U.S. ARMY CORPS OF ENGINEERS
REGULATORY PROGRAM
APPROVED JURISDICTIONAL DETERMINATION FORM (INTERIM)
NAVIGABLE WATERS PROTECTION RULE

I. ADMINISTRATIVE INFORMATION

Completion Date of Approved Jurisdictional Determination (AJD): 05-FEB-2021
ORM Number: MVR-2021-00099-AM
Associated JDs: N/A or ORM numbers and identifiers (e.g. HQS-2020-00001-MSW-MITSITE)
Review Area Location[1]:
State/Territory: IA City: County/Parish/Borough: Cherokee County
Center Coordinates of Review Area: Latitude 42.759641 Longitude -95.534642

II. FINDINGS

A. Summary: Check all that apply. At least one box from the following list MUST be selected. Complete the corresponding sections/tables and summarize data sources.

- ☒ The review area is comprised entirely of dry land (i.e., there are no waters or water features, including wetlands, of any kind in the entire review area). Rationale: N/A or describe rationale.
- ☐ There are "navigable waters of the United States" within Rivers and Harbors Act jurisdiction within the review area (complete table in section II.B).
- ☐ There are "waters of the United States" within Clean Water Act jurisdiction within the review area (complete appropriate tables in section II.C).
- ☐ There are waters or water features excluded from Clean Water Act jurisdiction within the review area (complete table in section II.D).

B. Rivers and Harbors Act of 1899 Section 10 (§ 10)[2]

§ 10 Name	§ 10 Size	§ 10 Criteria	Rationale for § 10 Determination
N/A	N/A	N/A	N/A

C. Clean Water Act Section 404

Territorial Seas and Traditional Navigable Waters ((a)(1) waters)[3]

(a)(1) Name	(a)(1) Size	(a)(1) Criteria	Rationale for (a)(1) Determination
N/A	N/A	N/A	N/A

Tributaries ((a)(2) waters):

(a)(2) Name	(a)(2) Size	(a)(2) Criteria	Rationale for (a)(2) Determination
N/A	N/A	N/A	N/A

Lakes and ponds, and impoundments of jurisdictional waters ((a)(3) waters):

(a)(3) Name	(a)(3) Size	(a)(3) Criteria	Rationale for (a)(3) Determination
N/A	N/A	N/A	N/A

Adjacent wetlands ((a)(4) waters):

(a)(4) Name	(a)(4) Size	(a)(4) Criteria	Rationale for (a)(4) Determination
N/A	N/A	N/A	N/A

[1] Map(s)/Figure(s) are attached to the AJD provided to the requestor.
[2] If the navigable water is not subject to the ebb and flow of the tide or included on the District's list of Rivers and Harbors Act Section 10 navigable waters list, do NOT use this document to make the determination. The District must continue to follow the procedure outlined in 33 CFR part 329.14 to make a Rivers and Harbors Act Section 10 navigability determination.
[3] A stand-alone TNW determination is completed independently of a request for an AJD. A stand-alone TNW determination is conducted for a specific segment of river or stream or other type of waterbody, such as a lake, where independent upstream or downstream limits or lake borders are established. A stand-alone TNW determination should be completed following applicable guidance and should NOT be documented on the AJD form.
[4] Some excluded waters, such as (b)(2) and (b)(4), may not be specifically identified on the AJD form unless a requestor specifically asks a Corps district to do so. Corps Districts may, in case-by-case instances, choose to identify some or all of these waters within the review area.
[5] Because of the broad nature of the (b)(1) exclusion and in an effort to collect data on specific types of waters that would be covered by the (b)(1) exclusion, four sub-categories of (b)(1) exclusions were administratively created for the purposes of the AJD Form. These four sub-categories are not new exclusions, but are simply administrative distinctions and remain (b)(1) exclusions as defined by the NWPR.

D. Excluded Waters or Features

Excluded waters ((b)(1) – (b)(12))[4]:

Exclusion Name	Exclusion Size	Exclusion[5]	Rationale for Exclusion Determination
N/A	N/A	N/A	N/A

III. SUPPORTING INFORMATION

A. Select/enter all resources that were used to aid in this determination and attach data/maps to this document and/or references/citations in the administrative record, as appropriate.

