

Presented By:

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The City of Naperville

City of Naperville

- 145,000 Residents
- 39 Square Miles

- Located in DuPage and Will Counties
- 4th Largest City in Illinois























High School Internship

- 4-6 Interns
- 8-week summer internship.
- Learn about municipal government.
- 2-3 Projects that focus on improving our City either internally/externally.



Waubonsie Valley
High School



Neuqua Valley High School



Naperville North High School



Naperville Central High School



Metea Valley High School

Adopt-a-Drain

- Benefits:
 - Prevent street flooding
 - Reduce pollution
 - Help protect local waterways.
- 14,000 storm drains available for adoption. (Drains located on neighborhood streets, under 35mph)
- Official Roll-out date: October 1, 2018











Graphic Design

How to Adopt a Drain



1. Find it

Use our interactive map to search for a drain near you



2. Claim it

Use our registration form to claim and name your drain



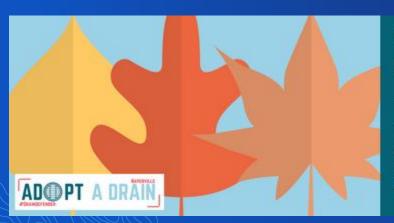
3. Clean it

Sweep the drain and 10 ft around it before rainstorms



4. Share it

Tweet your photos using #DrainDefender and tag us



CLEAN YOUR DRAINS

Leaves and other debris will clog your drains and flood your streets







NAPERVILLE.IL.US/ADOPTADRAIN







SUMMER 2018



Welcome Drain Defenders

March

Ice and snow will begin to melt, leading to water in the streets, and hopefully down the drains.



April

April showers will typically bring heavier rainfall.



June

The grass is starting to grow and people are starting to mow. Grass clippings often clog drains.



October

The leaves are starting to fall and they can quickly clog the drains.



1. Gather your materials.

Use the provided materials list. Be sure to wear gloves and reflective clothing.



2. Pick up any garbage and put it in the trash bag.

Plastic items can be recycled and other garbage can go in the trash.



3. Clear off the top of the drain and the area surrounding it.

Try not to push the leaves or grass into the drain. Clear a 10 ft. radius around the drain.



4. Put the organic materials in a yard waste bag.

Grass clippings and leaves can go into a standard yard waste bag for collection.



While cleaning the drains is important, safety is our utmost priority.

 Wear appropriate clothing and shoes, including a reflective safety vest at all times.

• Avoid items that are hazardous or may cause injury to you or others.

· Be aware of your surroundings.

DO NOT lift the drain grate.

Communications Department

Communications Plan

- Monthly Incentives
 - Created a Budget for Prizes
- Monthly/Quarterly Newsletters
- Social Media Calendar
- **End of Year Survey**





a chance to win...

