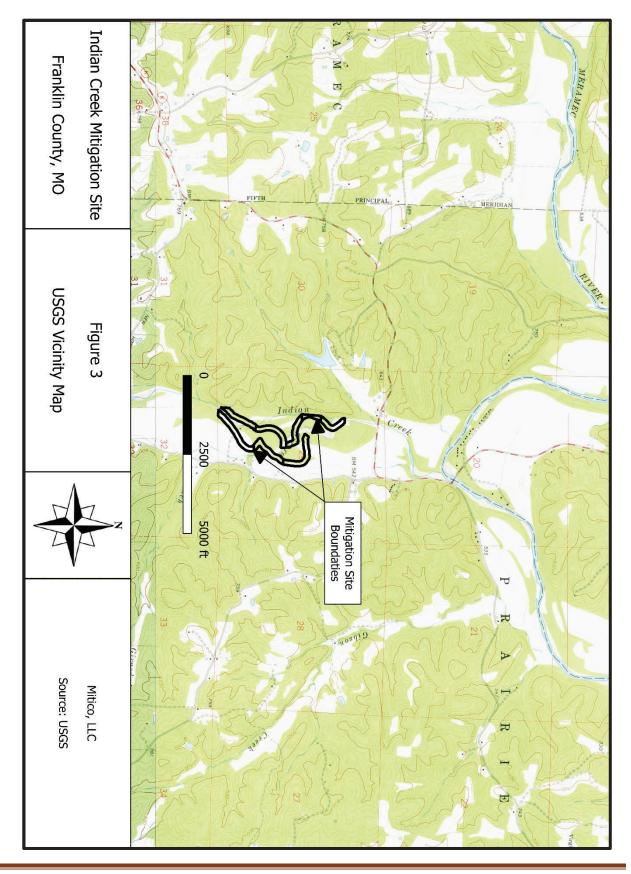
Robert S. Gramke

Robert S. Gramke Chief, Regulatory Branch

Attachments

NOTICE TO POSTMASTERS:

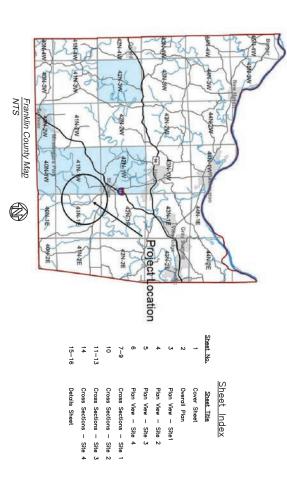
The Corps requests that this notice be conspicuously and continually placed for 21 days from the date of this issuance of this notice.



Mitico, LLC. 701 Crown Industrial Ct. Suite D Chesterfield, MO 63005 – (314)-882-6623 Page 31



