# LOCAL GOVERNMENT SOLUTIONS SHOWCASE Rock Falls, Illinois







#### Rock Falls Water Department: From Paper to Digital

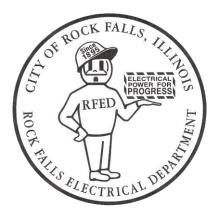
Matt Junker Cloudpoint Geographics

#### Rock Falls Water Department: From Paper to Digital

#### <u>Overview</u>

- History of GIS in Rock Falls
- City of Rock Falls Water Department
- Cross Connection Surveys: Data Collection Methods
- What is Survey123 for ArcGIS?
- A Tour of Survey123 for ArcGIS

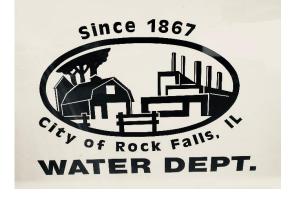
# History of Rock Falls GIS



- Rock Falls Electric + Cloudpoint in **2012**-CAD Conversion to GIS
- Growth from 1 PC/GDB to ArcGIS Server/SQL and ArcGIS Online
- Growth from Electric to Water/Sewer/Building & Zoning
- Share Utility Data with City Staff on Internal Map Viewer
- Mobile and Desktop GIS Deployment

### Rock Falls Water Department

• Employees are licensed IEPA Water Operators



- Provide Annual Water Quality Report to the Public
- Education Center
  - ✤ High Water Usage
  - Get to Know Your Water Meter
  - ✤ Water Conservation
  - Rusty Water

#### Awards Illinois Water Operator of Year: • Ted Padilla 2006-2007 • Tony Posi 2009-2010 Groundwater Guardian Award – 1997-2014 Fluoridation yearly award

# Rock Falls Water System

- ~68 Miles of Mains
- ~53 Miles of Service Lines
- ~430 Hydrants
- ~1250 System Valves
- ~4000 Meters

