





P:\GIS\Elmira - MN0832\Maps\Offsite\Coldbrook\Flooding frequency map.mxd 5/14/2019 9:23:02 AM





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**Legend**

**Flooding Frequency Class**

None

Occasional

Frequent

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User

0165330660

Feet

1 inch = 600 feet

**Flooding Frequency Class**

Former Sperry Remington Site Elmira, New York

Geosyntec

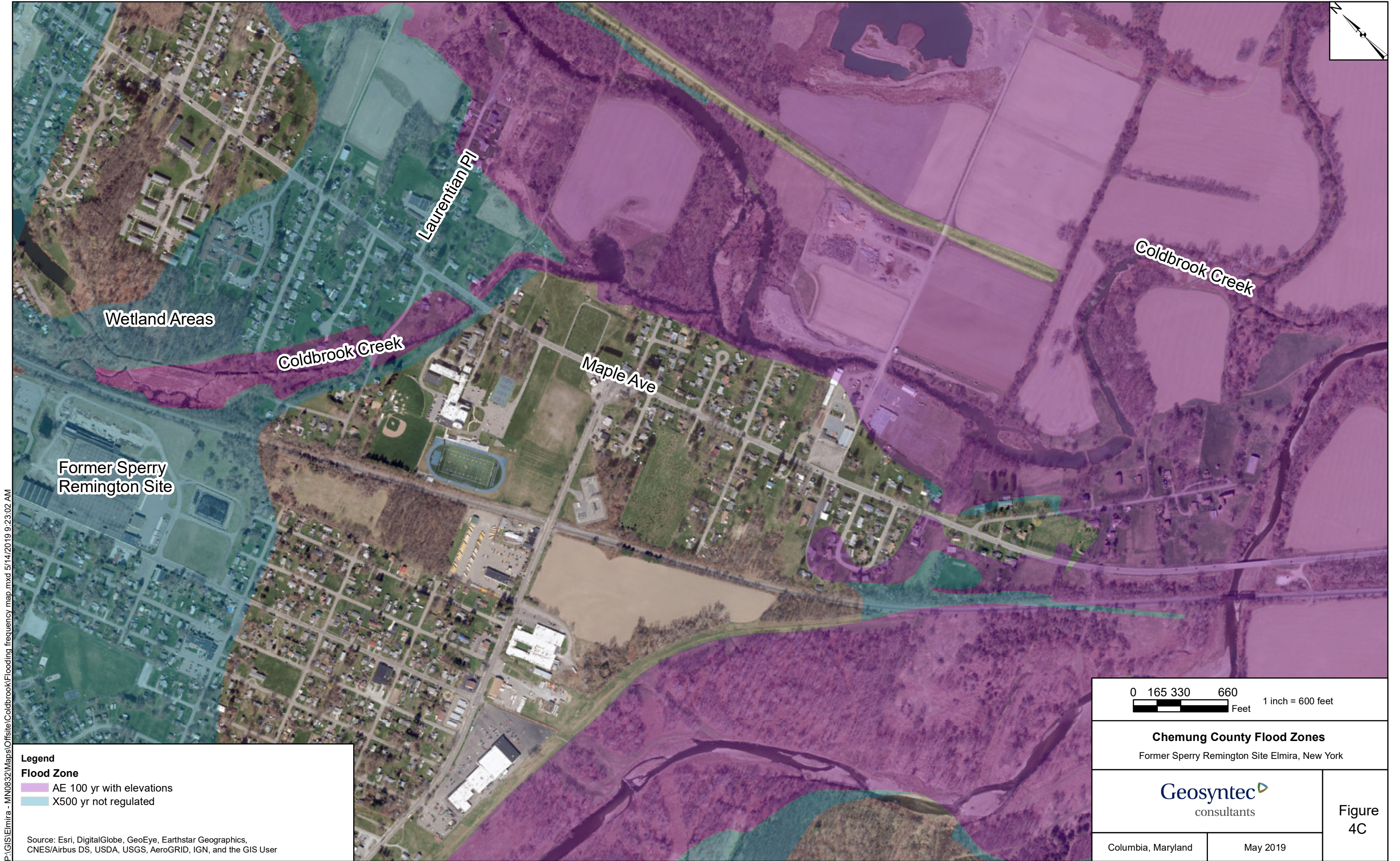
consultants

Figure 4B

Columbia, Maryland

May 2019





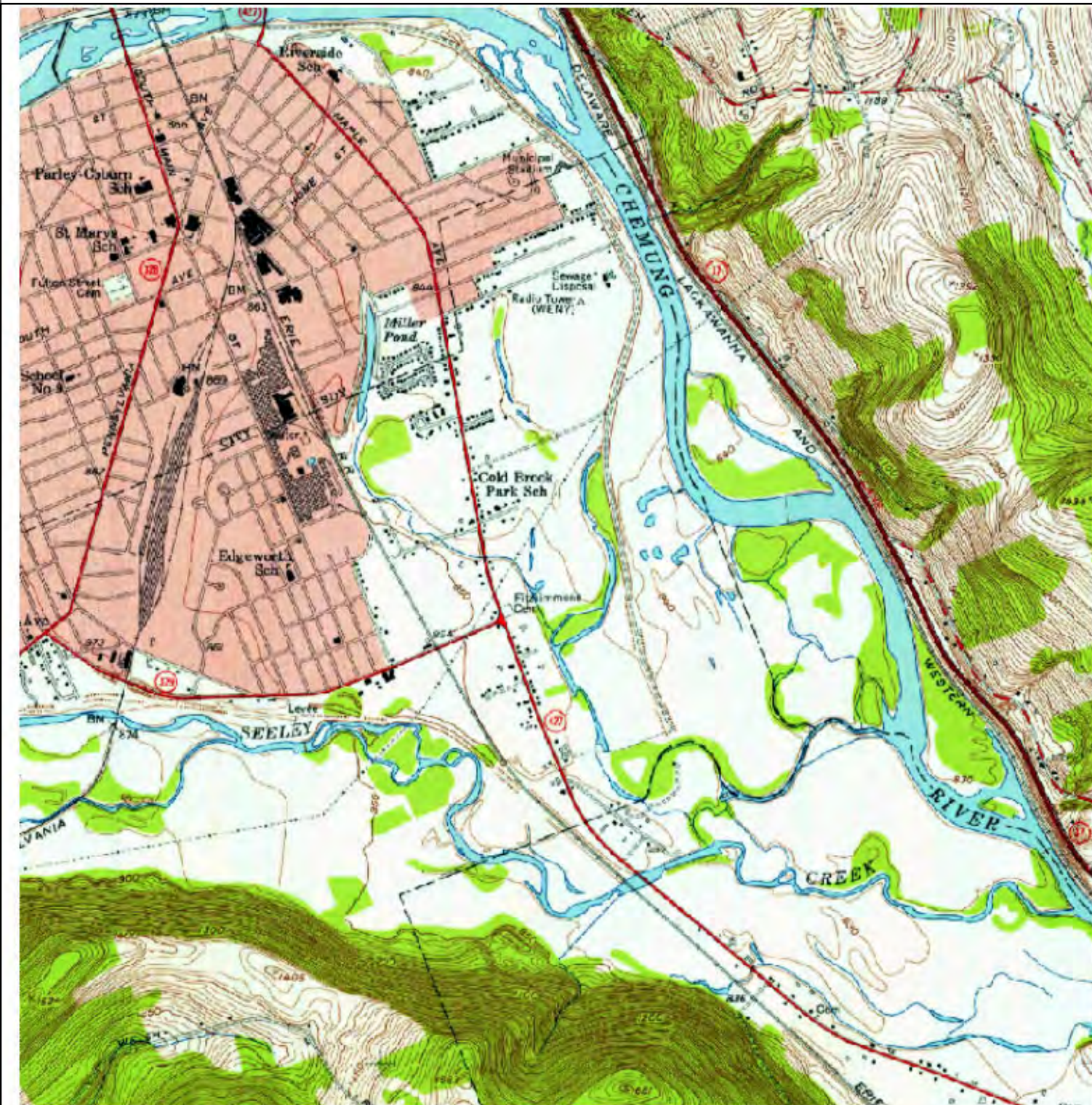
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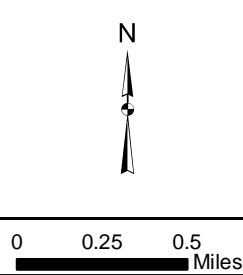
Historical Topographic Map - 1895



Historical Topographic Map - 1953

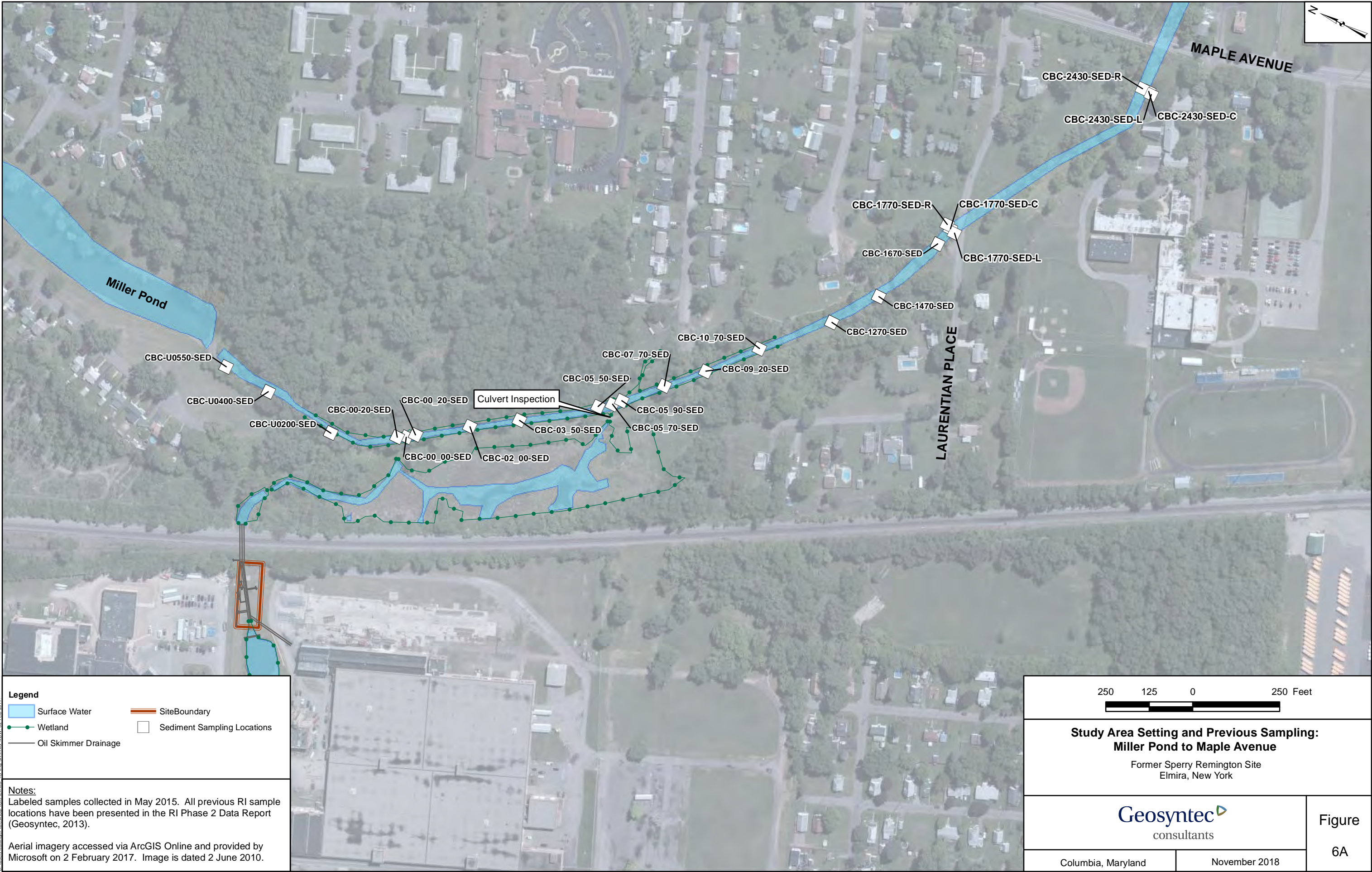


Sources:  
U.S. Geological Survey, 1895, USGS 1:62500-scale Quadrangle for Elmira, NY 1895: U.S. Geological Survey.  
U.S. Geological Survey, 1953, USGS 1:24000-scale Quadrangle for Elmira, NY 1953: U.S. Geological Survey.

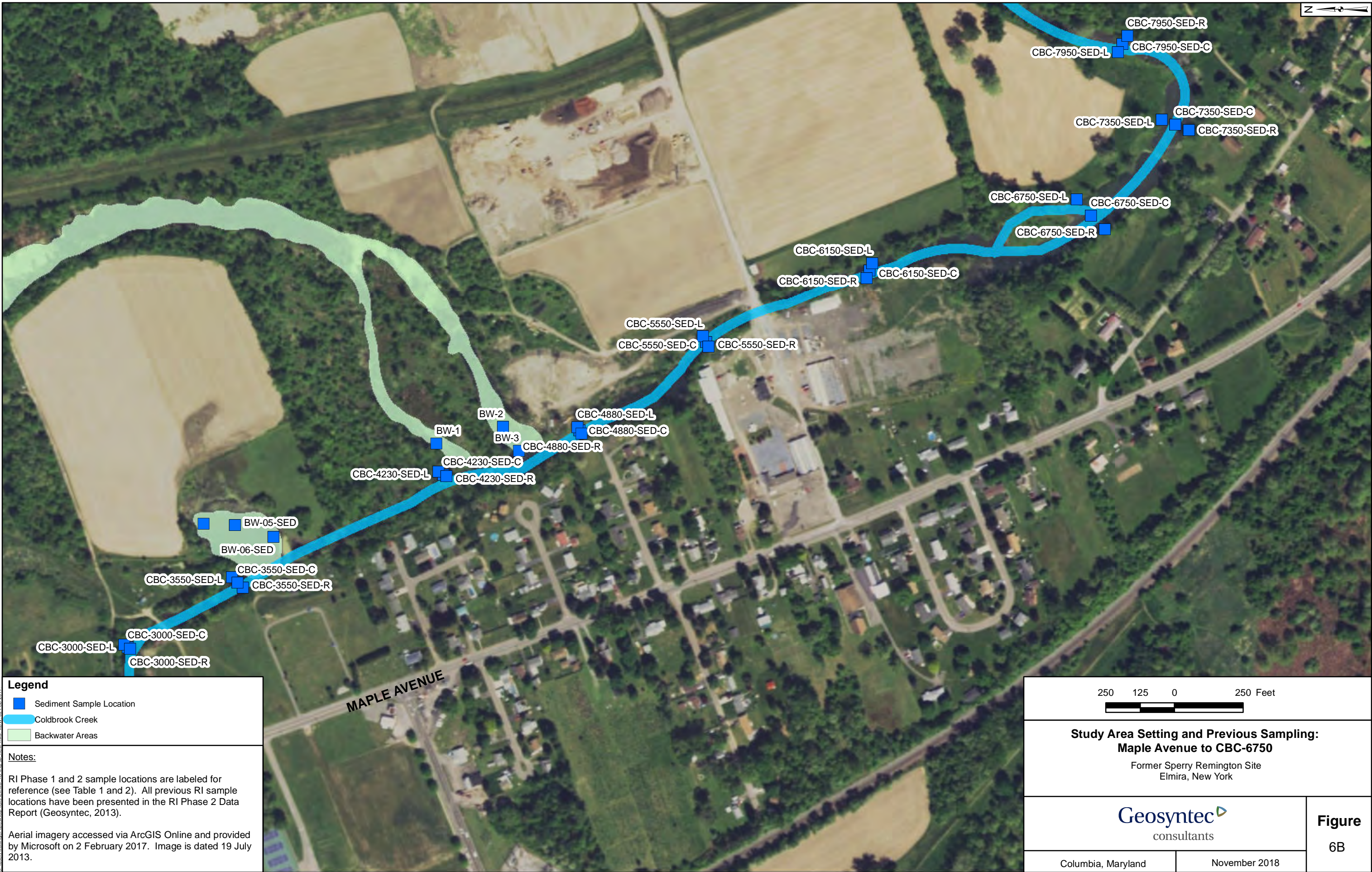


<b>Study Area Historical Topographic Maps: 1895 and 1953</b>	
Former Sperry Remington Site Elmira, New York	
<b>Geosyntec</b> consultants	<b>Figure</b> 5
Columbia, MD	November 2018

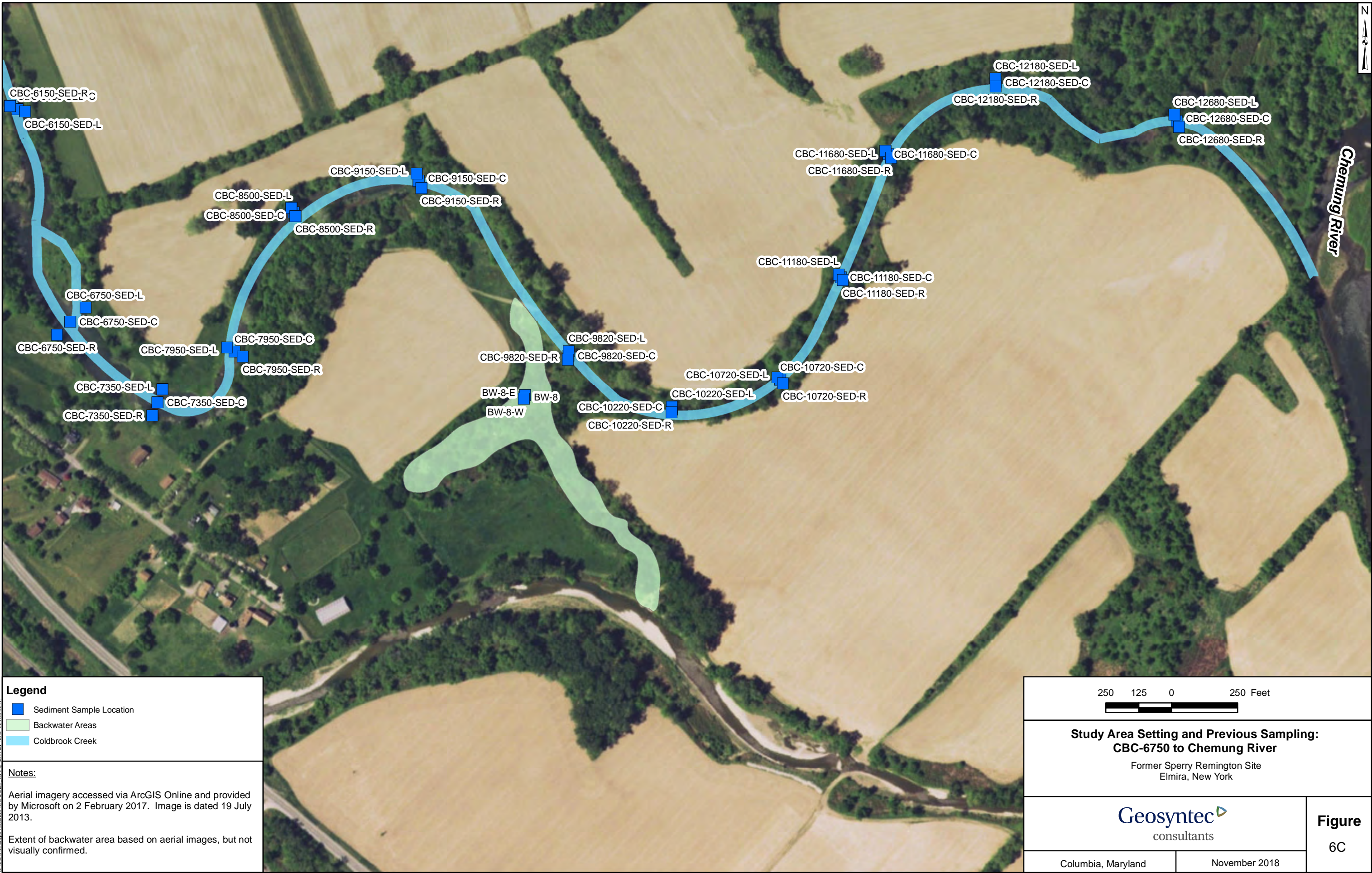




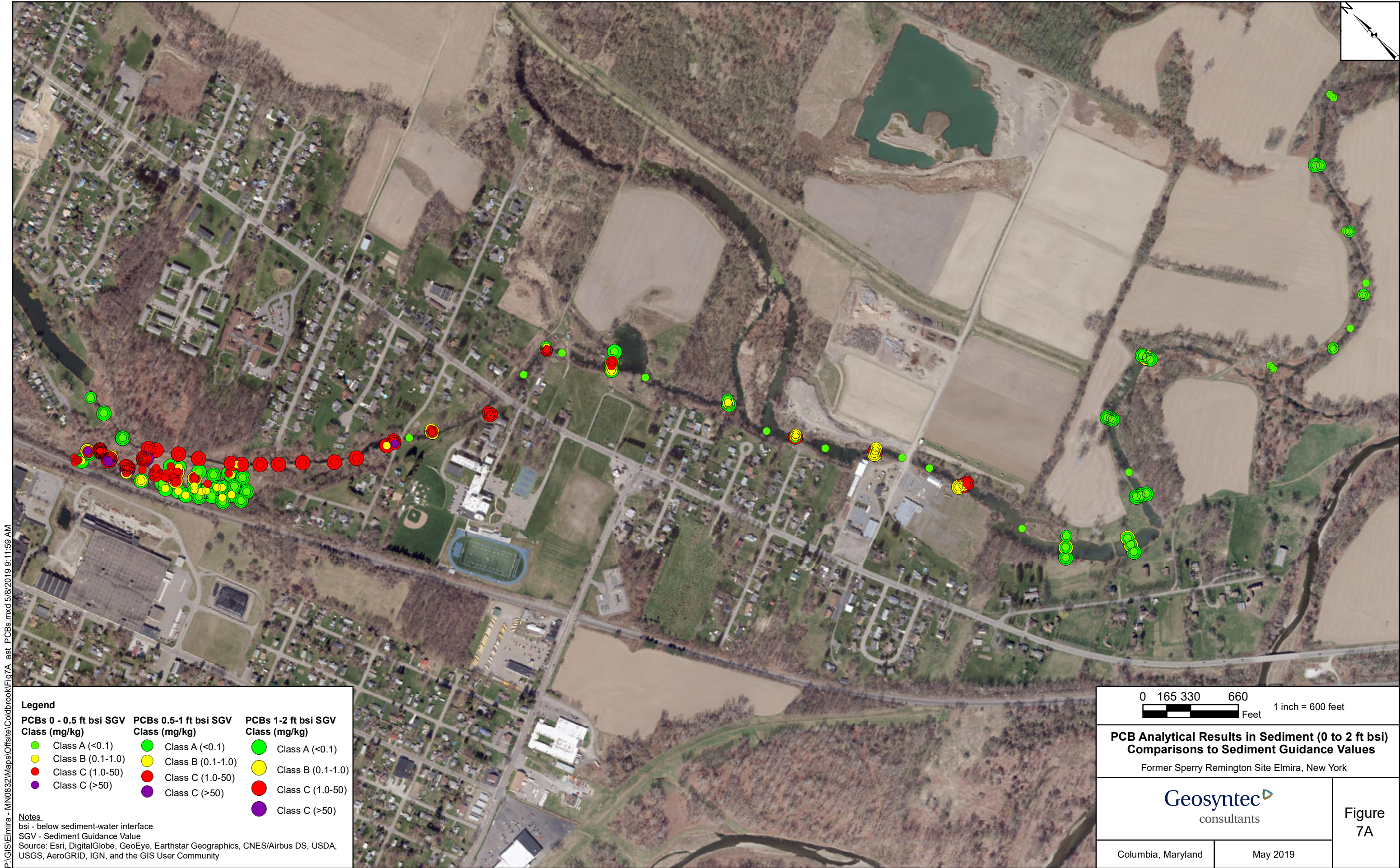






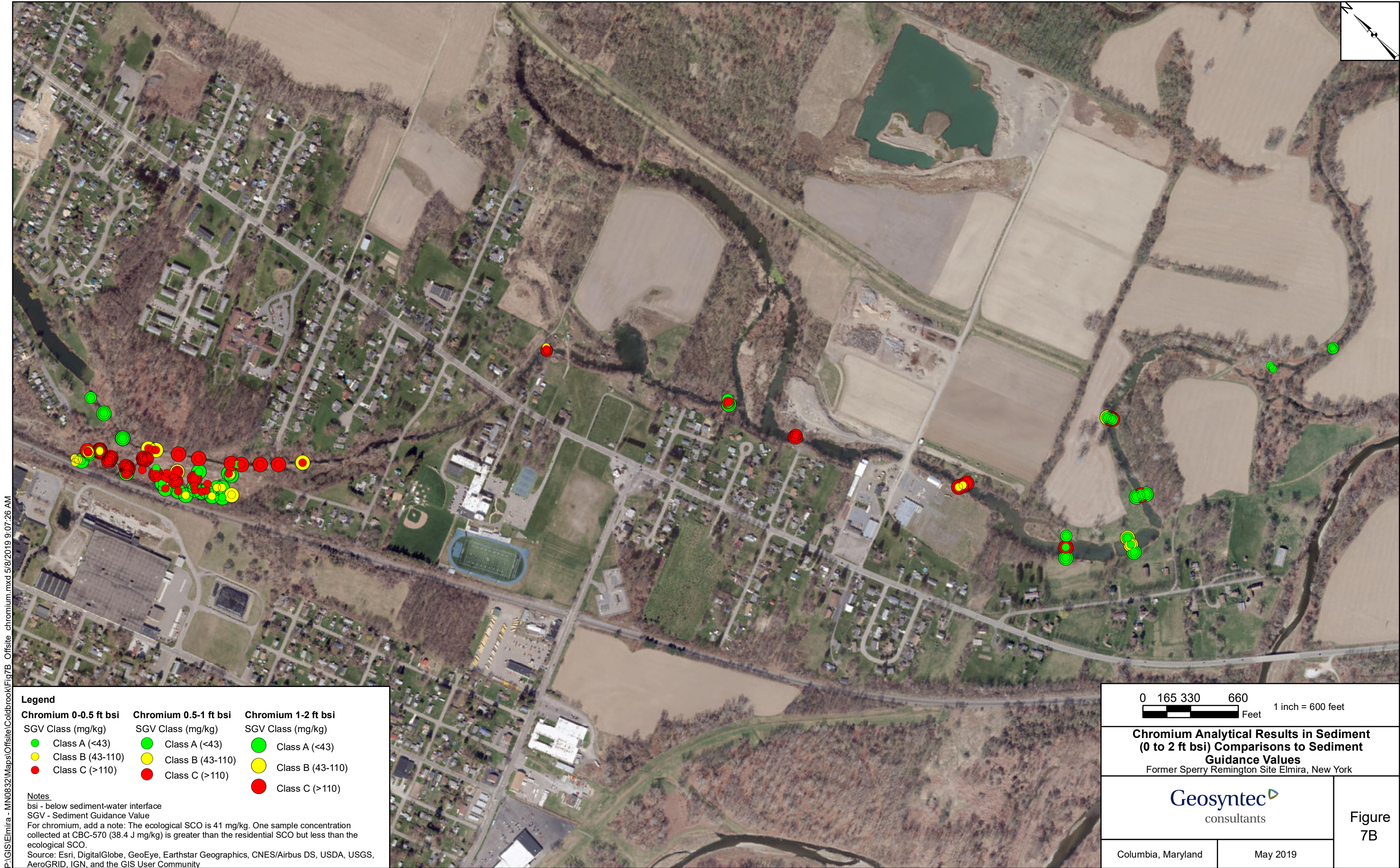






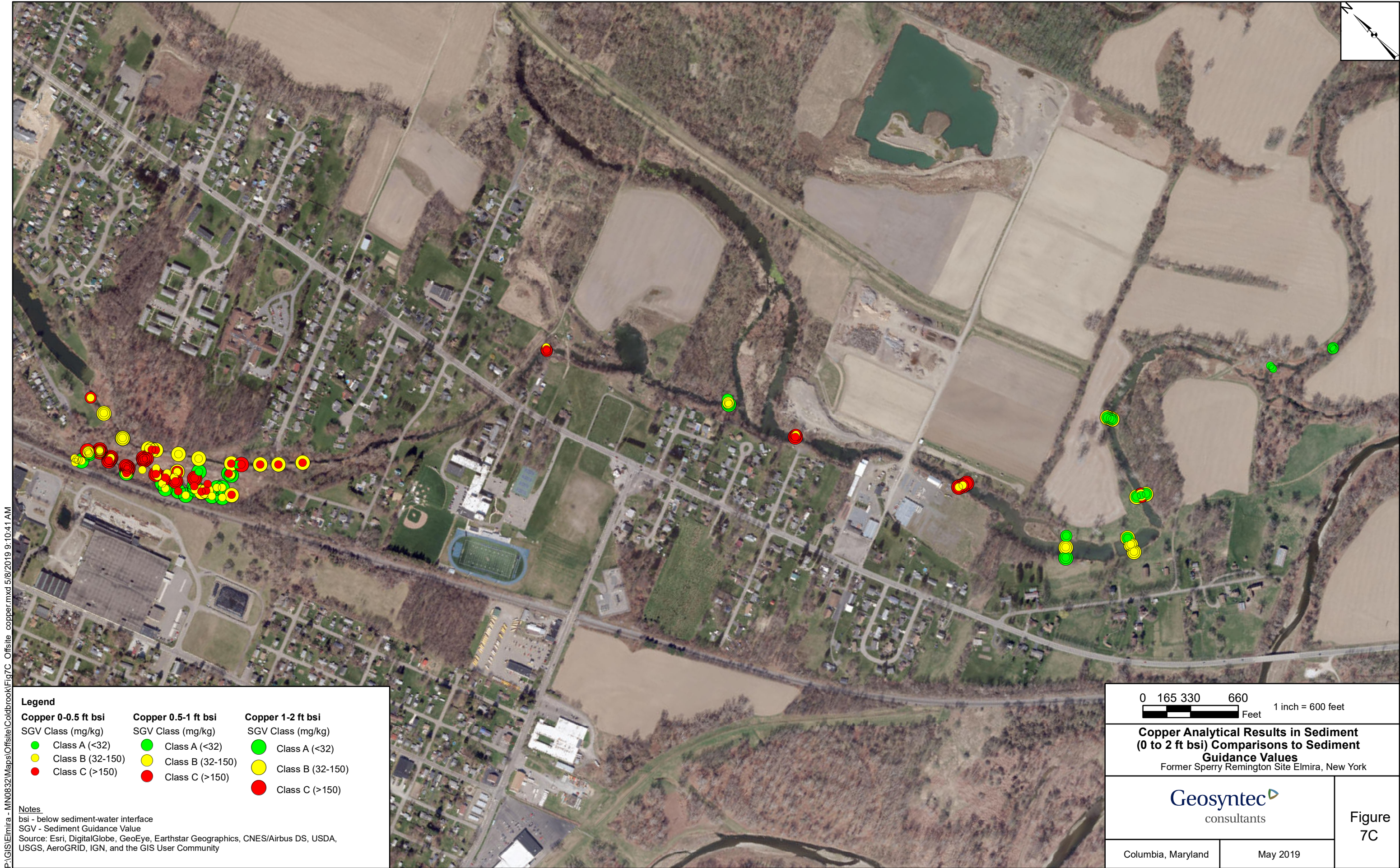
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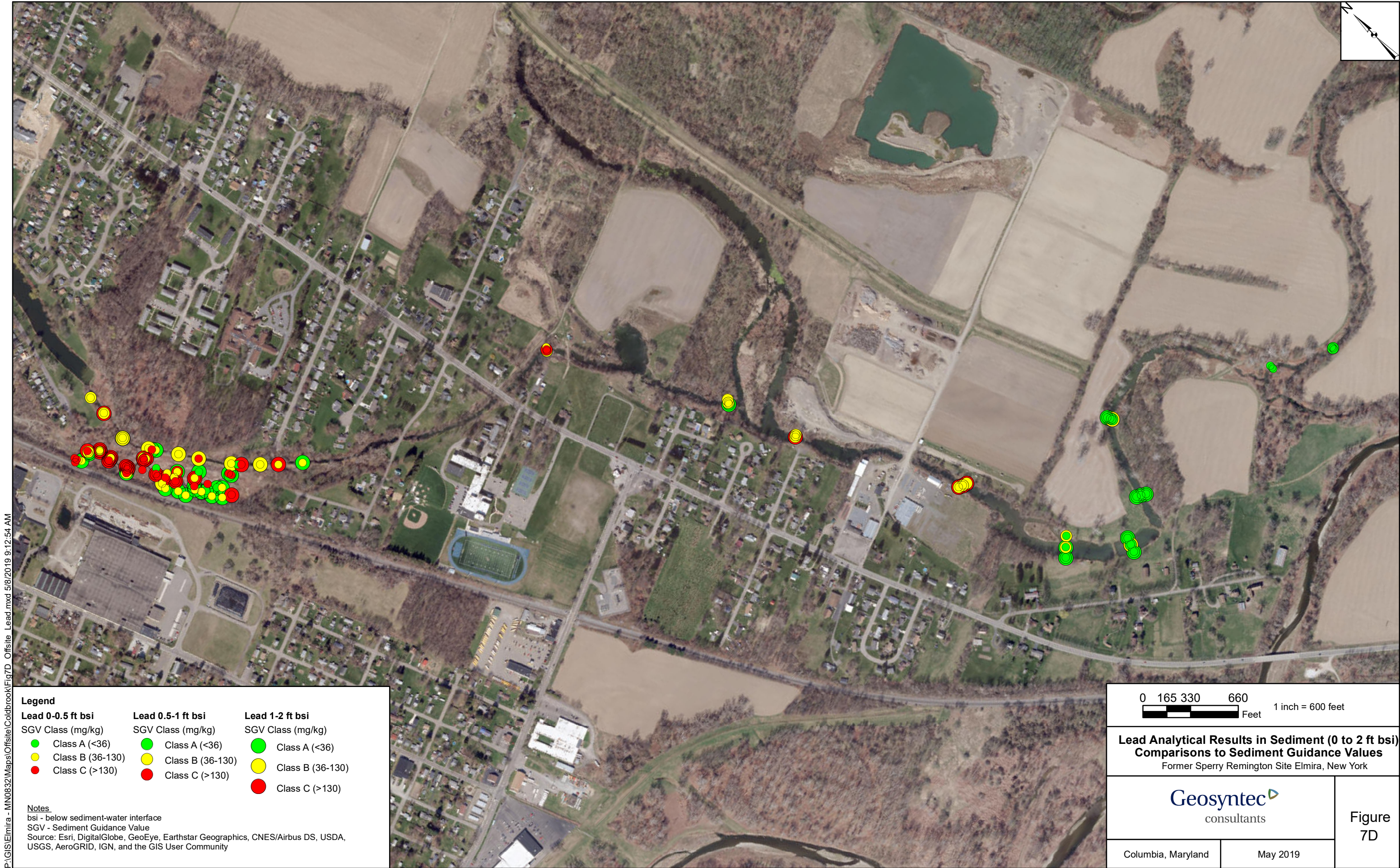
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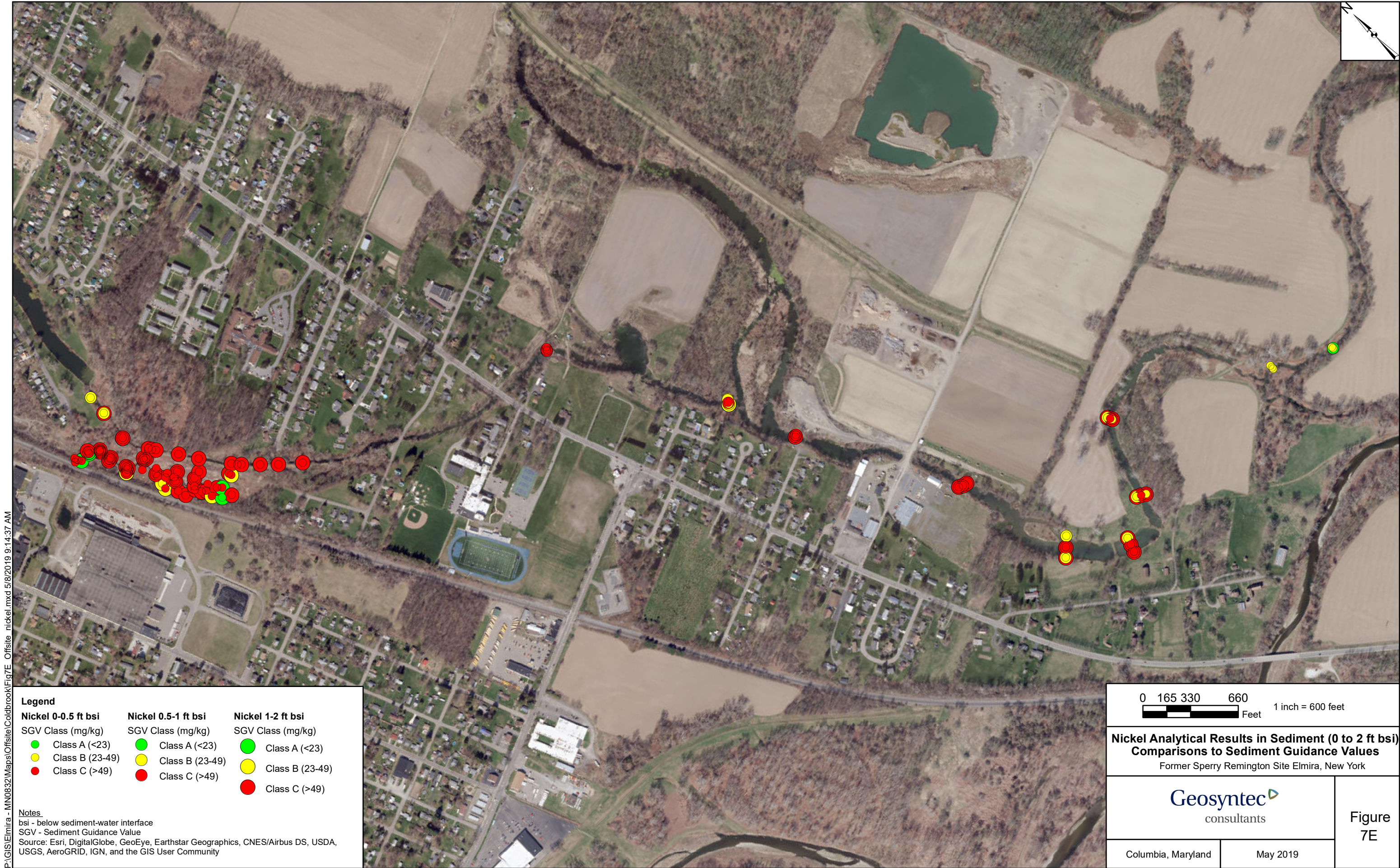
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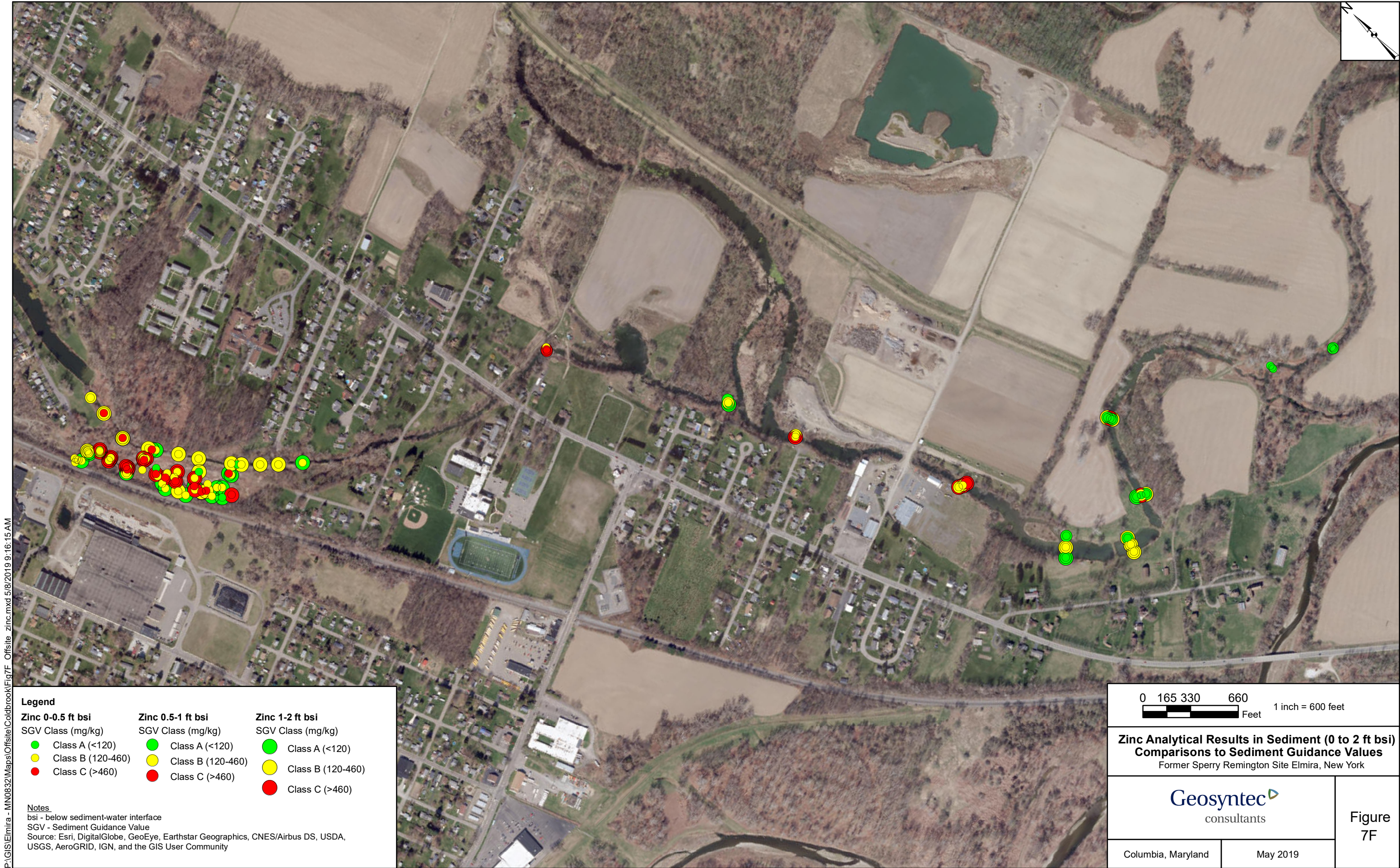
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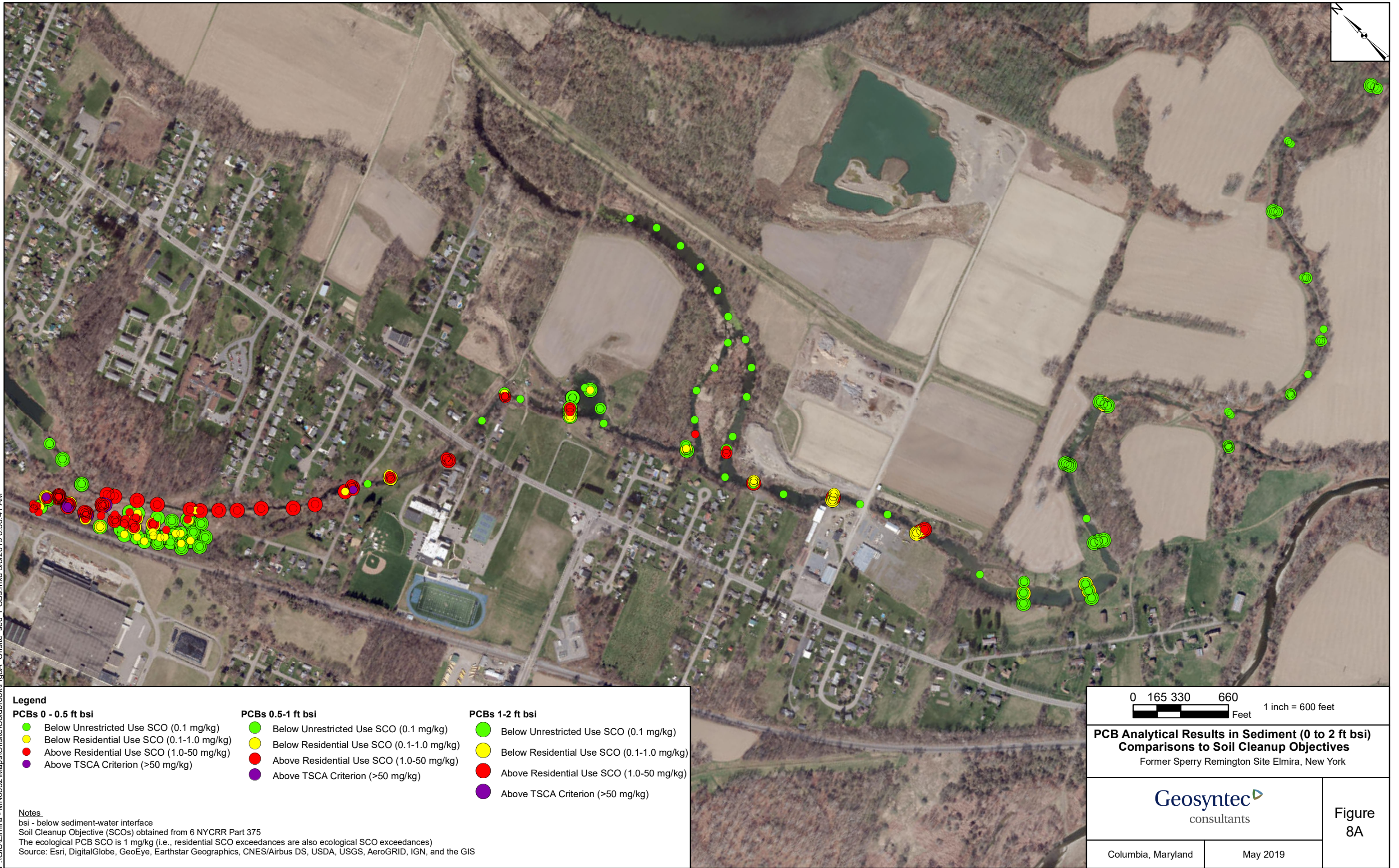




