



2024 ed. LULC Data Project Update: Production and Stakeholder Review Timeline

"Everything is related to everything else, but near things are more related than distant things." W. Tobler

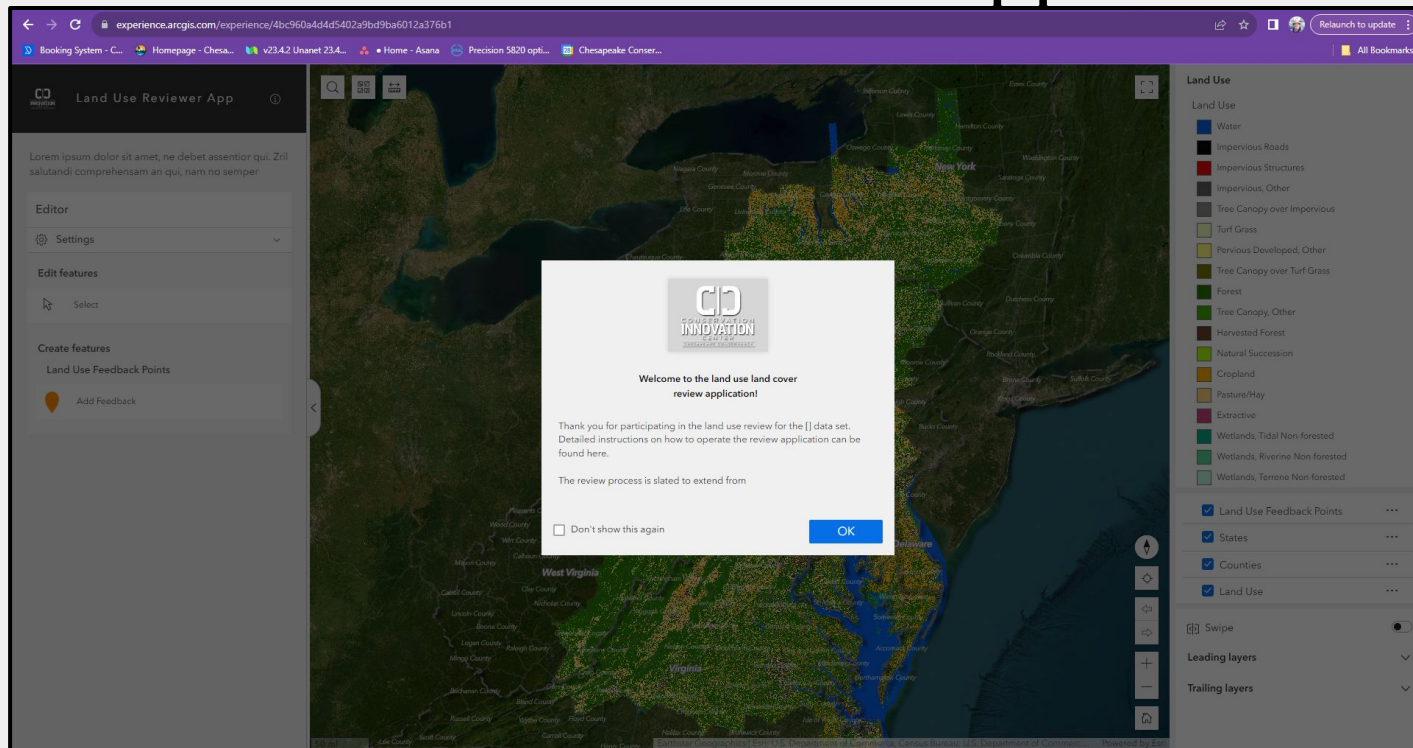
Steven Guinn & Katie Walker, Chesapeake Conservancy
Land Use Workgroup | 26 June 2024