- 3 Production Wells
- 3 Iron Removal Tanks
- 2 Water Towers

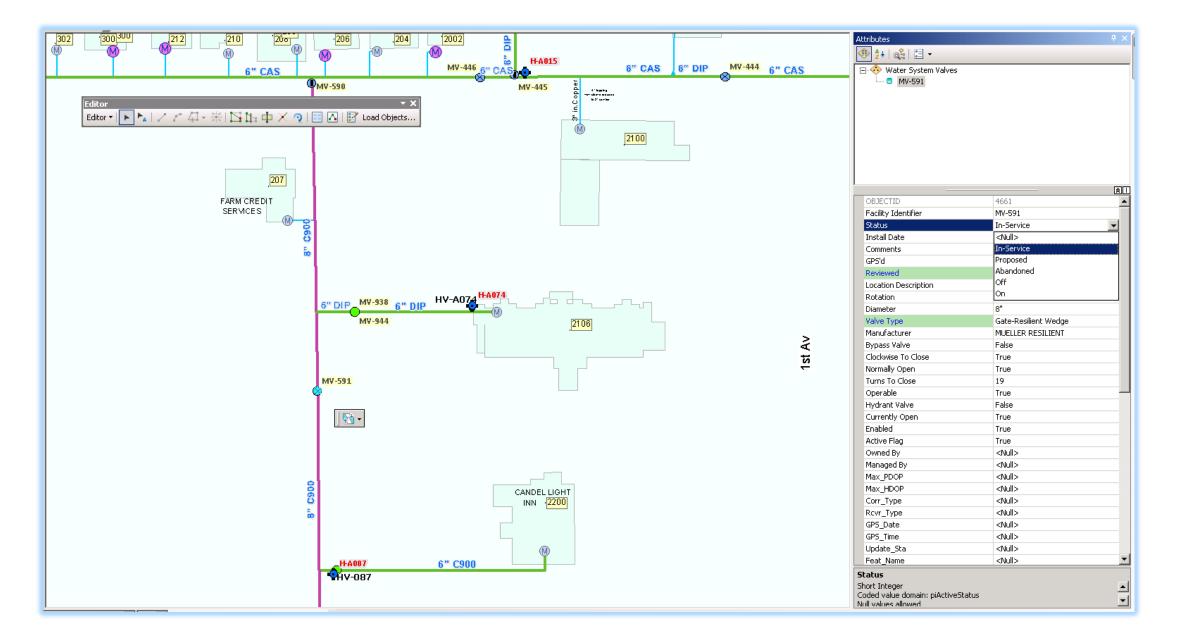


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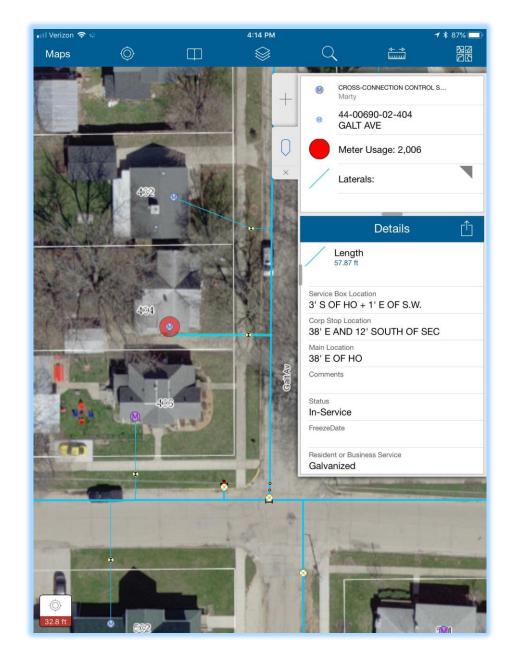




