



DEQ- North Carolina Community Mapping System & Environmental Justice Tool Monday September 21, 2020

Renee Kramer, Title VI and Environmental Justice Coordinator





• Environmental justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies (US EPA).

Proposed Criteria

- Race and Ethnicity
- Age and Sex
- Disability
- Poverty
- Household Income
- Limited English Proficiency

-10% or more in comparison to the county average

-50% or more minority

-5% or more in comparison to the county average for poverty





Distributional Justice

• Equal distribution of environmental benefits and burdens

Procedural Justice

• Equal protection from rulemaking and enforcement

Process Justice

• Equal opportunities for meaningful engagement

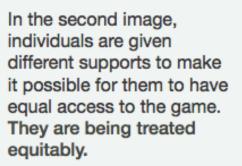


EQUALITY VERSUS EQUITY



In the first image, it is assumed that everyone will benefit from the same supports. They are being treated equally.







In the third image, all three can see the game without any supports or accommodations because the cause of the inequity was addressed. The systemic barrier has been removed.



Stakeholder Engagement and Development Process



Academic Focus Groups

- Spoke with with GIS and EJ scholars from NC State, Chapel Hill, Duke, UNCG, NC Central, UNC Charlotte, and App State
- Calls with other states that have developed EJ mapping
 - Meetings with Pennsylvania, California and EPA

Public Community Meetings

- Wayne County
- Forsyth County
- Rutherford County

6 Small Community Organization Meetings/Calls

Website and Public Survey

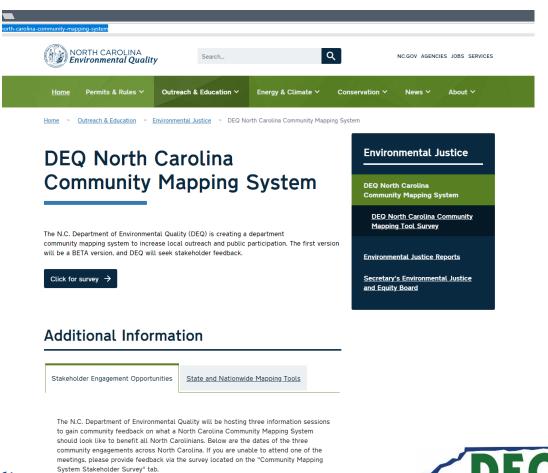


https://deq.nc.gov/outreach-education/environmental-justice/deq-north-carolinacommunity-mapping-system

Also on the Website:

- Other States
- Survey
- 'How To'





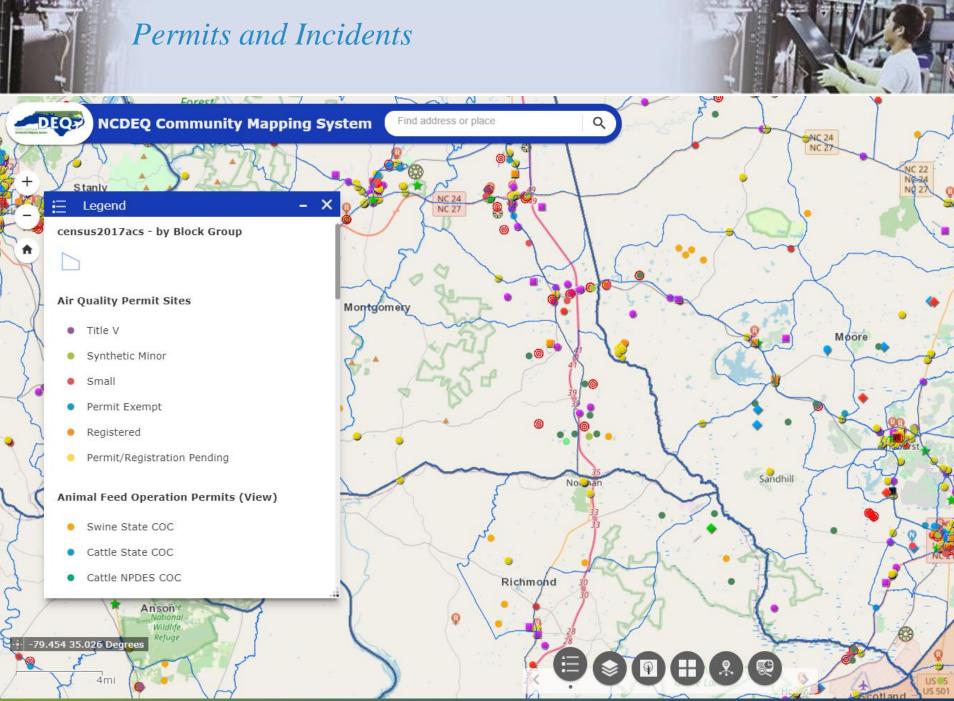
Department of Environmental Quality

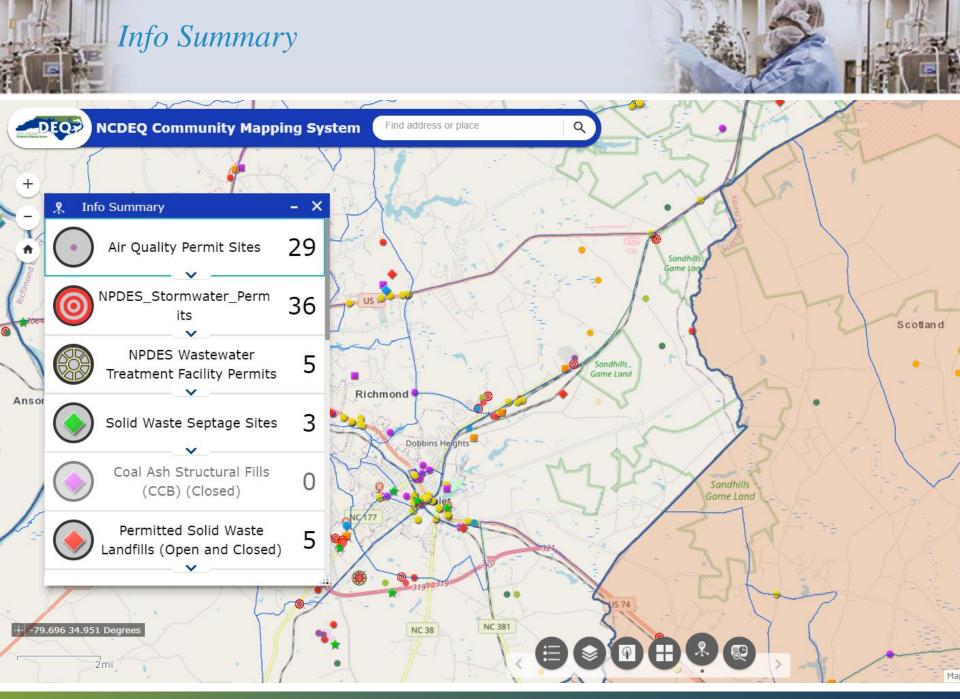


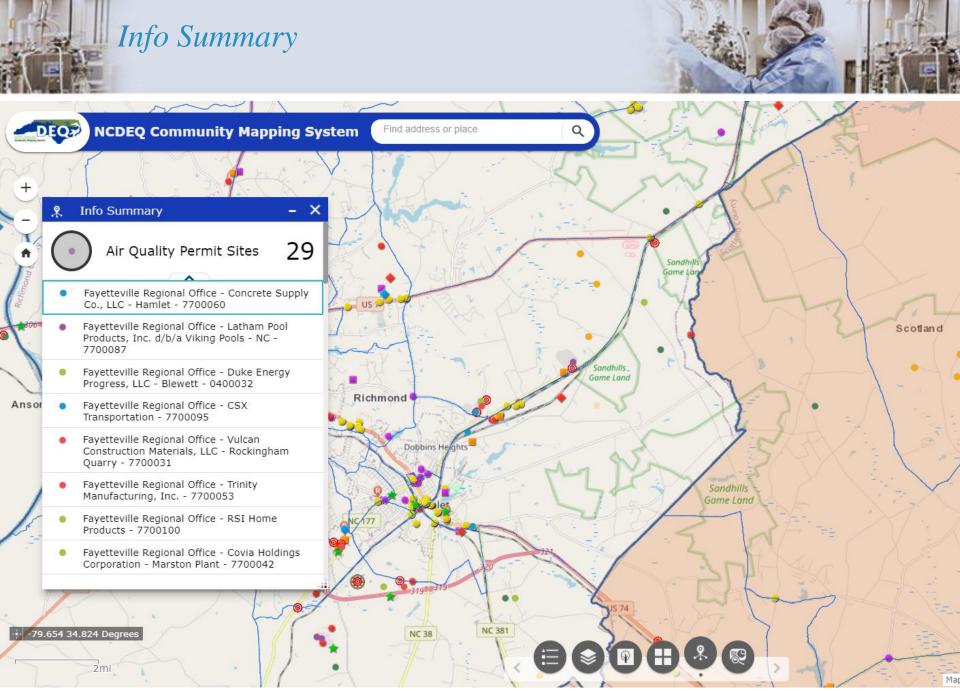
Community Mapping System

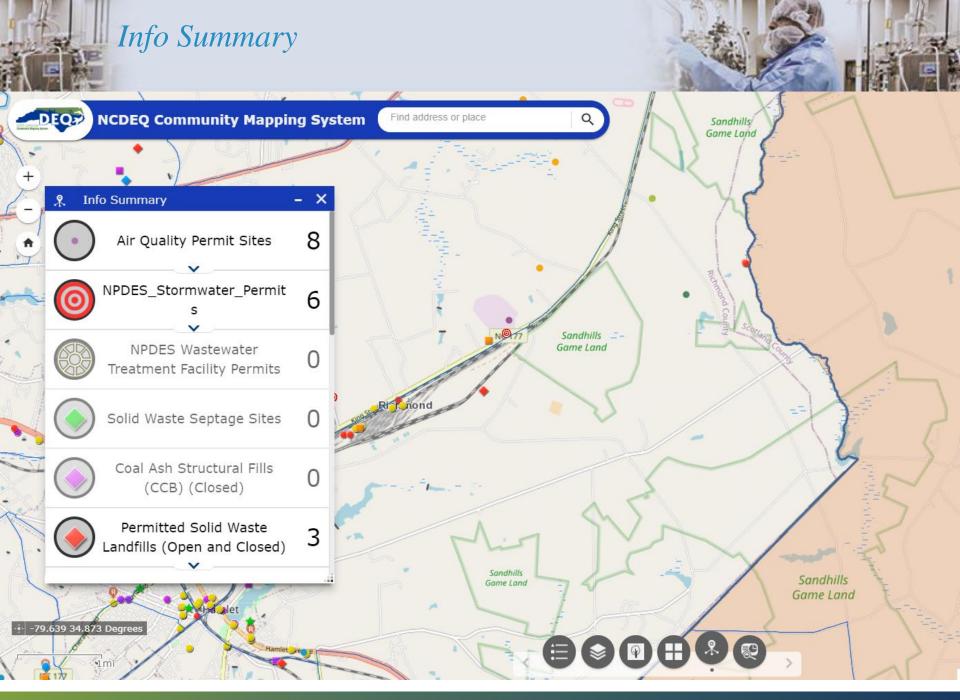










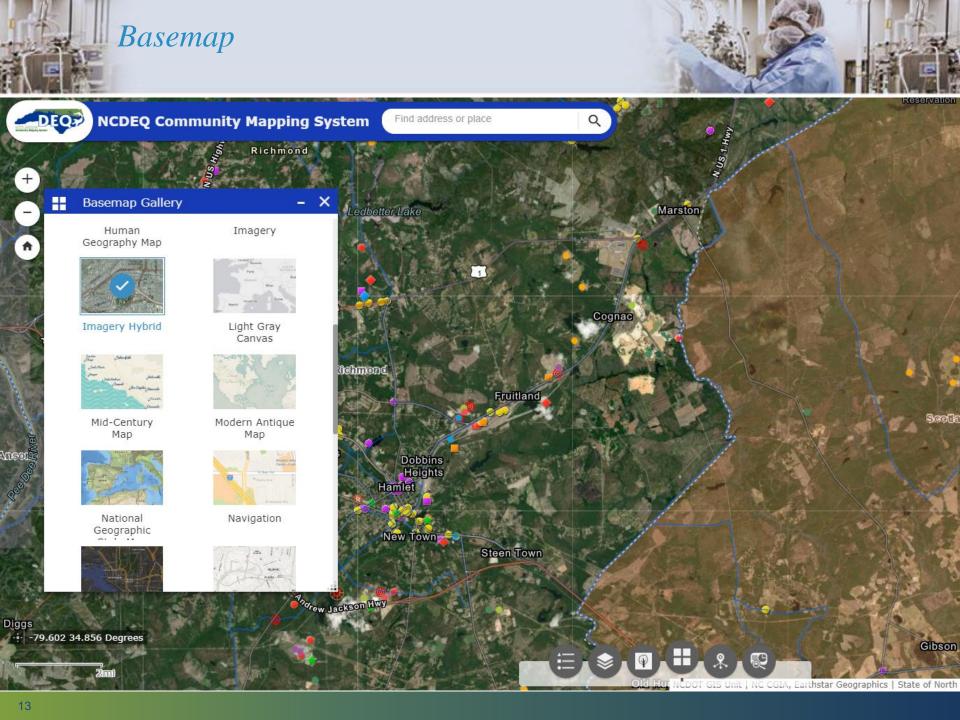


