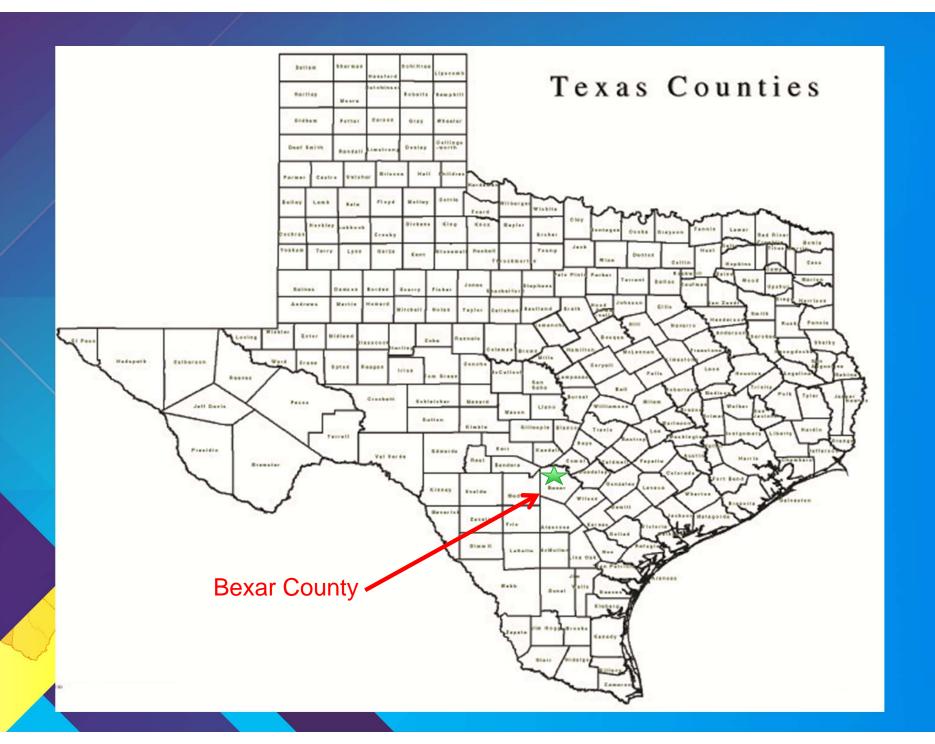
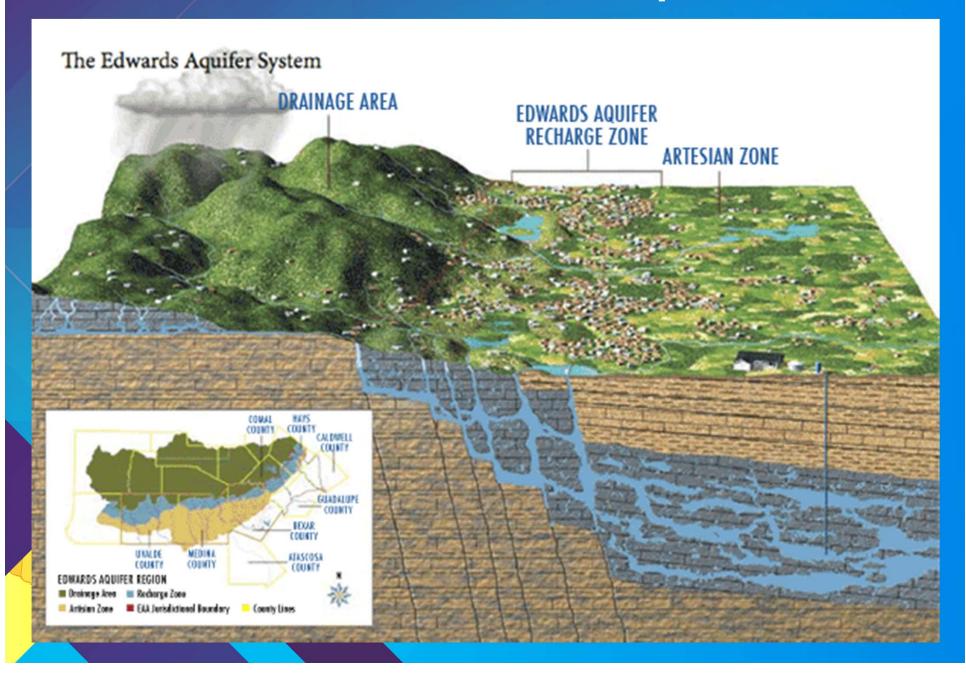


Michael A. Garza, GISP



EDWARDS AQUIFER RECHARGE ZONES Contributing Zone Recharge Zone **GUADALUPE** Transition Zone **BEXAR** WILSON

What is the Edwards Aquifer?



The Edwards Aquifer is the primary water source for a growing population of more than 1.7 million people.

Typical Cross-Section of the Edwards Aquifer **Drainage Area** Recharge Zone **Artesian Zone** Edwards water water table spring table aquifer artesian spring artesian well land surface relatively impermeable younger formations **Edwards limestones** Edwards relatively impermable artesian aquifer Balcones older formations Fault Zone

DEMOGRAPHICS

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DEMOGRAPHICS

San Antonio, the seventh largest municipality in the U.S., grew by 6.6% between 2010 and 2015, and is projected to grow an additional 6.34% through the year 2020. The city's metropolitan area grew by 9.05% between 2010 and 2015, and is projected to grow an additional 7.64% through the year 2020.