_X_ Information submitted by, or on behalf of, the applicant/consultant: *Joint Application submittal, Jan 19, 2021*
This information *is* sufficient for purposes of this AJD.
Rationale: *The submitted information documented the location of the project and the Corps was able to review online mapping sources to make a determination*

___ Data sheets prepared by the Corps: *Title(s) and/or date(s).*

_X_ Photographs: *Regulatory Viewer with NHD, NWI, and Aerial Layers, January 2021*

___ Corps Site visit(s) conducted on: *Date(s).*

___ Previous Jurisdictional Determinations (AJDs or PJDs): *ORM Number(s) and date(s).*

_X_ Antecedent Precipitation Tool: *provide detailed discussion in Section III.B.*

_X_ USDA NRCS Soil Survey: *Websoil Survey, Feb 2021*

_X_ USFWS NWI maps: *Regulatory Viewer with NHD, NWI, and Aerial Layers, January 2021*

_X_ USGS topographic maps: *Regulatory Viewer with Topo Layer, January 2021*

Other data sources used to aid in this determination:

Data Source (select)	Name and/or date and other relevant information
USGS Sources	N/A.
USDA Sources	N/A.
NOAA Sources	N/A.
USACE Sources	N/A.
State/Local/Tribal Sources	N/A.
Other Sources	N/A.

B. Typical year assessment(s): The Antecedent Precipitation tool shows that this site is in normal conditions.

C. Additional comments to support AJD: This project area is within the maintained right of way of Riverview Drive. Multiple online GIS platforms were reviewed and after review of different maps (topo, aerial, NWI, NHD, and soils), there is no indication that there are any aquatic resources on site.

[1] Map(s)/Figure(s) are attached to the AJD provided to the requestor.
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Sleezer Rd
irst Cooperative
Association
Riverview Dr
Colony Dr
Riverview Dr
Little Sioux River
Little Sioux River

PLANS OF IMPROVEMENTS FOR

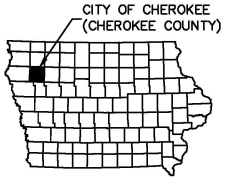
CITY OF CHEROKEE

BEI PROJECT No.: E19103

2021 CITY OF CHEROKEE MAGNETIC PARK TRAIL - PHASE I B

ALONG RIVERVIEW DRIVE FROM THE INTERSECTION OF E SPRUCE STREET AND RIVERVIEW DRIVE TO THE INTERSECTION OF SLEEZER ROAD AND RIVERVIEW DRIVE

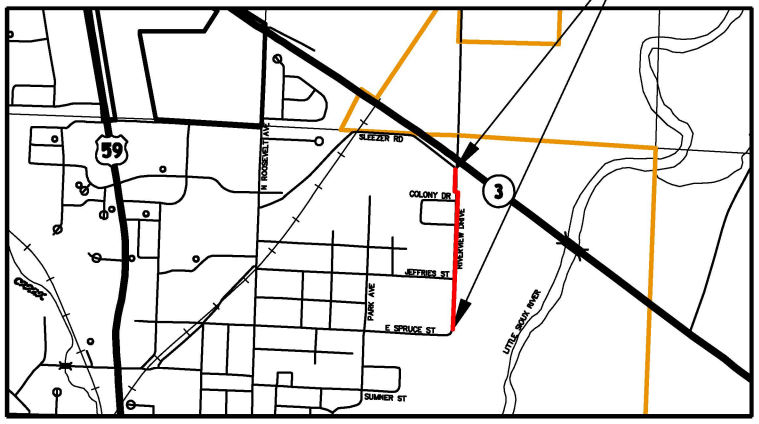
CHEROKEE, IOWA



Unless otherwise specified, the Iowa Statewide Urban Design and Specifications (SUDAS) for Public Improvements, 2021 edition, followed by the Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, Series 2015, and applicable general supplemental specifications and special provisions shall apply to construction on this project. In case of conflicting requirements, the more stringent shall apply.

