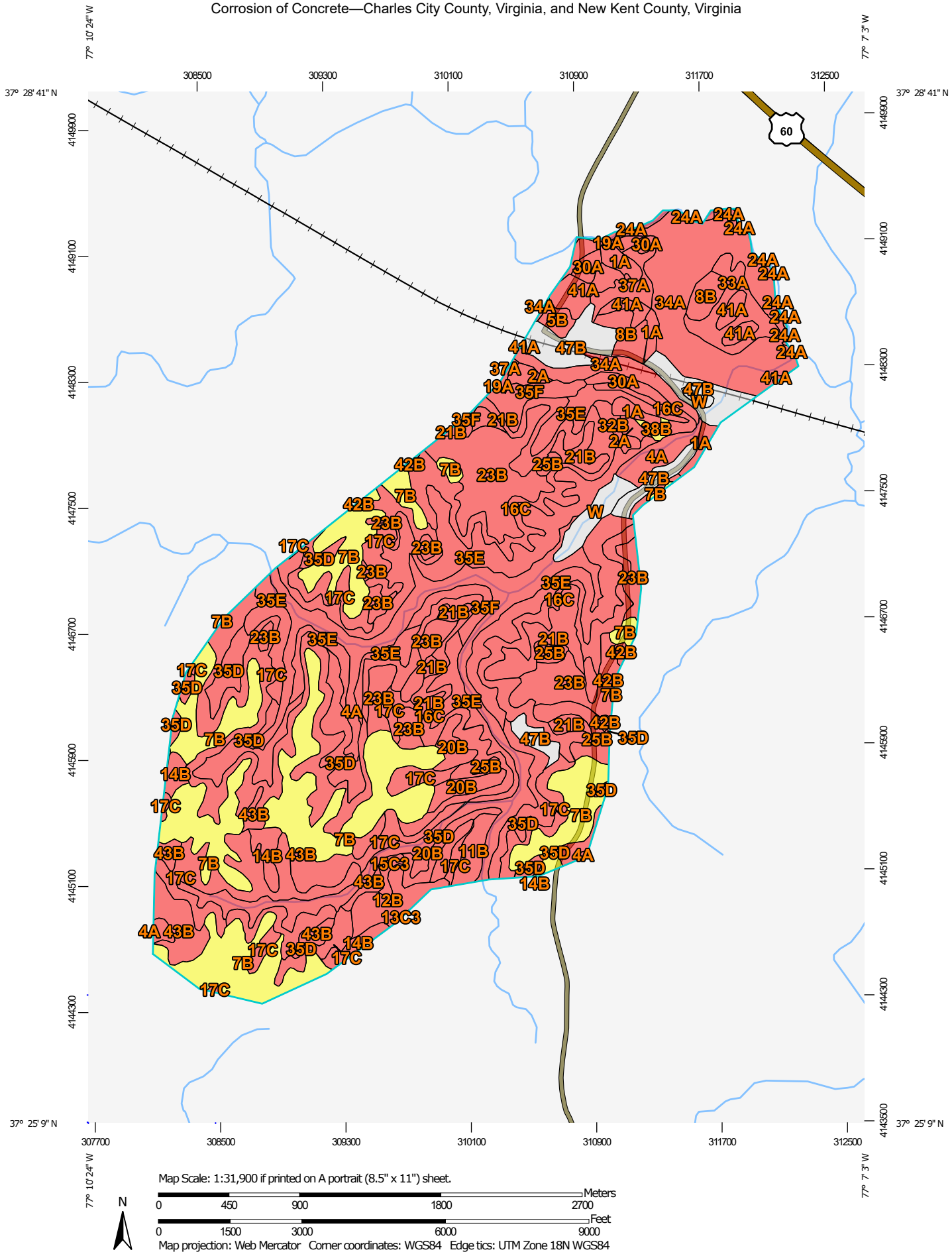
77° 10' 24" W
77° 7' 3" W
37° 28' 41" N
37° 25' 9" N
308500
309300
310100
310900
311700
312500
307700
4149900
4149100
4148300
4147500
4146700
4145900
4145100
4144300
4143500
60
Map Scale: 1:31,900 if printed on A portrait (8.5" x 11") sheet.
N
Meters
0 450 900 1800 2700
Feet
0 1500 3000 6000 9000
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- High
- Moderate
- Low
- Not rated or not available

Soil Rating Lines

- High
- Moderate
- Low
- Not rated or not available

Soil Rating Points

- High
- Moderate
- Low
- Not rated or not available

Water Features

- Streams and Canals

Transportation

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

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at scales ranging from 1:15,800 to 1:24,000.