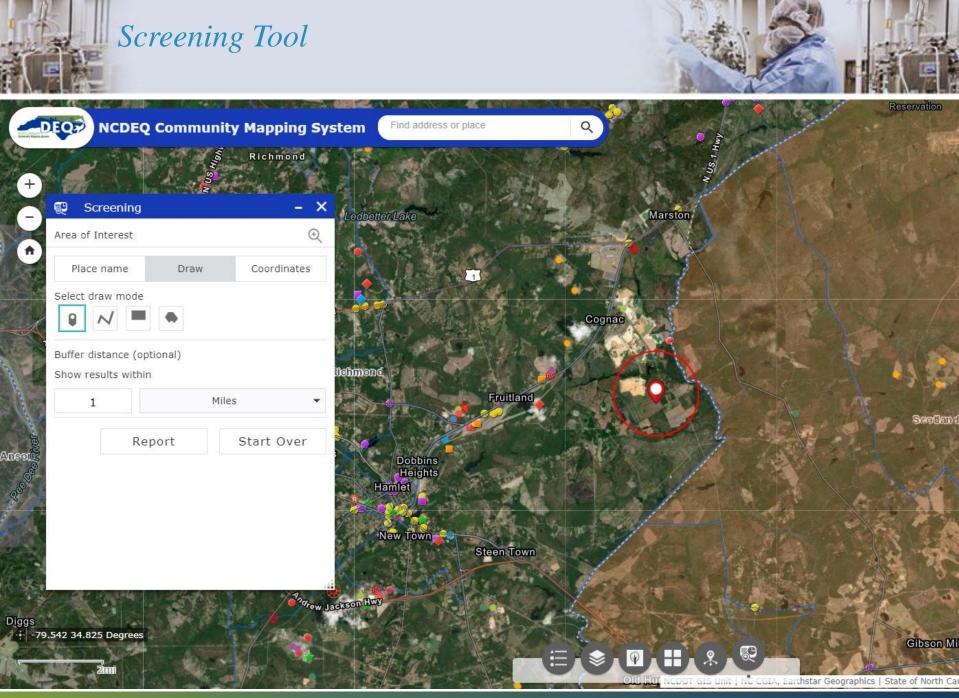


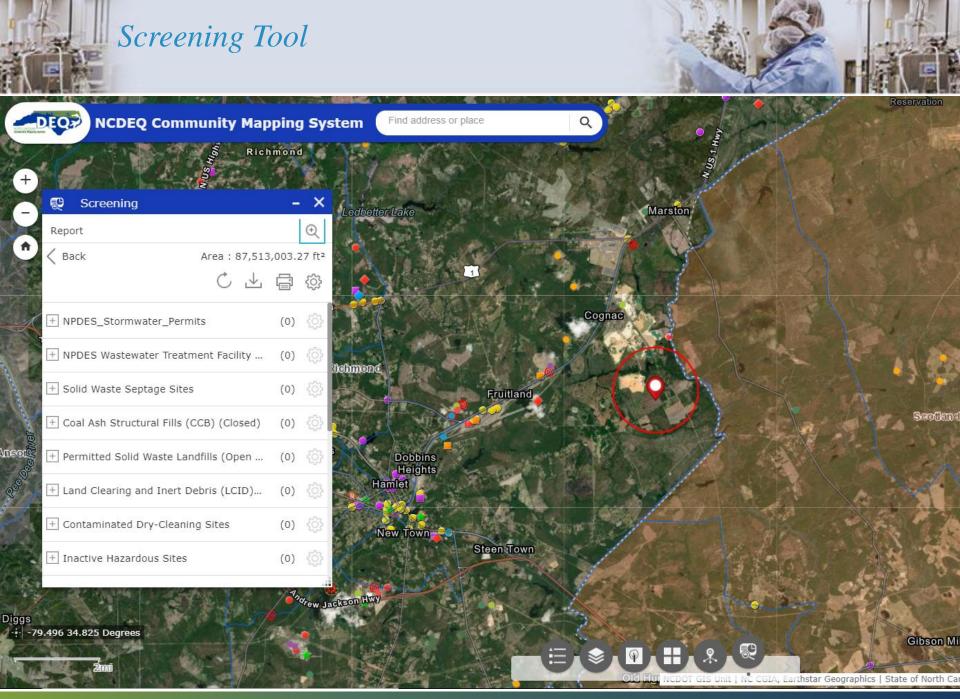
Permit Information

Moore County	NC 690 (1 of 3)	
- Sa		rmwater_Permits
~1	Permit Number	NCG020314
77 !	VERSION	
	Owner Type	Organization
	Owner Name	US Army Garrison Fort Bragg
	Owner Affilation	Monica Stephenson
