



Active Rental Permits and Owners in Newark, DE

A GIS Application

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GIS Technician, City of Newark

Outline

- ▶ Background
 - ▶ 60 second resume
 - ▶ Newark's Geographic Information System (GIS)
- ▶ GIS Application Gallery
- ▶ Active Rental Permit Application
 - ▶ Background
 - ▶ Development
 - ▶ Final Product
- ▶ Questions

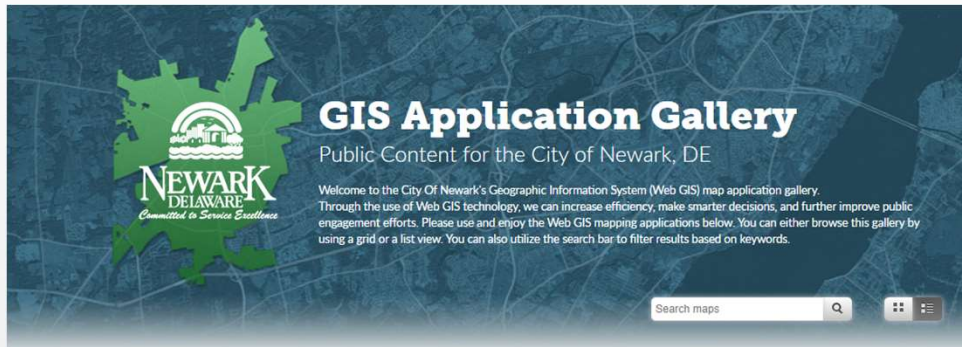
Background - Jay

- ▶ BS in Anthropology and Geography, University of North Dakota (1984)
 - ▶ Field archaeology in ND, Illinois, Delaware, Maryland, Pennsylvania
- ▶ MS in Geography, PhD in Climatology, University of Delaware (1992, 1998)
- ▶ ~25 years in private sector, W. L. Gore & Associates, Inc.
 - ▶ Product Specialist – global site assessment service – identify contaminated soil and groundwater
 - ▶ Used GIS to make maps of the types and distribution of the contaminants
- ▶ ~7 years in the public sector
 - ▶ Kent County, Dover, Public Works Department - GIS
 - ▶ City of Newark, Public Works and Water Resources Department
 - ▶ GIS Technician - Administer the ArcGIS platform (cloud, desktop, on-premise), develop field data collection applications, general GIS map and project support

Background – Newark's GIS

- ▶ Esri's ArcGIS – largest geographic information system platform available
 - ▶ Used by governments of all sizes, private, and academic sectors worldwide
- ▶ Limited ArcGIS use up until about seven years ago
 - ▶ Handful of individual licenses, no centralized geodatabase; stormwater assets, mapmaking in planning
- ▶ Invested in an enterprise ArcGIS platform (2015)
 - ▶ Server setup, centralized geodatabase (eliminates data duplication)
 - ▶ ArcGIS Online
 - ▶ Cloud-based, web GIS platform, public facing
 - ▶ Allows for efficient public sharing of information in map and table form
- ▶ In April 2020, significant upgrade adding ArcGIS for Enterprise
 - ▶ On-premise, web GIS, internal-facing
 - ▶ Field data collection GIS applications

Background – GIS Application Gallery



GIS Application Gallery
Public Content for the City of Newark, DE

Welcome to the City Of Newark's Geographic Information System (Web GIS) map application gallery. Through the use of Web GIS technology, we can increase efficiency, make smarter decisions, and further improve public engagement efforts. Please use and enjoy the Web GIS mapping applications below. You can either browse this gallery by using a grid or a list view. You can also utilize the search bar to filter results based on keywords.

Search maps

For instructional videos on how to use these applications, please [click here](#).

- Development Plan Proposals**
StoryMap by newarkgis_CityOfNewarkDE. Last Modified Oct 10, 2022.
Planning and Development Department, City of Newark, DE
- Active Rental Permits and Owners**
Web Mapping Application by newarkgis_CityOfNewarkDE. Last Modified Oct 6, 2022.
Active rental permit locations and property owners, City of Newark, DE. Note: Current data are from October 1, 2022.
- Parking Locator**
Web Mapping Application by newarkgis_CityOfNewarkDE. Last Modified Sep 27, 2022.
The 'Parking Locator' provides information on the City's metered and lot parking (including available space counts), residential permit parking, and select University of Delaware parking lots and parking garages.