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: Charles City County, Virginia
Survey Area Data: Version 19, Aug 28, 2024

Soil Survey Area: New Kent County, Virginia
Survey Area Data: Version 17, Aug 30, 2024

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

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

Corrosion of Concrete

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
1A	Altavista fine sandy loam, 0 to 3 percent slopes	High	24.8	1.0%
2A	Augusta sandy loam, 0 to 2 percent slopes	High	10.6	0.4%
4A	Bibb fine sandy loam, 0 to 2 percent slopes, frequently flooded	High	199.1	8.0%
5B	Bojac loamy fine sand, 2 to 6 percent slopes	High	7.9	0.3%
7B	Caroline-Emporia complex, 2 to 6 percent slopes	Moderate	375.9	15.1%
8B	Catpoint loamy sand, 0 to 4 percent slopes	High	27.7	1.1%
11B	Conetoe loamy sand, 0 to 4 percent slopes	High	15.3	0.6%
12B	Craven loam, 2 to 6 percent slopes	High	26.5	1.1%
13C3	Craven clay loam, 6 to 10 percent slopes, severely eroded	High	0.3	0.0%
14B	Craven-Caroline complex, 2 to 6 percent slopes	High	27.2	1.1%
15C3	Craven-Caroline complex, 6 to 10 percent slopes, severely eroded	High	4.9	0.2%
16C	Craven-Remlik complex, 6 to 10 percent slopes	High	215.6	8.7%
17C	Craven-Uchee complex, 6 to 10 percent slopes	High	303.2	12.2%
19A	Dragston fine sandy loam, 0 to 2 percent slopes	High	3.3	0.1%
20B	Emporia fine sandy loam, 2 to 6 percent slopes	High	31.4	1.3%
21B	Emporia gravelly fine sandy loam, 2 to 6 percent slopes	High	65.1	2.6%
23B	Emporia-Kempsville complex, 2 to 6 percent slopes	High	179.6	7.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
25B	Kempsville loamy sand, 2 to 6 percent slopes	High	30.1	1.2%
30A	Munden loamy sand, 0 to 2 percent slopes	High	17.8	0.7%
32B	Nansemond loamy sand, 0 to 4 percent slopes	High	8.0	0.3%
33A	Nawney silt loam, 0 to 2 percent slopes, frequently flooded	High	32.1	1.3%
34A	Nawney silt loam, 0 to 2 percent slopes, ponded	High	176.6	7.1%
35D	Nevarc-Remlik complex, 10 to 15 percent slopes	High	149.3	6.0%
35E	Nevarc-Remlik complex, 15 to 25 percent slopes	High	266.2	10.7%
35F	Nevarc-Remlik complex, 25 to 60 percent slopes	High	35.3	1.4%
37A	Nimmo sandy loam, 0 to 2 percent slopes	High	17.9	0.7%
38B	Pamunkey loam, 2 to 6 percent slopes	Moderate	4.1	0.2%
41A	Seabrook loamy sand, 0 to 2 percent slopes	High	36.9	1.5%
42B	Slagle fine sandy loam, 0 to 4 percent slopes	High	9.2	0.4%
43B	Slagle-Emporia complex, 2 to 6 percent slopes	High	78.5	3.1%
47B	Udorthents, loamy, gently sloping		82.6	3.3%
W	Water		22.9	0.9%
Subtotals for Soil Survey Area			**2,485.6**	**99.8%**
Totals for Area of Interest			**2,491.2**	**100.0%**

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
24A	Nawney silt loam, 0 to 2 percent slopes, frequently flooded	High	5.6	0.2%
Subtotals for Soil Survey Area			**5.6**	**0.2%**
Totals for Area of Interest			**2,491.2**	**100.0%**

Description

ENG

Engineering

AGR

Agronomy

"Risk of corrosion" pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens concrete. The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The concrete in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the concrete in installations that are entirely within one kind of soil or within one soil layer.

The risk of corrosion is expressed as "low," "moderate," or "high."

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher