APPROVED JURISDICTIONAL DETERMINATION FORM

U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I:	BACKGROUND	INFORMATION
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REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 4/6/2022

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Rock Island District, Seefried Industries, CEMVR-R

B.	DISTRICT OFFICE, FILE NAME, AND NUMBER: Rock Island District, Seefried Industries, CEMVR-RD-2022-0034
С.	PROJECT LOCATION AND BACKGROUND INFORMATION: State:IL County/parish/borough: Grundy City: Morris Center coordinates of site (lat/long in degree decimal format): Lat. 41.411917° Pick List, Long88.427787° Pick List. Universal Transverse Mercator: Name of nearest waterbody: Saratoga Creek Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Illinois River Name of watershed or Hydrologic Unit Code (HUC): Illinois 07120005 Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): ☐ Office (Desk) Determination. Date: April 6, 2022 ☐ Field Determination. Date(s): By consultant November 16, 2021
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
revi	re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the ew area. [Required] Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce Explain: CWA SECTION 404 DETERMINATION OF HIRISDICTION
	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	re Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): ¹ □ TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters, including isolated wetlands
	b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: 100 linear feet: 10 width (ft) and/or acres. Wetlands: Farmed Wetland 5-0.19 acres.
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):
	 Non-regulated waters/wetlands (check if applicable):³ ✓ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not

jurisdictional. Explain: Farmed Wetland 1-0.51 acres, Farmed Wetland 2-0.14 acres, Farmed Wetland 3-0.25 acres,

Farmed Wetland 4-0.80 acres

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

-	-		TT.
-1	- 1	.	NA/

Identify TNW:

Summarize rationale supporting determination:

Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under Rapanos have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: 172 square miles Drainage area: 11.92 square miles Average annual rainfall: 37.9 inches Average annual snowfall: 24 inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

Tributary flows through 3 tributaries before entering

Project waters are 10.68 river miles from TNW.

Project waters are 1 river miles from RPW. Project waters are 4 aerial (straight) miles from TNW.

Project waters are 1 aerial (straight) miles from RPW. Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW5: Ditch to Saratoga Creek to Collins Run to Aux Sable Creek to Illinois River (TNW).

Tributary stream order, if known:

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(0)	Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain:
	Tributary properties with respect to top of bank (estimate): Average width: 10 feet Average depth: 3-4 feet Average side slopes: 3:1.
	Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: 90% Other. Explain:
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: eroding. Presence of run/riffle/pool complexes. Explain: Tributary geometry: Meandering Tributary gradient (approximate average slope): 2-4 %
(c)	Flow: Tributary provides for: Perennial flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: Perennial year round flow. Other information on duration and volume:
	Surface flow is: Confined. Characteristics:
	Subsurface flow: Yes . Explain findings: Dye (or other) test performed:
	Tributary has (check all that apply): ☐ Bed and banks ☐ OHWM ⁶ (check all indicators that apply): ☐ clear, natural line impressed on the bank ☐ changes in the character of soil ☐ shelving ☐ vegetation matted down, bent, or absent ☐ leaf litter disturbed or washed away ☐ sediment deposition ☐ water staining ☐ other (list): ☐ Discontinuous OHWM. ⁷ Explain: ☐ Explain: ☐ Explain: ☐ Explain: ☐ Explain: ☐ Check all indicators that apply): ☐ the presence of litter and debris ☐ destruction of terrestrial vegetation ☐ the presence of wrack line ☐ sediment sorting ☐ sediment sorting ☐ multiple observed or predicted flow events ☐ abrupt change in plant community ☐ other (list): ☐ Discontinuous OHWM. ⁷ Explain: ☐ .
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by:
Cha	emical Characteristics: tracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Water color identified in stream reports as being brown. httify specific pollutants, if known: Nutrients and organic enrichment (low dissolved oxygen) from agriculture point on.

source

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. ⁷Ibid.

