

JULY 8 RAIN EVENT

Matthew Marquis

Fairfax County Office of Emergency Management

Situation Unit Leader



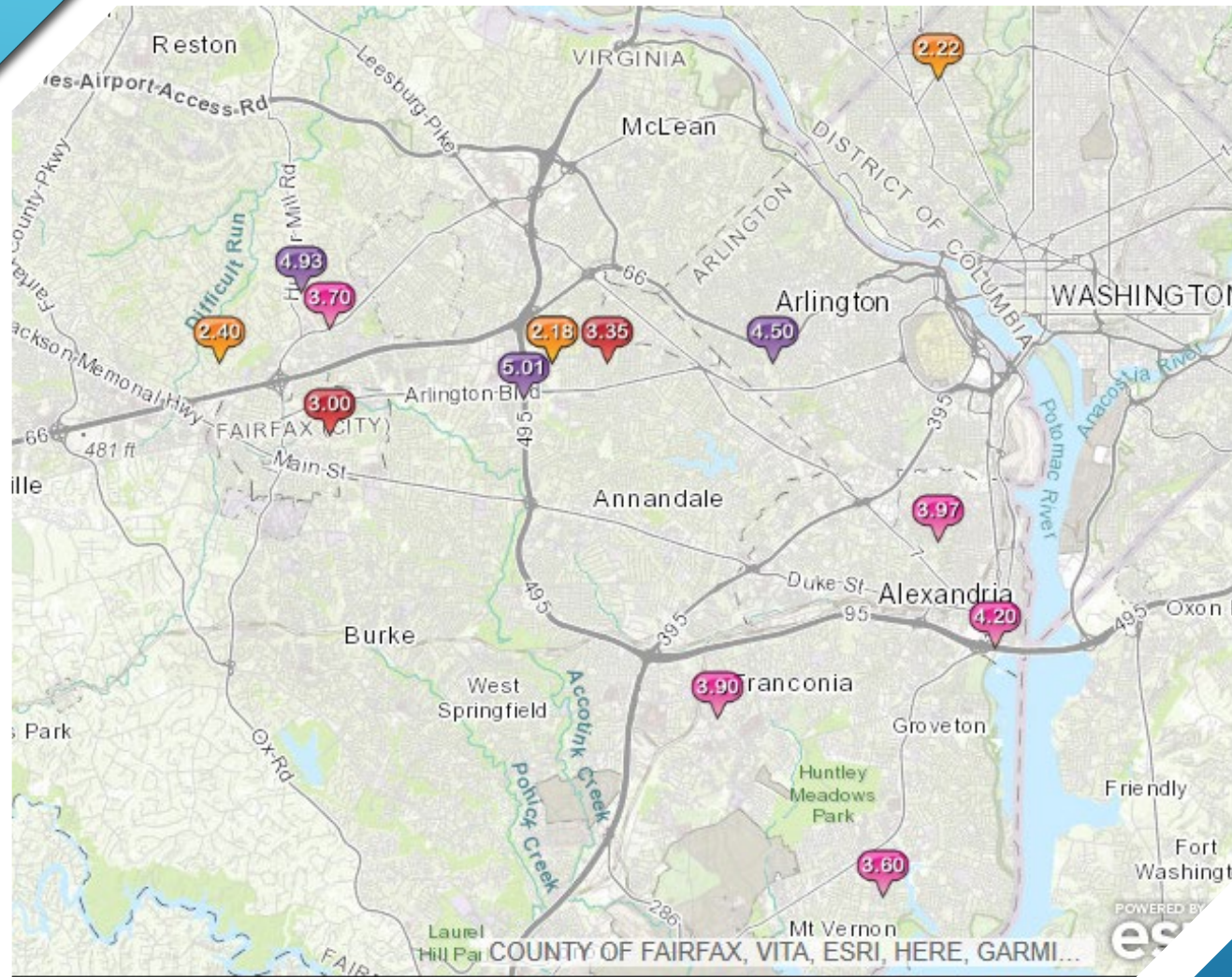


EVENT OVERVIEW

On July 8th at approximately 8:30am the Fairfax County OEM Duty Officer received notice directly from the NWS Sterling office of a potentially catastrophic flooding event with rainfall totals as high as 4" over the next hour possible. The OEM Duty Officer immediately went to the 911 center to advise of the notice and found several swift water rescue calls already occurring primarily in the Dranesville district.