Franklin County, Missouri Sec. 29, T41N, R1E







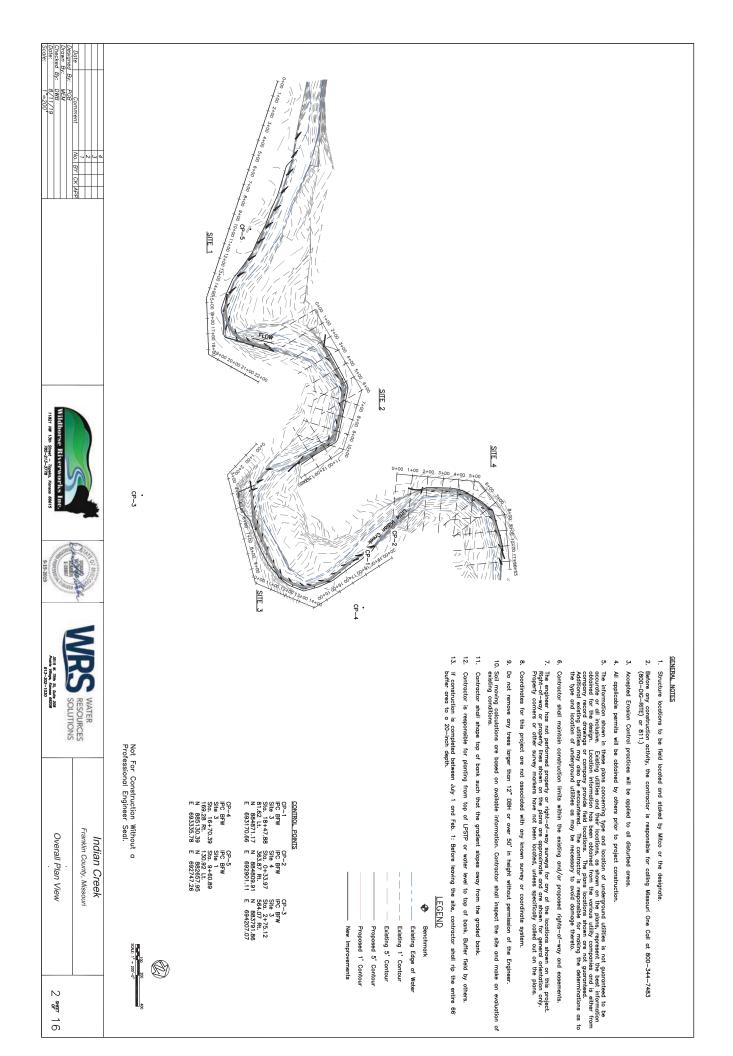


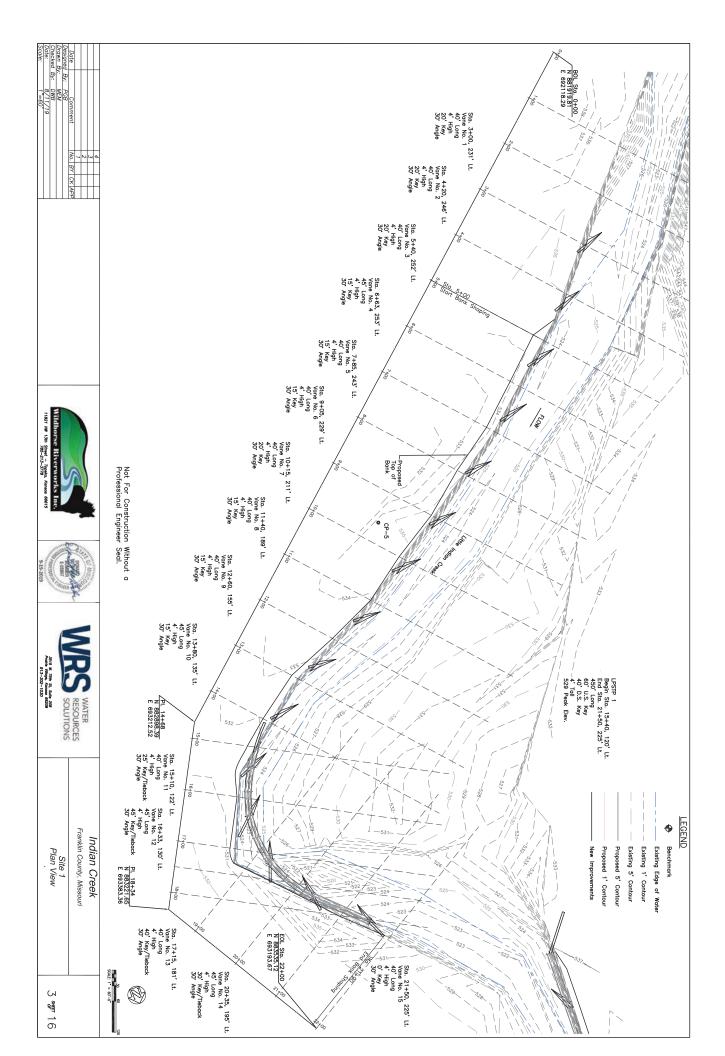