[GIS Application Gallery \(cityofnewarkde.us\)](https://gis.cityofnewarkde.us)
<https://gis.cityofnewarkde.us/gis/gallery>



CITY MAPS

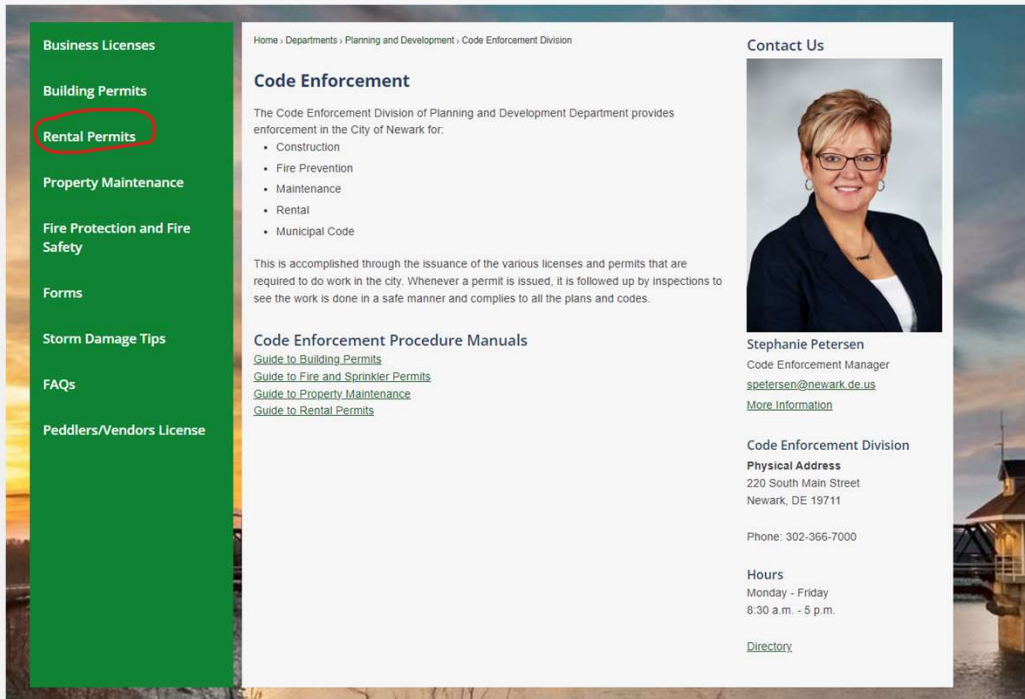
- Addresses, Parcels, Structures, Zoning and Land Use Information Lookup**
Web Mapping Application by newarkgis_CityOfNewarkDE. Last Modified Jun 28, 2022.
'Addresses, Parcels, Structures, Zoning, and Land Use Information Lookup' provides parcel-based information.
- Zoning District Information Lookup**
Web Mapping Application by newarkgis_CityOfNewarkDE. Last Modified Jun 28, 2022.
'Zoning District Information Lookup' provides parcel-based zoning information.
- City of Newark Election Polling Places and Council Districts**
Web Mapping Application by newarkgis_CityOfNewarkDE. Last Modified Feb 14, 2022.
City of Newark election polling places. Includes the Council Districts.
- Council Districts and Council Members**
Web Mapping Application by newarkgis_CityOfNewarkDE. Last Modified Jan 13, 2022.
'Council Districts and Council Members' displays the council district boundaries and provides council member information.

Active Rental Permit and Owners GIS Application

- ▶ Request from councilperson as to how many properties are rented in his district (February 2022)
- ▶ Static rental permit list available on Code Enforcement's web page
 - ▶ "Mine" the list to determine the number of rented properties by district
 - ▶ Labor intensive, not practical
- ▶ Can we use GIS to count rented properties in a/few/all districts, street, neighborhood, city-wide, etc.?
 - ▶ Yes! Count **and** location!
- ▶ Active rental permit data contained in Tyler Munis database
 - ▶ Used to create the static list
 - ▶ Export as a table ArcGIS can import
- ▶ Developed ArcGIS project to import, organize, and display permit data
 - ▶ Share (publish) results through a web GIS application on the City's GIS Gallery

Active Rental Permit and Owners GIS Application


- ▶ Static rental permit list available on Code Enforcement's web page



[Newark, DE - Official Website | Official Website \(newarkde.gov\)](https://www.newarkde.gov)
<https://www.newarkde.gov>