RAINFALL TOTALS



Active Calls

NCR CAD DASHBOARD

10/18/2019, 1:10 PM

Jurisdiction: Fairfax County

Units: **M434 FE403**

4007 UNIVERSITY DR FRFX CITY

10/18/2019, 1:09 PM

Generic fire alarm

Jurisdiction: Fairfax County

Units: **1**

3358 V LN OKTN

10/18/2019, 1:08 PM

Jurisdiction: Fairfax County

Units: **M414 E408**

8100 BRADDOCK RD ANDL

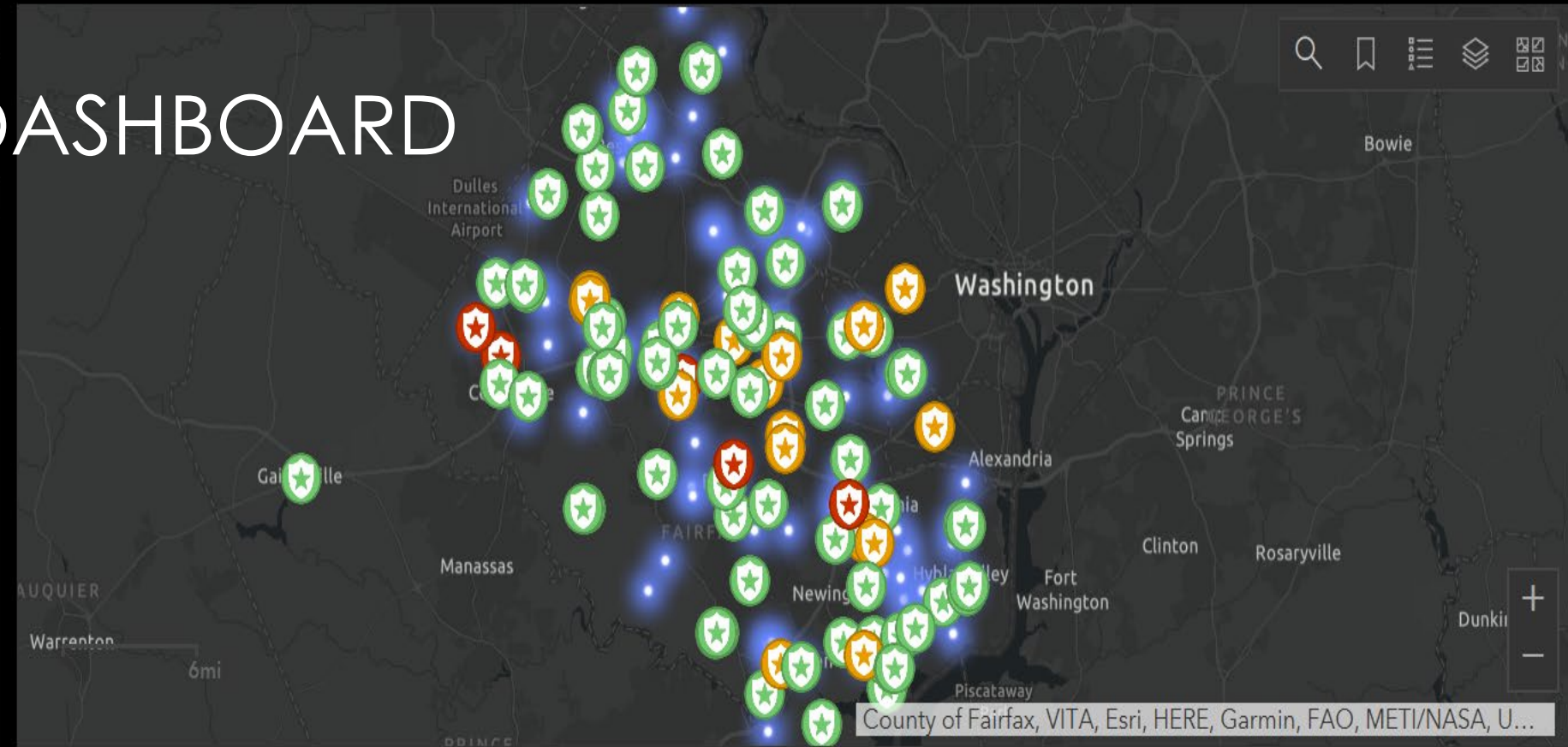
10/18/2019, 1:04 PM

Basic Life Support incident

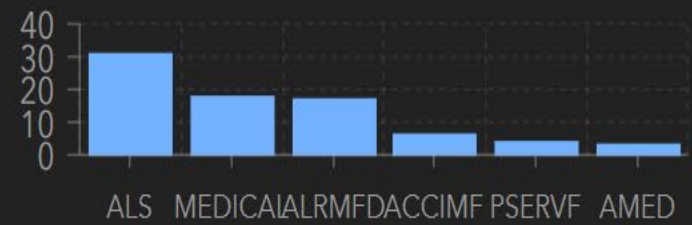
Jurisdiction: Fairfax County

Units: **M427 E414**

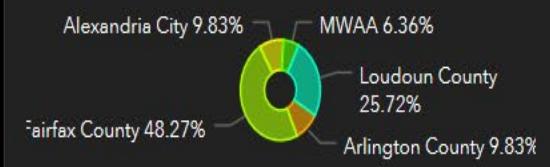
9200 BURKE LAKE RD BRKE



Call Type Summary



Availability by Jurisdiction



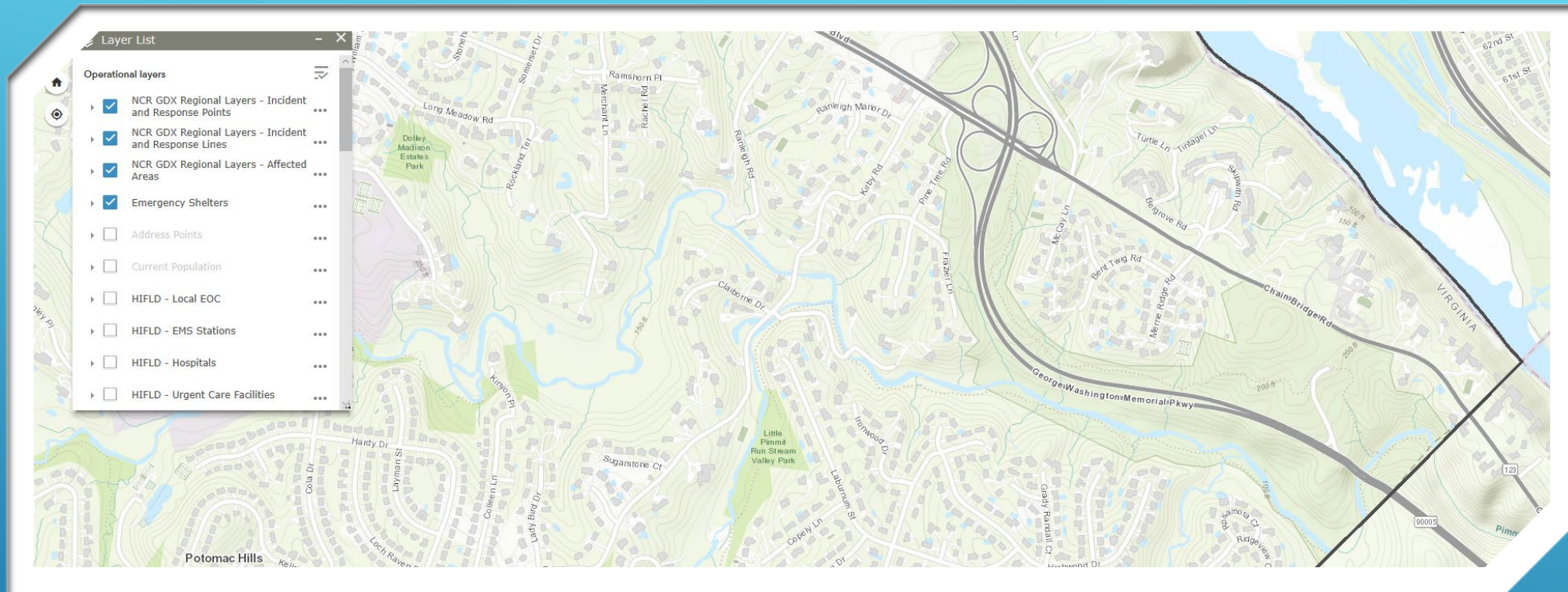
Available Units





KIRBY ROAD





CRITICAL MAPPING WITH EOC VIEWER





Layer List

Operational layers

- ☒ NCR GDX Regional Layers - Incident and Response Points
- ☒ NCR GDX Regional Layers - Incident and Response Lines
- ☒ NCR GDX Regional Layers - Affected Areas
- ☒ Emergency Shelters
- ☐ Address Points
- ☐ Current Population
- ☐ HIFLD - Local EOC
- ☐ HIFLD - EMS Stations
- ☐ HIFLD - Hospitals
- ☐ HIFLD - Urgent Care Facilities

Clearview Manor



Smart Editor - For EOC Planning ...

Select a template to create features

- All
- NCR GDX Regional Layers - Incident and Response Points
- NCR GDX Regional Layers - Incident and Response Lines
- NCR GDX Regional Layers - Affected Areas

NCR GDX Regional Layers - Incident and Response Points



Accident



Biohazard



Bomb



Casualty



Casualty Collection Point



Checkpoint



Closure



Crime - Break-In



Crime - Other



-77.160 38.934 Degrees

600ft



Chesterbrook Estates

Arlingwood



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- ☐ HIFLD - Urgent Care Facilities

July 8 Rain Event - Kirby Road

Smart Editor - For EOC Planning ...

NCR GDX Regional Layers - Affected Areas

Type *

Flooded Area

Name *

July 8 Rain Event - Kirby Road

Description *

July 8 Rain Event - Kirby Road

Status *

Active

Start Date

10/17/2019

Back

-77.160 38.927 Degrees

600ft



Chesterbrook Estates

Arlingwood

- Layer List
- Operational layers
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Smart Editor - For EOC Planning ...

Response Points (1 of 2)