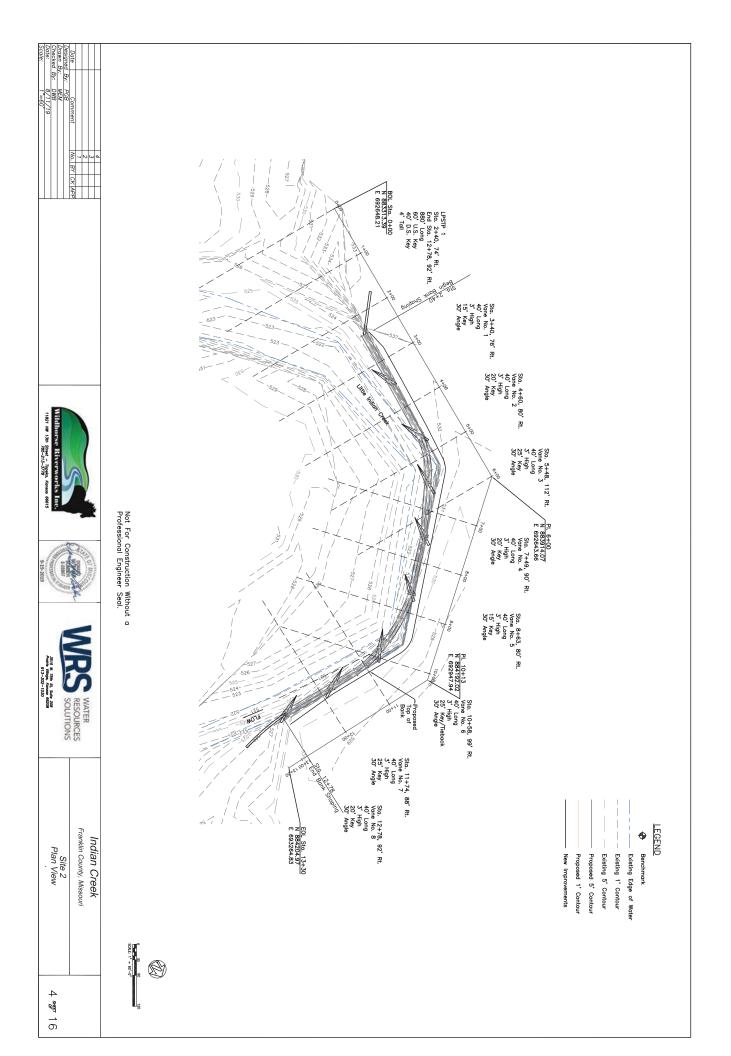
RESOURCES SOLUTIONS

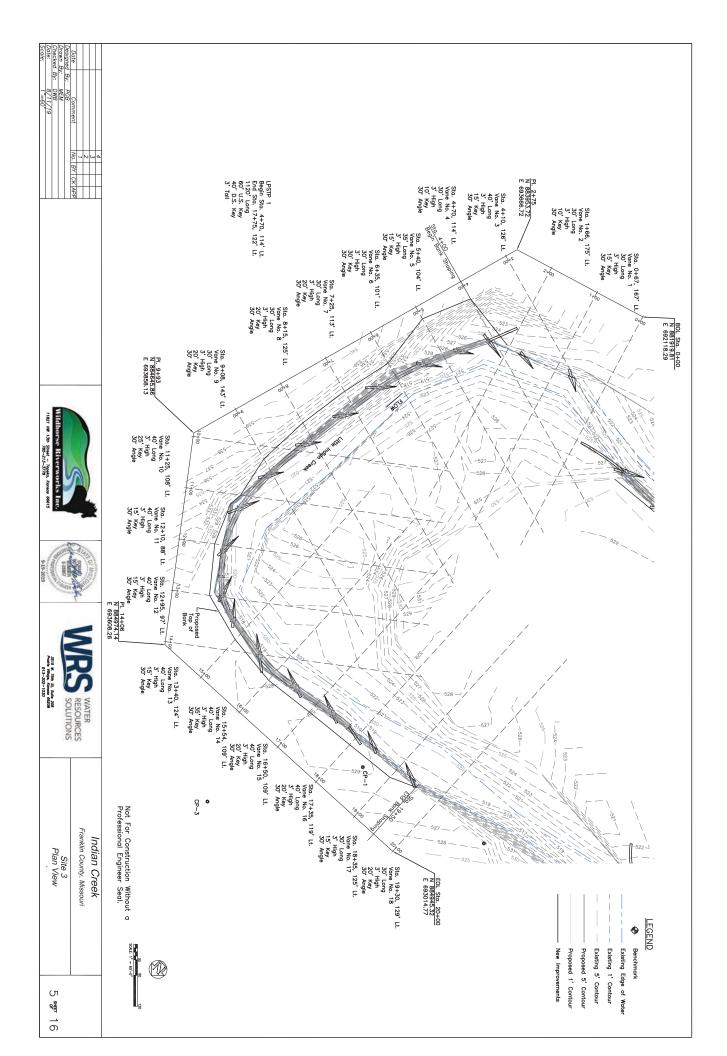
3515 W. 75th St, Suite 208 Prairie Willage, Kanese 66208 913-302-1030