	Facility Name	Lamont West Borrow Pit
*)	Facility Address	Lamont Rd
-	Facility Address 2	24
5	Zoom to	82
D.		

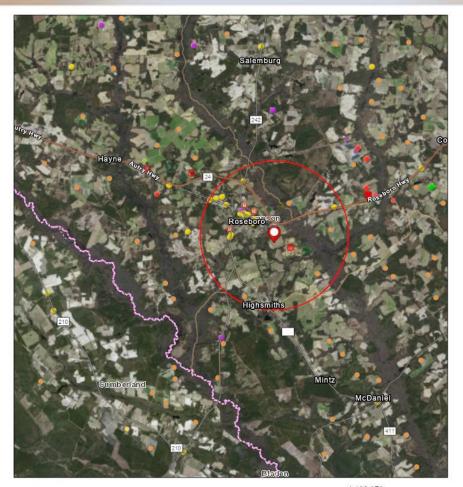
	1110			
	(2 of 3)	< >		1
2.	Address 2			k
n	City	Fort Bragg	R.	2
11	State	NC	Spris	ž
5	Zip	28307		ð
-	Permit Type	Mining Activities Stormwate Discharge COC	r 🐺	J
	Status	Active	Pop	
0	Issue Date	3/18/2016, 4:00 AM	RO	õ
	Effective Date	3/18/2016, 4:00 AM	1-1	3
4.,	Expiration Date	9/30/2020, 4:00 AM		ç
	Original Issue	10/30/1995, 3:00 AM		
Y	Location	35.138889, -79.081944		P
	Zoom to			7
				5