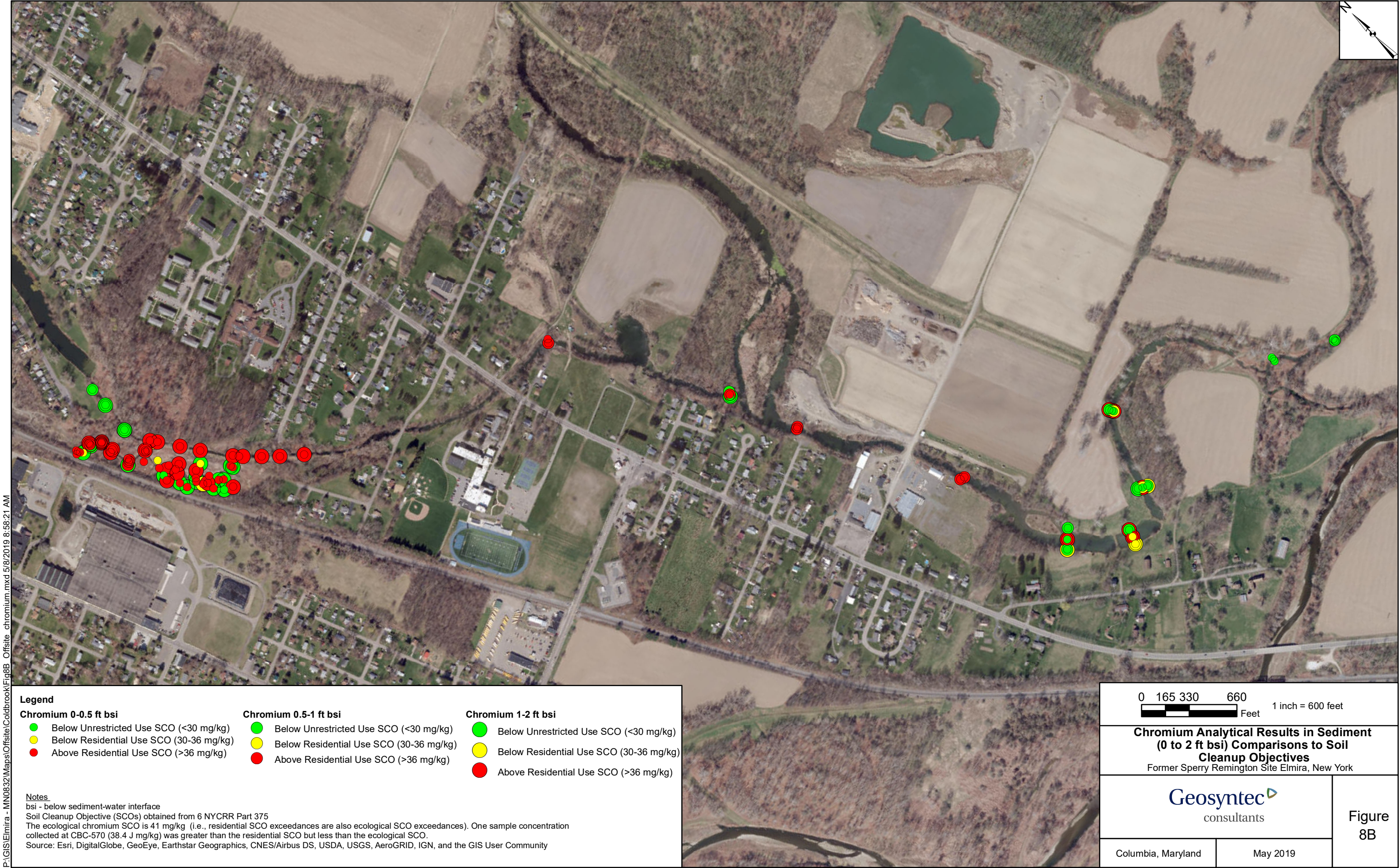
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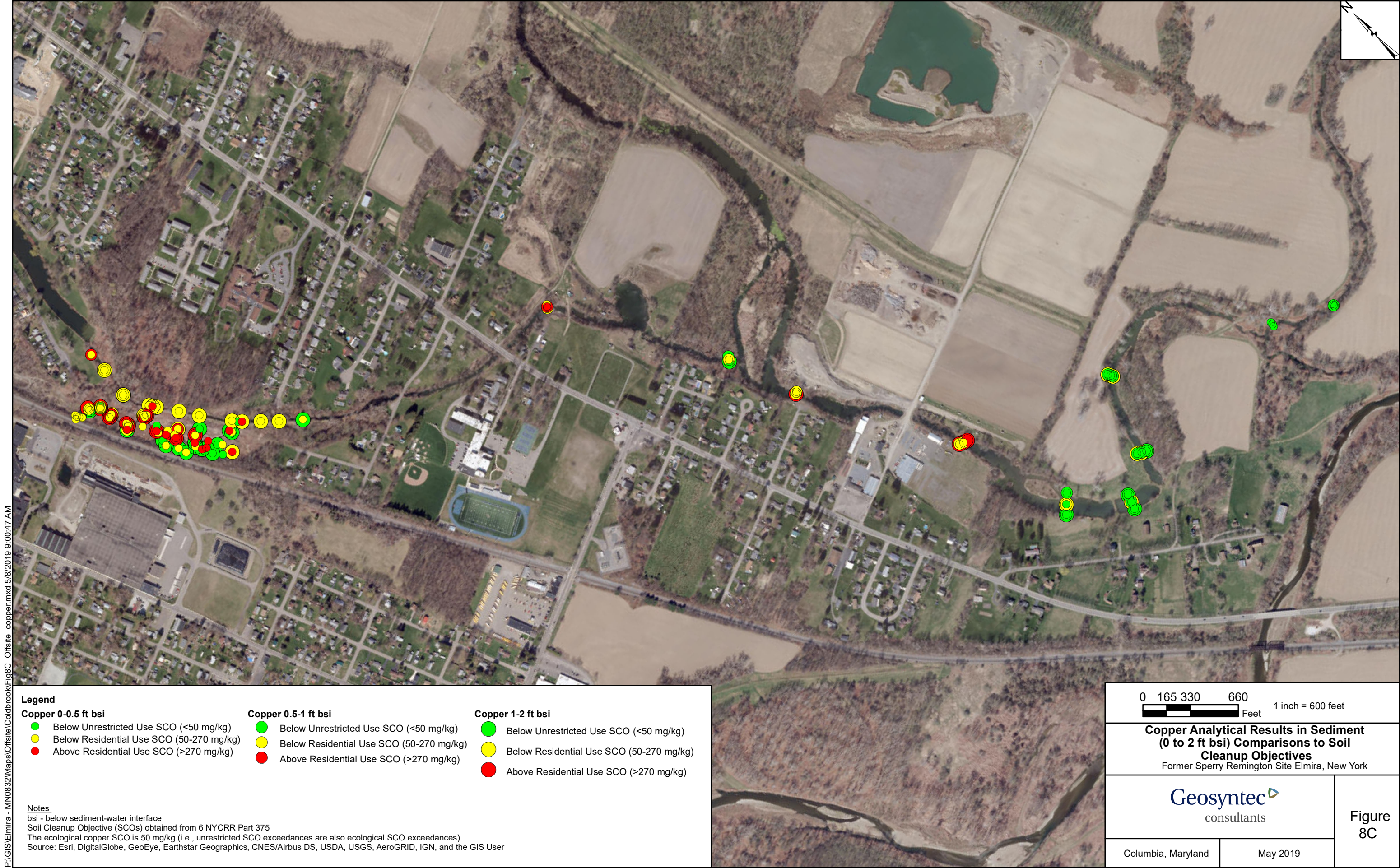