[Code Enforcement | Newark, DE - Official Website \(newarkde.gov\)](https://www.newarkde.gov/24/Code-Enforcement-Division)
<https://www.newarkde.gov/24/Code-Enforcement-Division>

Active Rental Permit and Owners GIS Application



PLANNING & DEVELOPMENT
CITY OF NEWARK

220 South Main Street · Newark, Delaware 19711
302.366.7000 · Fax 302.366.7160 · www.newarkde.gov

ACTIVE RENTAL PERMITS AND OWNERS

LOC#	SUFFIX	Parcel #	LOCATION STREET	UNIT#	OWNER NAME	OWNER ADDRESS	CITY	STATE	ZIP	PHONE #
118		1801400042	NORTH COLLEGE AVENUE		STONE TREE LLC	175 SOUTH MAIN STREET	NEWARK	DE	19711	
22		1801400243	ANNABELLE STREET		FROGTOWN LLC	1101 MILLSTONE DRIVE	NEWARK	DE	19711	
22		1802000214	CONTINENTAL AVENUE		FROGTOWN LLC	1101 MILLSTONE DRIVE	NEWARK	DE	19711	
32		1802000222	CONTINENTAL AVENUE		FROGTOWN LLC	1101 MILLSTONE DRIVE	NEWARK	DE	19711	
12		1802000222	WRIGHTSTOWNE LANE		FROGTOWN LLC	1101 MILLSTONE DRIVE	NEWARK	DE	19711	
26		1802000222	WRIGHTSTOWNE LANE		FROGTOWN LLC	1101 MILLSTONE DRIVE	NEWARK	DE	19711	
394		1803200027	SOUTH COLLEGE AVENUE		FROGTOWN LLC	1101 MILLSTONE DRIVE	NEWARK	DE	19711	
1		1802100098	CALDWELL PLACE		FROGTOWN LLC	1101 MILLSTONE DRIVE	NEWARK	DE	19711	
3		1802100098	CALDWELL PLACE		FROGTOWN LLC	1101 MILLSTONE DRIVE	NEWARK	DE	19711	

10/3/2022 9:59:42 AM

- 95 pages
- 1,500+ permit records
- Permit street address
- Parcel number
- Owner name, address, phone

GOAL:

- Convert the list of information into map form
- Harness the spatial analysis capabilities of GIS

Active Rental Permit and Owners GIS Application

GIS side of things.....

- ▶ Access Munis and export the permit list, format for import into ArcGIS
- ▶ Added other GIS layers to map for reference
 - ▶ City limits, zoning, council district, and parcel polygon layers
- ▶ Convert imported permit data into points on the map
 - ▶ Join imported permit table to the parcel layer
 - ▶ Parcel number (permit table) to parcel number (parcel layer)
- ▶ Build information “pop-ups” to deliver same information in the map, as seen in the static table
- ▶ Serve GIS map application on Newark’s GIS Gallery
- ▶ Updated monthly

Active Rental Permits and Owners built with ArcGIS Web AppBuilder

Find address or place

Active Rental Permits and Owners

This web GIS application serves information on active rental permits, permit locations, and the permit owners. We strive to provide the most accurate information possible, but some data omissions will occur.

NOTE: The active rental permit data have a source date of October 1, 2022.

To access information specific about a location, use the navigation tools in the upper left corner of the map to pan/zoom to the location of interest. If you know the location's address, you can enter that in the search tool. For best results, zoom in fairly close to the location of interest.

Use your mouse to click on the location of interest, and a pop-up window will open displaying information about the location. You may have to scroll through the pop-up to access any additional information.

The map contains the following GIS data layers:

- City Limits
- Council Districts
- Active Rental Permits
- Parcels
- Zoning Districts

The data layers can be clicked on and off using the Layer List tool located in the upper right.

Do not show this splash screen again.