Land Use/Land Cover Data Project 2024 edition

Current Production and Review Timeline



Land Use/Land Cover (LULC) 2024 Edition Review App



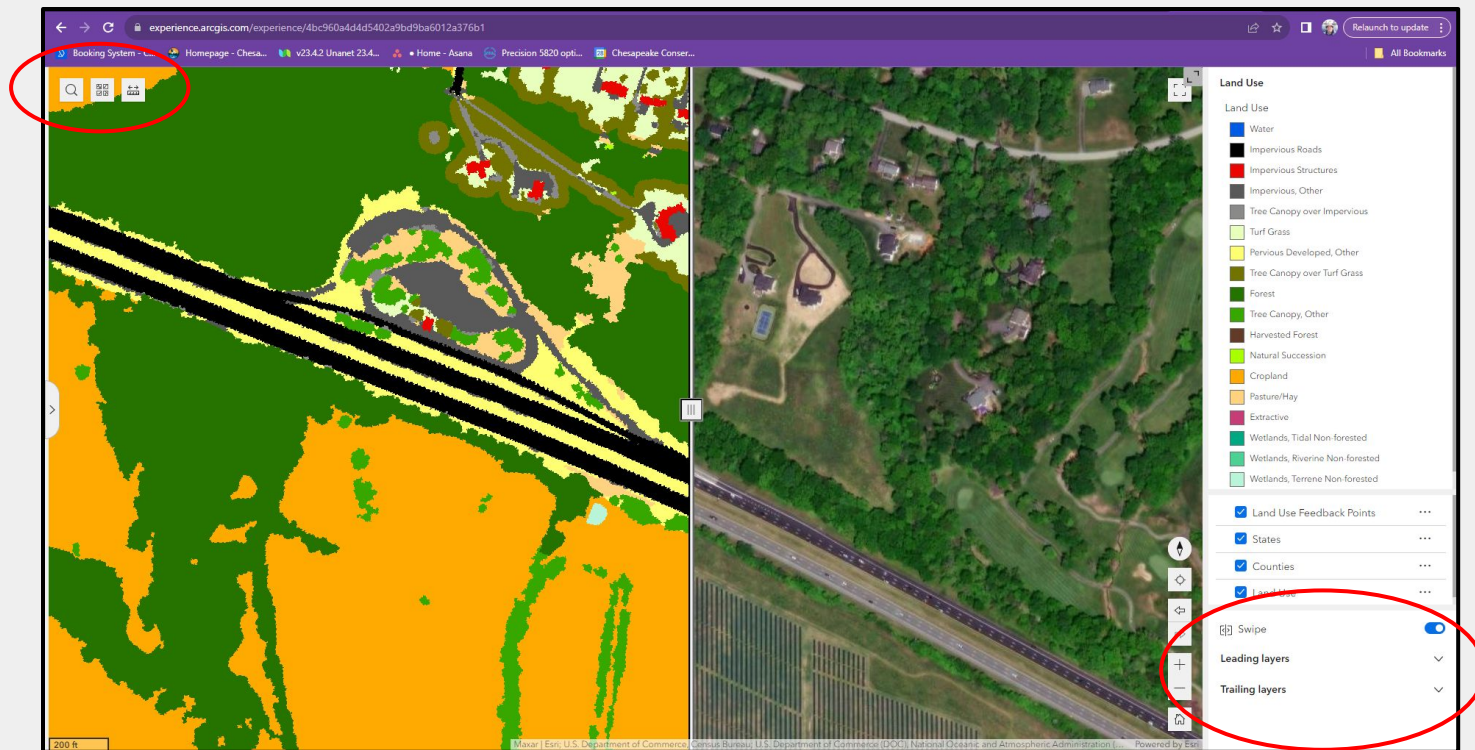
Land Use/Land Cover (LULC) 2024 Edition Review App

- Web app hosted by the Chesapeake Conservancy and powered by ESRI Experience Builder will be available on July 8th, 2024
- Emails will be sent out to the local review contacts with:
 - Application web link
 - Instructions to properly record reviewers feedback
- The app is persistent in that it permanently records and displays previously placed Land Use Feedback Points from all reviewers