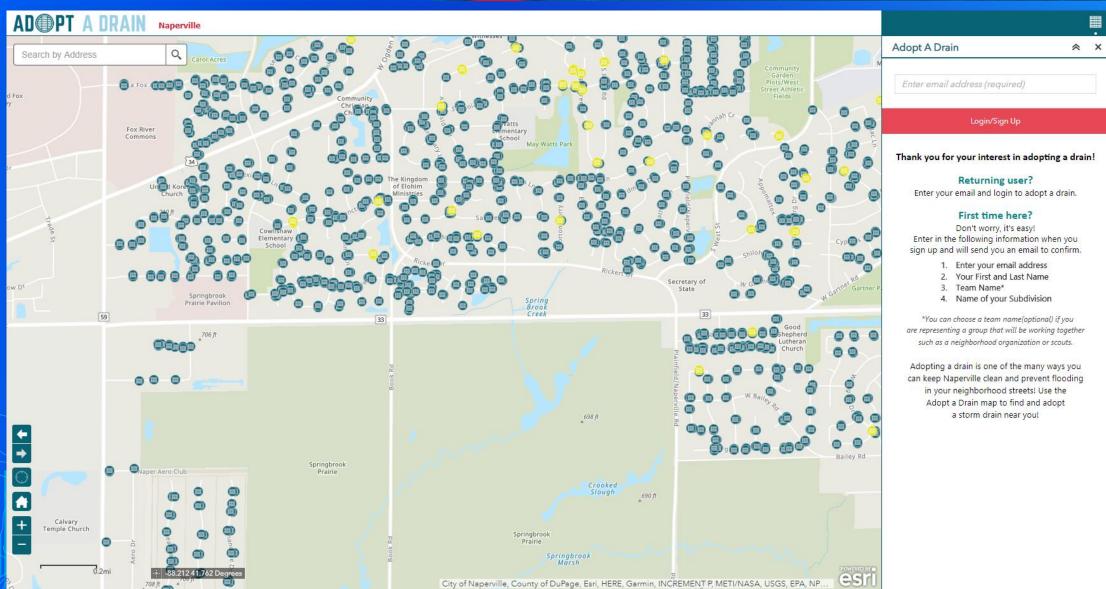
Centennial

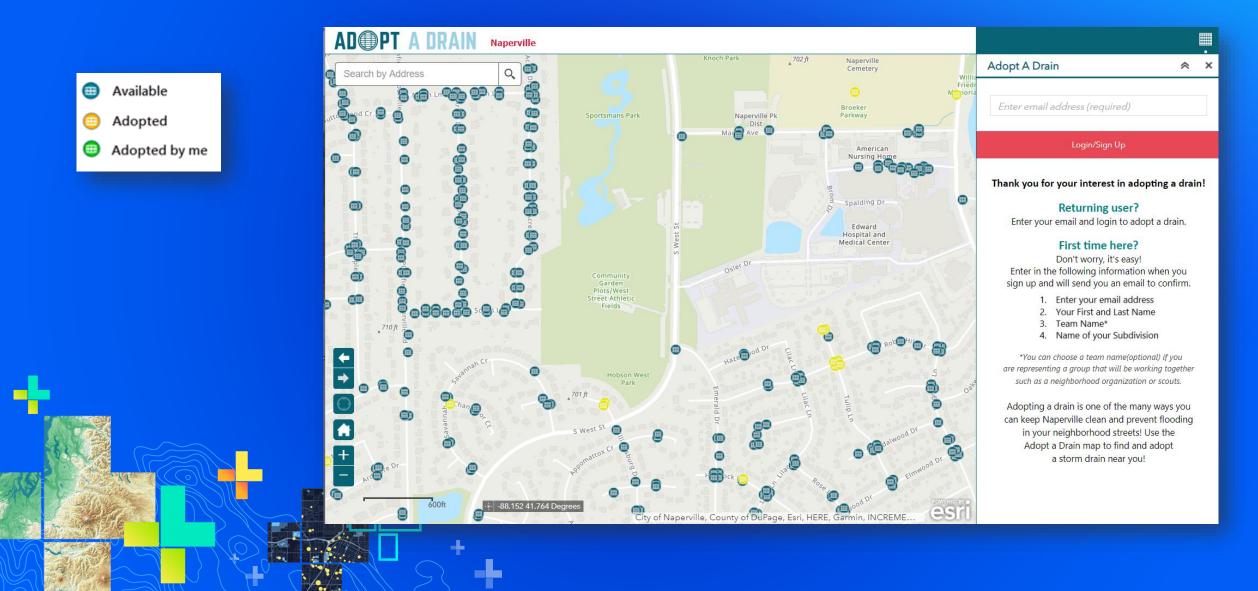
Beach

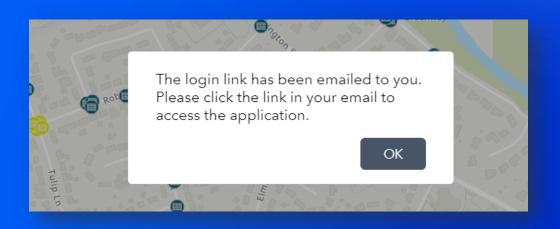
passes!