Info Summary Report

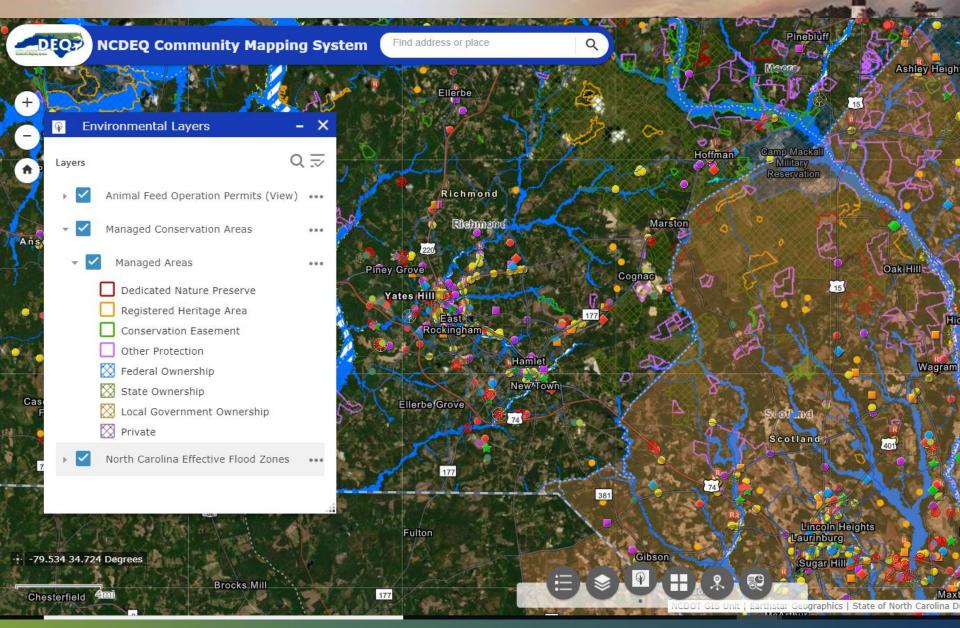


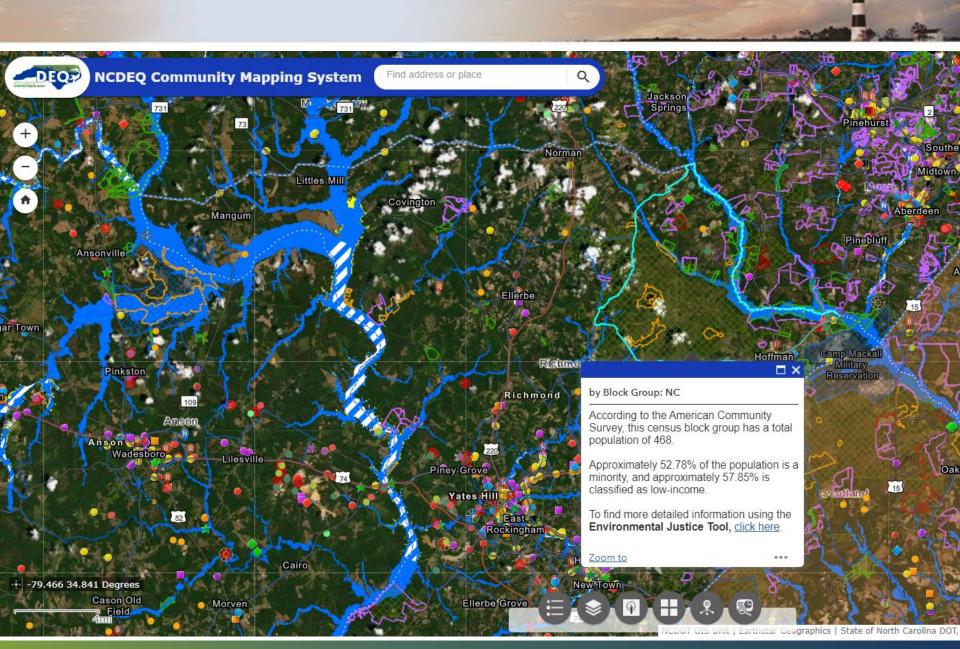
						1:120,373	
Air Q	uality Permit Sites	0	Animal Individual State	0 	0.75	1.5	3 mi
	Title V	0	NPDES_Stormwater_Permits	0	1.25	2.5	5 km
٠	Synthetic Minor	NPD	ES Wastewater Treatment Facility Permits				
•	Small		Minor	-	-		
Anim	Animal Operation Permit Swine State COC	٠	Solid Waste Septage Sites	Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/An DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Counties, NCCGIA, NC OneMap, US EPA, Sources: Esri, HERE, Gam		GIS User Community, NC	
		٠	Permitted Solid Waste Landfills (Open and Closed)	FAO, NOAA,	FAO, NOAA, USGS, D OpenStreetMap		butors, and the GIS User