OK

Legend

Newark Active Rentals - October 1, 2022

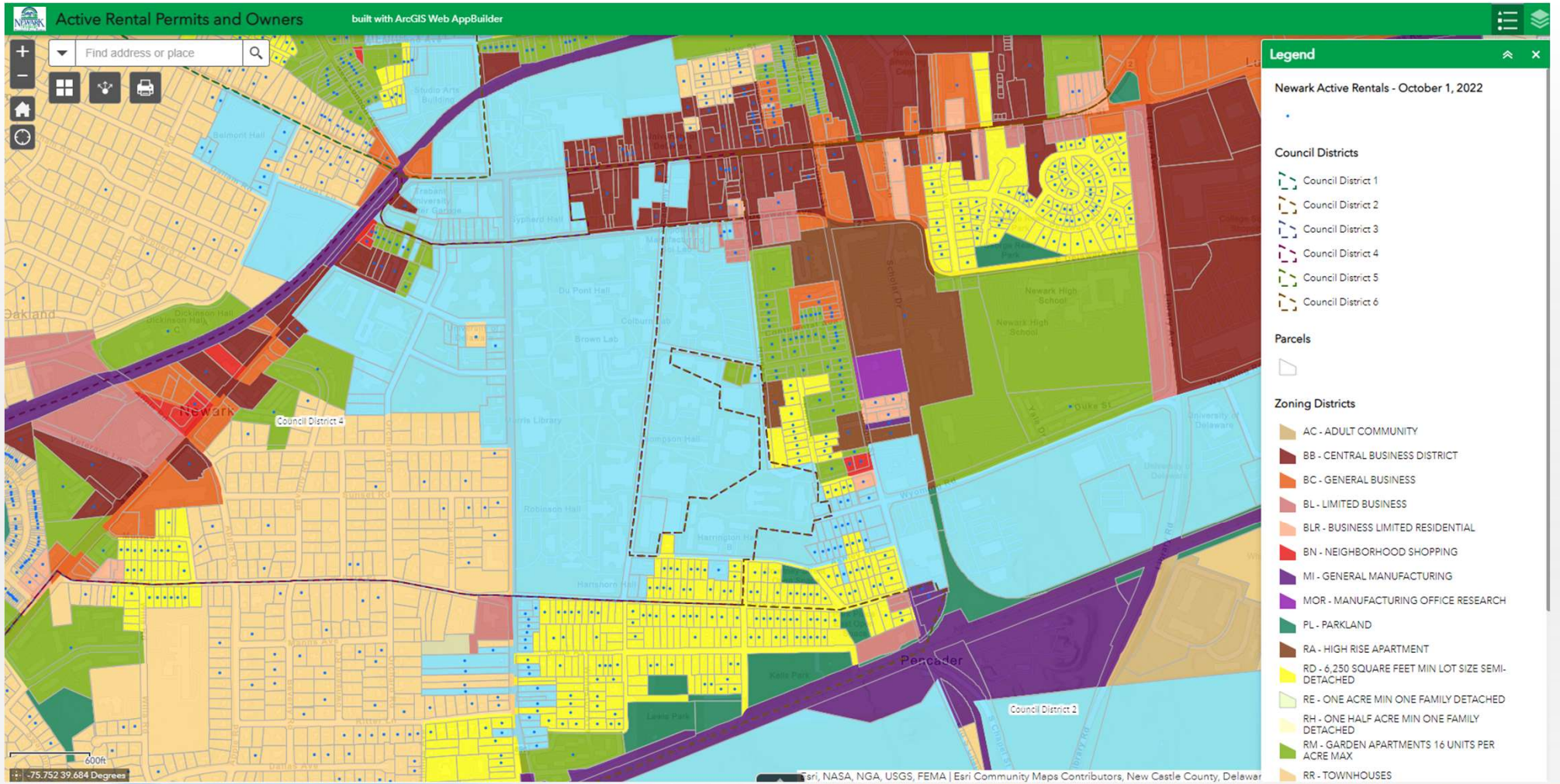
Council Districts

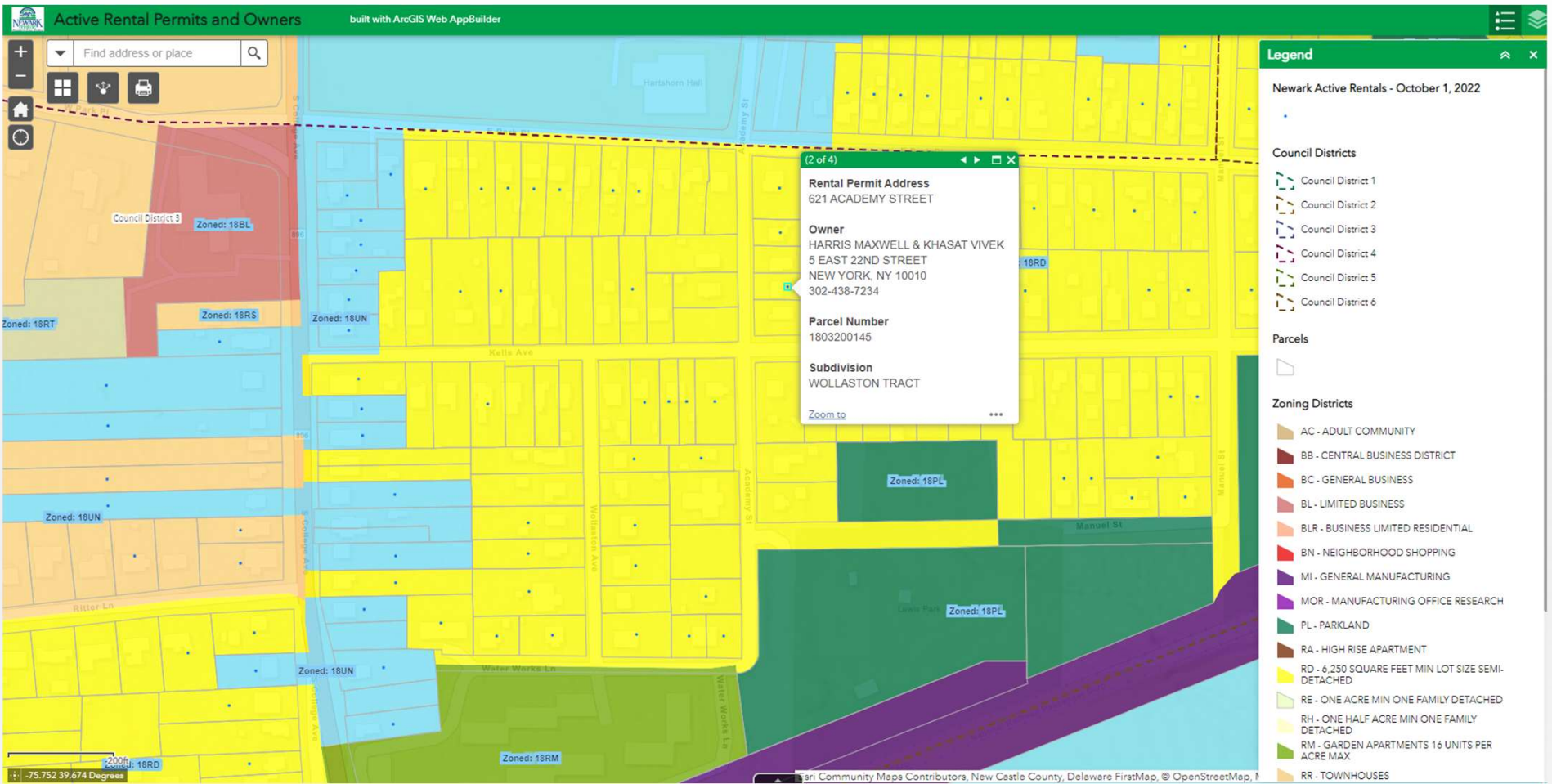
- Council District 1
- Council District 2
- Council District 3
- Council District 4
- Council District 5
- Council District 6

Parcels

Zoning Districts

- AC - ADULT COMMUNITY
- BB - CENTRAL BUSINESS DISTRICT
- BC - GENERAL BUSINESS
- BL - LIMITED BUSINESS
- BLR - BUSINESS LIMITED RESIDENTIAL
- BN - NEIGHBORHOOD SHOPPING
- MI - GENERAL MANUFACTURING
- MOR - MANUFACTURING OFFICE RESEARCH
- PL - PARKLAND
- RA - HIGH RISE APARTMENT
- RD - 6,250 SQUARE FEET MIN LOT SIZE SEMI-DETACHED
- RE - ONE ACRE MIN ONE FAMILY DETACHED