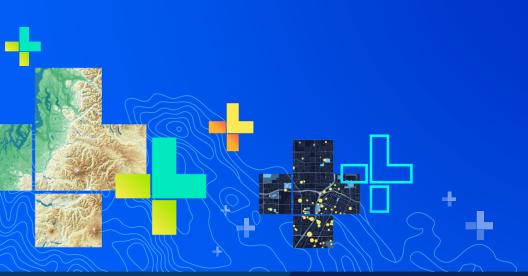


Adopta









Welcome to the City of Naperville Adopt a Drain Program, and thank you for participating!

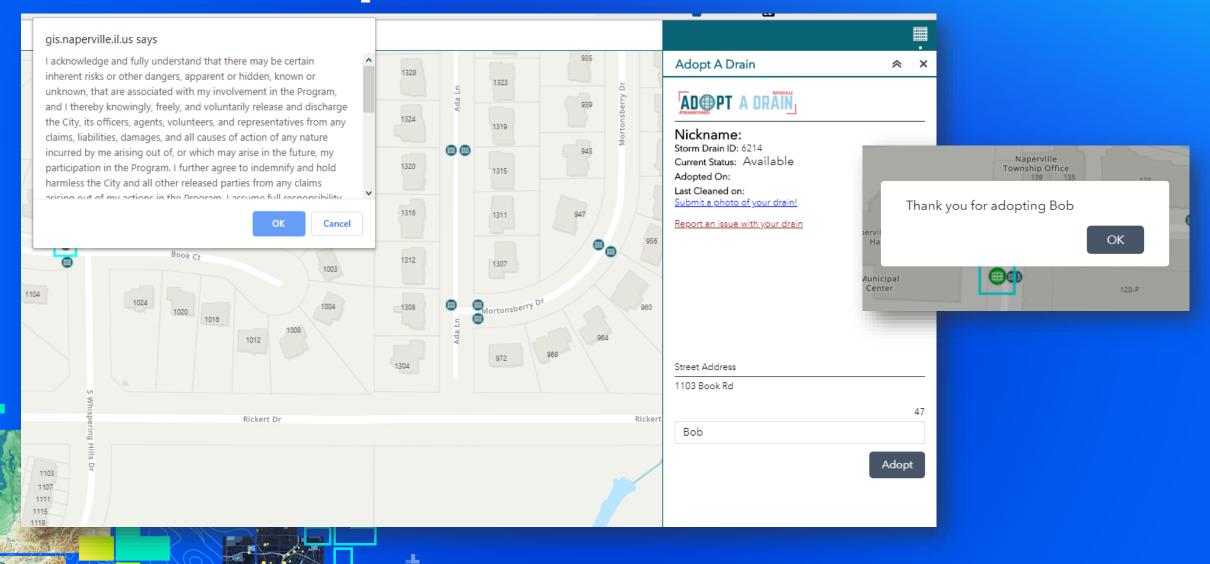


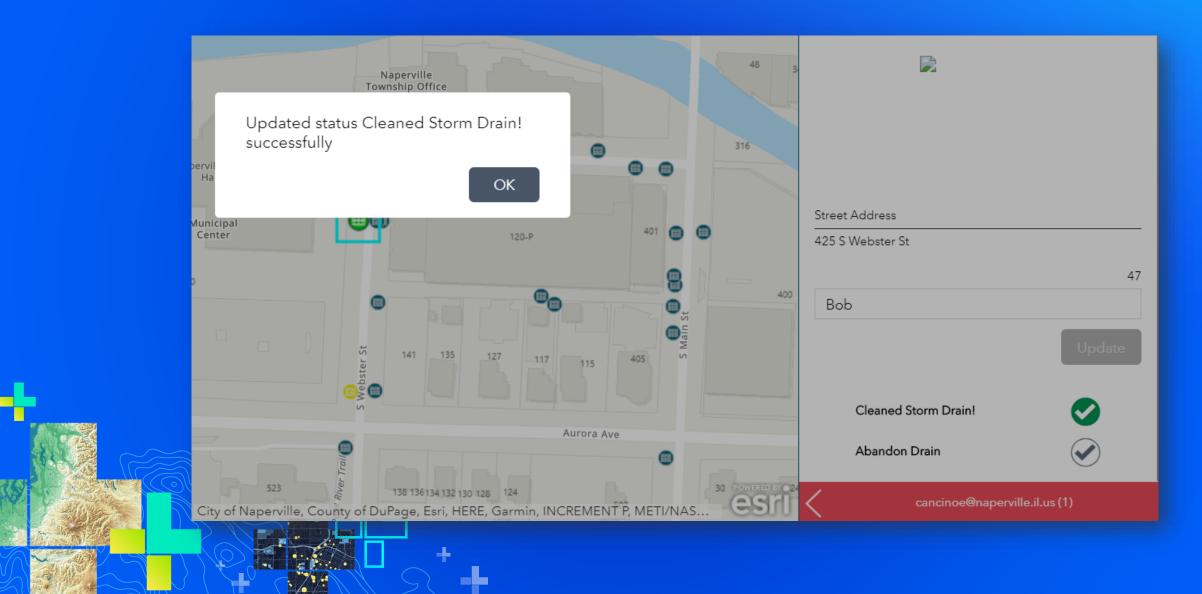
To participate, you must read the terms of the agreement, and complete and sign the accompanying liability waiver attached to the email received when the drain is adopted.