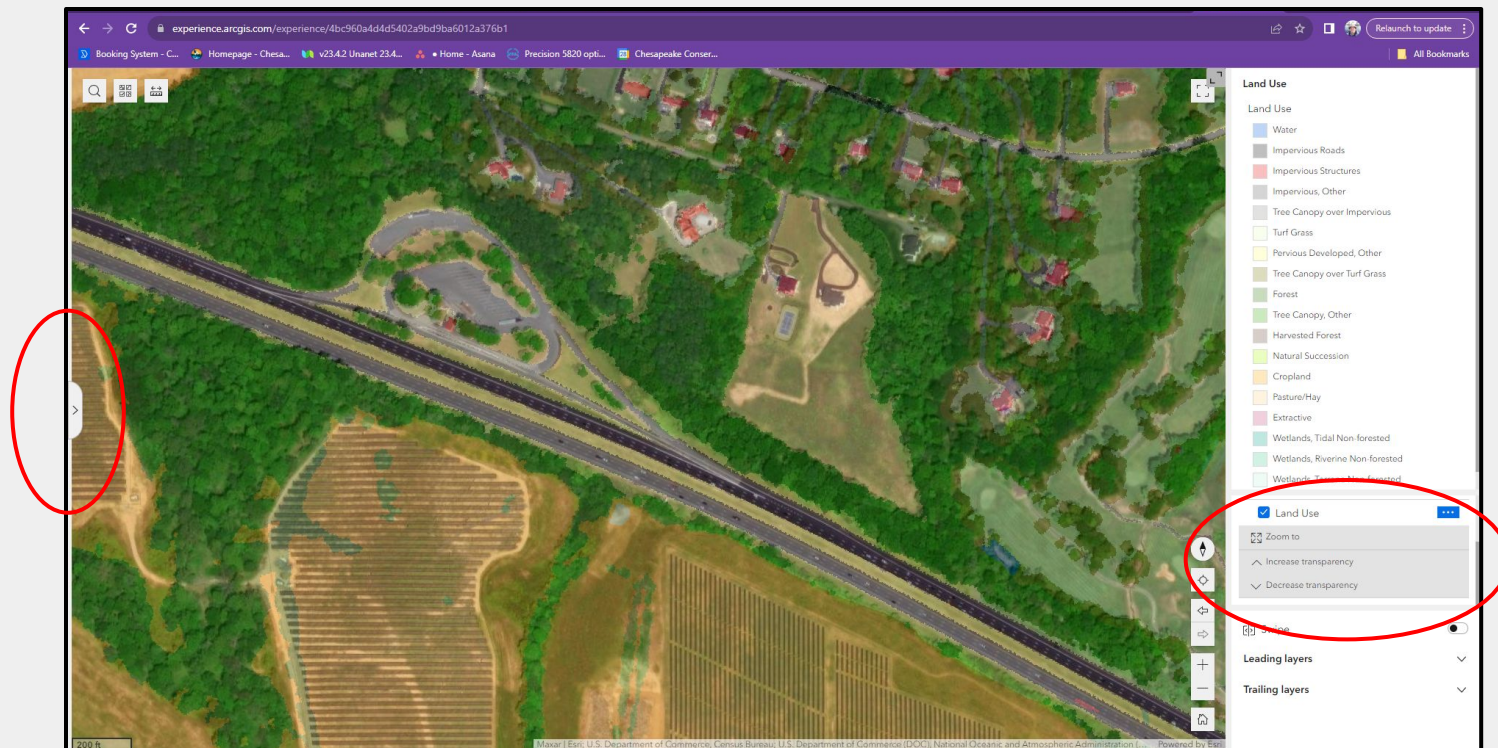
Setting up the workflow

- Before placing review points, experiment with different visualization options to find what works best for individual reviewers
- Changing the basemap options allows for more flexibility in what level and types of cartographic elements are visible
- Use the search feature to locate named places and addresses
- The ruler tool allows you to extract the size of features for additional context
- Robust search feature allows for lookup by address or place name
- Existing review points can be edited/deleted if needed