Type

Closure

Name *

Kirby Road Closure - S Bound

Description *

Kirby Road Closure - S Bound

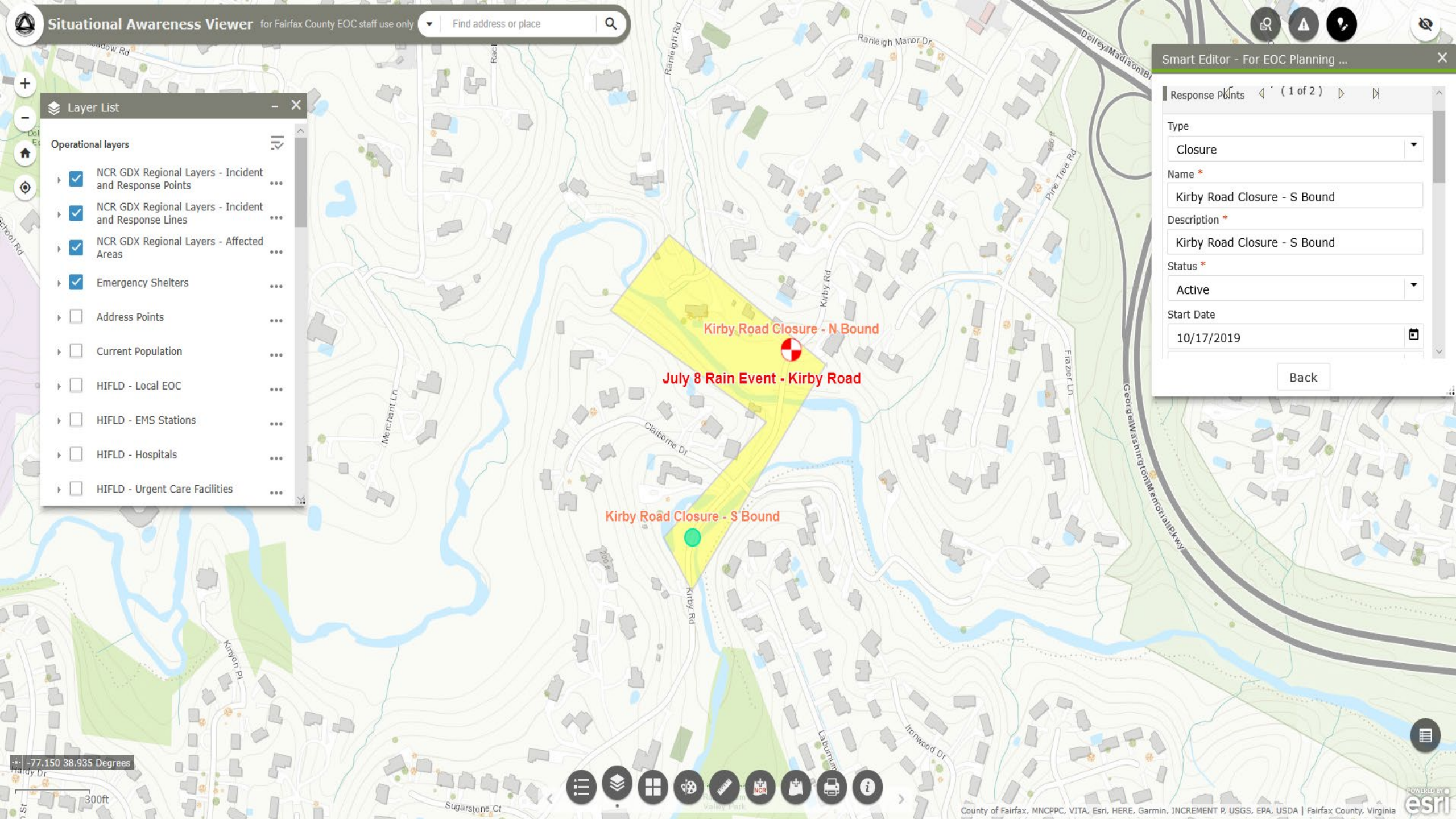
Status *

Active

Start Date

10/17/2019

Back



-77.150 38.935 Degrees



Layer List

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- ☐ HIFLD - EMS Stations
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- ☐ HIFLD - Urgent Care Facilities