Adopt a Drain Waiver.pdf

- 1. Remove debris from grates The grates of the storm drains can become clogged with litter or leaves, especially in the spring and fall.
- 2. Ensure regular cleaning The area under the grate should be cleaned out if debris becomes lodged in the storm drains.
- Monitor your email we will send periodic weather updates and a way to update the status of your adopted storm drains.

Click this link to Login and use the app





Welcome back!



Please use the link below to Log back into the Adopt-a-Drain App

Launch the Adopt-a-Drain App

Storm Drains adopted by you:

You can update the status by clicking on the links below

No assets adopted yet

Use the Adopt-a-Drain App to submit a photo of your drain, report any issues and report the storm drain as having been cleaned.

If you decide you no longer want to participate in the program, simply sign in to the application and select "abandon drain."

Click here to learn more about the Adopt-A-Drain Program

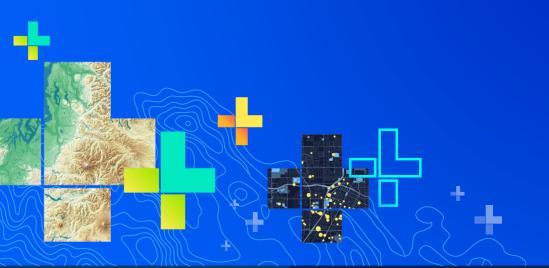
Contact us if you have any additional questions regarding the program



Configuring the App Going Hybrid



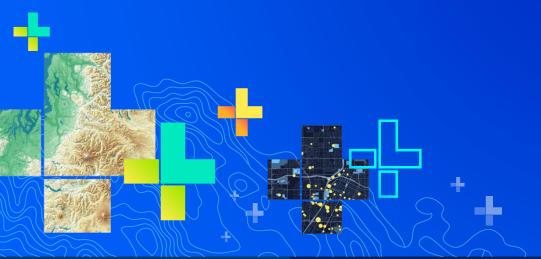
- The Adopt a Drain Web map is entirely Cloud-based
 - ArcGIS Server 10.5.1 in Azure
 - SQL Server 2014 Database in Azure



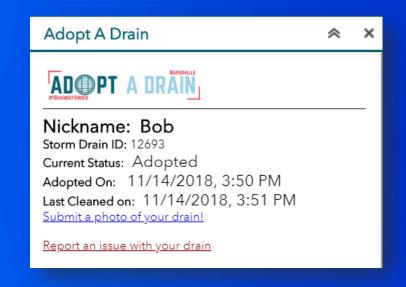
Configuring the App

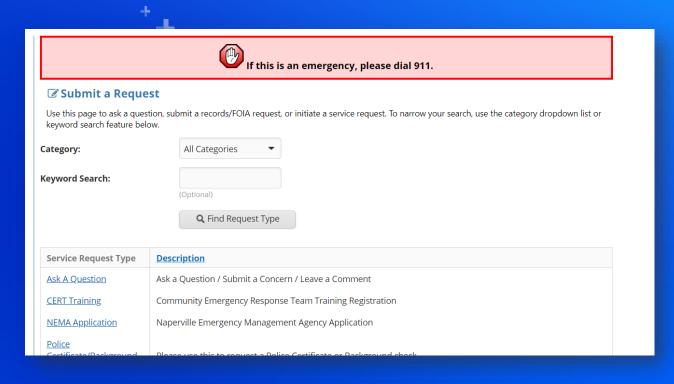
- Customizing the Pop-up
- Add a Waiver
- The Geoprocessing Tool