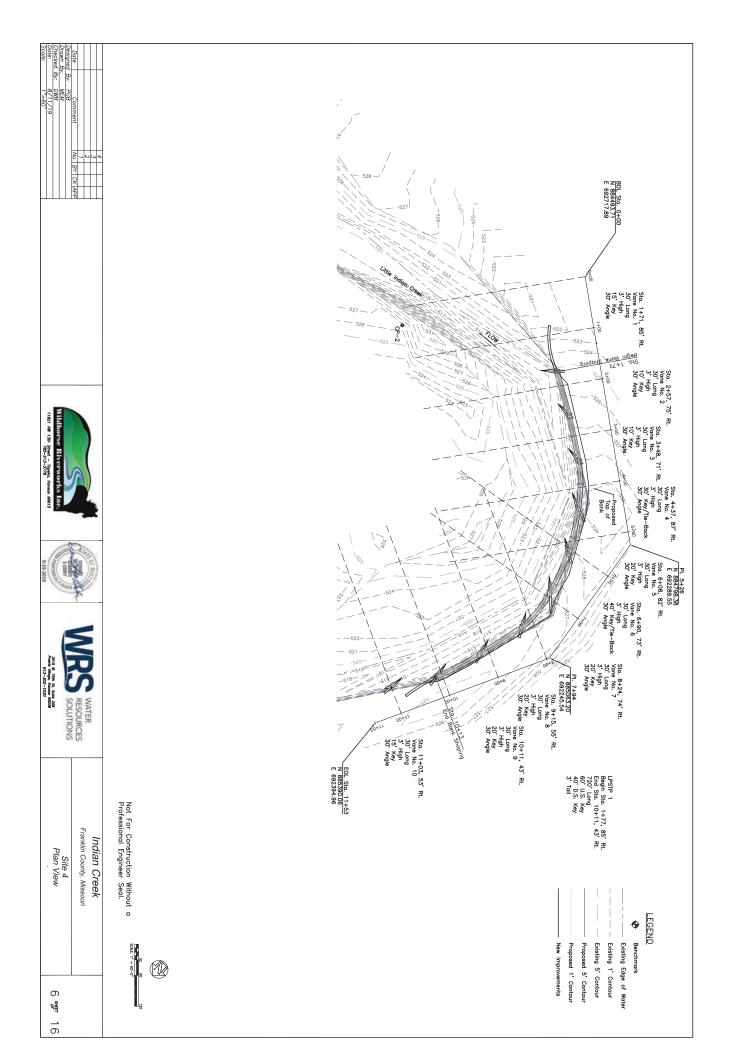
> Not For Construction Without a Professional Engineer Seal.











	Net Benefit 1	Net Benefit 2	Net Benefit 3	Net Benefit 4	Net Benefit 5
Stream Type	Perennial 0.4	Perennial 0.4	Perennial 0.4	Perennial 0.4	Perennial 0.4
Priority Waters	Tertiary 0.05	Tertiary 0.05	Tertiary 0.05	Tertiary 0.05	Secondary 0.2
Side A (Left- Descending Bank)	0.80 (150' restoration)	0.80 (150' restoration)	0.40 (150' enhancement)	0.70 (100' restoration)	0.20 (150' preservation)
Side B (Right- descending bank)	0.80 (150' restoration)	0.20 – (150' preservation)	0.40 (150' enhancement)	0	0
Supplemental Credit Buffer	0.80	0.50	0.40	0	0
Site Protection	0.2 – LLF Easement	0.2 – LLF Easement	0.2 – LLF Easement	0.2 – LLF Easement	0.2 – LLF Easement
Credit Schedule	0 - Schedule 3	0 - Schedule 3	0 - Schedule 3	0 - Schedule 3	0 - Schedule 3
Temporal Lag	-0.2	-0.2	-0.2	-0.2	0

Table 2. Riparian Corridor Net Benefit Methodology



Figure 2. Net Benefit Map

Factors	Bank Stabilization 1	Bank Stabilization 2	Bank Stabilization 3	Bank Stabilization 4
Stream Type	Perennial 0.4	Perennial 0.4	Perennial 0.4	Perennial 0.4
Priority Waters	Tertiary – 0.05	Tertiary – 0.05	Tertiary – 0.05	Secondary – 0.2
Net Benefit	Good – restoring highly			
	eroded areas by resloping			
	and reshaping. Rock vanes			
	and longitudinal peak stone			
	toe protection will be used			
	along with willow stakes			
	harvested on site. 2.4			
Site Protection	Land Learning Foundation	Land Learning Foundation	Land Learning Foundation	Land Learning Foundation
	will serve as the grantee of			
	a conservation easement	a conservation easement	a conservation easement	a conservation easement
	0.4	0.4	0.4	0.4
Credit	In-Lieu Fee sites qualify for			
Schedule	Schedule 3	Schedule 3	Schedule 3	Schedule 3
	0	0	0	0
	0	0	0	0