(iv	Biological Characteristics. Channel supports (check all that apply): □ Riparian corridor. Characteristics (type, average width): 100 feet. □ Wetland fringe. Characteristics: □ Habitat for: □ Federally Listed species. Explain findings: Riparian corridor-habitat for Indiana Bat and Northern Long eared bat. □ Fish/spawn areas. Explain findings: □ Other environmentally-sensitive species. Explain findings: Macroinvertebrates. □ Aquatic/wildlife diversity. Explain findings: Fish, mussles, frogs, turtles, snakes, mammal species.
2. C	haracteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
(i)	Physical Characteristics: (a) General Wetland Characteristics: Properties: Wetland size: 0.19 onsite acres Wetland type. Explain:PEM Wetland quality. Explain:Low quality plant community in wetlands. Project wetlands cross or serve as state boundaries. Explain: No.
River.	(b) General Flow Relationship with Non-TNW: Flow is: Intermittent flow. Explain: ditch and culvert water flow creates direct connection to the Saratoga Creek (RPW).
C Farmed Wetland 5 c	Surface flow is: Confined Characteristics: Farmed Wetland 5 is located at a low spot in the topography and receives water through overland flow from the west and south onnects to the adjacent roadside ditch during high volume water events and wetter than normal hydrologic periods. The ditch continues into the erneath IL Route 47. This culvert connects to another agricultural ditch, which joins with Saratoga Creek approximately 0.8 miles to the east Subsurface flow: Yes. Explain findings:
	(c) Wetland Adjacency Determination with Non-TNW: □ Directly abutting □ Not directly abutting □ Discrete wetland hydrologic connection. Explain: □ Ecological connection. Explain: □ Separated by berm/barrier. Explain: .
	(d) Proximity (Relationship) to TNW Project wetlands are 10.68 river miles from TNW. Project waters are 4 aerial (straight) miles from TNW. Flow is from: Wetland to navigable waters. Estimate approximate location of wetland as within the 500-year or greater floodplain.
	Chemical Characteristics: Characteristics wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: water quality, general watershed. Identify specific pollutants, if known: chemical pollutant from agricultural surface runoff, chemical pollutant from runoff from
•	iii) Biological Characteristics. Wetland supports (check all that apply): Riparian buffer. Characteristics (type, average width): Vegetation type/percent cover. Explain:PEM wetland. Habitat for: Federally Listed species. Explain findings:Indiana bat and Norhtern long eared bat. Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings:Waterfowl, mammals, reptiles, amphibians.
3. C	haracteristics of all wetlands adjacent to the tributary (if any) All wetland(s) being considered in the cumulative analysis: 1 Approximately (0.19) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N) Size (in acres) Directly abuts? (Y/N) Size (in acres)
Farmed Wetland 1 N 0.19 ac.

Summarize overall biological, chemical and physical functions being performed: Farmed Wetland 5 is located at a low spot in the topography and receives water through overland flow from the west and south. Farmed Wetland 5 connects to the adjacent roadside ditch during high volume water events and wetter than normal hydrologic periods. The ditch continues into a culvert that lies underneath IL Route 47. This culvert connects to another agricultural ditch, which joins with Saratoga Creek approximately 0.8 miles to the east. The flow from Farmed Wetland 5 to roadside and agricultural ditches to Saratoga Creek to Collins Run, to Aux Sable Creek, to the Illinois River, creates a direct connection to a TNW. The tributary in combination with Farmed Wetland 5, serves to filter pollutants(sediment, chemicals and other pollutants) from stormwater runoff from the adjacent agricultural land and roadways prior to reaching the Illinois River, a TNW. Farmed Wetland 5 holds floodwaters, intercepts sheet flow from uplands, and releases waters to the tributary in a more even and constant manner. Farmed Wetland 5 helps to maintain more consistent water temperature in the tributary, which is important for some aquatic species. The tributary and Farmed Wetland 5, provide habitats for many aquatic and non-aquatic species that also live in and adjacent to TNW's, including federally listed species.