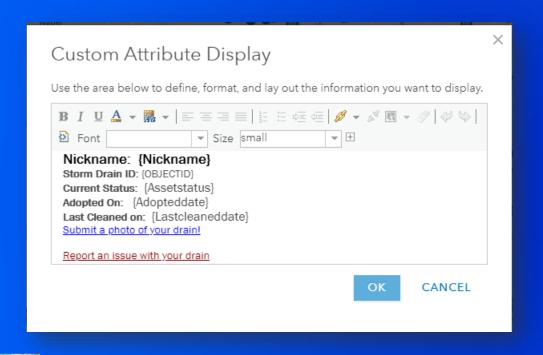


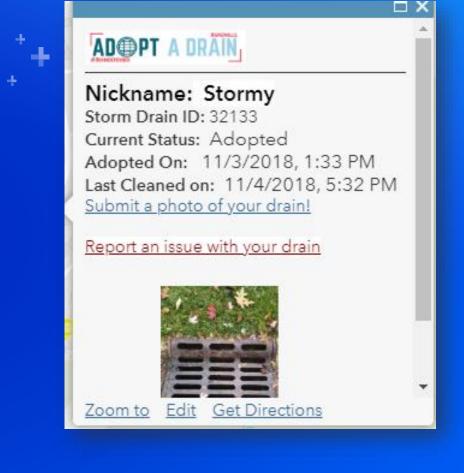
Configuring the App Customizing the Pop-up





Configuring the App Customizing the Pop-up





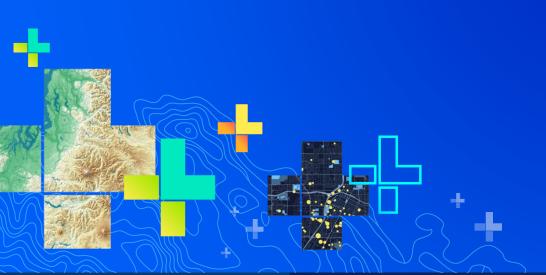
Configuring the App Customizing the Pop-up

•What didn't work:

- Enabling Photo Attachments
- AGO Supports Blobs as Links but not embedded images

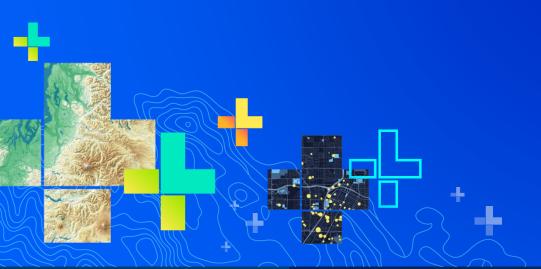
•This did work:

- Host Photos on AGO
- Embed Photo in a popup





Configuring the App Adding a Legal Waiver





WAIVER AND RELEASE OF CLAIMS FOR THE CITY OF NAPERVILLE

I, _______, the undersigned, in consideration for permission by the City of Naperville ("the City"), hereby agree to participate as a volunteer in the City's Adopt-A-Drain Program ("the Program"), and agree to the terms and conditions of this WAIVER and RELEASE.

I acknowledge and fully understand that there may be certain inherent risks or other dangers, apparent or hidden, known or unknown, that are associated with my involvement in the Program, and I thereby knowingly, freely, and voluntarily release and discharge the City, its officers, agents, volunteers, and representatives from any claims, liabilities, damages, and all causes of action of any nature incurred by me arising out of, or which may arise in the future, my participation in the Program. I further agree to indemnify and hold harmless the City and all other released parties from any claims arising out of my actions in the Program. I assume full responsibility for my actions as a participant in the Program in which the risk of personal injury, loss, death, or property damage may occur, whether through negligence or otherwise, and further agree not to intentionally damage, deface, or permanently alter any drain owned by the City.