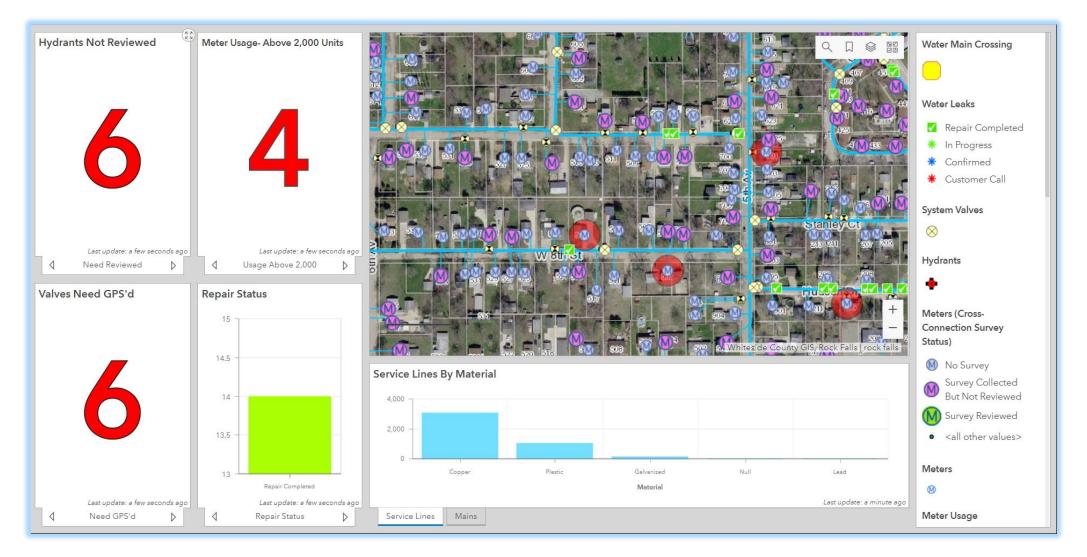
#### ArcGIS Desktop



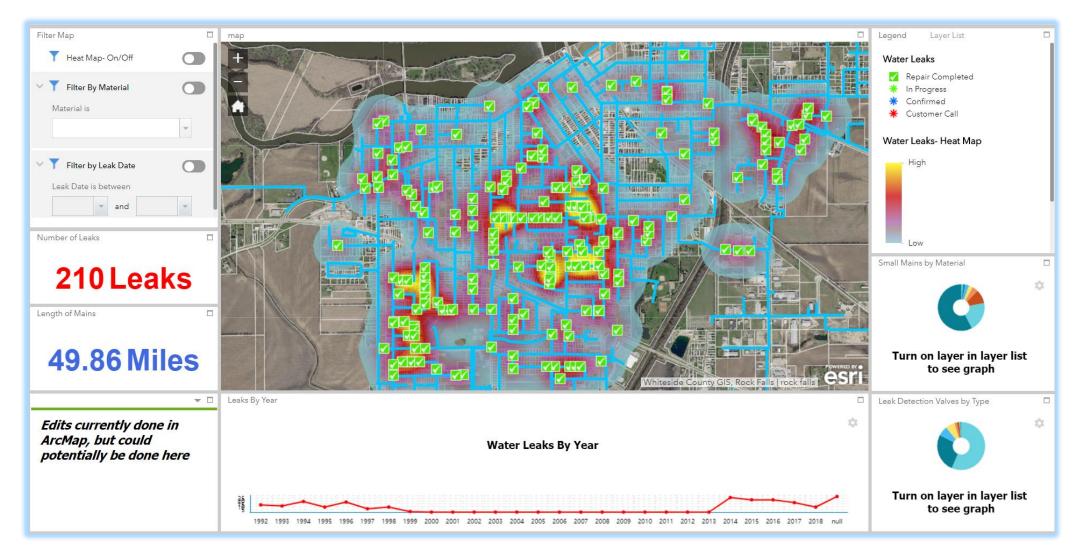
#### <u>Collector</u> for ArcGIS



# **Operations Dashboard**



# **Operations Dashboard**



# <u>Cross-Connection and Backflow</u>

- <u>Cross-Connection</u>: occurs when **potable** water lines connect to fixtures or equipment that carry a **non-potable** source
- <u>Backflow</u>: occurs when contaminants reverse flow into the potable water supply

# **Cross-Connection Control Program**

- Cross-Connection Control Ordinance
- Survey of Water Distribution System Service Connections
- ID At-Risk Service Connections
- Mitigation of Risks
- Documentation

### Old Method of Survey Collection

- Surveys Mailed/Door-to-Door Collection
- Individually Scanned to PDF
- Added PDF Attachments to GIS Layer



#### Paper Forms

	CROSS-CONNECTION CONTROL SURVEY
	The solutions is the to us used by water department personnel and/or by sustainers of the
	the survey conducted: 4/17/17
	Address: 1007 10 <sup>44</sup> AUE
	Address: Address:
GU	57. Namber 7-01220
	Residentials (Check all that apply)
	Kirchen: Sink Faucet 📈 Sink Faucet w/Sprayer Ice Maker Garbage Disposal
	Other Other
	Comments
	Bath: Lavatory X Toilet X Bathtub Hot Tub Bidet
	Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:Other:_
	Соллания
	the bar bar bar How Many Boilers?
	Exterior. Ontside faucets X How Many? Non-Freezing Type: How Many?
	Lawn Irrigation System (Portable) // Lawn Irrigation System (Permanent)
	Lawn Fertilizer System N Portable High-Pressure Washer N Private Wells(s) N
	Is/Are private well(s) physically connected to the water system? Yes No
	Other COPPEN
	Other: NO SUMP JUMP
	Orlin: NO SUMP JUMP
	Comments:
	Contraction
	(Please complete other side, if applicable.)
	A reade comprise series and is appressed

#### Paper Forms

#### City of Rock Falls Water Department

8-00400

#### **Residential Cross Connection Control Survey**

In order to protect the City of Rock Falls water system and water users, we are conducting a survey to determine if there are any hazardous conditions that could affect our drinking water.