INDEX OF SHEETS	
No.	DESCRIPTION
A.01	TITLE SHEET
A.02	LEGEND, GENERAL CONSTRUCTION NOTES, UTILITY CONTACT INFO.
A.03	OVERALL PLAN VIEW
B.01–B.04	TYPICAL CROSS SECTIONS
B.05	TRAIL SIGNAGE DETAILS
C.01	ESTIMATE OF QUANTITIES AND ESTIMATE REFERENCE INFORMATION
C.02–C.04	EROSION CONTROL PLAN SHEETS
D.01–D.09	PLAN AND PROFILE SHEETS
R.01–R.05	REMOVAL SHEETS
S.01	SIDEWALK SHEETS
T.01	TABULATIONS
U.01–U.07	DETAILS
W.01–W.09	CROSS SECTIONS

APPROXIMATE PROJECT LOCATION
STA 57+31.2 TO 79+55.9



(NOT TO SCALE)

CONDENSED PLAN SET FOR JOINT PERMIT APPLICATION

SHEETS INCLUDED ARE A.01-A.03, B.01-B.05, C.01-C.04, D.01-D.09, RELATION TO RIVER SHEET, AND W.01-W.09

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com

LICENSED PROFESSIONAL ENGINEER
THOMAS T. WILSON
25550
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

THOMAS T. WILSON, P.E. (date)
LICENSE NUMBER 25550

My license renewal date is December 31, 2022

Pages or sheets covered by this seal: All

LETTING DATE:
APRIL 1, 2021

2021 CITY OF CHEROKEE
MAGNETIC PARK TRAIL - PHASE I B
PROJECT No.: E19103

CITY OF CHEROKEE

Client:
City Of Cherokee
416 W Main St
Cherokee, IA 51012

Beck Engineering, Inc.
3301 Zenith Avenue
PO Box 238
Spirit Lake, IA 51360
(712) 336-3596

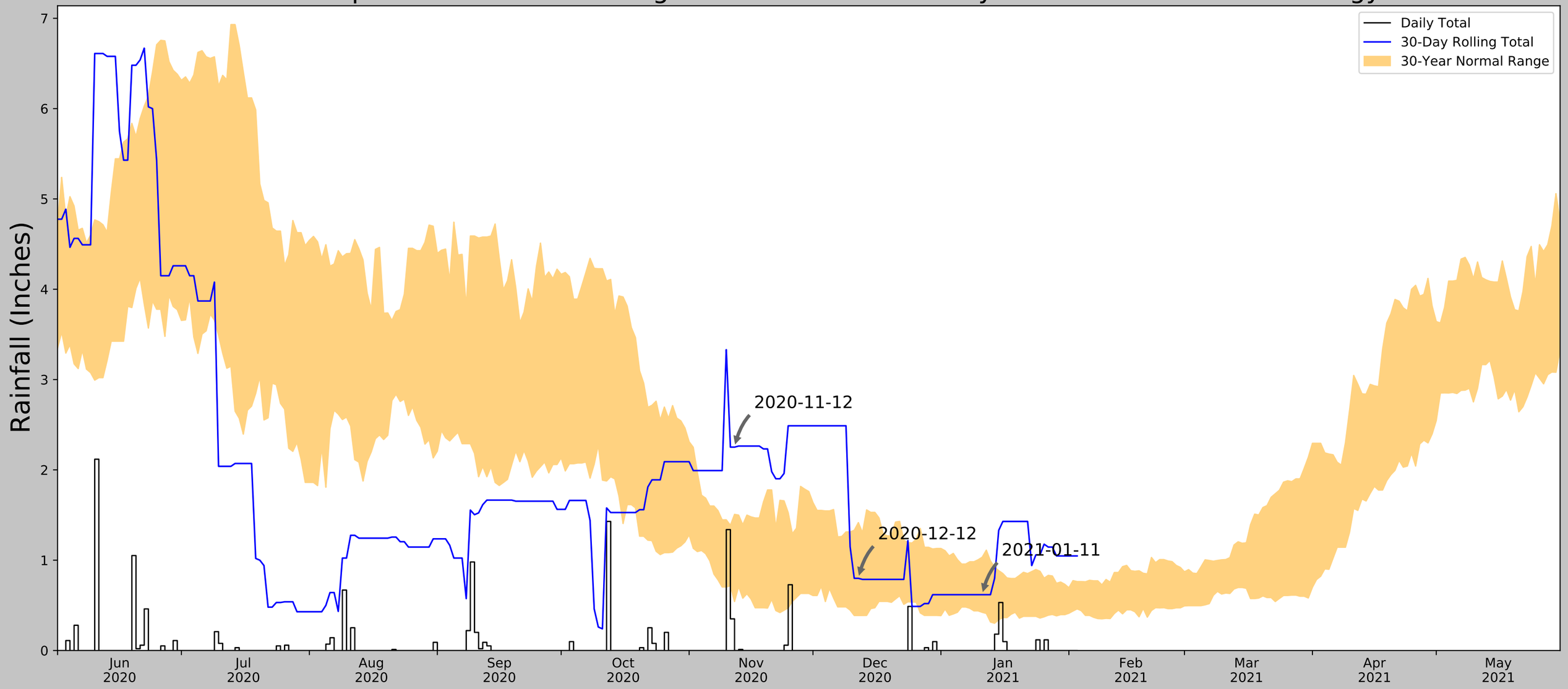
110 E Indian Street
Cherokee, IA 51012
(712) 225-9025