Query

Tasks

Results


- ☒ Parcels
- ☒ Addresses
- ☒ Current Population
- ☒ Roadways

Kirby Road Closure - N Bound

July 8 Rain Event - Kirby Road

Kirby Road Closure - S Bound





Layer List

Operational layers

☒ NCR GDX Regional Layers - Incident and Response Points

☒ NCR GDX Regional Layers - Incident and Response Lines

☒ NCR GDX Regional Layers - Affected Areas

☒ Emergency Shelters

☐ Address Points

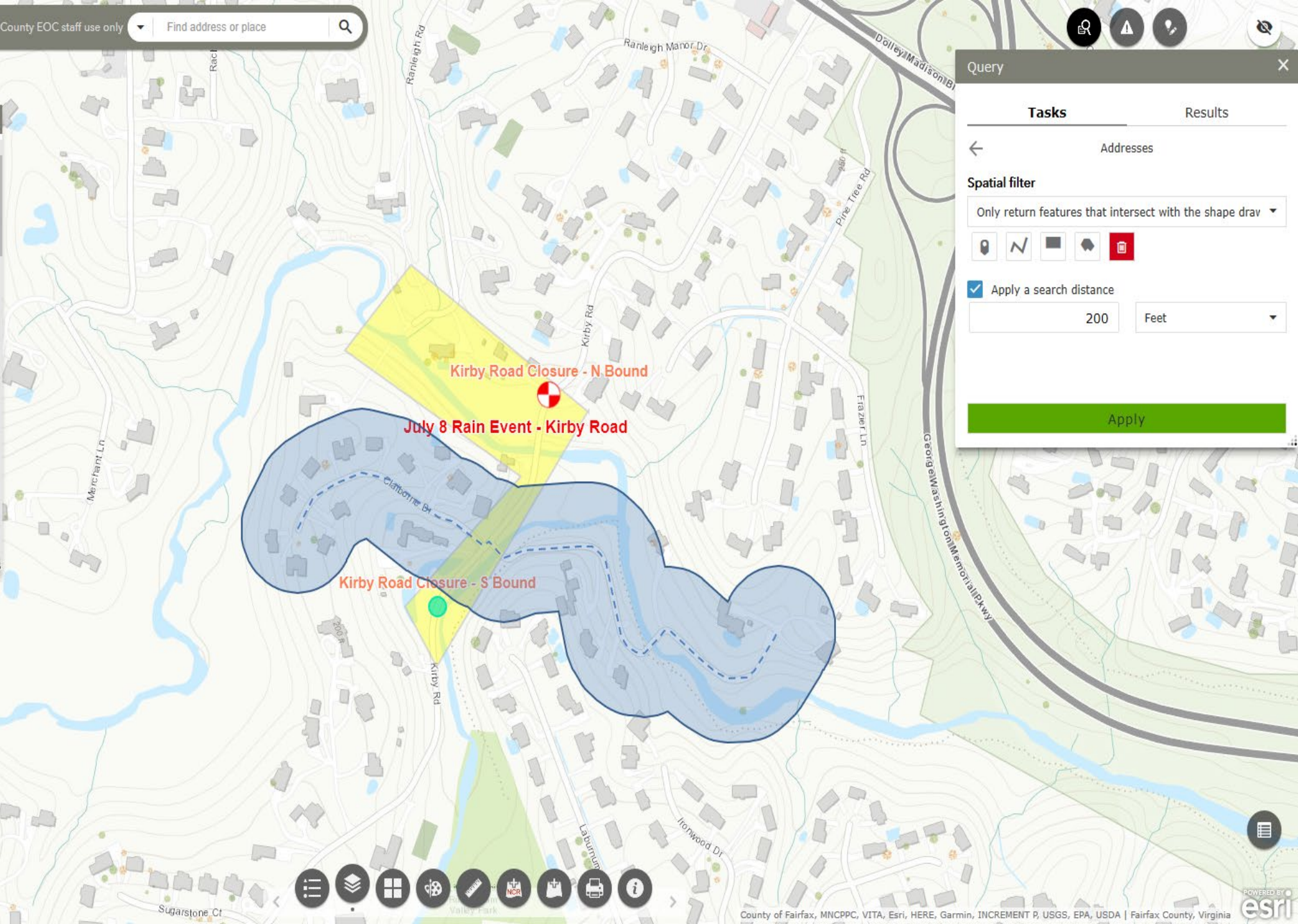
☐ Current Population

☐ HIFLD - Local EOC

☐ HIFLD - EMS Stations

☐ HIFLD - Hospitals

☐ HIFLD - Urgent Care Facilities



Query


Tasks


Results


Addresses


Spatial filter


Only return features that intersect with the shape draw











☒ Apply a search distance

200

Feet

Apply

-77.146 38.937 Degrees



Layer List

Operational layers

- ☒ Addresses _Query result
- ☒ NCR GDX Regional Layers - Incident and Response Points
- ☒ NCR GDX Regional Layers - Incident and Response Lines
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- ☐ HIFLD - EMS Stations
- ☐ HIFLD - Hospitals

Kirby Road Closure - N Bound

July 8 Rain Event - Kirby Road

Pimmit Run

CLAIBORNE DR

KIRBY RD

Kirby Road Closure - S Bound

Query

Tasks

Results

Addresses _Query result

Number of features found: 19

Addresses: 1361 KIRBY RD

PIN 0312 01 0067B

Address 1361 KIRBY RD

City MCLEAN

State VA

ZIP 22101

Addresses: 1369 KIRBY RD

PIN 0312 25 0002

Address 1369 KIRBY RD

City MCLEAN





Layer List

Operational layers

- ☒ Addresses _Query result
- ☒ NCR GDX Regional Layers - Incident and Response Points
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Kirby Road Closure - N Bound

July 8 Rain Event - Kirby Road

Pimmit Run

CLAIBORNE DR

KIRBY RD

Kirby Road Closure - S Bound

Query

Tasks

Results

Addresses _Query result

Number of features found: 1

Addresses: 1361 KIRBY

PIN 0312 01 006

Address 1361 KIRBY

City MCLEAN

State VA

ZIP 22101

Addresses: 1369 KIRBY

PIN 0312 25 000

Address 1369 KIRBY

City MCLEAN

Zoom to

Pan to

Flash

Export to CSV file

Export to feature collection

Export to GeoJSON

Statistics...