We appreciate you taking the time to complete the survey.

If you have any questions regarding this survey contact Ted Padilla at the Rock Falls Water Department, phone number is 815-622-1120.

\*Do you have any other water source of water, such as a private well, pond, lake, tank or reclaimed water that is connected to the public water supply?

Хпо

ves

\*Are there any backflow prevention devices installed on the premises?

This does not include devices installed on the City water meter or outside/garden hose.  $\bigwedge$  no

\*If so, has the device been tested? (If yes, please provide a copy of the test result to one of the following: e-mail: <u>tpadilla@rockfalis61071.com</u>, or fax to 815-622-1113.

\_\_yes \_\_no NA

\*Do you have a permanent in-ground lawn irrigation system installed on the property?

This does not include lawn water devices attached to a garden hose:

\_\_\_yes

\*Is there a swimming pool or hot tub on the property?

If yes is the pool filled permanently connected to the water system?:

\ no ves

\*Is your building heated by a boiler?:

ND

1 no

/ no

Do you operate a business out of your home? Лпо ves If yes, type of business

The Illinois Department of Public Health Plumbing Code requires vacuum breakers to be attached to all outdoor faucets. These devices protect the plumbing system from being contaminated by any substance which might enter the water hose (lawn fertilizer, herbicide, soap, etc.) Hose vacuum breakers are available at most hardware stores or through your local plumber contractor.

The information provided in this survey form is an accurate and current description of the water at this address. Please write your name below as confirmation of the person completing the survey.

Name: 1015 11th Ave RF Address 6-19-16 Date

\*\*\*\*\*\*\*\*For Commercial or Residential information

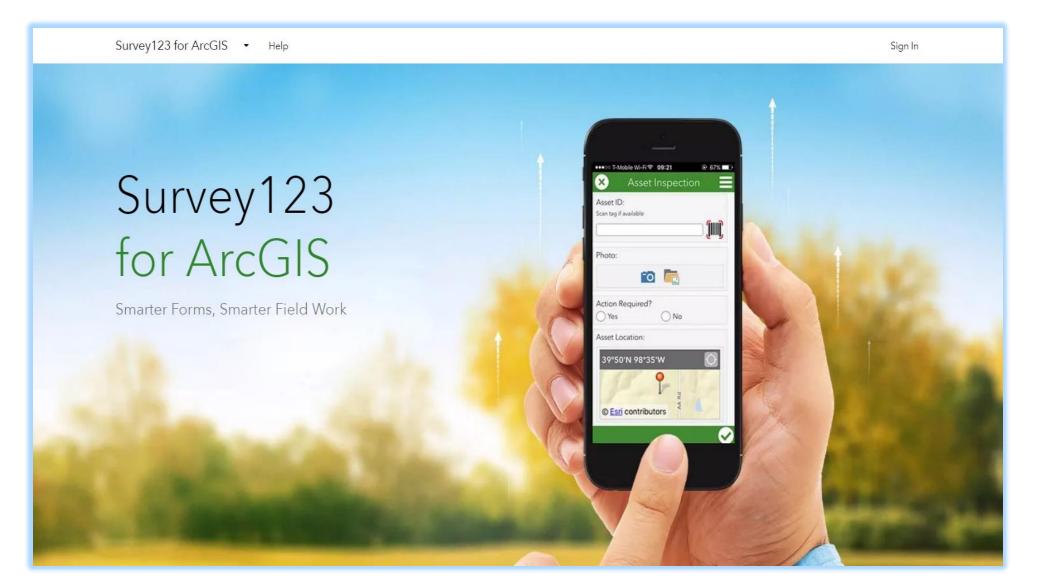
What type of pipe material is before the water meter?

(Circle one) Lead copper plastic

galvanized pipe

If you have any questions or concerns please contact the City to identify the material.