Visualization Using Swipe Function



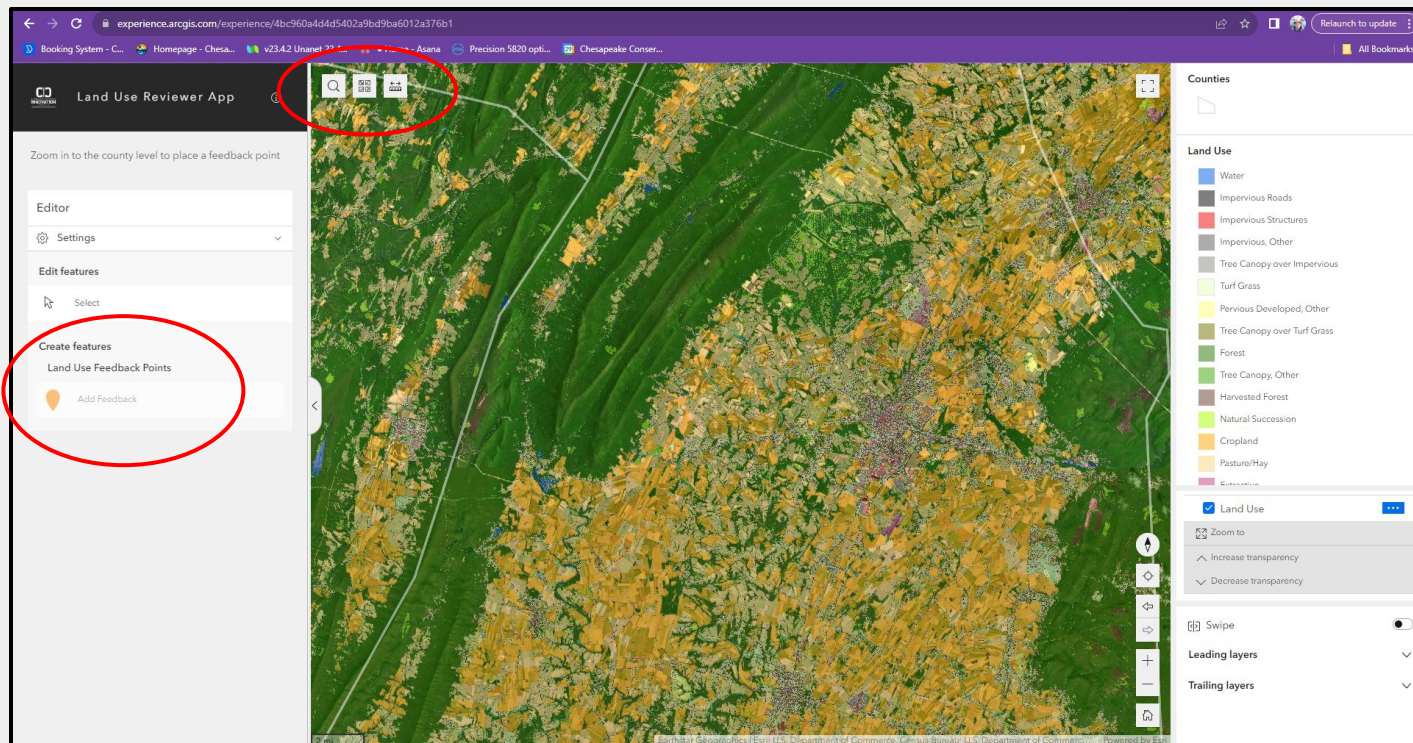
Visualization Using Transparency



Creating review points

- Locate the region of interest by panning the map or using the search function
- If not visible, expand the editing tab on the left side of the screen
- If the “Add feedback” is grayed out, zoom in until it becomes active
- Once in edit mode, place point on feature that is incorrectly mapped
- In the edit pane fill out name and reviewer email
- Using the “Land use as mapped” field, select the mapped land use class
- Using the “Land use correction” field, select the land use class that the reviewer thinks is more appropriate
- Optionally, leave a comment if the reviewer needs to provide more input