Beck Engineering, Inc.
Civil Engineering Land Surveying Landscape Architecture

2021 City Of Cherokee
Magnetic Park Trail - Phase I B
Title Sheet

Drawn	1/7/2021 By KTB	Checked by	TTW
Revised		Project No.	E19103
		Sheet A.01	

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	42.759641, -95.534642
Observation Date	2021-01-11
Elevation (ft)	1203.52
Drought Index (PDSI)	Not available
WebWIMP H_2O Balance	Wet Season

30 Days Ending	30^{th} %ile (in)	70^{th} %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2021-01-11	0.422835	1.033071	0.61811	Normal	2	3	6
2020-12-12	0.387795	1.416535	0.799213	Normal	2	2	4
2020-11-12	0.541732	1.50748	2.251969	Wet	3	1	3
Result							Normal Conditions - 13

Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

Written by Jason Deters
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
CHEROKEE	42.7572, -95.5378	1209.974	0.233	6.454	0.106	11346	90
CLEGHORN 2.5 NNE	42.8475, -95.7024	1430.118	10.449	226.598	7.069	4	0
WASHTA	42.5736, -95.7181	1149.934	15.878	53.586	7.996	1	0
CLEGHORN 4.4 N	42.8747, -95.7182	1408.137	12.237	204.617	8.011	1	0
HOLSTEIN	42.4897, -95.5489	1370.079	18.665	166.559	11.508	1	0

Rock Island District Regulatory Viewer

Digital Global Link

US Army Corps of Engineers

Regulatory Viewer | Regulatory Map | Compliance Viewer | IPaC | I-Sites | Mitigation Banking | IL IAS

Rock Island District Regulatory Viewer

42.7598, -95.5347

Show search results for 42.7598, -95....

Imagery and Lidar

- Photo Dates (External Web GIS Service)
- MVR Quad Maps
- IA LiDAR DEM 1m NAVD88 ft
- IA LiDAR DEM 1m hillshade
- IA LiDAR DEM 3m NAVD88 ft
- IA LiDAR DEM 3m hillshade
- IL_LiDAR_DEM_1m_NAVD88_ft
- IL_LiDAR_DEM_1m_hillshade
- IL NAIP 2004 (External Web GIS Service)
- IL NAIP 2005 (External Web GIS Service)
- IL NAIP 2006 (External Web GIS Service)
- IL NAIP 2007 (External Web GIS Service)
- IL NAIP 2010 (External Web GIS Service)
- IL NAIP 2011 (External Web GIS Service)