 Table 3. In-Stream Net Benefit Methodology

Table 4. RIPARIAN BUFFER WORKSHEET

Stream Type	Ephemeral	Intern	nittent	Perennial			
	0.15	0.2		0.4			
Priority Waters	Tertiary	Seco	ndary	Primary			
	0.05	0.2		0.4			
Net Benefit	Riparian Restoration/Establishment, Enhancement, and Preservation Factors						
(for each side of			(select values fr	om Table 1)			
stream)		(also see Minimum Buffer Width (MBW) page 15)					
Supplemental	Condition: Buffer established, enhanced or preserved on both streambanks						
Buffer Credit	To calculate:(Net Benefit Stream Side A + Net Benefit Stream Side B) / 2						
Corps approved site protection Corps approved site protection recorded with third p							
Site Protection without third party grantee or transfer of titl				or transfer of title	nsfer of title to a conservancy		
	0.05 0.2						
Credit Schedule	Schedule 1		Schedu	ule 2	Schedule 3		
	0.15		0.05		0		
Temporal Lag	Over 20	10 to 20	5 to	10	0 to 5		
(Years)	-0.3	-0.2	-0.2 -0		0		

Factors		Net Benefit				
		1	2	3	4	5
а. т		0.4				0.4
Stream Type		0.4	0.4	0.4	0.4	0.4
Priority Waters		0.05	5 0.05 0.05		0.05	0.2
Net Benefit Stream Side A		0.80 (150')	0.80 (150')	0.40 (150')	0.70 (100')	0.20 (150')
s	tream Side B	0.80 (150')	0.20 (150')	0.40 (150')	0	0
Supplemental Buffer Credit (Buffer on both sides)		0.80	0.50	0.40	0	0
Site Protection		0.2	0.2	0.2	0.2	0.2
Credit	Stream Side A	0	0	0	0	0
Schedule	Stream Side B	0	0	0	0	0
Temporal Lag		-0.2	-0.2	-0.2	-0.2	0
Sum Factors (M)=		2.85	1.95	1.65	1.15	1.0
Linear Feet of Stream Buffered (LF)= (do not count each bank separately or count same channel segment twice)		1645	1780	1790	550	1115
Credits (C) =M X LF		4688.25	3471	2953.5	632.5	1115
Total Credits Generated C X LK Factor * =						12,860.25

Total Riparian Credits Generated from all Columns = <u>12,860.25</u>

* Location and Kind (LK) Factor only applies to permittee-responsible mitigation projects

Table 5.IN-STREAM CREDIT WORKSHEET

Stream Type	Ephemeral 0.15			Perennial 0.4		
Priority Waters	Tertiary 0.05 Se		econd	ondary 0.2 Primary 0.4		Primary 0.4
Net Benefit (for each side of stream)	Stream Relocation to Accommodate Authorized Project 0.5			Good 2.4	4	Excellent 3.5
Site Protection	Corps approved site protection without third party grantee 0.1			Corps approved site protection recorded with third party grantee, or transfer of title to a conservancy 0.4		
Credit Schedule	Schedule 1 0.3 Sc		chedu	le 2 0.1		Schedule 3 0

Factors	Bank Stabilization 1	Bank Stabilization 2	Bank Stabilization 3	Bank Stabilization 4
Stream Type	0.4	0.4	0.4	0.4
Priority Waters	0.05	0.05	0.05	0.2
Net Benefit	2.4	2.4	2.4	2.4
Site Protection	0.4	0.4	0.4	0.4
Credit Schedule	0	0	0	0
Sum Factors (M)=	3.25	3.25	3.25	3.4
Linear Feet of Stream Buffered (LF)= (do not count each bank separately or count same channel segment twice)	1600	880	1400	820
Credits (C) =M X LF	5200	2860	4550	2788
Total Credits Generated C X LK Factor * =				15,398

Total Instream Credits Generated from all Columns = <u>15,398</u>

* Location and Kind (LK) Factor only applies to permittee-responsible mitigation projects