C. SIGNIFICÂNT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

3.	Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: Farmed Wetland 5 is located at a low spot in the topography and receives water through overland flow from the west and south. Farmed Wetland 5 connects to the adjacent roadside ditch during high volume water events and wetter than normal hydrologic periods. The ditch continues into a culvert that lies underneath IL Route 47. This culvert connects to another agricultural ditch, which joins with Saratoga Creek approximately 0.8 miles to the east. The flow from Farmed Wetland 5 to roadside and agricultural ditches to Saratoga Creek to Collins Run, to Aux Sable Creek, to the Illinois River, creates a direct connection to a TNW. The tributary in combination with Farmed Wetland 5, serves to filter pollutants(sediment, chemicals and other pollutants) from stormwater runoff from the adjacent agricultural land and roadways prior to reaching the Illinois River, a TNW. Farmed Wetland 5 holds floodwaters, intercepts sheet flow from uplands, and releases waters to the tributary in a more even and constant manner. Farmed Wetland 5 helps to maintain more consistent water temperature in the tributary, which is important for some aquatic species. The tributary and Farmed Wetland 5, provide habitats for many aquatic and non-aquatic species that also live in
	aquatic species. The tributary and Farmed Wetland 5, provide habitats for many aquatic and non-aquatic species that also live in and adjacent to TNW's, including federally listed species.

D.	DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL
	THAT APPLY):

☐ TNWs:	djacent Wetlands. Check all that apply and provide size estimates in review area: linear feet width (ft), Or, acres. adjacent to TNWs: acres.
☐ Tributaries perennial: Labled on USGS an channel. ☐ Tributaries	ow directly or indirectly into TNWs. of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is d NWI maps solid blue line stream, which indicates a perennial stream. Satelite imagery shows persistent water in the stream of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data rovided at Section III.B. Provide rationale indicating that tributary flows seasonally:
Provide	estimates for jurisdictional waters in the review area (check all that apply):
Othe	rary waters: 100 linear feet 4 width (ft). r non-wetland waters: acres. tify type(s) of waters: .
☐ Waterboo	that flow directly or indirectly into TNWs. by that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a jurisdictional. Data supporting this conclusion is provided at Section III.C.
☐ Trib	ates for jurisdictional waters within the review area (check all that apply): utary waters: linear feet width (ft). r non-wetland waters: acres. Identify type(s) of waters:
☐ Wetland ☐ Wetl indi	ectly abutting an RPW that flow directly or indirectly into TNWs. s directly abut RPW and thus are jurisdictional as adjacent wetlands. ands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale cating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is ctly abutting an RPW:
seaso	ands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is onal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly ing an RPW:
Provide acrea	ge estimates for jurisdictional wetlands in the review area: acres.

6

⁸See Footnote # 3.

	5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
		Provide acreage estimates for jurisdictional wetlands in the review area: Farmed Wetland 5-0.19 acres.
	6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
		Provide estimates for jurisdictional wetlands in the review area: acres.
	7.	Impoundments of jurisdictional waters. ⁹ As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
		Demonstrate that water is isolated with a nexus to commerce (see E below).
E.	DE SUC	PLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH WATERS (CHECK ALL THAT APPLY): 10 which are or could be used by interstate or foreign travelers for recreational or other purposes.
		from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain: Other factors. Explain:
	Ide	ntify water body and summarize rationale supporting determination:
		vide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: Wetlands: acres.
F.		N-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR). Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:
•		Other: (explain, if not covered above):
	fact	wide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR ors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional genent (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres.
	Image: Control of the	Other non-wetland waters:4200 feet. List type of aquatic resource: manmade ditches Wetlands: FW 1-0.51 acres, FW 2-0.14 acres, FW 3-0.25 acres, FW 4-0.80 acres.