San Antonio, the largest city in Bexar County, encompasses a total geographic area of 467 square miles with a population density of 3,393 persons per square mile. The total land area for Bexar County is 1,247 square miles with a population density of 1,383 persons per square mile.

Source: 2014 U.S. Census Bureau

Population and Projections

Area	2010 Census	Est. Pop. 2014	Projected Growth 2015-2020
San Antonio	1,327,407	1,416,291	6.34%
Bexar County	1,714,773	1,861,562	7.40%
Metro Area	2,142,508	2,336,330	7.64%
Source: Claritas			

CONTACT US

602 E. Commerce St. San Antonio, Texas 78205 210.226.1394 Toll Free 1.866.949.0357

edf@sanantonioedf.com Community Partners & Information

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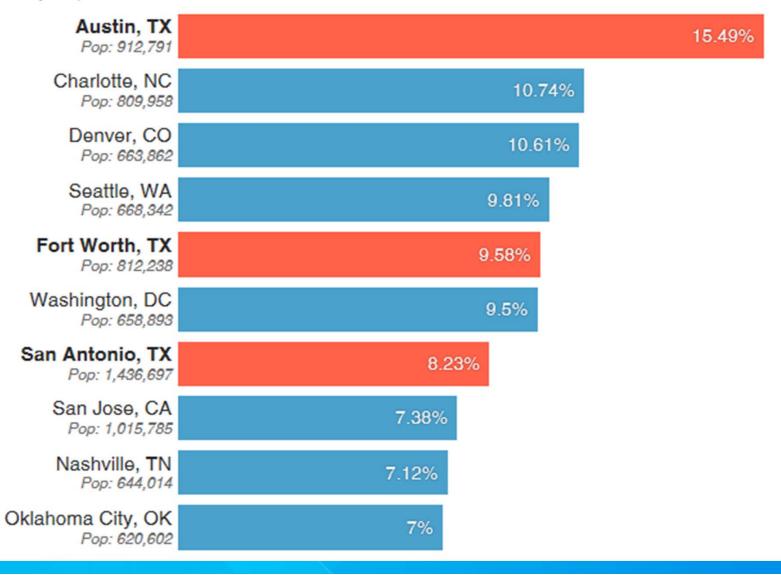






Ten Fastest-Growing Cities in the U.S.

Between 2010 and 2014, three Texas cities were among the 10 fastest-growing cities in the U.S. for cities with a population larger than 500,000. Austin, the nation's fastest-growing big city, grew by nearly 16 percent.





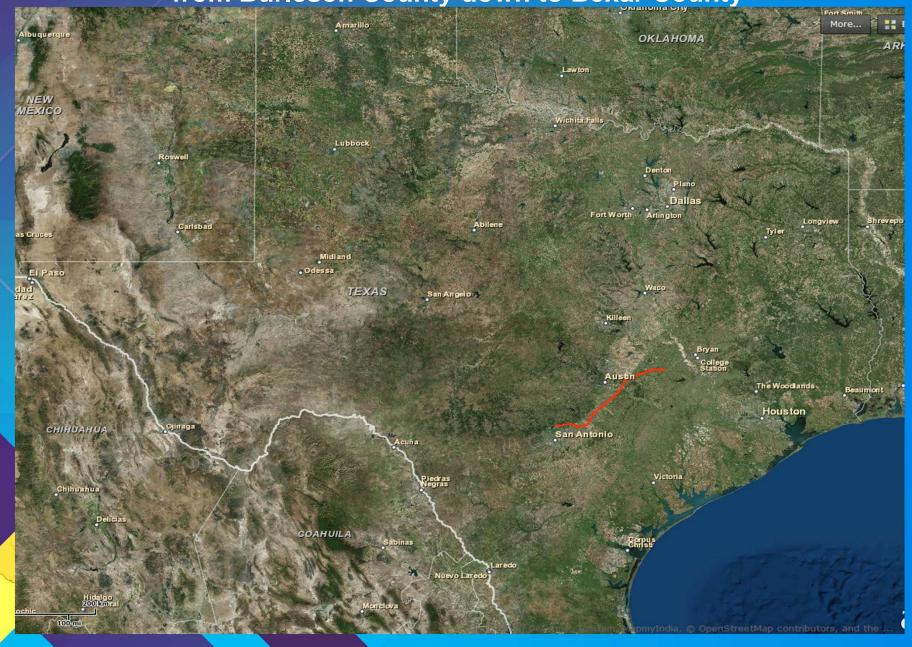
Next City members make our features possible. Donate today.