Summary

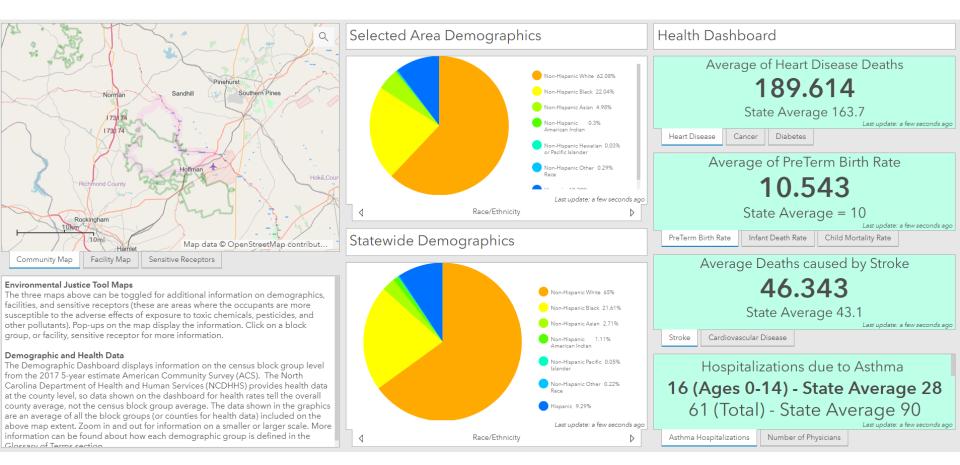
Name	Count				
Animal Operation Permits	4				
NPDES_Stormwater_Permits	1				
NPDES Wastewater Treatment Facility Permits	1				
Solid Waste Septage Sites	0				
Coal Ash Structural Fills (CCB) (Closed)	0				
Permitted Solid Waste Landfills (Open and Closed)	0				
Land Clearing and Inert Debris (LCID) Notifications	0				
Contaminated Dry-Cleaning Sites	0				
Possible Dry-Cleaning Contamination	0				
Inactive Hazardous Sites	0				
Pre-Regulatory Landfill Sites	0				
Brownfields Program Sites	0				
Hazardous Waste Sites	0				
Underground Storage Tank Incidents	18				
Above Ground Storage Tank Incidents	1				
Underground Storage Tank Active Facilities	4				
Petroleum Contaminated Soil Remediation Permits	0				
Land Use Restriction and/or Notices	3				

Environmental Layers

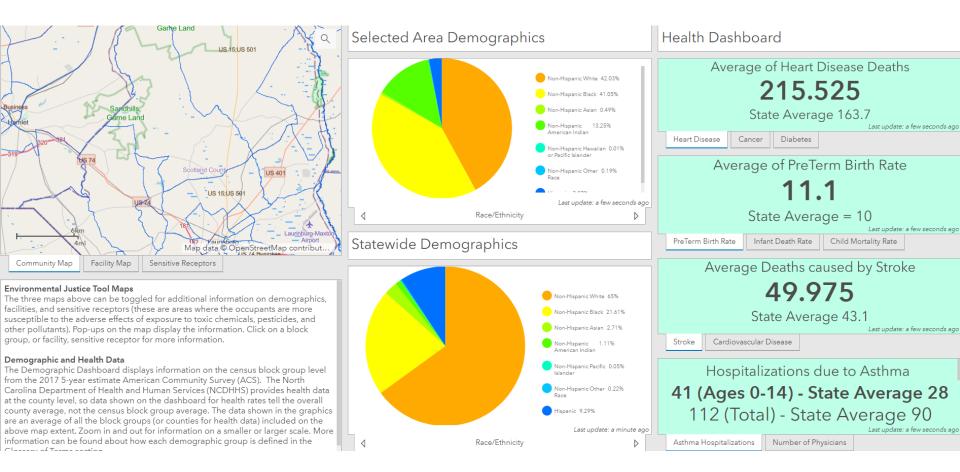




EJ Tool

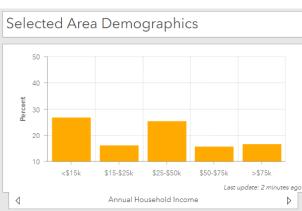


EJ Tool Zoom in



EJ Tool





Statewide Demographics

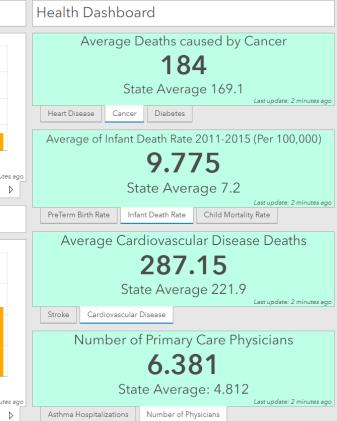
Environmental Justice Tool Maps

The three maps above can be toggled for additional information on demographics, facilities, and sensitive receptors (these are areas where the occupants are more susceptible to the adverse effects of exposure to toxic chemicals, pesticides, and other pollutants). Pop-ups on the map display the information. Click on a block group, or facility, sensitive receptor for more information.