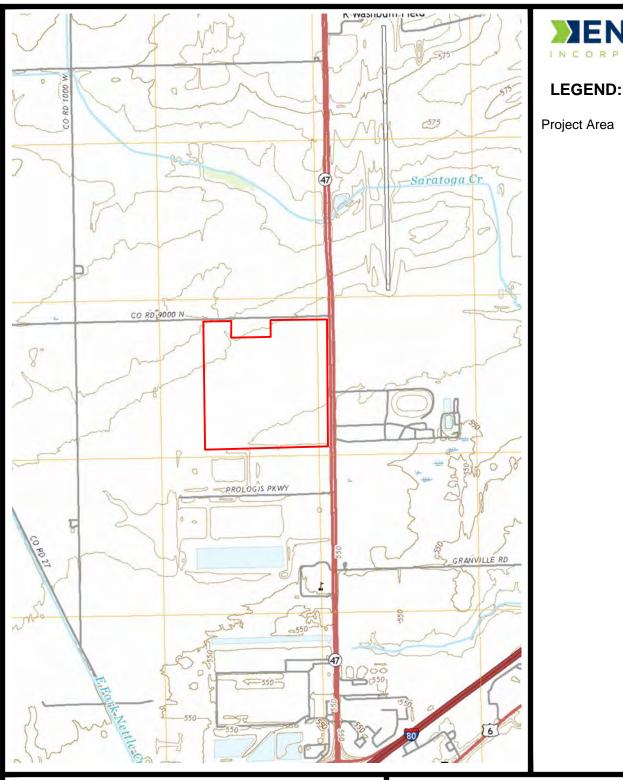
To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
 Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Pro	vide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such
a fii	nding is required for jurisdiction (check all that apply):
	Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
	Lakes/ponds: acres.
\square	Other non-wetland waters: 4200 feet. List type of aquatic resource: manmade ditches
	Wetlands: FW 1-0.51 acres, FW 2-0.14 acres, FW 3-0.25 acres, FW 4-0.80 acres

SECTION IV: DATA SOURCES.

A.	SUPI	PORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked
	and	requested, appropriately reference sources below):
	\boxtimes	Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:ENCAP Inc
	$\overline{\boxtimes}$	Data sheets prepared/submitted by or on behalf of the applicant/consultant.
	_	Office concurs with data sheets/delineation report.
		Office does not concur with data sheets/delineation report.
		Data sheets prepared by the Corps: .
	\Box	Corps navigable waters' study:
		U.S. Geological Survey Hydrologic Atlas: .
	_	USGS NHD data.
		☑ USGS 8 and 12 digit HUC maps.
	\bowtie	U.S. Geological Survey map(s). Cite scale & quad name:Lisbon, Illinois.
		USDA Natural Resources Conservation Service Soil Survey. Citation: NRCS Soil Survey for Grundy County, Illinois.
	$\overline{\boxtimes}$	National wetlands inventory map(s). Cite name:Lisbon, Illinois.
		State/Local wetland inventory map(s): .
	$\overline{\boxtimes}$	FEMA/FIRM maps: .
		100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	$\overline{\boxtimes}$	Photographs: Aerial (Name & Date):
	_	or 🖾 Other (Name & Date):Color photos supplied in ENCAP wetland delineation report.
		Previous determination(s). File no. and date of response letter:
		Applicable/supporting case law: .
		Applicable/supporting scientific literature:2007 Clean Water Act Jurisdictional Handbook, by Environmental Law Institute
	_	2007 USACE and USEPA Jurisdictional Determination Form Instructional Guidebook.
	\boxtimes	Other information (please specify):Google Earth satelite images: 1985-2019, http://www.historicaerials.com.
		Stream stats-USGS