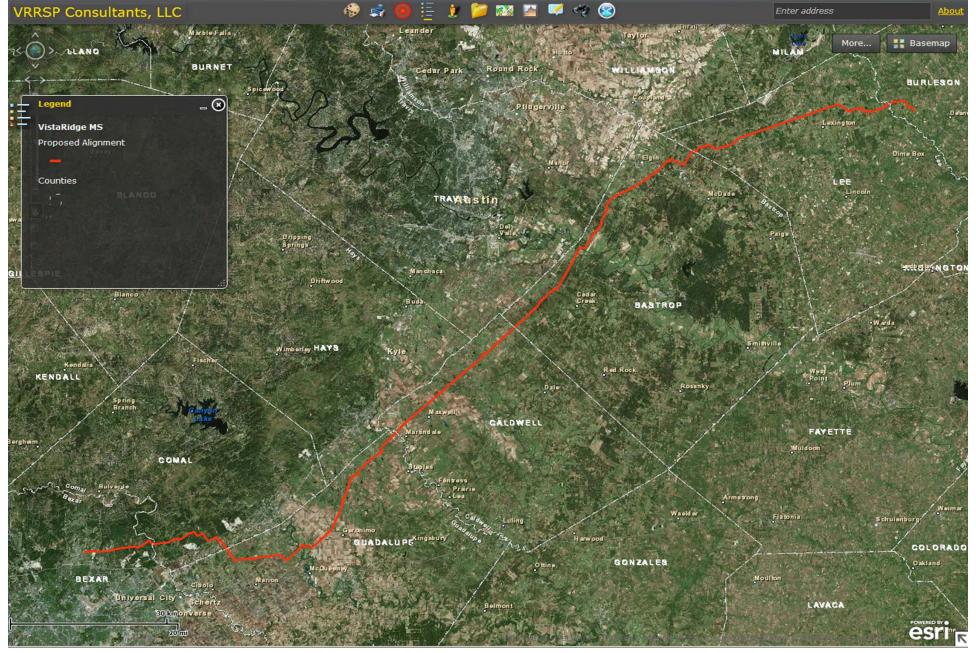
Hot, Crowded and Smart

San Antonio Is Growing and the Water Supply Is Diminishing. What's the Strategy?

Source: nextcity.org

The solution is to design a waterline to bring water from Burleson County down to Bexar County





Who are the Players that are involved in this Project?

Financial Investors



Geo-Technical Engineers



Engineers



Environmentalist





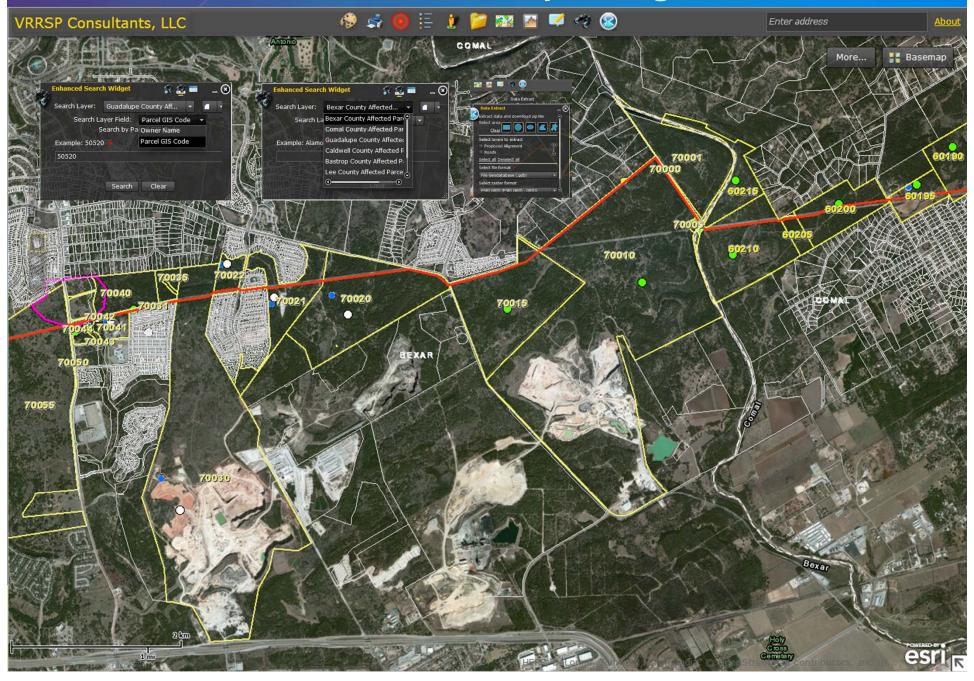
Surveyors

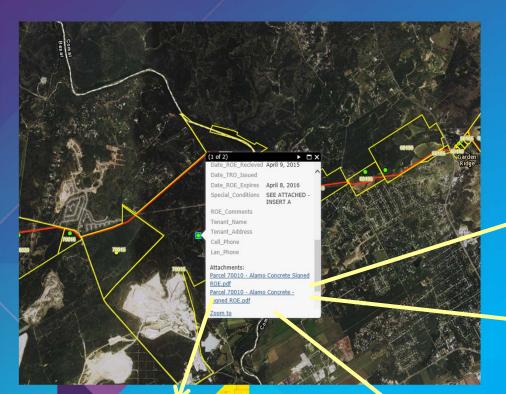


Land Acquisition Group (ROE's, Appraisals, Easements, & Title Tracking)



Flex site with multiple widgets





Signed PDF

Parcel: 999807 Vista Ridge Pipeline Project

RIGHT OF ENTRY AGREEMENT

NCB 34960 BLK 1 LOT 1*SEE LAND DETAILS FOR LEGAL BREAKDOWN* NCB 34914, NCB 34915, NCB 34959 & NCB 34962

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

Grantee and its contractors and assigns shall have twelve (12) months from the date of this Agreement to enter upon the above described Property, to conduct investigations, including without limitation, soil tests (including borings as necessary), toopgraphical and boundary surveys, engineering studies, planning feasibility studies, ancheological and environmental inspections (including shoved tests and backhot trenching, as necessary), as tudy of driningae and access, appraisals, and all such other investigations and surveys (collectively "investigations") as Grantee may require to determine the suitability of the Property for Grantee's intended use. Grantee, in the conduct of its investigations, shall not unreasonably interfere with any existing operations on Property, and Owner half not currency hold for trench resulting from Grantee's Investigations as soone as a reasonably practicable after completing its investigations as