Cherokee

600ft

-95.532 42.760 Degrees

Rock Island District Regulatory Viewer

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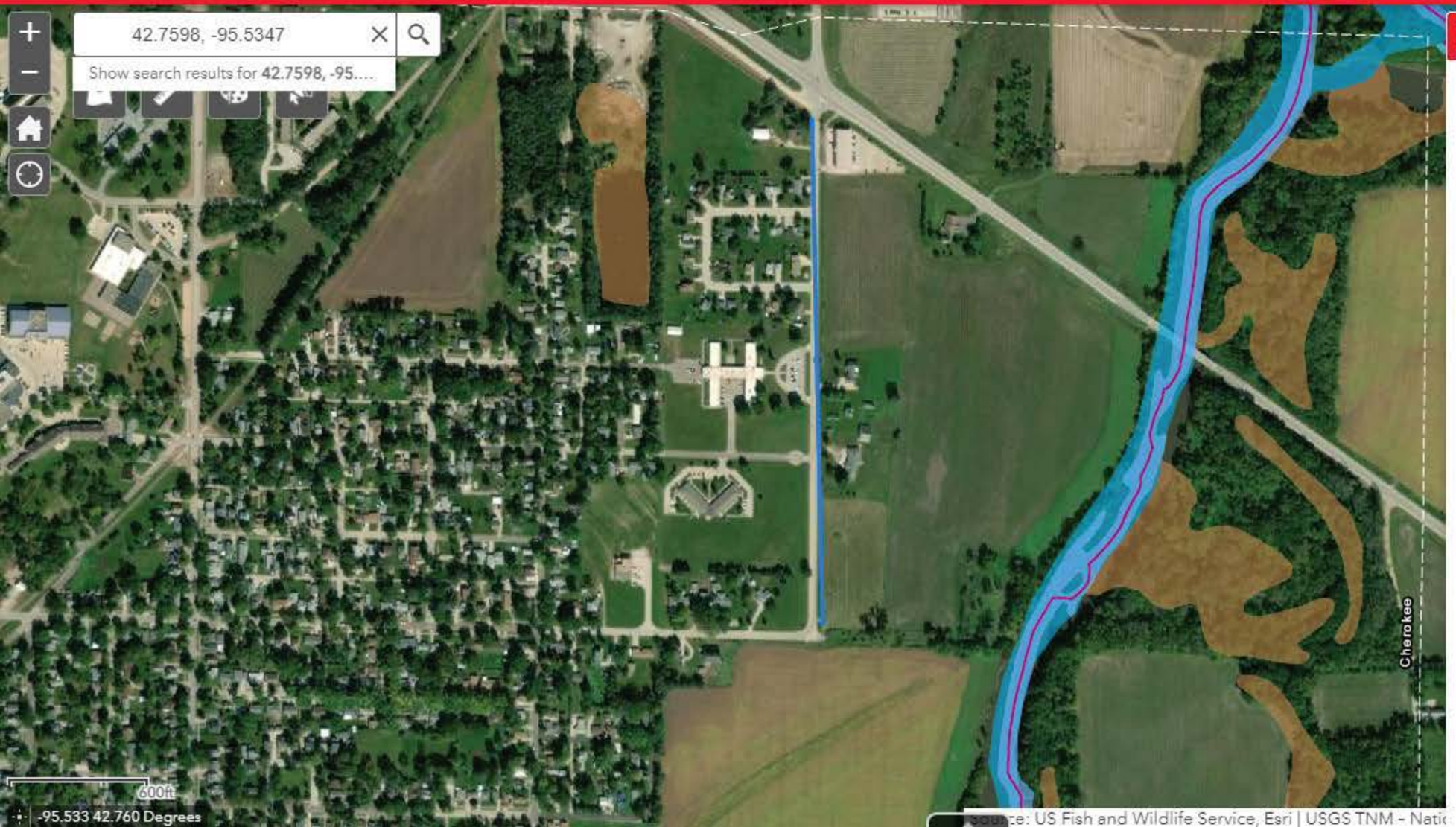
Rock Island District Regulatory Viewer



Layer List

- [ ] NLD - Leveed Area
- [ ] USACE_Boundaries - USACE Districts
- [ ] MVR Counties
- [ ] Roads
- [ ] Localities for Reg Viewer
- [ ] PLSS
- [ ] PADUS (External Web GIS Service)
- [ ] Real Estate for Reg Viewer
- [x] National Hydrography Dataset (NHD) (External Web GIS Service)
- [ ] Watersheds (External Web GIS Service)
- [ ] Section 10 Waters
- [x] National Wetlands Inventory (External Web GIS Service)
- [ ] USA Soils Hydric Class (External Web GIS Service)
- [ ] USA Soils Map Units (External Web GIS Service)