B. ADDITIONAL COMMENTS TO SUPPORT JD: The project area is located within an 144 acre parcel of tiled and tilled agricultural land near Morris, Illinois. The project site consists of Farmed Wetlands 1-5 totaling 1.89 acres. Farmed Wetland 5 is located at a low spot in the topography and receives water through overland flow from the west and south. Farmed Wetland 5 connects to the adjacent roadside ditch during high volume water events and wetter than normal hydrologic periods. The ditch continues into a culvert that lies underneath IL Route 47. This culvert connects to another agricultural ditch, which joins with Saratoga Creek approximately 0.8 miles to the east. The flow from Farmed Wetland 5 to roadside and agricultural ditches to Saratoga Creek to Collins Run, to Aux Sable Creek, to the Illinois River, creates a direct connection to a TNW. The ditches are non-jurisdictional waters which serve to connect Farmed Wetland 5, an adjacent wetland to an RPW stream, Saratoga Creek, a perennial RPW stream, and a tributary to the Illinois River, a TNW, in the USACE Rock Island District in Illinois. The tributary in combination with Farmed Wetland 5, serves to filter pollutants(sediment, chemicals and other pollutants) from stormwater runoff from the adjacent agricultural land and roadways prior to reaching the Illinois River, a TNW. Farmed Wetland 5 holds floodwaters, intercepts sheet flow from uplands, and releases waters to the tributary in a more even and constant manner. Farmed Wetland 5 helps to maintain more consistent water temperature in the tributary, which is important for some aquatic species. The tributary and Farmed Wetland 5, provide habitats for many aquatic and non-aquatic species that also live in and adjacent to TNW's, including federally listed species. The Farmed Wetland 5 and the tributary stream (Saratoga Creek) are located 10.5 miles from the TNW, and are directly connected by the ditches and tributary streams, until it flows into the Illinois River, a TNW. The flow from Farmed Wetland 5 to ditches to Saratoga Creek to Collins Run to Aux Sable Creek to the Illinois River creates significant nexus from the Farmed Wetland 5 and a direct connection to the Illinois River, a TNW. Farmed Wetlands 1-4 were found to be isolated wetlands with no discrete overland surface or subsurface connection to a TNW and no significant nexus to a TNW.



JENCAP

Location Map

Source: U.S. Geological Survey Section 21 T34N R7E Latitude: 41.411917 Longitude: -88.427787

SWC Nelson Road & IL Route 47, Morris Project Number: 21-1029A

SPACECO, Inc.

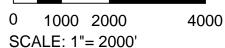
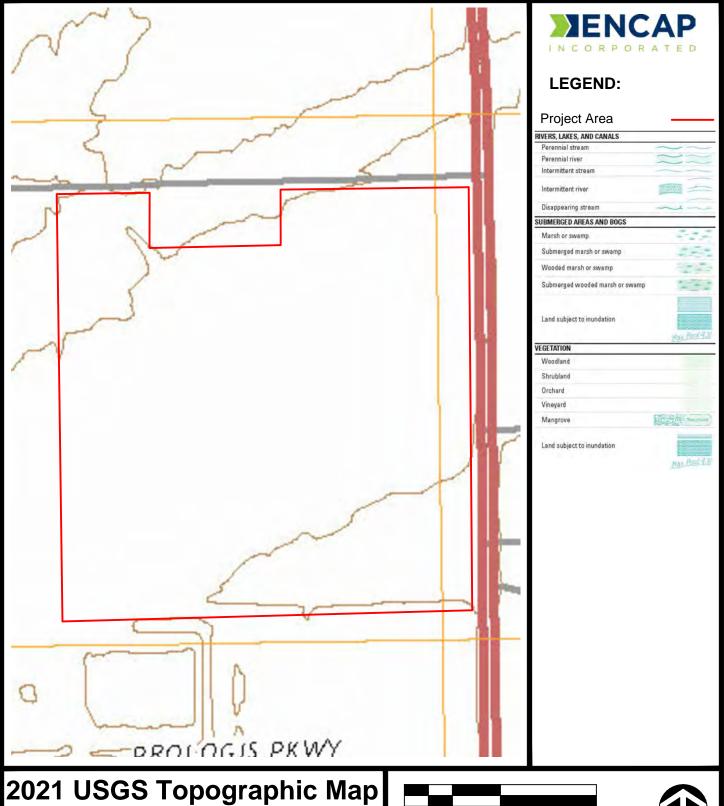




Exhibit A



Source: U.S. Geological Survey Libson Quadrangle

SWC Nelson Road & IL Route 47, Morris Project Number: 21-1029A

SPACECO, Inc.

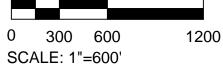




Exhibit D





LEGEND:

Project Area

On-site Farmed Boundary Wetland

Culvert

Sample Points

A-G

WL Delineation Field Work Completed 11.16.2021

Aerial Photograph

Map data: ©2020Google Image Date: 2021

SWC Nelson Road & IL Route 47, Morris
Project Number: 21-1029A

SPACECO, Inc.

300 600 1200

SCALE: 1"=600'



Exhibit G