Grantee shall provide reasonable notice to OWNER of the dates and anticipated durations

This Agreement shall be construed and enforced in accordance with the laws of the State

OWNER: ALAMO CONCRETE PRODUCTS LTD GRANTEE: Central Texas Regional Water Supply Corporation

Print Name: Michael Irlbeck Title: President

Date: 4/15/2015

Reports

LOG OF BORING NO. B-70021-01 VISTA RIDGE REGIONAL SUPPLY PROJECT TEXAS DRILLING METHOD: Straight Flight Auger & NX Coring SHEAR STRENGTH, TONS/FT2 DESCRIPTION OF MATERIAL SURFACE ELEVATION: 944 ft CLAY, Gravelly, Tan, with calcareous LIMESTONE, Tan - soft from 1 ft to 3 ft - hard from 3 ft to 25 ft REC = 85% RQD = 37% - with vertical fractures from 10 ft to 25 ft

Core Samples

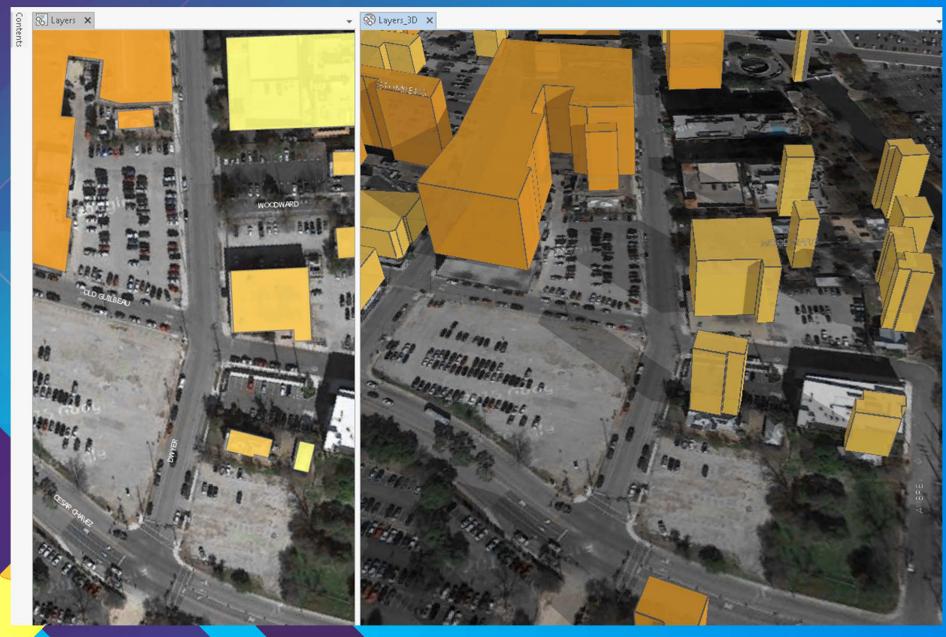


Depth (ft)	Recovery (%)	RQD (%)
1.7 to 6	83	8
6 to 11	85	37

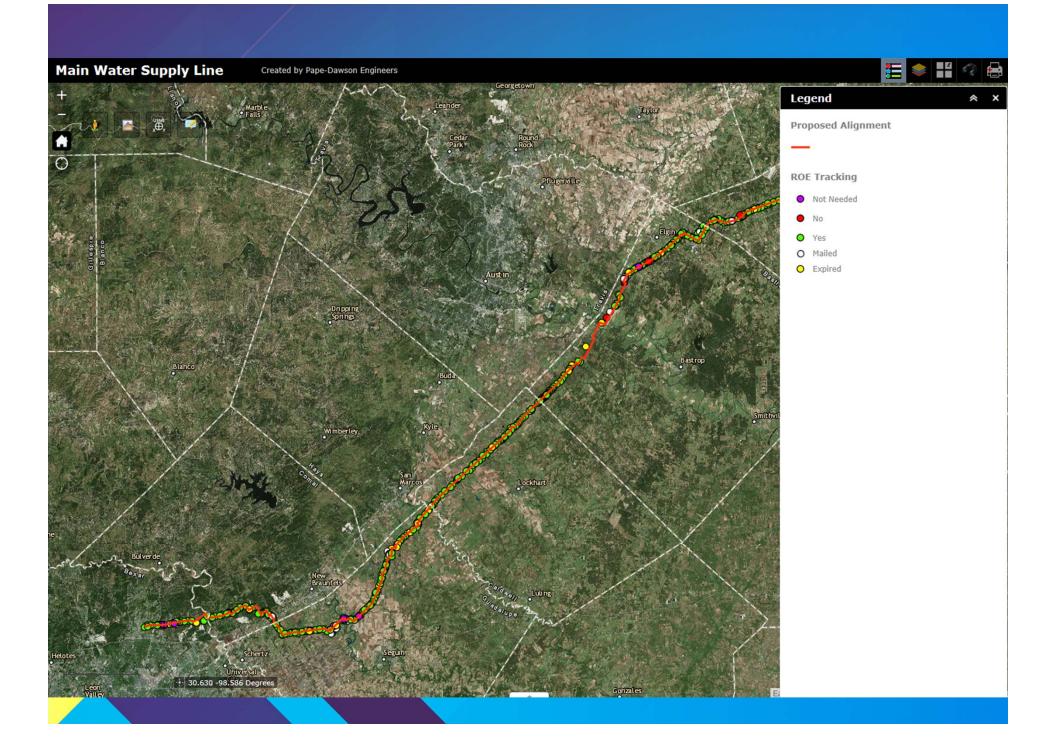


Images

2-D <u>3-D</u>

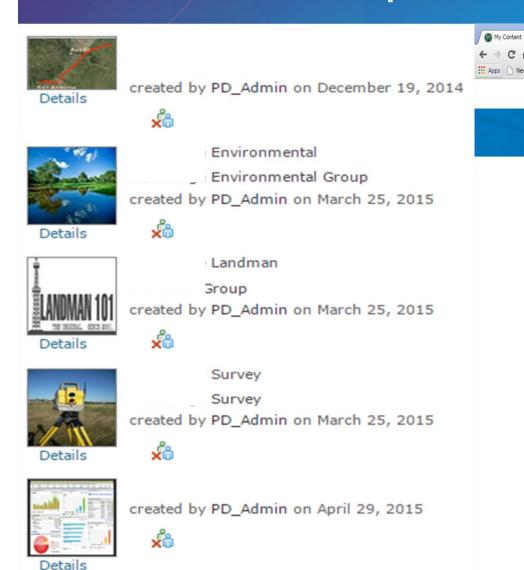


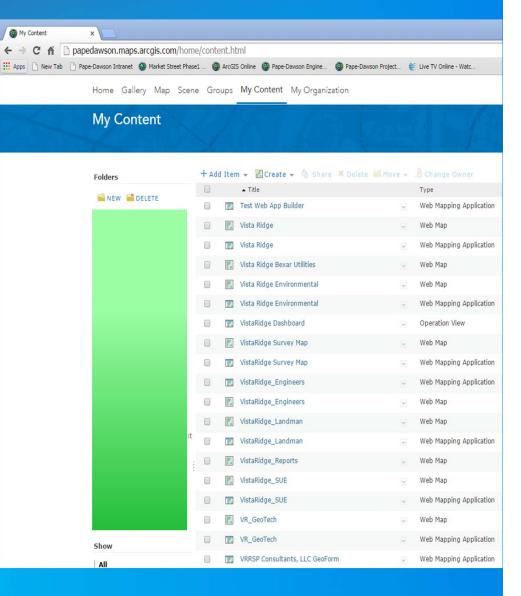




ArcGIS Online Groups

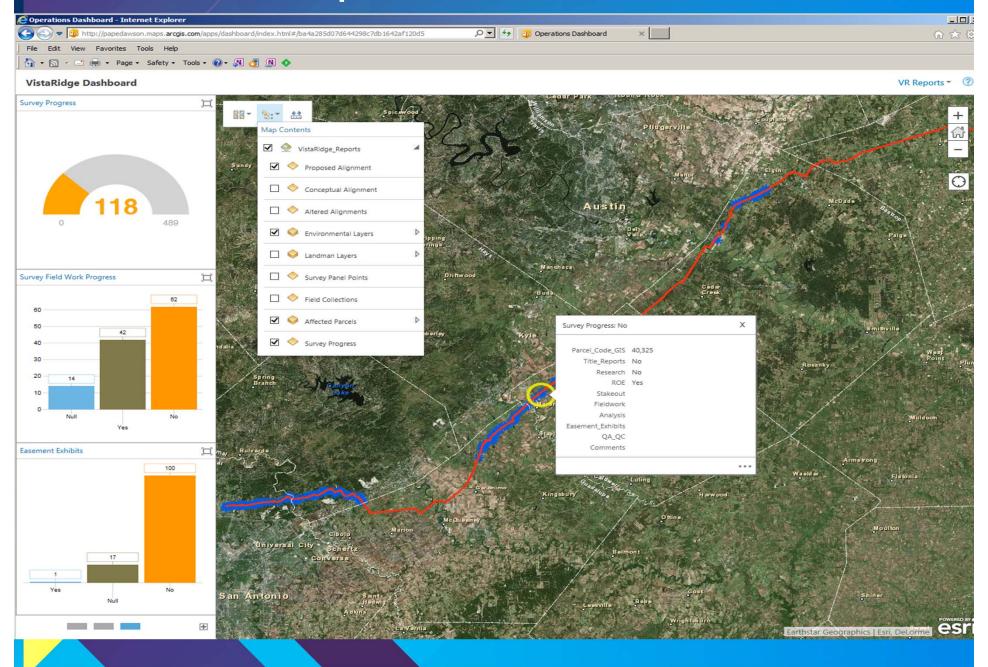
ArcGIS Online Maps



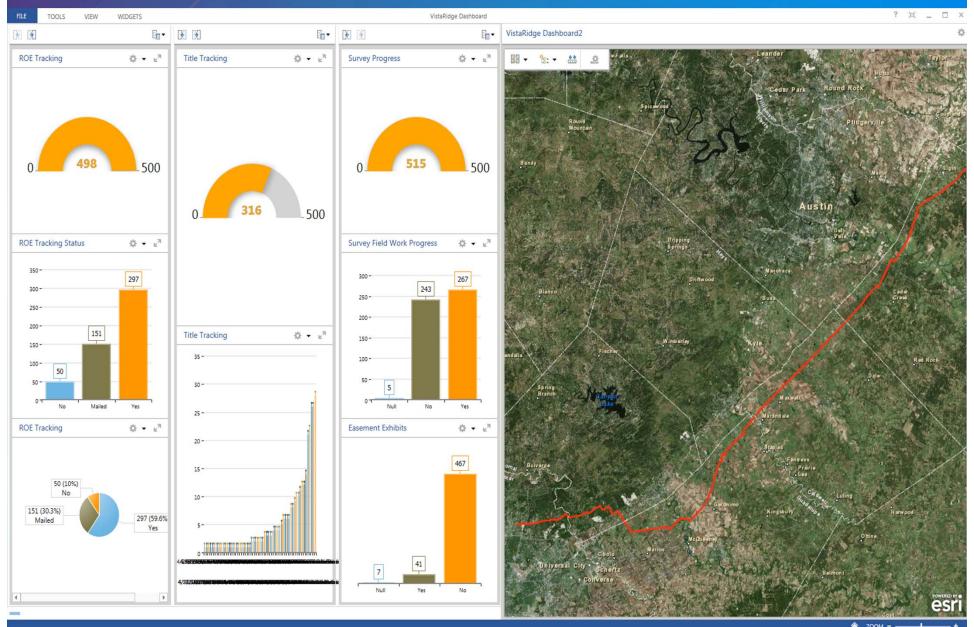




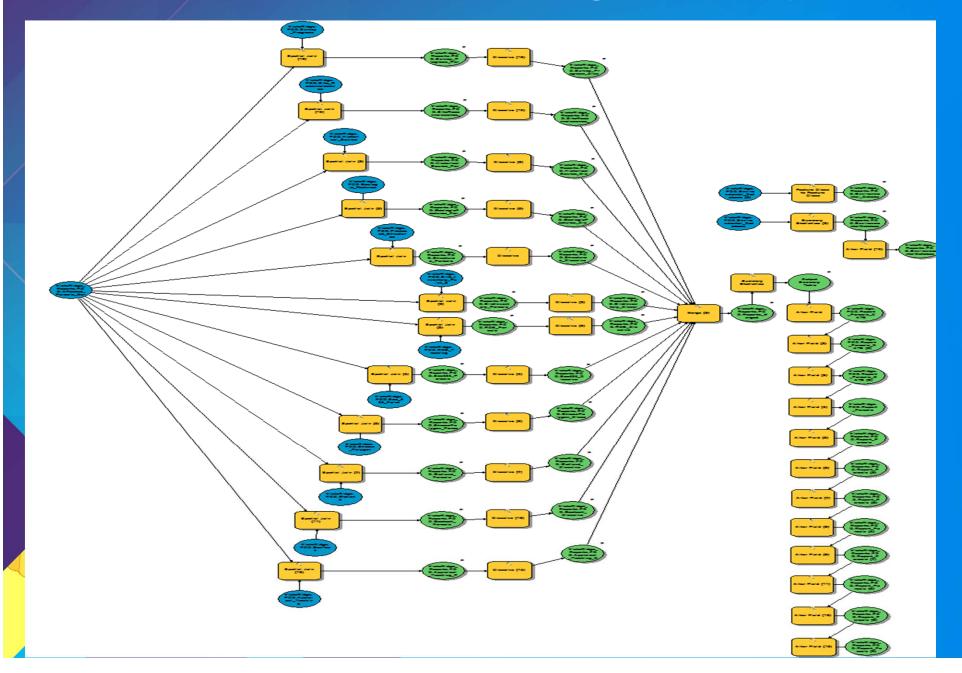
Operations Dashboard



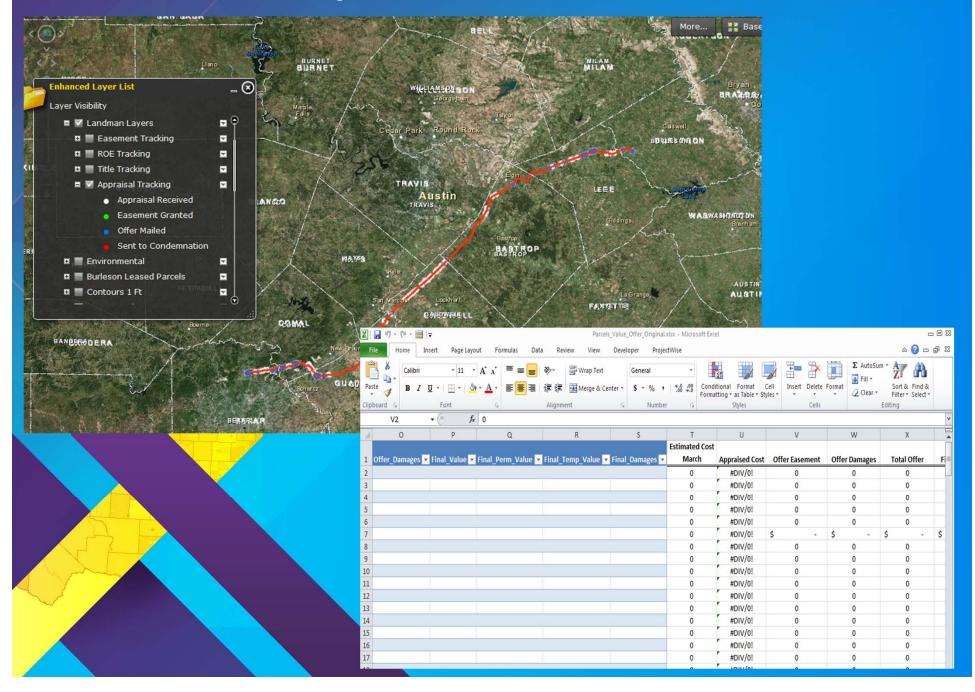
Operations Dashboard