Save to My Content

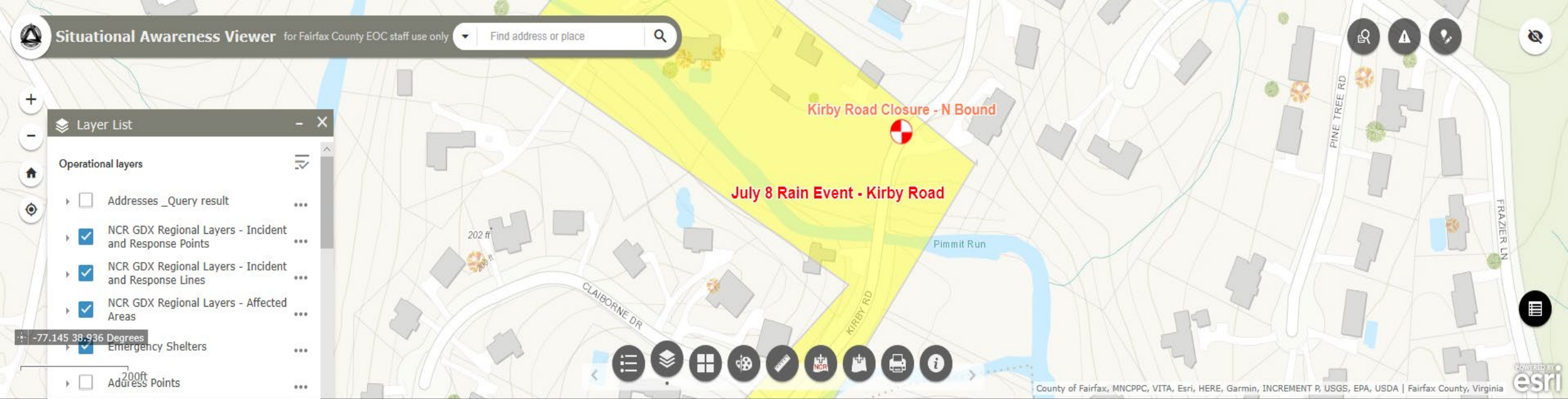
View in Attribute Table

Remove this result

-77.138 38.936 Degrees

200ft

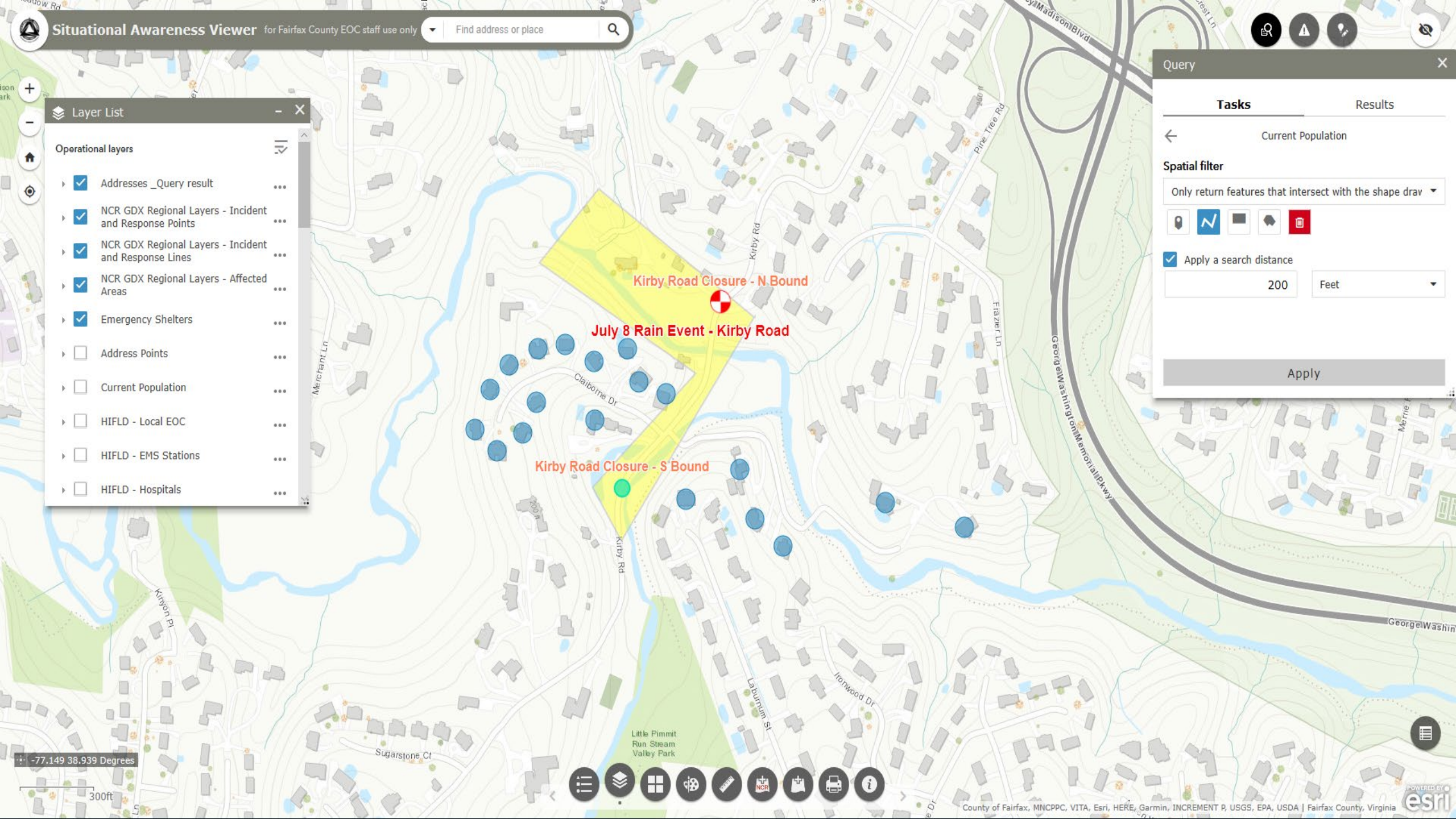




Incident and Response Points NCR GDX Regional Layers - Incident and Response Lines NCR GDX Regional Layers - Affected Areas Road Hazards Road Closures VDOT Events VDOT Planned Events VDOT Weather Events Addresses_Query result

Options Filter by map extent Zoom to Clear selection Refresh

OBJECTID	ADD_ADDRESS	PARCEL_PIN	STREET_NUM	STREET_NUM_S	STREET_PREFI	STREET_NAME	STREET_TYPE	STREET_SUFFI	UNIT_TYPE	UNIT_NUMBER	CITY	STATE	ZIP	ADDRESS_1	ADD_LOCATION	ADD_LOCATION	CAD_KEY
20466	31955	0312 01 0067B	1361			KIRBY	RD				MCLEAN	VA	22101	1361 KIRBY RD	11870993.755	7026267.95	100025250
33169	33057	0312 25 0002	1369			KIRBY	RD				MCLEAN	VA	22101	1369 KIRBY RD	11870150.6	7026285.455	100035339
142300	168141	0312 13 0006B	6012			CLAIBORNE	DR				MCLEAN	VA	22101	6012 CLAIBORNE DR	11869154.755	7026819.69	100154967
142335	168348	0312 13 0005A	6014			CLAIBORNE	DR				MCLEAN	VA	22101	6014 CLAIBORNE DR	11869079.05	7026731.21	100154999
142558	168450	0312 13 0003A	6015			CLAIBORNE	DR				MCLEAN	VA	22101	6015 CLAIBORNE DR	11869108.16	7026513.42	100155038
143629	168036	0312 13 0001A	6011			CLAIBORNE	DR				MCLEAN	VA	22101	6011 CLAIBORNE DR	11869263.665	7026689.09	100159996
143651	168243	0312 13 0002A	6013			CLAIBORNE	DR				MCLEAN	VA	22101	6013 CLAIBORNE DR	11869211.675	7026579.36	100160023



Layer List

Operational layers

- ☒ Addresses_Query result
- ☒ NCR GDX Regional Layers - Incident and Response Points
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- ☐ HIFLD - EMS Stations
- ☐ HIFLD - Hospitals

