Benefits of Enterprise GIS
A Look at San Antonio Water System

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ESRI User Conference
July 10, 2018
Who we are

- San Antonio Water System, the nation's 6th largest water utility
- GIS supports about 1,500 users
- We are an ArcGIS Enterprise environment
- Majority of users access GIS information through web browsers
SAWS GIS Enterprise Benefits

- Saves money
- Less people power
- Self service
- Interaction of different systems
- Access to all types of business information
SAWS GIS Architecture Overview (how it was)

- ArcServer
- Versioned editing environment (MSSQL)
- FME desktop
- ArcMap (Basic, Standard and Advanced)
SAWS GIS Data

- House spatial data in a read only location
- Spatial Views created linking Infor PS, Data Warehouse and other data sources to GIS to view and make business decisions
- GIS editors changes are in versions, that are posted and replicated everyday.
- ArcServer used for publishing and creating data
- Data is created through GIS web applications that is consumed by Infor PS (service requests, auto dial, work orders)
- Data replication through web service to other agencies
SAWS GIS Migration from 10.2.2 to 10.5.1 Overview

• Standup 10.5.1
• Create replicates from 10.2.2 to 10.5.1
• Standup web services and web applications
• Move users
• Reverse replicates from 10.5.1 to 10.2.2
SAWS GIS Architecture Overview Today

- ArcServer
- Portal
- AGOL
- Versioned editing environment (MSSQL)
- FME Server and desktop
- ArcMap (Basic, Standard and Advanced)
- Insights – in progress
- Workflow Manager – in progress
Benefits of new SAWS GIS architecture

• Allow other advanced GIS users to do what they want
• Web app builder allows GIS Analyst to build applications without need for programming background
• More cost effective (less licenses in use – server and desktop)
• Access to more ESRI technology to improve GIS
How SAWS GIS is used today

• Mobile data collection in the field (manhole inspections)
• Scheduling for cleaning of sewer mains
• Drone surveying of assets (drone2map)
• Locate assets for digging (locates.saws.org) -- ~20,000 request this past year
• Sewer improvement projects for public view (sewer.saws.org)
• EOC water outage
• Webmap services for Tableau
• Open records request (asbuilt)
Improving our sewer system

70 Sewer Projects

Sanitary Sewer Overflow Reduction

SAWS is working across San Antonio to reduce overflows.

See the Map
C13 Package B Broadway Corridor: South Alamo to Elm St.

PROJECT ID: Pro-10085

DESCRIPTION:
This project involves rehabilitation of 1.41 miles of sewer pipe and related infrastructure. The project parallels Broadway Street between South Alamo at 133/137 Overpass and Elm St. at McCullough Ave. This project is necessary to rehabilitate sewer infrastructure due to condition and was prioritized as part of the EPA Consent Decree.

ESTIMATED CONSTRUCTION TIMEFRAME:
September 2017 - December 2018

BUDGET: $15,761,301

CONTACT: SAN ANTONIO WATER SYSTEM
T: 210-331-2274
SAWS Locate Request

This allows you to create locate requests and download block map documents for San Antonio Water System.

Click "New Locate Request" to start, or "Get Blockmaps Only" if you would only like to download blockmap documents.

* Note: "Get Blockmaps Only" is not a substitute for a physical locate.

New Locate Request  Get Blockmaps Only
SAWS Locate Request

Enter an address and click "Continue", do not include city or zip codes, e.g. 300 Broadway.

You can also enter intersections with "&" or "and" between the street names, e.g. Broadway and Mulberry, Broadway & Mulberry.

Address: *
100 Broadway

Continue  Previous
SAWS Locate Request

Draw on the map where you will be excavating. The perimeter must not exceed 2000 linear feet. If the area is larger please submit multiple locate requests.

Click the map to start drawing the area. Click for each vertex and double click to close the polygon. To redraw, select the tool below to try again. Click Continue when ready.

 Geometry captured.

Continue  Previous  Cancel

SAWS Locate Request
Warning: There are 1 large diameter main within 100 feet of the selected area. Please refer to the blockmaps for the location of these mains.
SAWS Locate Request

Enter your contact information, a description of the work being done and attach any relevant files. Click "Continue" when ready.

Name: *

Email: *
  ikelley@sawc.org

Phone: *
  210-000-0000

Company Name:

Company Address:

Description: *

SAWS Locate Request
Questions?
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