#### Survey123 for ArcGIS



### Survey123 for ArcGIS

#### Create A Survey

Survey123 Connect

-desktop app

-advanced/complex

#### **Collect Information**

Survey123 Mobile App

survey123.arcgis.com Web App

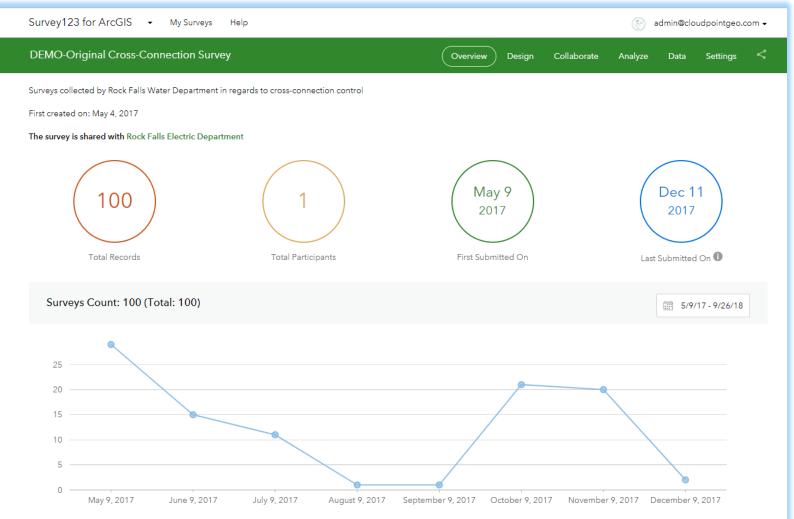
Survey123 Web Designer

- website
- simple/quick

#### <u>Survey123 Website</u> survey123.arcgis.com

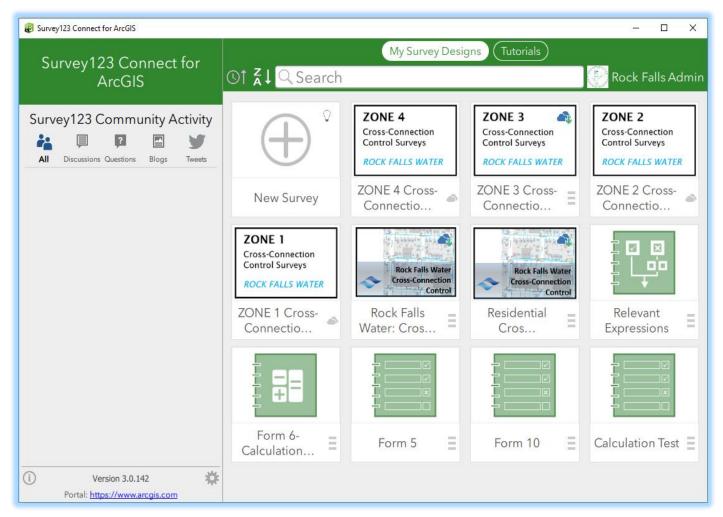
- Design
- Collaborate

• Analyze

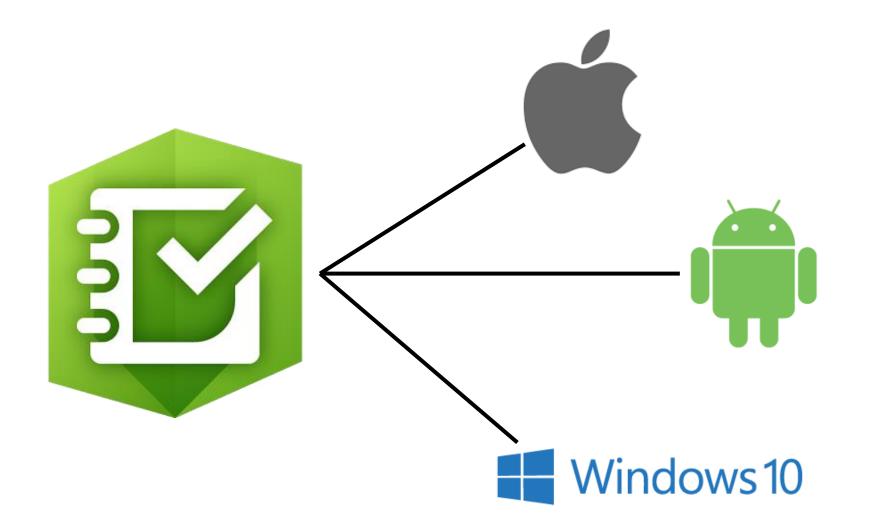


# Survey123 Connect

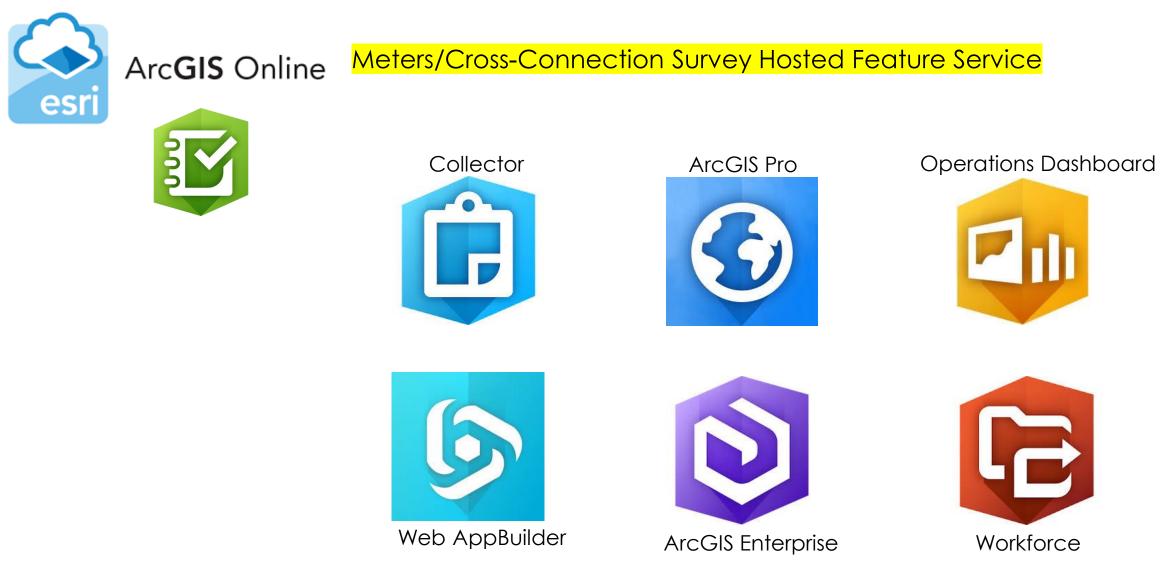