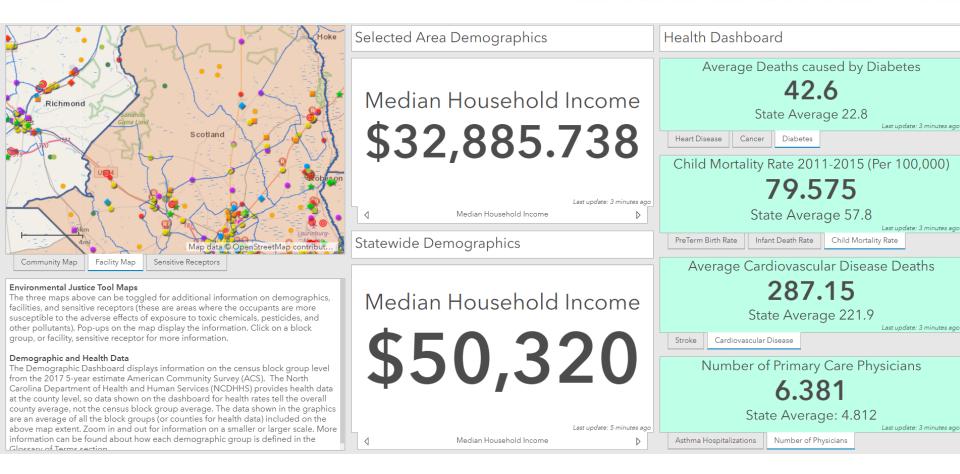
Demographic and Health Data

The Demographic Dashboard displays information on the census block group level from the 2017 5-year estimate American Community Survey (ACS). The North Carolina Department of Health and Human Services (NCDHHS) provides health data at the county level, so data shown on the dashboard for health rates tell the overall county average, not the census block group average. The data shown in the graphics are an average of all the block groups (or counties for health data) included on the above map extent. Zoom in and out for information on a smaller or larger scale. More information can be found about how each demographic group is defined in the <u>Glossear of Tarme section</u>.

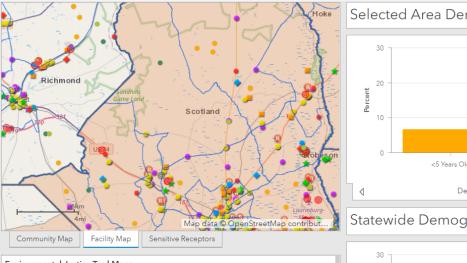


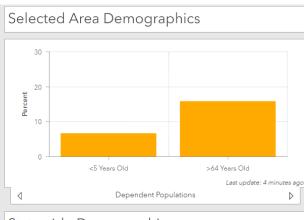












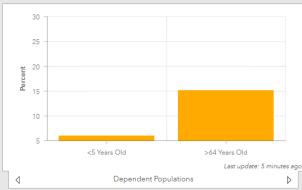
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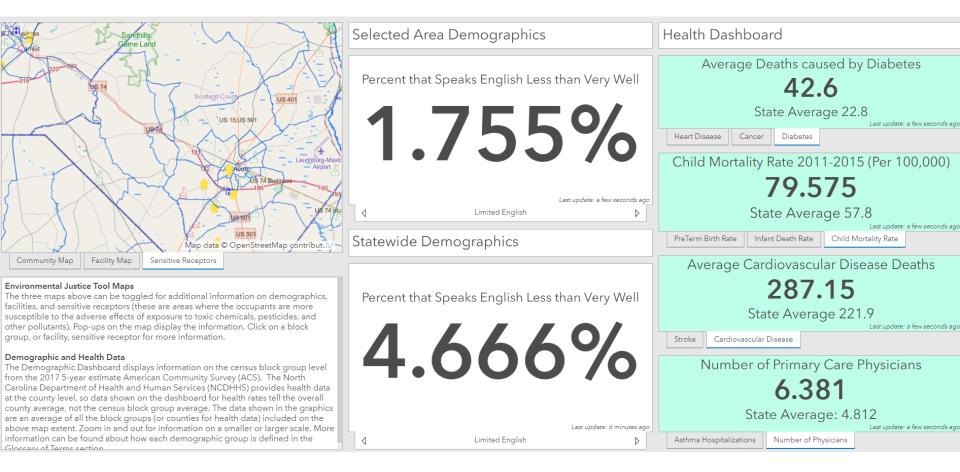
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