Rock Island District Regulatory Viewer

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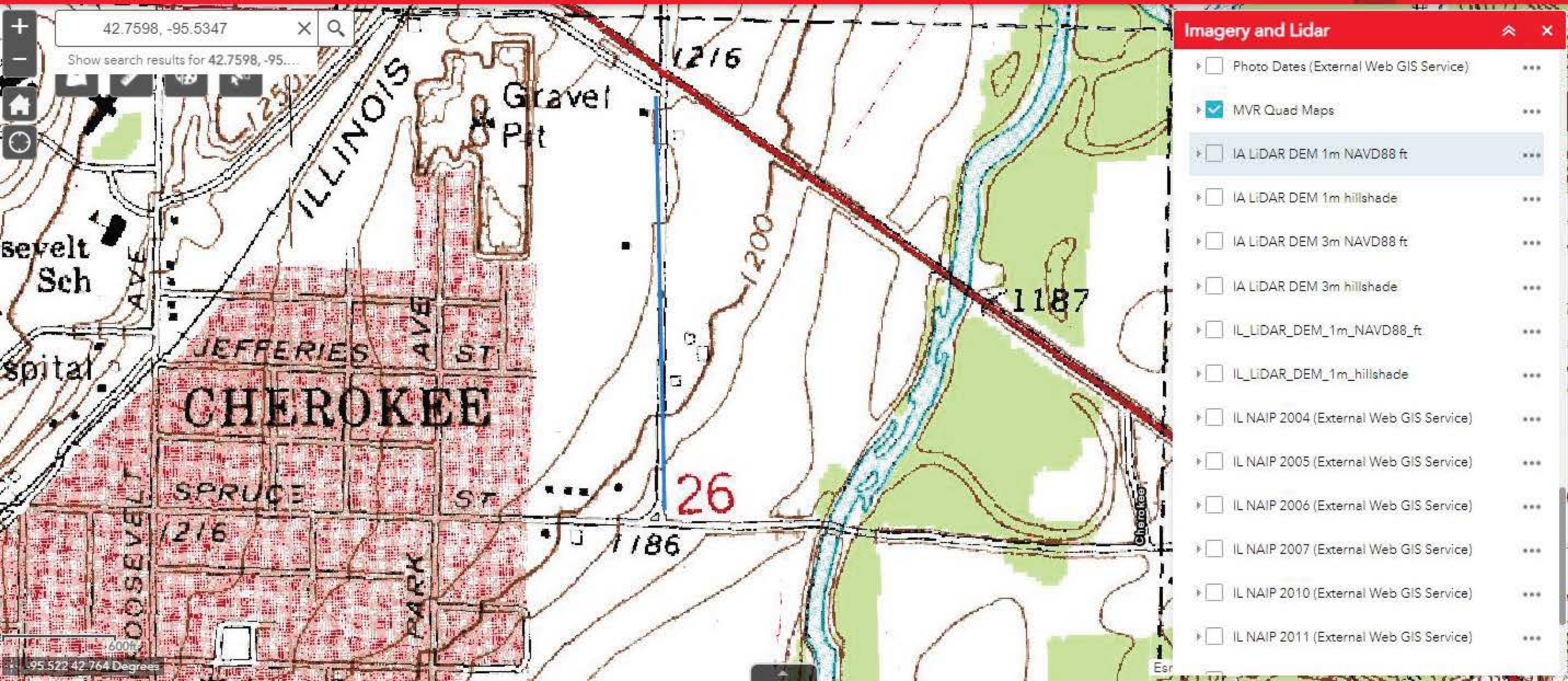
Rock Island District Regulatory Viewer