Active Rental Permit and Owners GIS Application

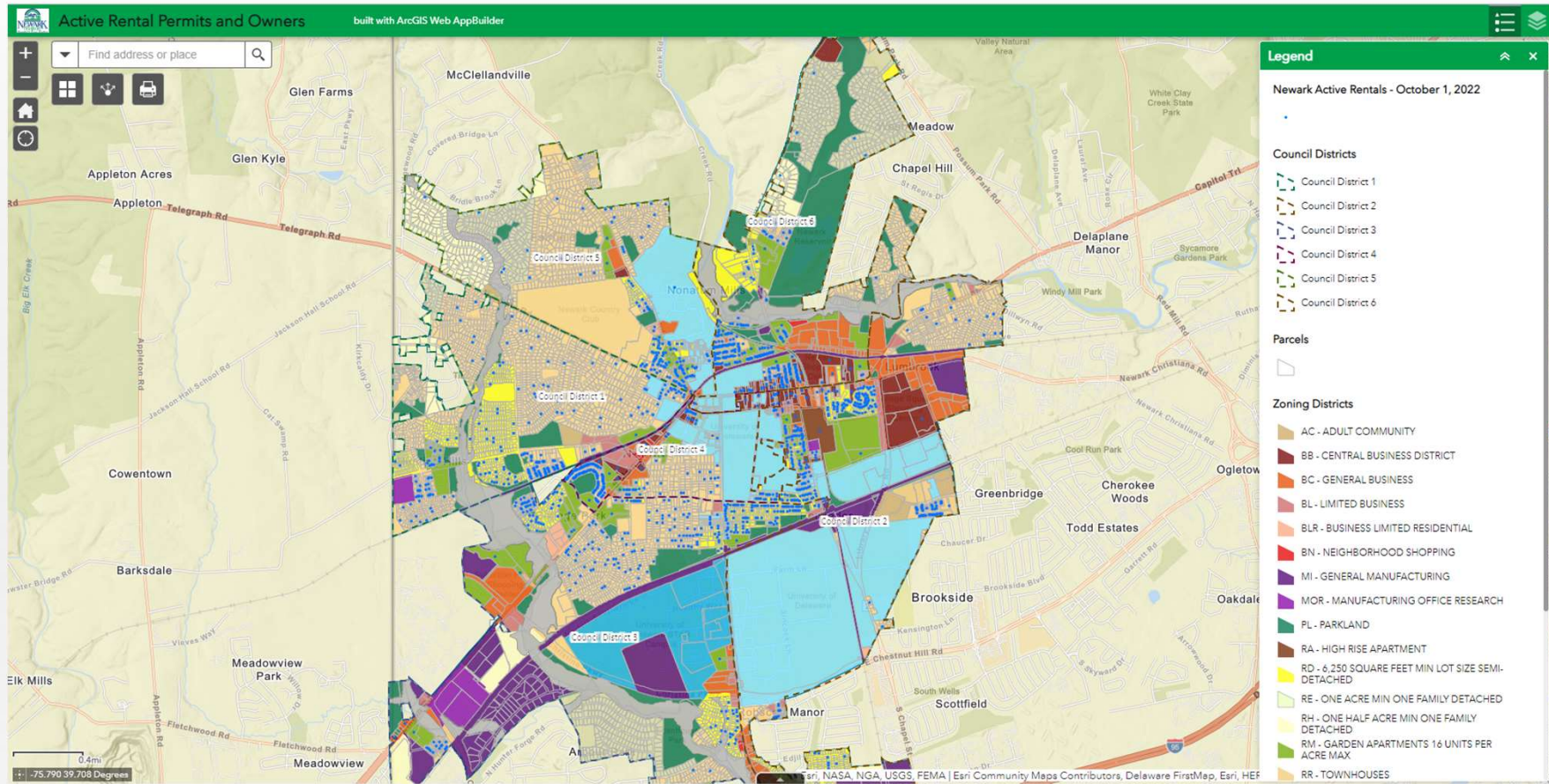
Future

- ▶ Automate - Link Tyler Munis and ArcGIS platforms “behind the scenes”
 - ▶ Create real-time spatial view of active rental permits
 - ▶ Eliminate static snapshot in time, manual export/import
 - ▶ Create GIS layer of ‘days to permit expiration’ and ‘days since permit expiration’

Wilmington, DE

- ▶ ArcGIS platform
- ▶ Identify database containing rental permit records
- ▶ Export table, import to your GIS, develop map, and share
 - ▶ Automate

Questions



Bonus - Parking Locator

City of Newark Parking Locator Provides information for City parking and UD parking garages.

Find address or place

W CLEVELAND AVE

NEW 10

273

896

387

W DELAWARE AVE

COLLEGE AVE

Lot 1, Main Street Galleria

Lot 2

Lot 3

Lot 4

Lot 5

Lot 6

Lot 7

E DELAWARE AVE

273

Legend

- Reserved Parking Spaces
- Municipal Lot Vacant Parking Spaces
- Municipal Kiosk Location
- Municipal Kiosk Parking Zone
 - 2 hour
 - 8 hour
 - Loading zone 2 hour
- City Surface Lot Information
- Municipal Parking Lots
 - Hourly
 - Permit Only
 - Metered
- Residential Parking Zones
- UD Parking Garages and Surface Lots
- Municipal Boundary