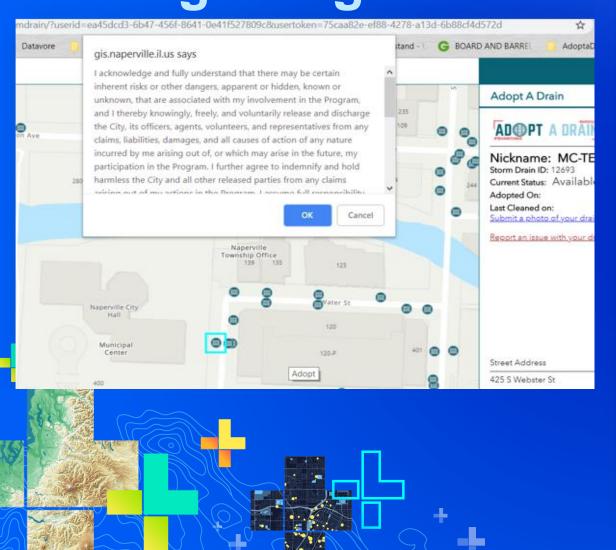
I understand and agree that by my participation in the Program, I am not entering into a contract for employment with the City and am acting completely voluntarily and am not entitled to payment for any services rendered. I further agree that the City and all other released parties may use my likeness or photograph and name in any manner relating to my participation in the Program free of charge and without further notice or consultation.

If the undersigned is under eighteen (18) years of age, then his or her parent or guardian must consent to participation and sign the WAIVER and RELEASE form.

I have read and fully understand the nature of this WAIVER and RELEASE.

Participant's Name (Print)	Organization
Home Address	Organization Address
City Zip Code	Organization Contact Person
Daytime Phone #	Contact Person Phone #
Evening Phone #	e-mail Address
Signature of Participant	Date
Signature of Parent/Guardian	Date

Configuring the App Adding a Legal Waiver



Add following to assetdetials.js ASSE

Assetdetails.js

```
/**
   * Function to adopt an selected asset
   * @param {object} current selected feature
   * @memberOf widgets/Adopta/AssetDetails
   */
   _adoptAsset: function (selectedFeature) {
```

if (confirm(") acknowledge and fully understand that there may be certain inherent risks or other dangers, apparent or hidden, known or unknown, that are associated with my involvement in the Program, and I thereby knowingly, freely, and voluntarily release and discharge the City, its officers, agents, volunteers, and representatives from any claims, liabilities, damages, and all causes of action of any nature incurred by me arising out of, or which may arise in the future, my participation in the Program. I further agree to indemnify and hold harmless the City and all other released parties from any claims arising out of my actions in the Program, I assume full responsibility for my actions as a participant in the Program in which the risk of personal injury, loss, death, or property damage may occur, whether through negligence or otherwise, and further agree not to intentionally damage, deface, or permanently alter any drain owned by the City. I understand and agree that by my participation in the Program, I am not entering into a contract for employment with the City and am acting completely voluntarily and am not entitled to payment for any services rendered. I further agree that the City and all other released parties may use my likeness or photograph and name in any manner relating to my participation in the Program free of charge and without further notice or consultation. If the undersigned is under eighteen (18) years of age, then his or her parent or guardian must consent to participation and agree to this WAIVER and RELEASE. I have read and fully understand the nature of this WAIVER and RELEASE.")) {

```
//Add users guid into asset to identify which asset belongs to user
selectedFeature.attributes[this.config.foreignKeyFieldForUserTable] = "{" + this.config
.userDetails[this.config.foreignKeyFieldForUserTable] + "}";
this.updateFieldsForAction(this.config.actions.assign.name, selectedFeature, true);
} else {
```

Lessons Learned

 Extending Configurable Templates



April 2019 Flood Event Naperville, Illinois

"These kids are VERY excited about cleaning drains."