The GIS Model That Tied it All Together for Reports



Maps tied to Pivot Tables



LESSONS LEARNED

Securing Rest Services & AGO Maps Constant Schema Changes Creating
Multiple User
Groups

Data Sync & Disconnected Editing



Usernames & Passwords for Each Group

Republishing Feature/Map Services

Created a
Separate Web
Page for Security

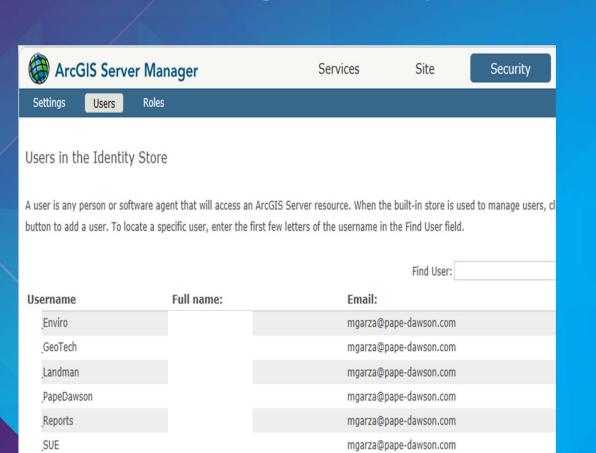
Having To Login Twice/ Creating a Proxy



Understanding our world.

Lessons Learned. You cannot track data that is intended for Disconnected editing. ← → C ↑ papedawson.maps.arcgis.com/apps/dashboard/index.html#/a1f3d1a7d86f4186b294784fc1efedeb FILE TOOLS WIDGETS -VistaRidge