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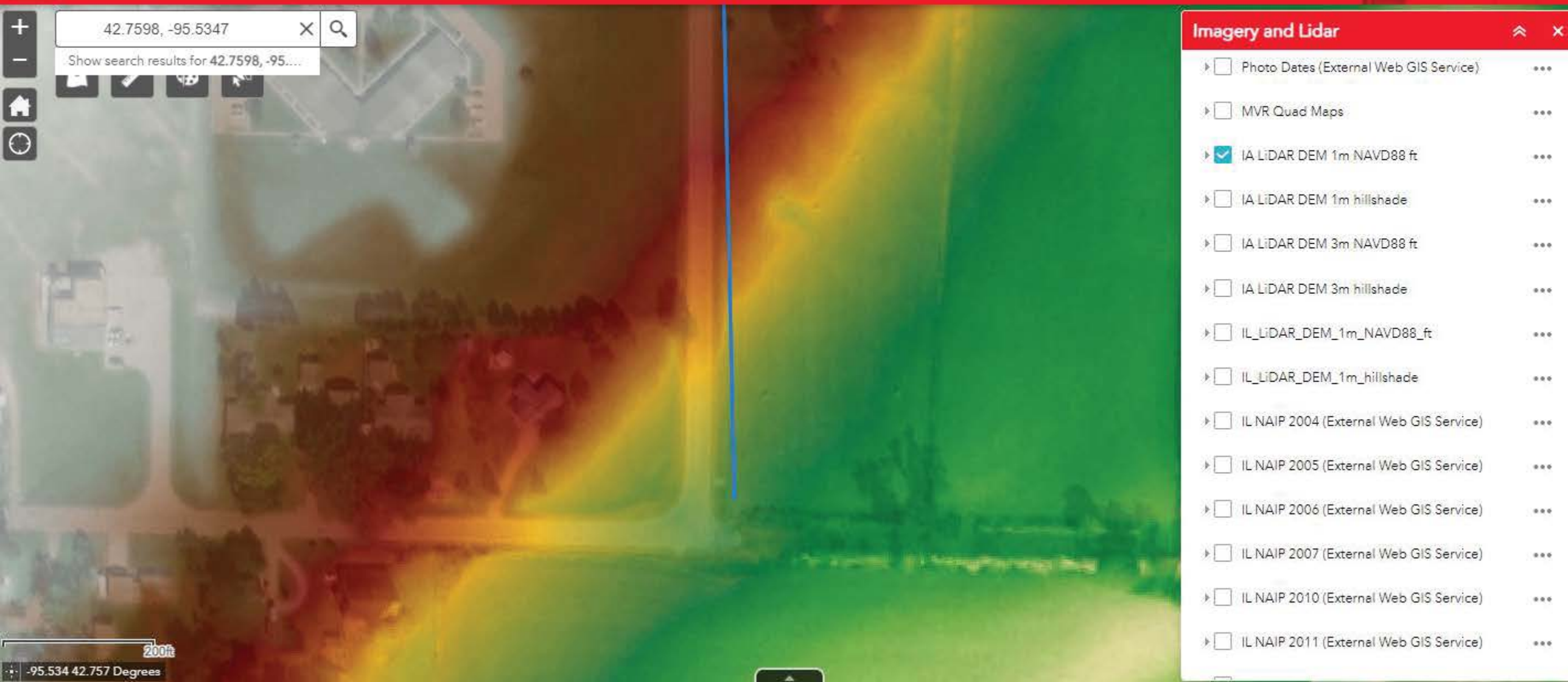