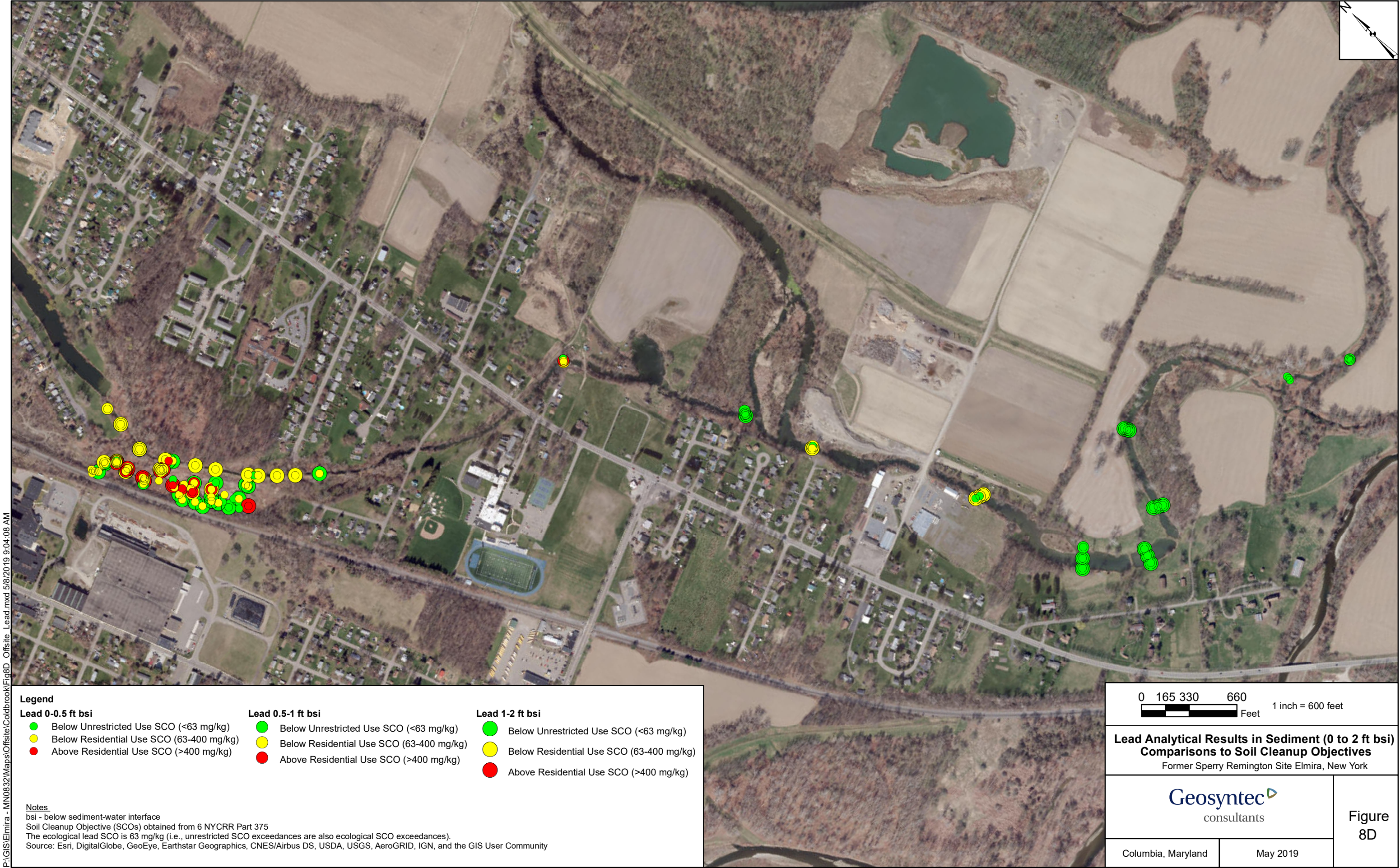
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P:\GIS\Elmira - MN0832\Maps\Offsite\Coldbrook\Fig8C Offsite copper.mxd 5/8/2019 9:00:47 AM





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**Legend**  
**Lead 0-0.5 ft bsi**

- Below Unrestricted Use SCO (<63 mg/kg)
- Below Residential Use SCO (63-400 mg/kg)
- Above Residential Use SCO (>400 mg/kg)

**Lead 0.5-1 ft bsi**

- Below Unrestricted Use SCO (<63 mg/kg)
- Below Residential Use SCO (63-400 mg/kg)
- Above Residential Use SCO (>400 mg/kg)

**Lead 1-2 ft bsi**

- Below Unrestricted Use SCO (<63 mg/kg)
- Below Residential Use SCO (63-400 mg/kg)
- Above Residential Use SCO (>400 mg/kg)

**Notes**  
bsi - below sediment-water interface  
Soil Cleanup Objective (SCOs) obtained from 6 NYCRR Part 375  
The ecological lead SCO is 63 mg/kg (i.e., unrestricted SCO exceedances are also ecological SCO exceedances).  
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

0165330660  
Feet1 inch = 600 feet

**Lead Analytical Results in Sediment (0 to 2 ft bsi)**  
**Comparisons to Soil Cleanup Objectives**  
Former Sperry Remington Site Elmira, New York