Creating review points



Creating review points



Reviewer expectations

- All Contact information is completed correctly
 - Use employer/organizational email account
- Review points are accurately placed
 - Increase zoom as much as practical before placing point
 - Avoid placing points too close to the edge of a feature
 - Perform basic QA by reviewing and editing/deleting inaccurate review points
- Reviews are completed within the assigned time frame for that County
- Reach out to the Chesapeake Conservancy CIC if experiencing issues with the web application ASAP for timely resolution

Chesapeake Bay Land Use/Cover Classification (2024 edition, 56 planned)

Water and Water Margins

10 Tidal Waters

Lentic

- 11 Lakes & Reservoirs
- 12 Riverine Ponds
- 13 Terrene Ponds

Lotic

- 14 Streams and Rivers

Water Margins

- 15 Bare Shore

Forest

Tree Canopy

- 40 Forest
- 41 Tree Canopy Other

Open Space (temporary)

- 42 Natural Succession Barren
- 43 Natural Succession Herbaceous
- 44 Natural Succession Shrubland
- 45 Harvested Forest Barren
- 46 Harvested Forest Herbaceous

Agriculture

Productive Lands

- 80 Cropland Barren
- 81 Cropland Herbaceous
- 82 Orchards and Vineyards Barren
- 83 Orchards and Vineyards Herbaceous
- 84 Orchards and Vineyards Shrubland
- 85 Pasture and Hay Barren
- 86 Pasture and Hay Herbaceous

Development

Impervious

- 20 Roads
- 21 Structures
- 22 Other Impervious (Parking lots, driveways)
- 23 TC over Roads
- 24 TC over Structures
- 25 TC over Other Impervious
- 31 Extractive Impervious
- 32 Solar Field Panel Arrays (impervious)

Pervious

- 26 Tree Canopy over Turf Grass
- 27 Turf Grass
- 28 Bare Developed
- 30 Extractive Barren
- 33 Solar Field Barren
- 34 Solar Field Herbaceous
- 35 Solar Field Shrubland
- 36 Suspended Succession Barren
- 37 Suspended Succession Herbaceous
- 38 Suspended Succession Shrubland

Wetlands

Riverine

- 50 Riverine Wetlands Barren
- 51 Riverine Wetlands Herbaceous
- 52 Riverine Wetlands Shrubland
- 53 Riverine Wetlands Tree Canopy
- 54 Riverine Wetlands Forest
- 55 Riverine Wetlands Harvested Forest

Terrene

- 60 Terrene Wetlands Barren
- 61 Terrene Wetlands Herbaceous
- 62 Terrene Wetlands Shrubland
- 63 Terrene Wetlands Tree Canopy
- 64 Terrene Wetlands Forest
- 65 Terrene Wetlands Harvested Forest

Tidal

- 70 Tidal Wetlands Barren
- 71 Tidal Wetlands Herbaceous
- 72 Tidal Wetlands Shrubland
- 73 Tidal Wetlands Tree Canopy
- 74 Tidal Wetlands Forest
- 75 Tidal Wetlands Harvested Forest

Agricultural Facilities*

- 90 Agricultural Structure
- 91 Animal Operation Impervious
- 92 Animal Operation Barren
- 93 Animal Operation Herbaceous
- 94 TC over Agricultural Structure
- 95 TC over Animal Operation Impervious

*are being mapped and identified, but are not currently intended for integrating into the final classification



Thanks for your time and valuable feedback!
And none of this work is possible without the tireless efforts of the Chesapeake Conservancy's CIC team, with special thanks to:

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Questions? Feedback?