- Uses XLS Form
  spreadsheets to author
  surveys
  - Templates-(Basic or Advanced)
  - Samples
  - Community
  - Feature Services
  - Your Existing Surveys



#### Survey123 Mobile App



#### Survey123 and the ArcGIS Platform

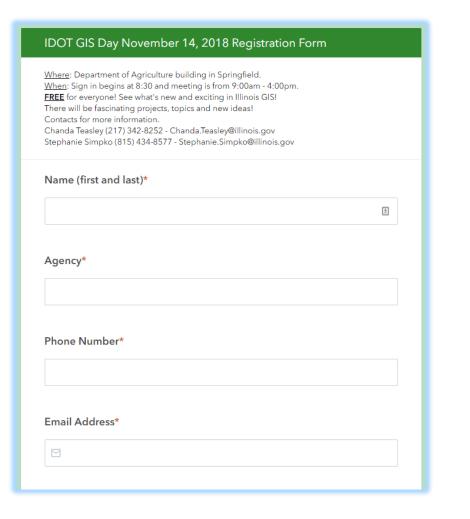


# Applications of Survey123

- CSO Notification
- Damage Assessment
- Manhole Inspection
- Mosquito Spray Notification
- Opioid Awareness Reporting
- Pothole Hazard Report
- Property Tax Assessment Appeal
- Residential Septic Tank Inspection