Lessons Learned

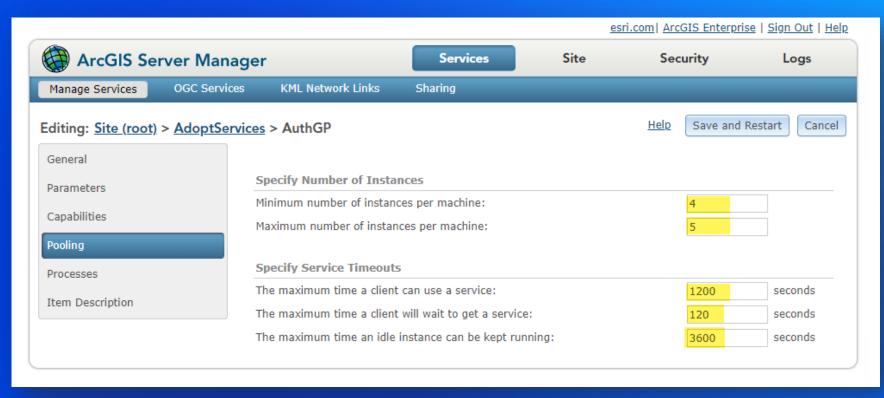
Utilizing ESRI Support

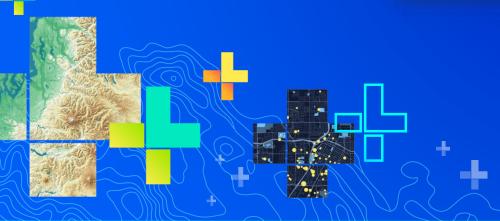




Lessons Learned

 App popularity and the geoprocessing service





Program Success

Total Number of Drains in City

57,160

City of Naperville

Subdivisions Participating

118

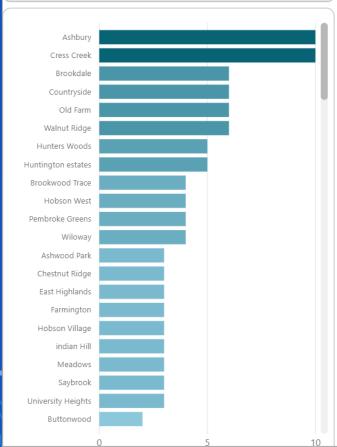
Drains Adopted

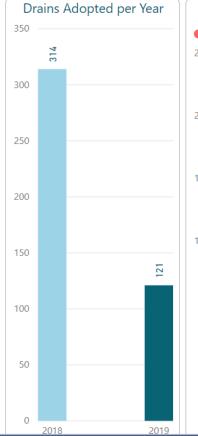
435

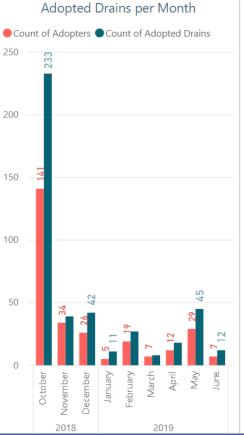
Number of Adopters

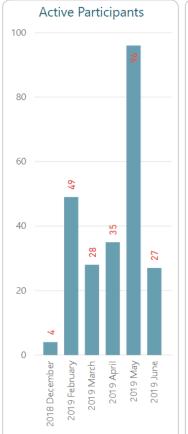
255













Important things to Consider





Keeping People Engaged

Easter Egg Hunt Contest!



Email from Resident:

Oh fun. Thanks. Kudos to whomever thought of this idea. For the first time in my life I noticed every drain I past by. They do need some TLC.

Thanks. Alex Zain

Gratitude

Appreciation





Funny Drain Names

- Bob Ross Happy Little Drain
- Come Drain or Come Shine
- Leaves have no Home Here
- Evil Clown's Lair
- Mulder
- Scully
- Wyched-ed Flow
- Pizza delivery for "122 1/8th"
- H2 ohhhhhh
- Pennywise's Domain

- The RV tank is full
- The Pitbull "Mr. Worldwide" Memorial Storm Drain
- The Cornell Pool (sometimes)
- Snakes on a Drain
- Leaves have no home here
- InsaneInTheMemDrain
- Grate Expectations
- Alexander the Grate

...and Phteven

Questions?