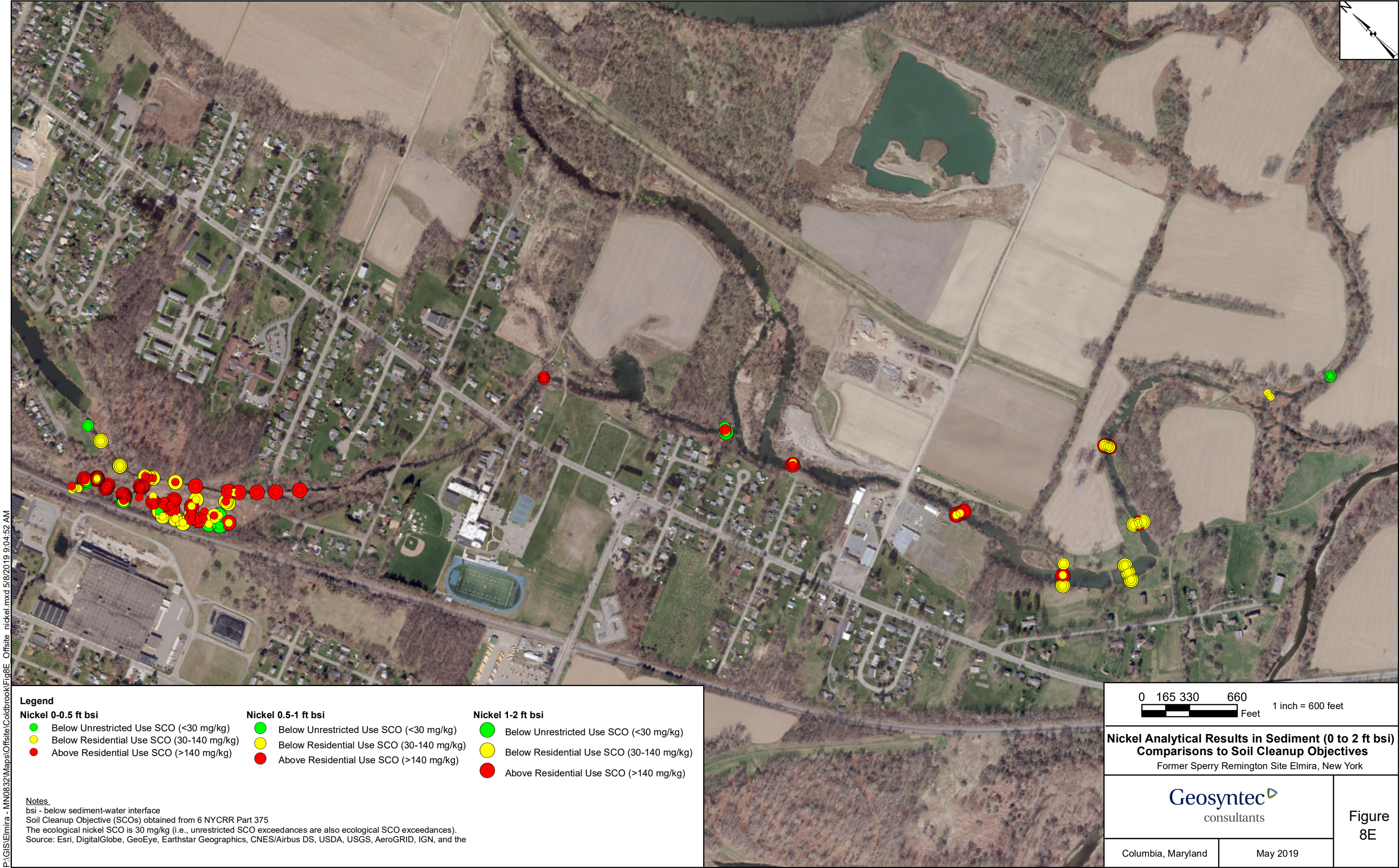
  
Geosyntec  
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Figure  
8D

Columbia, Maryland

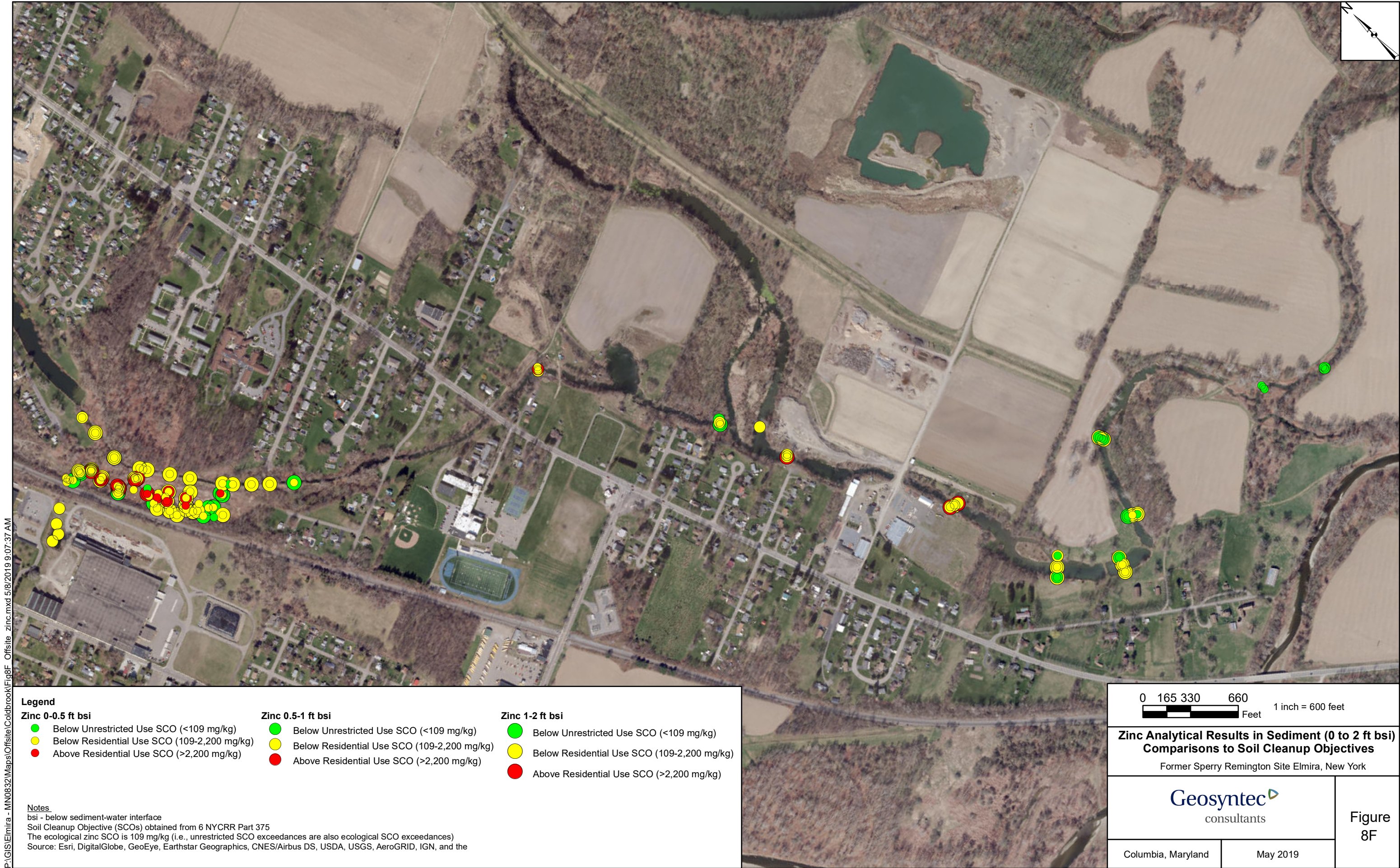
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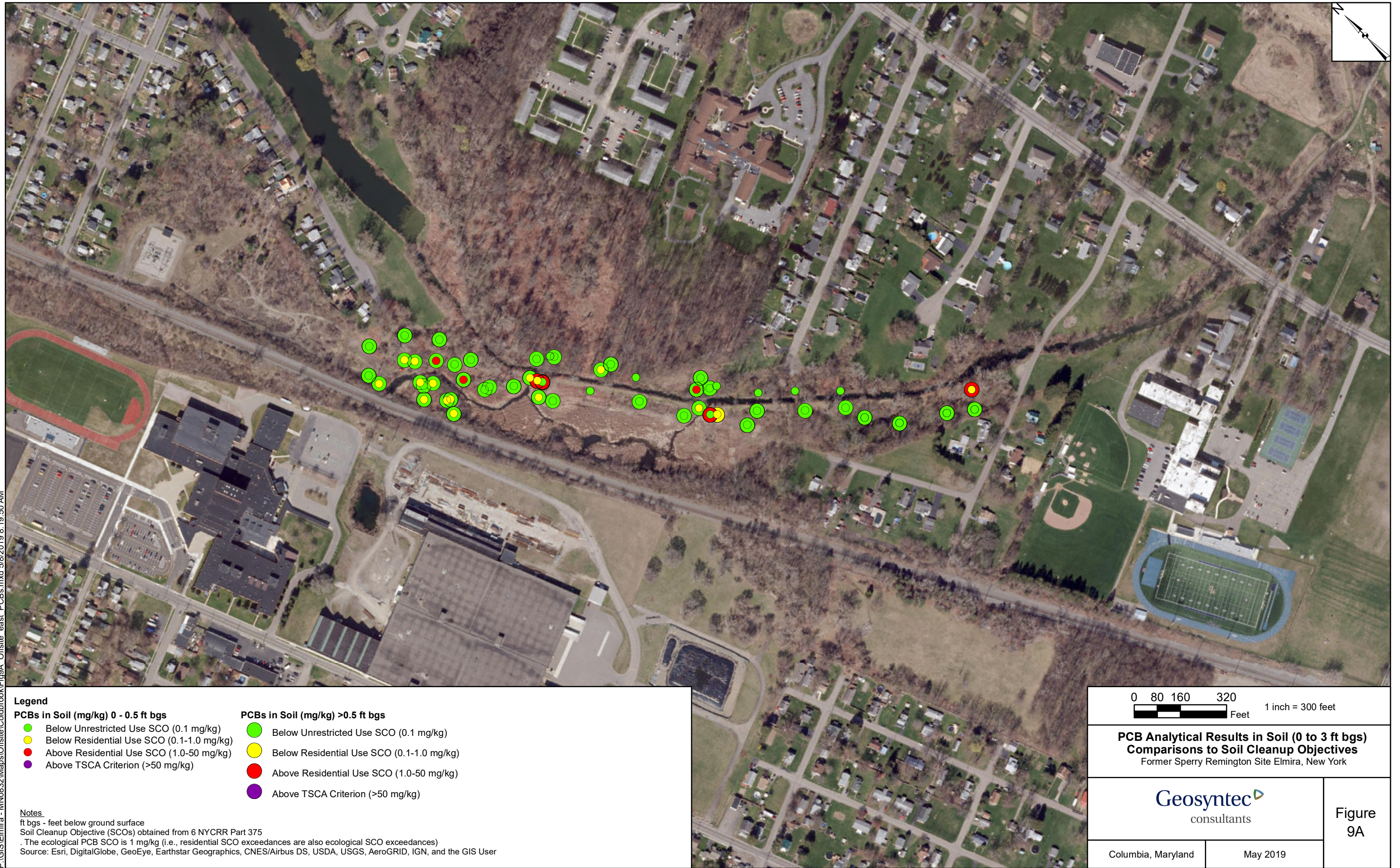




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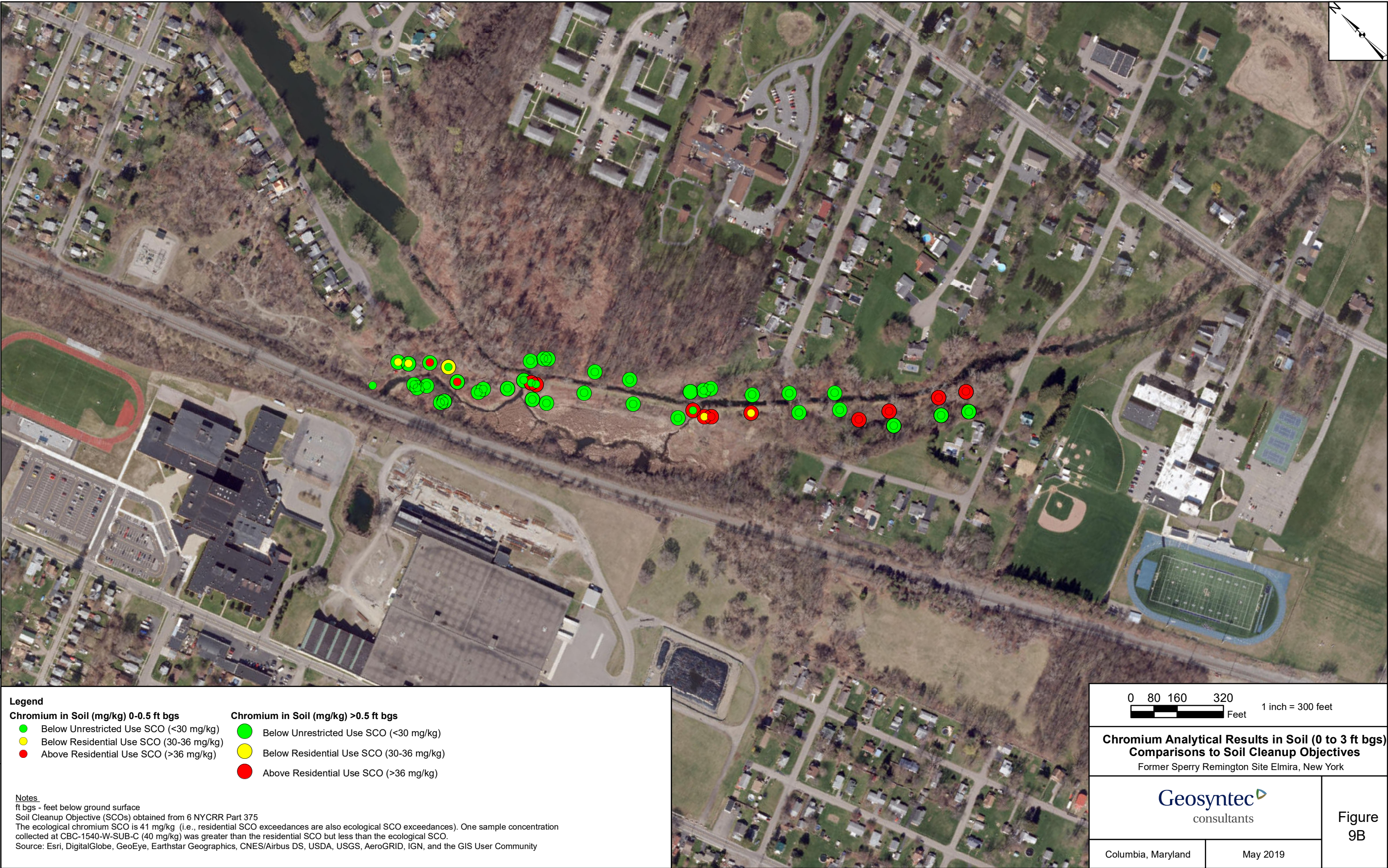


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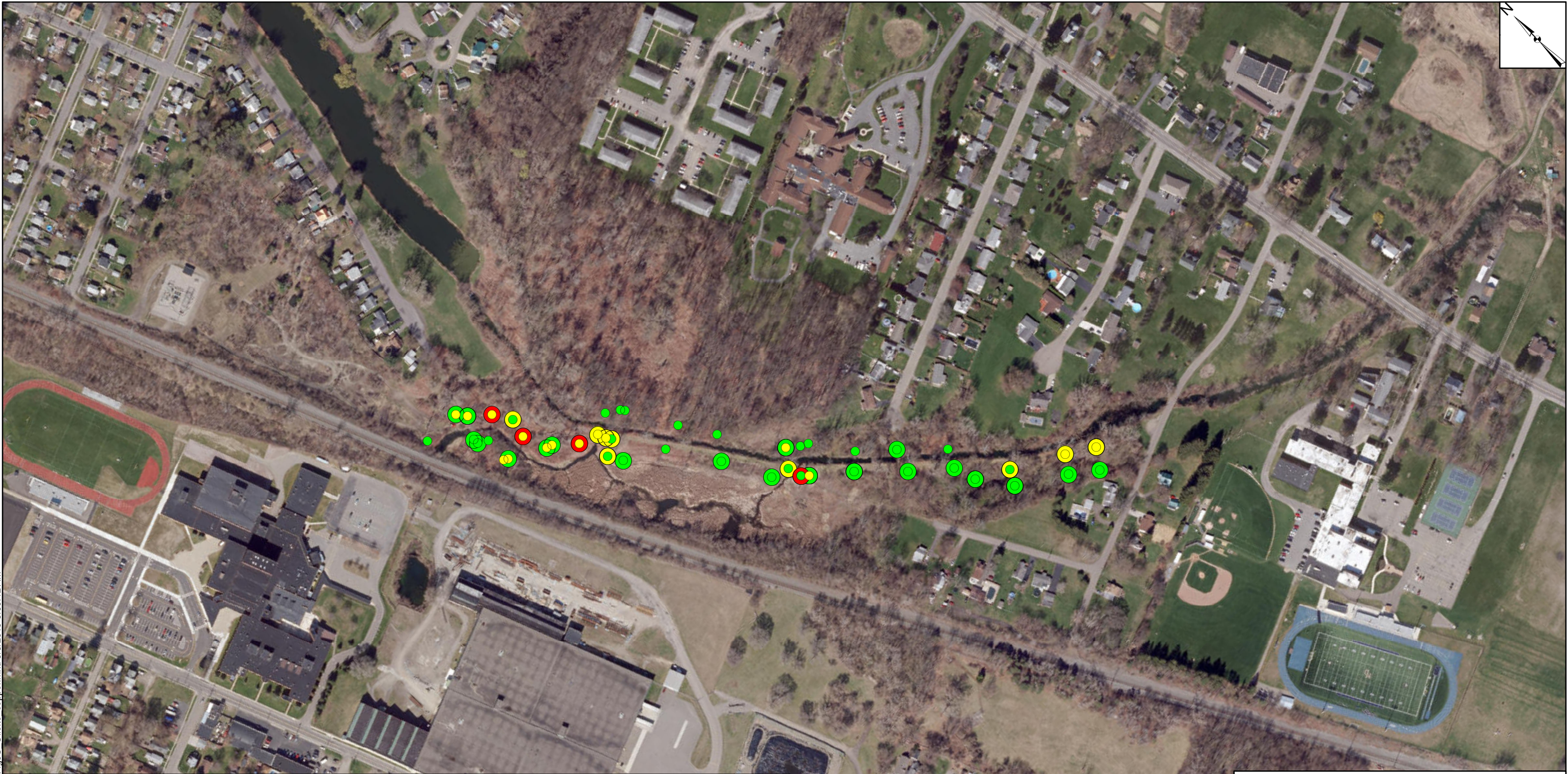