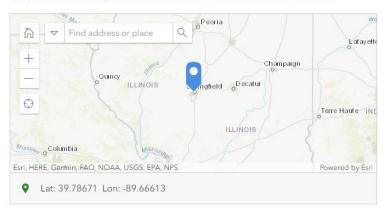
- Restaurant Inspection
- Roadkill Report
- ROW Permit
- Transmission Tower Inspection
- Tree Inventory
- Water Quality Survey
- Water Violation Report

#### Registration Form Authored in Survey123



#### Where are you from?\*

Using the map, pinpoint your location so we can see where our attendees are from.



#### How will you be attending the conference?\*

(More information will be sent out about how to video conference)

In Person	Video Conference			
Are you a presenter?*				
• Yes	O No			
Would you like to be contacted about becoming a presenter?*				
• Yes	O No			
	Click here to submit REGISTRATION			

#### Mobile Apps-Which to Use?



Survey123



VS.

Collector

### Survey123 Demos

- 1. Survey123 website
- 2. Survey123 Connect App
  - ✤ XLS Form
  - ✤ Settings
  - ✤ Tutorials
- 3. Survey123 Mobile App

# Benefits of Data Collection with Survey123

#### • Go Digital

- Increase Efficiency
- Environmentally Friendly
- Extend the use of GIS
  - Integrate with other Mobile Apps
  - Data shared throughout the ArcGIS Organization

#### Survey123-Additional Resources

• Get Started with Survey123 for ArcGIS

\$learn.arcgis.com/en/projects/get-started-with-survey123

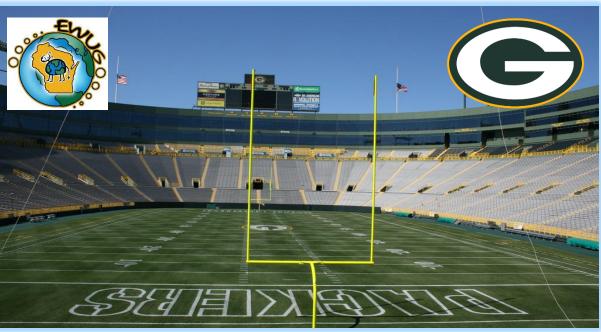
• GeoNet Survey123 for ArcGIS Group

\$community.esri.com/groups/survey123

• Survey123 for ArcGIS on Twitter

✤@esriSurvey123

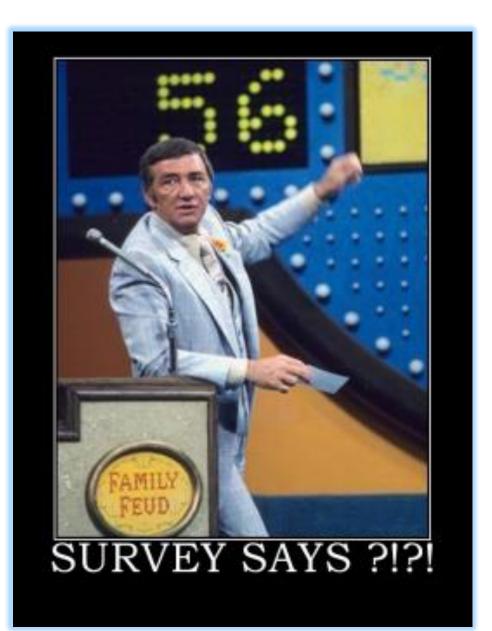






# Survey Says...

# **ROCK FALLS!**



# <u>Questions?</u>

Matt Junker Cloudpoint Geographics mjunker@cloudpointgeo.com