Query

Tasks

Results



Current Population

Spatial filter

Only return features that intersect with the shape draw



☒ Apply a search distance

200

Feet

Apply

-77.149 38.939 Degrees

300ft



Layer List

Operational layers

- ☒ Current Population _Query result
- ☐ Addresses _Query result
- ☒ NCR GDX Regional Layers - Incident and Response Points
- ☒ NCR GDX Regional Layers - Incident and Response Lines
- ☒ NCR GDX Regional Layers - Affected Areas
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July 8 Rain Event - Kirby Road

Kirby Road Closure - N Bound

Kirby Road Closure - S Bound

Query

Tasks

Results

Current Population _Query result

Number of features found: 2

Current Population:	
PIN	03
Current Population	2
Current Population:	
PIN	03
Current Population	2
Current Population:	
PIN	03
Current Population	2

- Zoom to
- Pan to
- Flash
- Export to CSV file
- Export to feature collection
- Export to GeoJSON
- Statistics...
- Save to My Content
- View in Attribute Table
- Remove this result

-77.137 38.936 Degrees

200ft





Layer List

Operational layers

- ☒ Current Population _Query result ...
- ☐ Addresses _Query result ...
- ☒ NCR GDX Regional Layers - Incident and Response Points ...
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- ☐ HIFLD - EMS Stations ...

Kirby Road Closure - N Bound

July 8 Rain Event - Kirby Road

Statistics

Field:
Current Population

Number of values	23
Sum of values	62.08
Minimum	2.62
Maximum	2.80
Average	2.70

OK

Query

Tasks

Results

Current Population _Query result

Number of features found: 23

Current Population:2.80

PIN 0312 01 0067C
Current Population 2.80

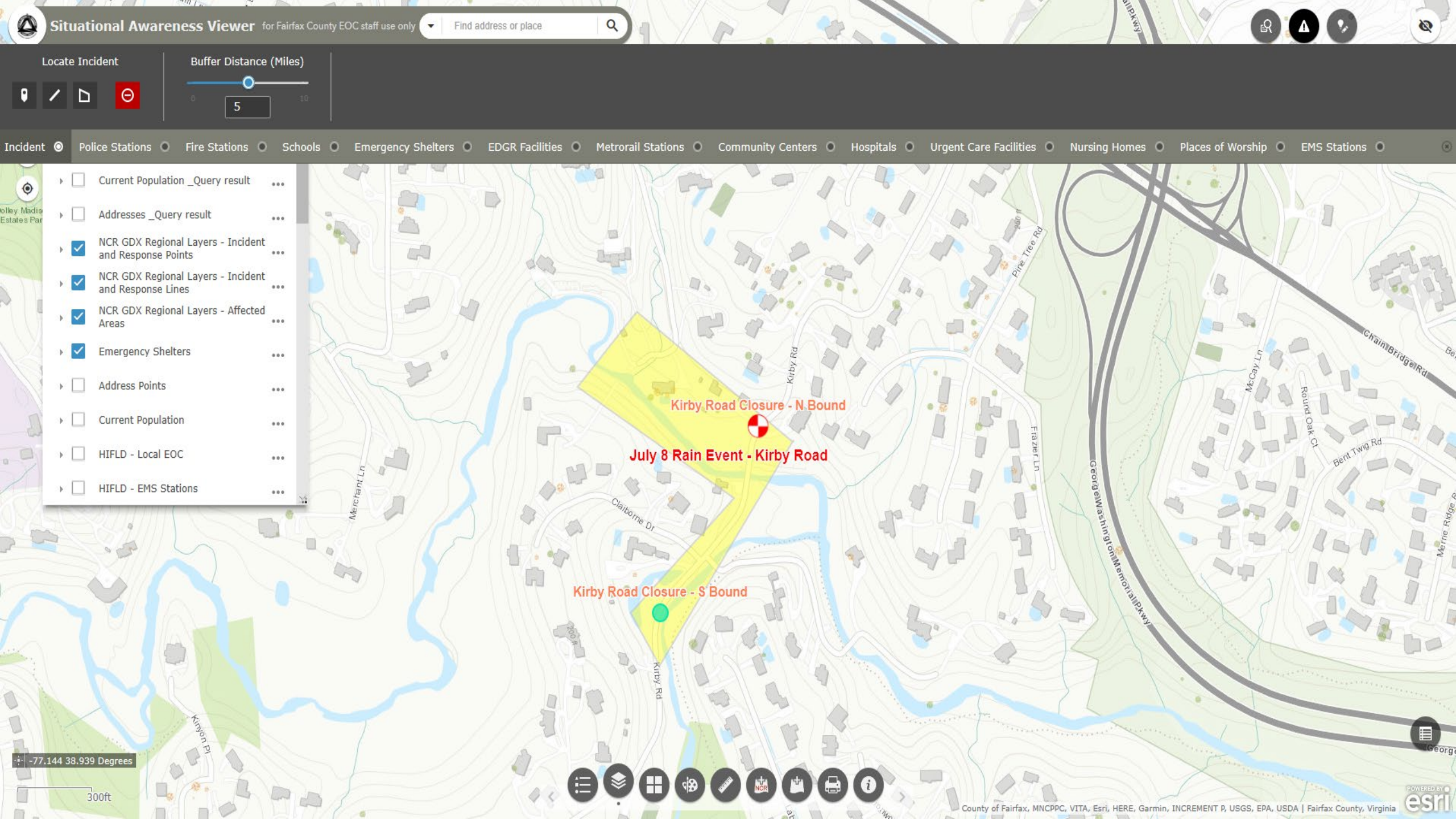
Current Population:2.62

PIN 0312 01 0071
Current Population 2.62

Current Population:2.80

PIN 0312 02 0018
Current Population 2.80





Locate Incident

Buffer Distance (Miles)