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**Legend**

**Copper in Soil (mg/kg) 0-0.5 ft bgs**

- Below Unrestricted Use SCO (<50 mg/kg)
- Below Residential Use SCO (50-270 mg/kg)
- Above Residential Use SCO (>270 mg/kg)

**Copper in Soil (mg/kg) >0.5 ft bgs**

- Below Unrestricted Use SCO (<50 mg/kg)
- Below Residential Use SCO (50-270 mg/kg)
- Above Residential Use SCO (>270 mg/kg)

**Notes**

bgs - below ground surface

Soil Cleanup Objective (SCOs) obtained from 6 NYCRR Part 375

The ecological copper SCO is 50 mg/kg (i.e., unrestricted SCO exceedances are also ecological SCO exceedances)

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

0 80 160 320 1 inch = 300 feet

Feet

**Copper Analytical Results in Soil (0 to 3 ft bgs)**

**Comparisons to Soil Cleanup Objectives**

Former Sperry Remington Site Elmira, New York

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**Figure**

**9C**

Columbia, Maryland

May 2019

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**Legend**

**Lead in Soil (mg/kg) 0-0.5 ft bgs**

- Below Unrestricted Use SCO (<63 mg/kg)
- Below Residential Use SCO (63-400 mg/kg)
- Above Residential Use SCO (>400 mg/kg)

**Lead in Soil (mg/kg) >0.5 ft bgs**

- Below Unrestricted Use SCO (<63 mg/kg)
- Below Residential Use SCO (63-400 mg/kg)
- Above Residential Use SCO (>400 mg/kg)

Notes

ft bgs - feet below ground surface  
Soil Cleanup Objective (SCOs) obtained from 6 NYCRR Part 375  
The ecological lead SCO is 63 mg/kg (i.e., unrestricted SCO exceedances are also ecological SCO exceedances)  
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User

0 80 160 320  
Feet 1 inch = 300 feet

**Lead Analytical Results in Soil (0 to 3 ft bgs)  
Comparisons to Soil Cleanup Objectives**  
Former Sperry Remington Site Elmira, New York

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Columbia, Maryland May 2019

Figure  
9D





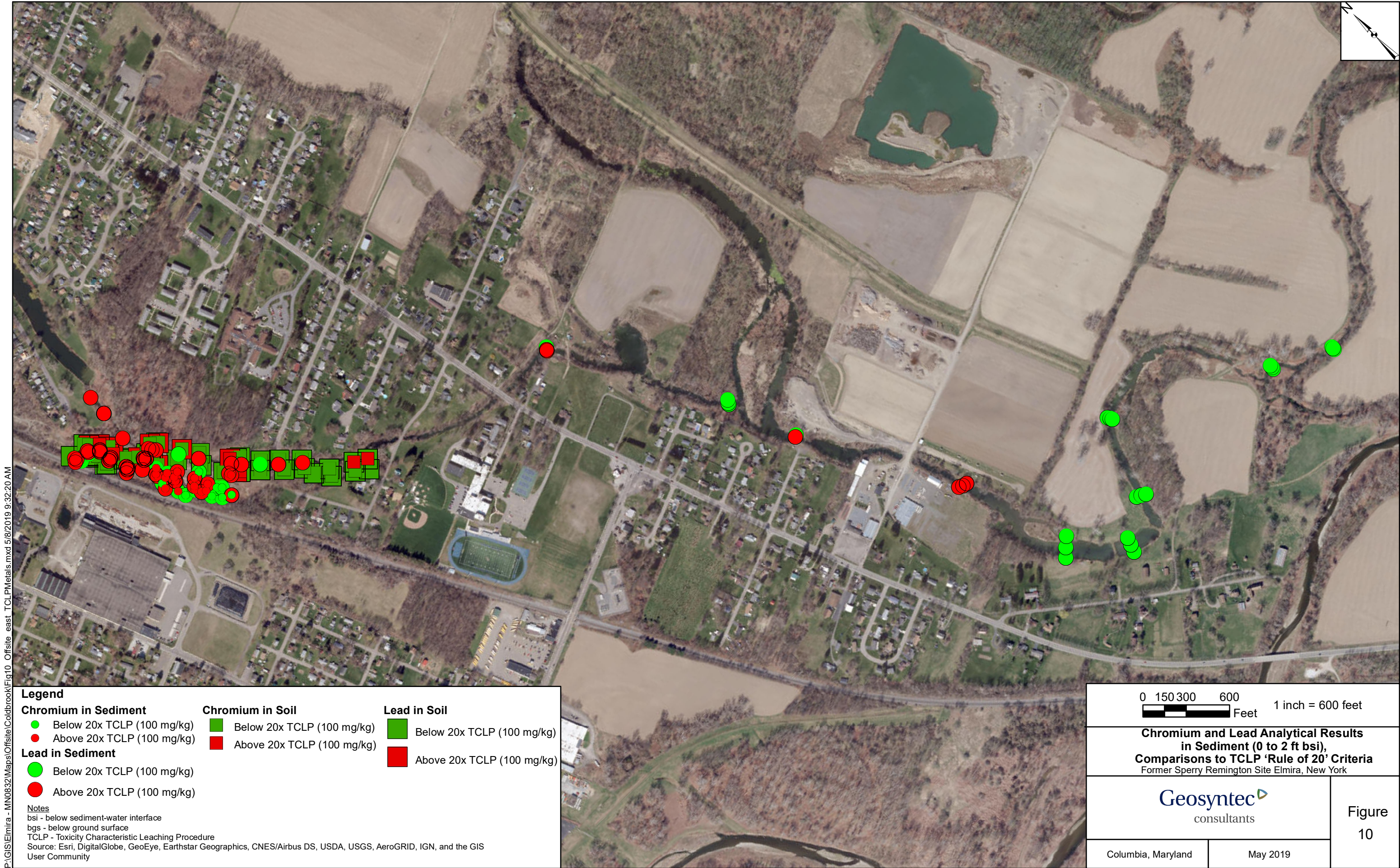
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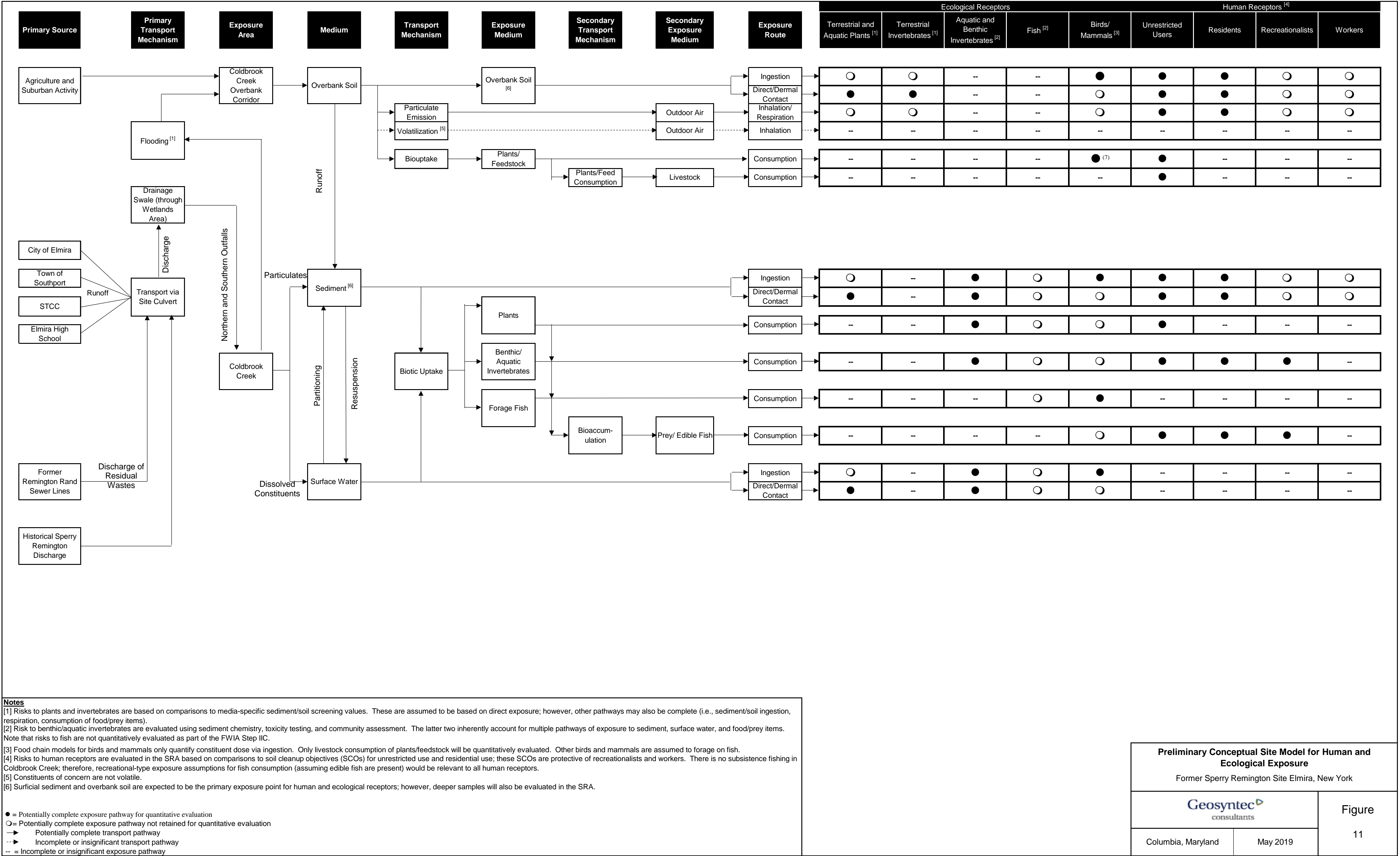
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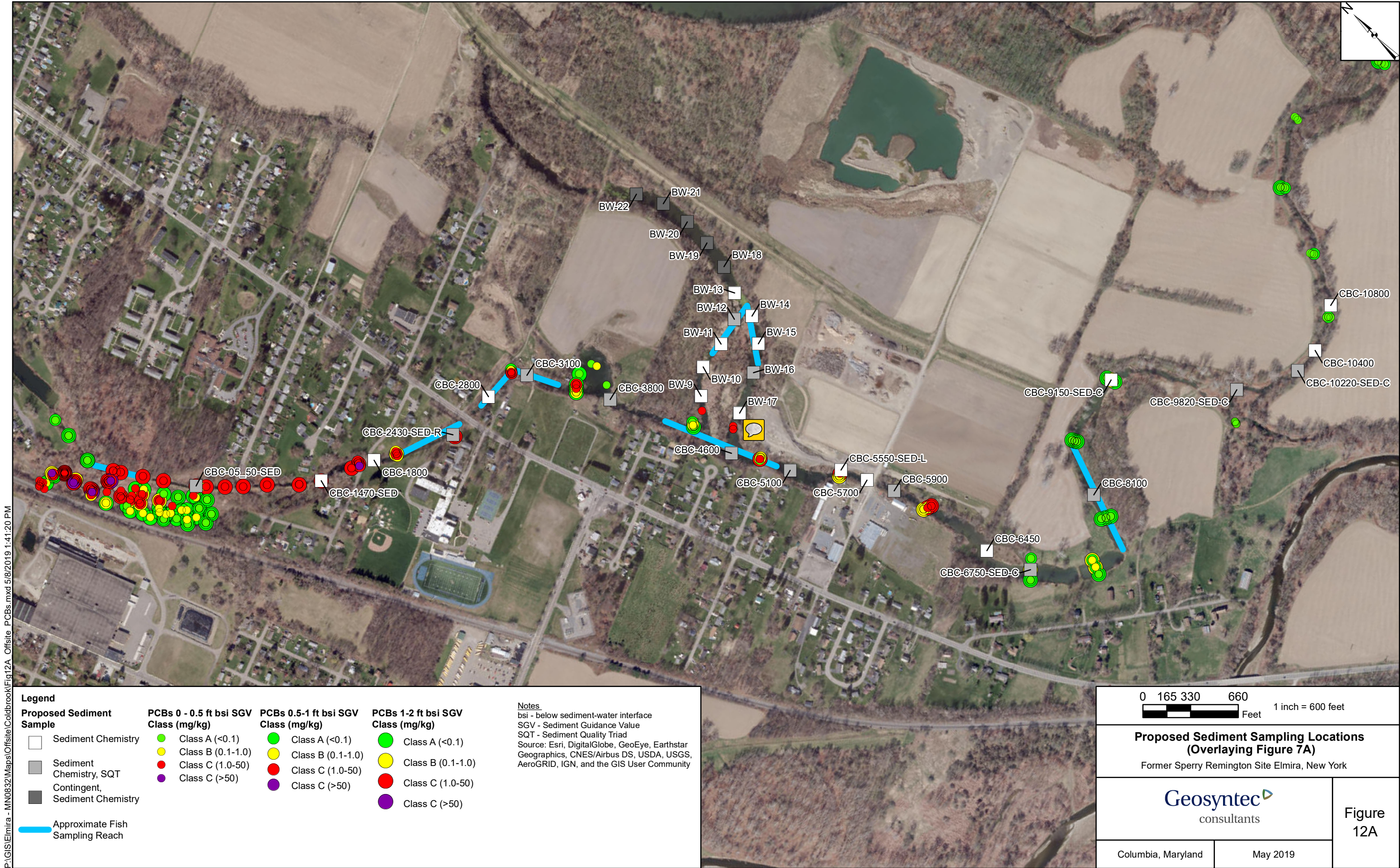