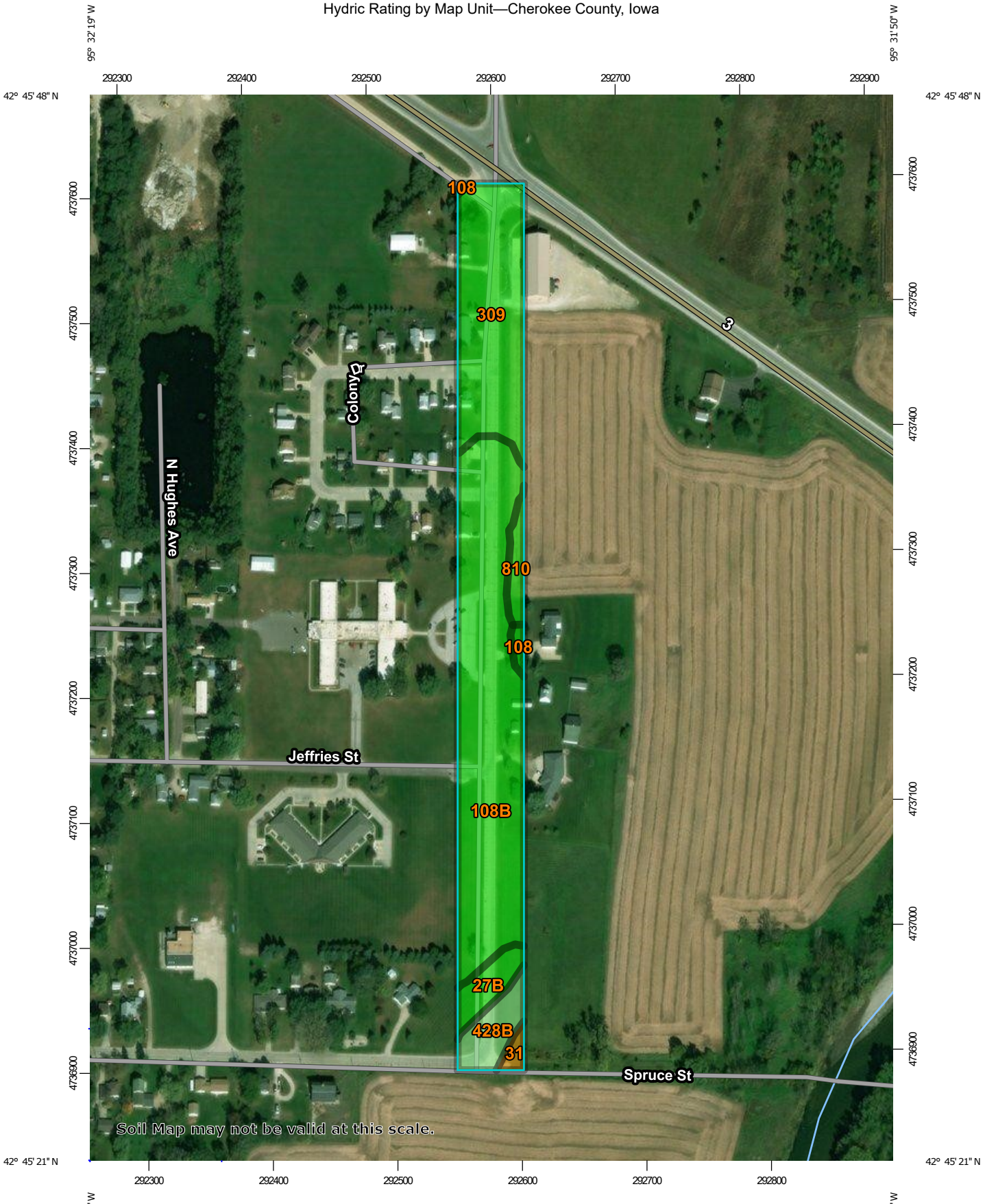

Map Scale: 1:4,160 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 200 400 800 1200

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Lines
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Soil Rating Points
- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 to 65%)
- Hydric (1 to 32%)
- Not Hydric (0%)
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Cherokee County, Iowa
Survey Area Data: Version 30, Jun 10, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 11, 2013—Sep 29, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
27B	Terril loam, 2 to 5 percent slopes	0	0.4	4.7%
31	Afton silty clay loam, 0 to 2 percent slopes, occasionally flooded	95	0.1	1.2%
108	Wadena loam, 24 to 32 inches to sand and gravel, 0 to 2 percent	0	0.1	1.0%
108B	Wadena loam, 24 to 32 inches to sand and gravel, 2 to 5 percent	0	5.1	54.6%
309	Allendorf silty clay loam, 0 to 2 percent slopes	0	2.7	29.2%
428B	Ely silty clay loam, shallow loess, 2 to 5 percent slopes	5	0.6	6.2%
810	Galva silty clay loam, terrace, 0 to 2 percent slopes	0	0.3	3.0%
Totals for Area of Interest			**9.4**	**100.0%**

Description

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Rating Options

Aggregation Method: Percent Present

Component Percent Cutoff: None Specified

Tie-break Rule: Lower