Dashboard **ROE Tracking** ±0: ▼ ROE Tracking **Operations Dashboard Operations Dashboard** on the Web **ROE Status ROE Status** - 40 400 -327 300 350 -300 -200 250 -118 200 -100 150-118 100 -Mailed 50 -No Mailed Yes **ROE Tracking ROE Tracking** 30 × No 9.4% 118 (24%) 327 (66.69 Mailed

Server Manager Security Roles AGOL Secured Groups



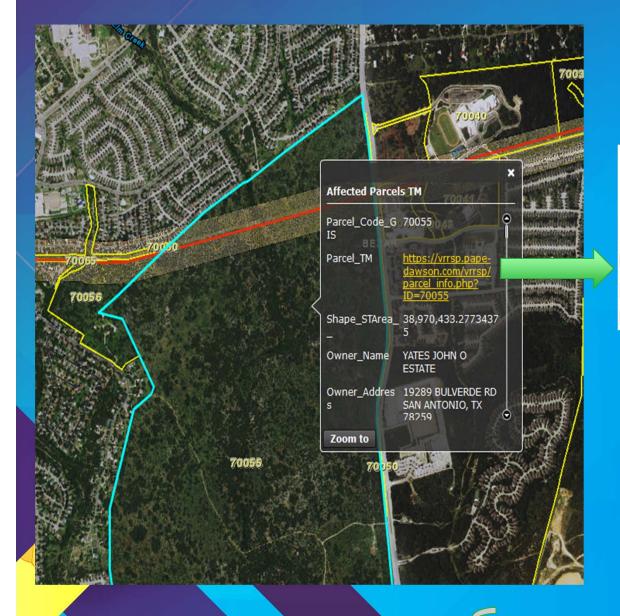




Survey



mgarza@pape-dawson.com



VRRSP Consultants, LLC

Vista Ridge Regional Supply Project Parcel Crossing Information

You must log in to access the site.

These are your specific log in credentials not the GIS log in.

Login:

Password:

Submit

Investors



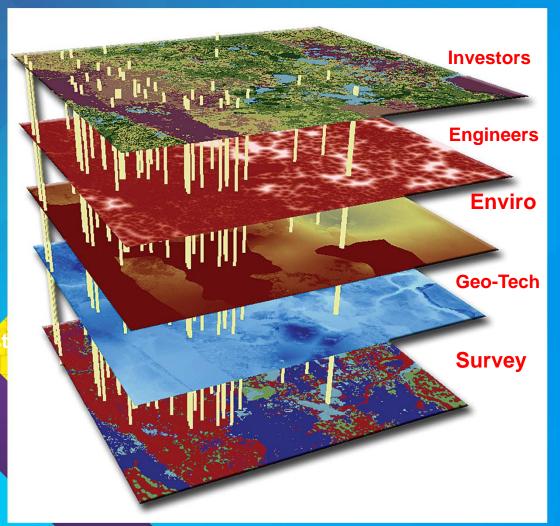
Landman



Environmentalis



GIS



Engineers



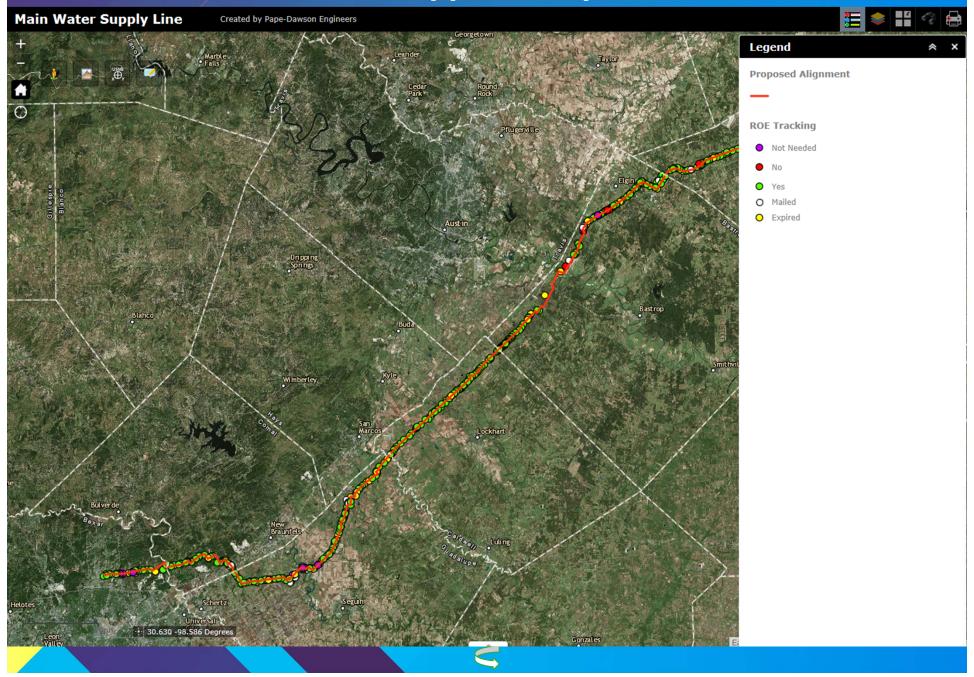
Geo-Technical

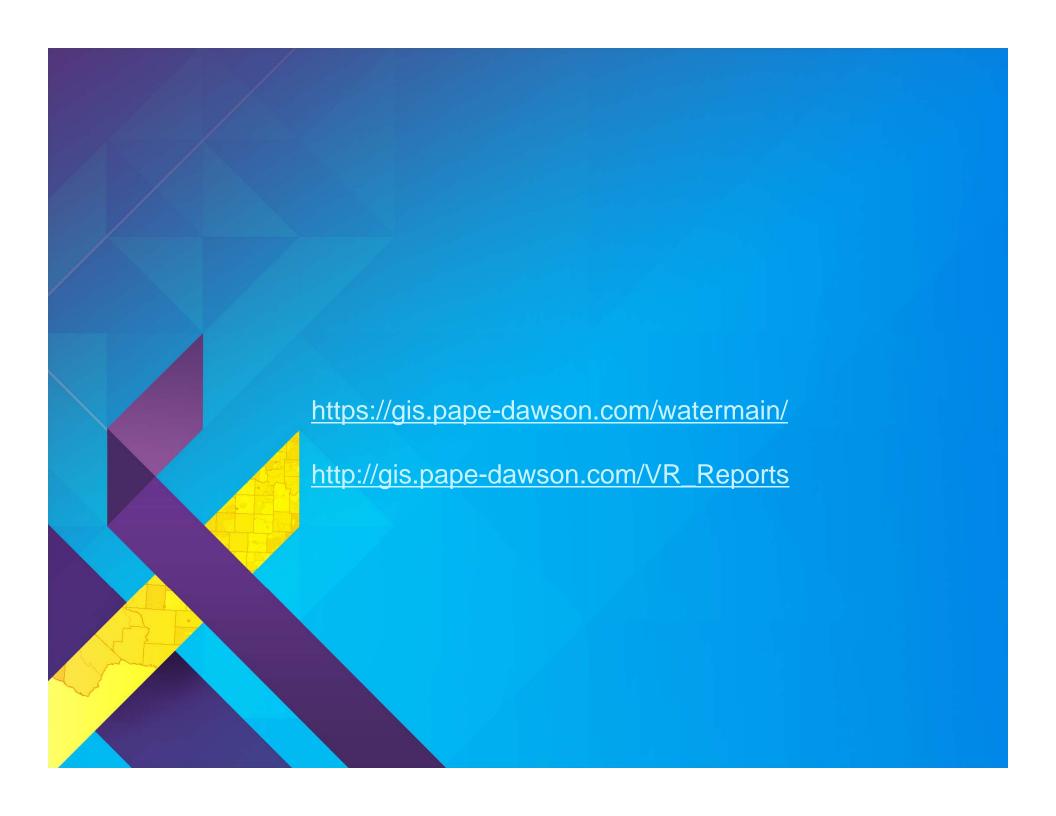


Surveyors



WebApp Developer







The Players that are involved in this Project

- Financial Investors
- Engineers
- Environmentalist
- Land Acquisition Group (ROE's, Appraisals, Easements, & Title Tracking)
 - Geo Technical Engineers
 - Surveyors