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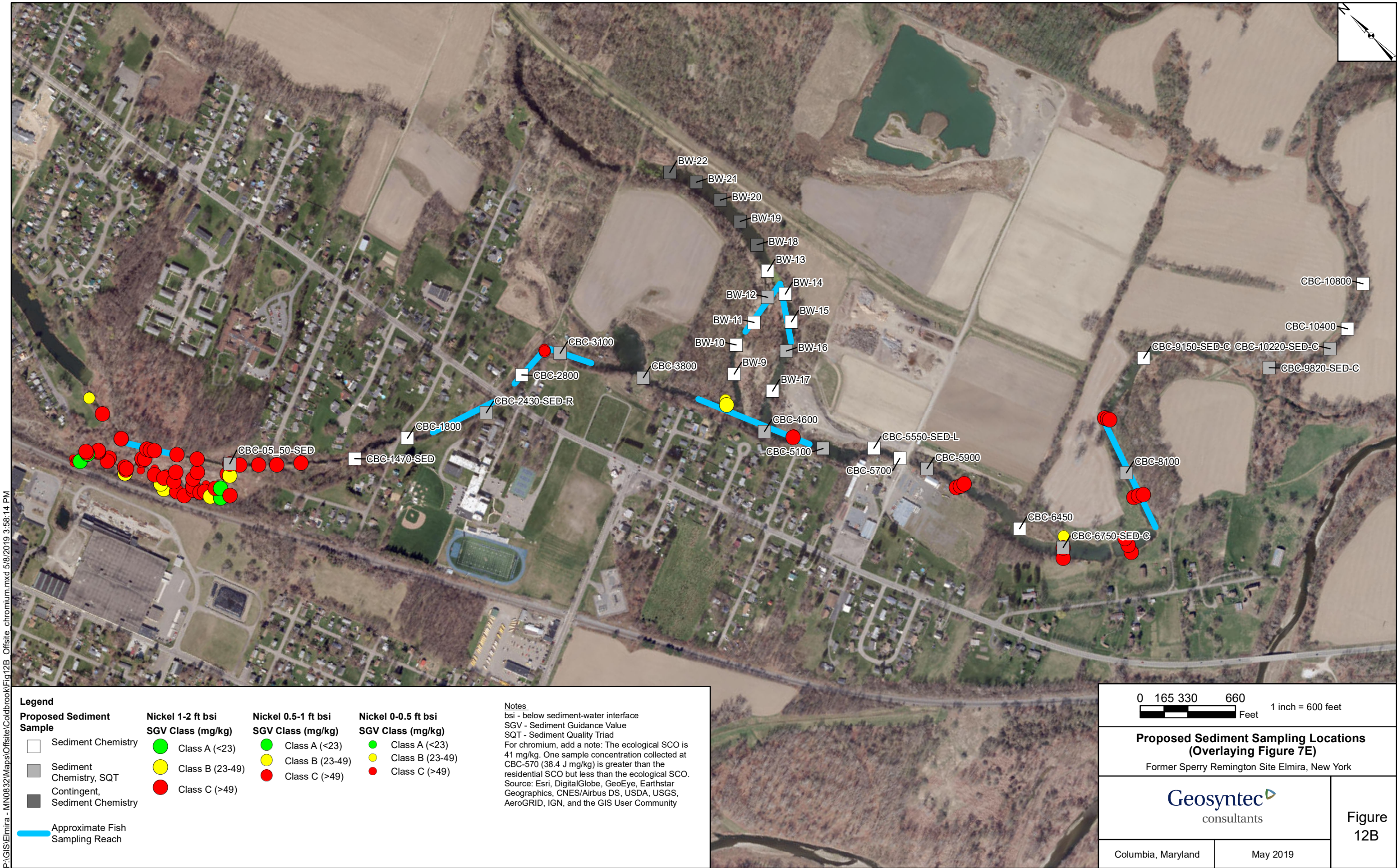




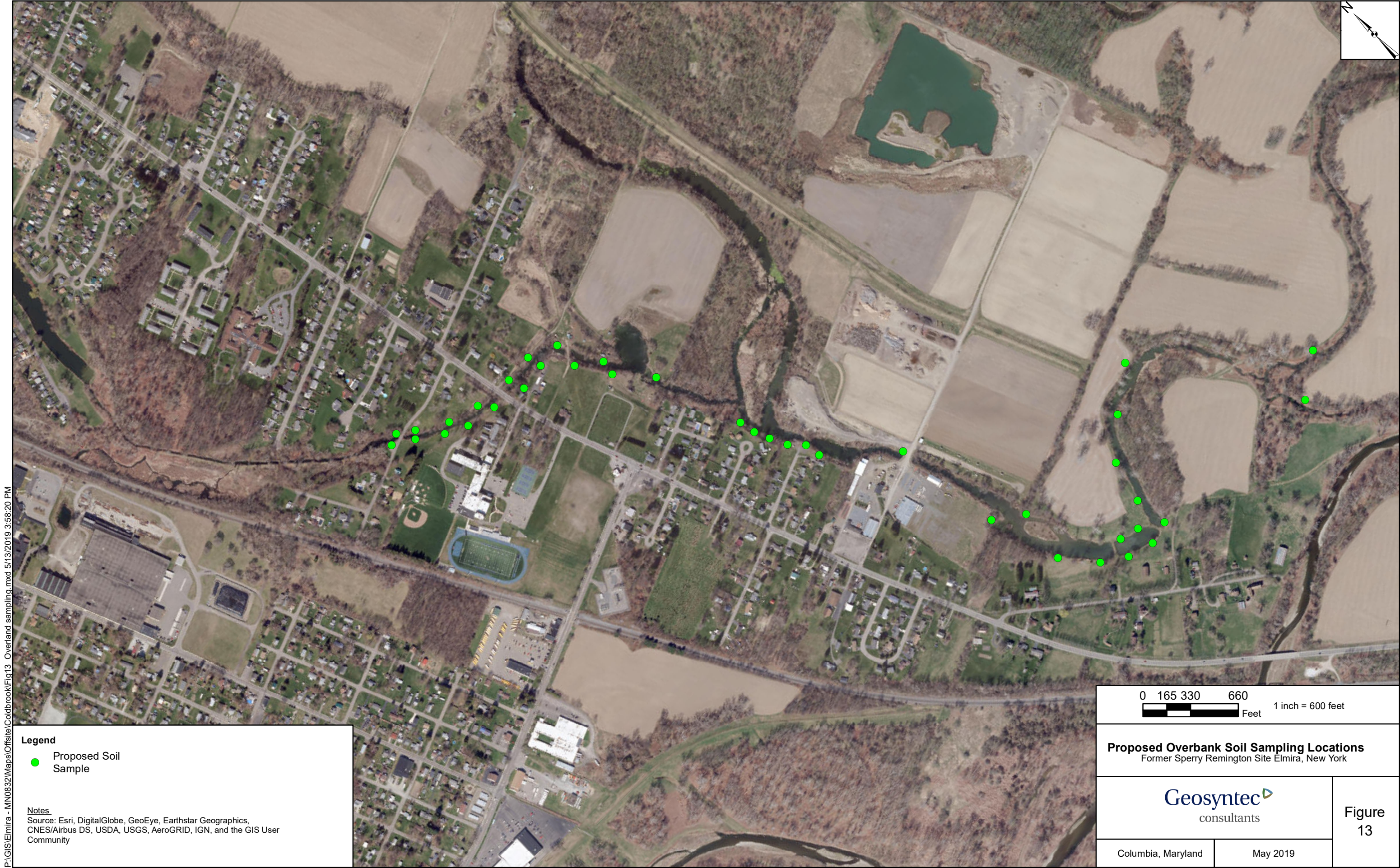
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P:\GIS\Elmira - MN0832\Maps\Offsite\Coldbrook\Fig13 Overland sampling.mxd 5/13/2019 3:58:20 PM

**Legend**

- Proposed Soil Sample

**Notes**  
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

0 165 330 660  
Feet 1 inch = 600 feet

**Proposed Overbank Soil Sampling Locations**  
Former Sperry Remington Site Elmira, New York

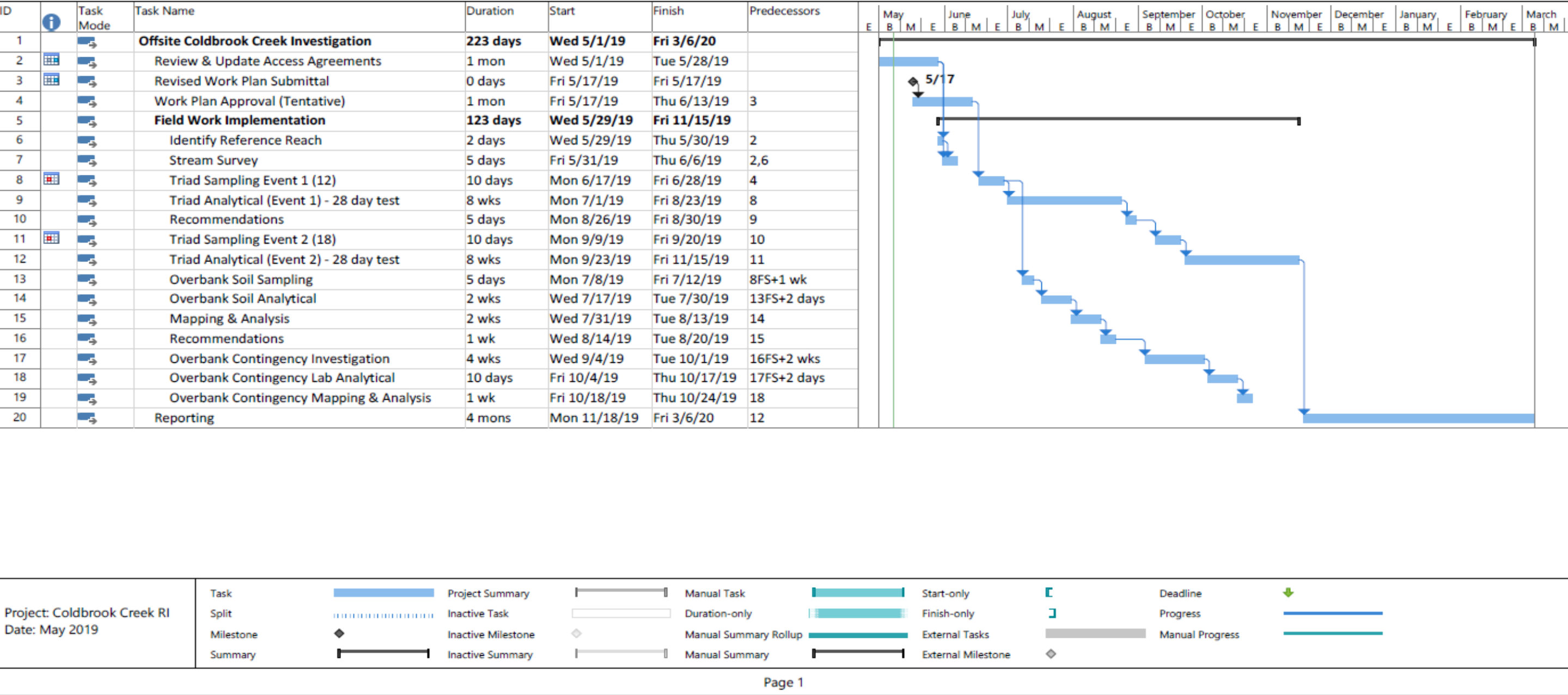
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May 2019

Figure  
13





Proposed Project Schedule		
Former Sperry Remington Site Elmira, New York		
		Figure 14
Columbia, Maryland	May 2019	