5

Incident Police Stations Fire Stations Schools Emergency Shelters EDGR Facilities Metrorail Stations Community Centers Hospitals Urgent Care Facilities Nursing Homes Places of Worship EMS Stations

- ☐ Current Population _Query result ...
- ☐ Addresses _Query result ...
- ☒ NCR GDx Regional Layers - Incident and Response Points ...
- ☒ NCR GDx Regional Layers - Incident and Response Lines ...
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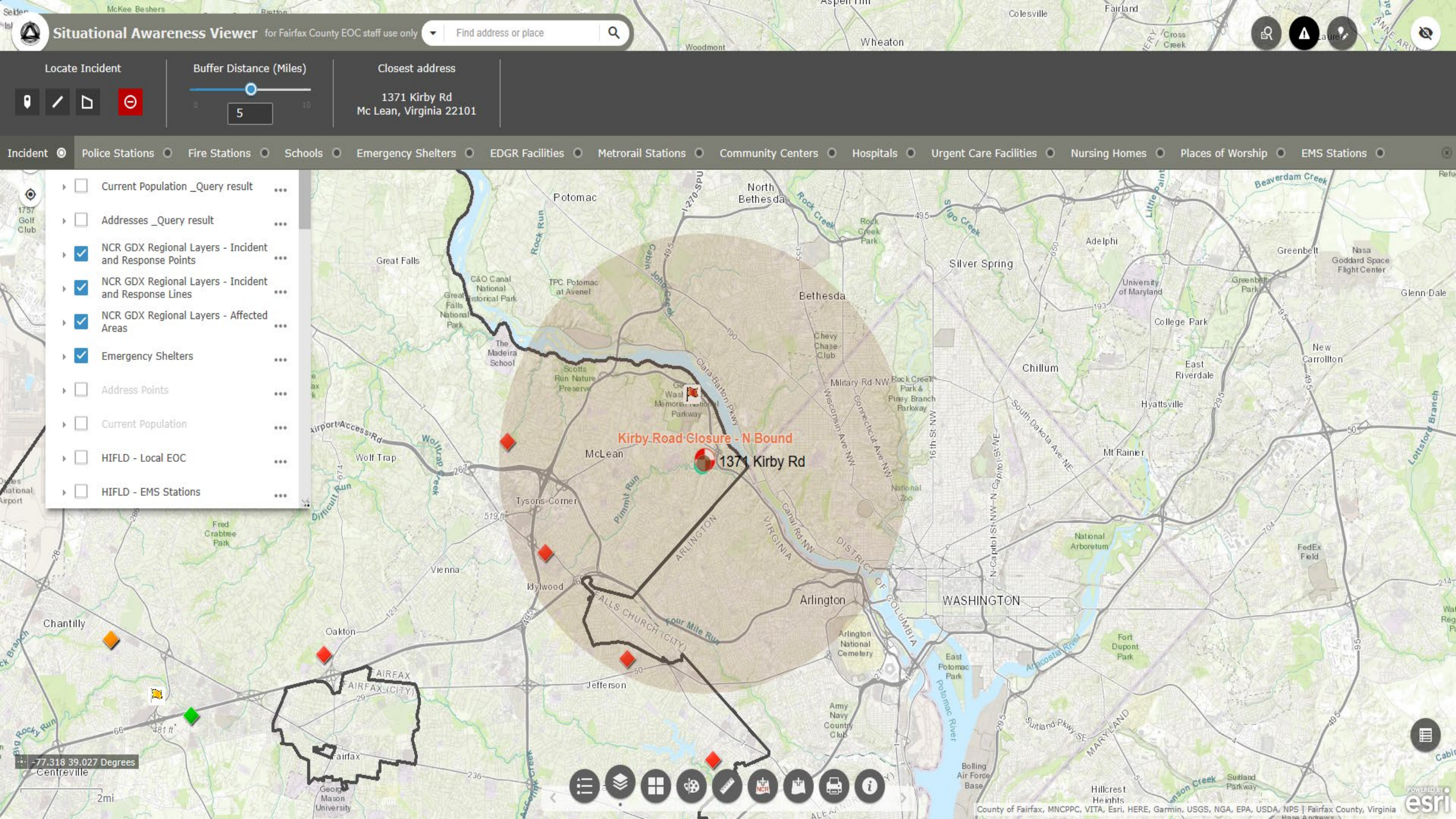
Kirby Road Closure - N Bound

July 8 Rain Event - Kirby Road

Kirby Road Closure - S Bound

-77.144 38.939 Degrees

300ft





George C. Marshall High Sc...
CLOSED
715

James Lee Community Cent...
CLOSED
300

Spring Hill Recreation Cent...
CLOSED
500

The screenshot displays a web-based GIS application interface. On the left, a legend panel lists several layers, with the following checked:

- NCR GDX Regional Layers - Incident and Response Points
- NCR GDX Regional Layers - Incident and Response Lines
- NCR GDX Regional Layers - Affected Areas
- Emergency Shelters

The main map area shows a topographic view of Fairfax County, Virginia, and surrounding areas. A specific incident is highlighted with a red dot and labeled "Kirby Road Closure - N Bound" at "1371 Kirby Rd". The map includes various geographical features, roads, and landmarks. A scale bar at the bottom left indicates a distance of 2 miles. The bottom right corner features the Esri logo and a note about the data sources: "County of Fairfax, MNCPPC, VITA, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS | Fairfax County, Virginia".

Kirby Road Closure - N Bound

1371 Kirby Rd



QUESTIONS?



CONTACT INFORMATION

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