Raising the Value of a Local Government GIS Using a GIS-Centric Work Order and Permitting System

Justin Cure, GISP, CGCIO

Real East Texas
CITY OF LONGVIEW

Agenda

- Overview
- Public Works
- Cityworks
- Warehouse, Community Services, Wastewater Treatment Plant, Sanitation, Water Treatment Plants
- Engineering, Planning & Zoning, and Building Inspections
- Cityworks Environment
- CompassCom and CitySend
- What's Next?

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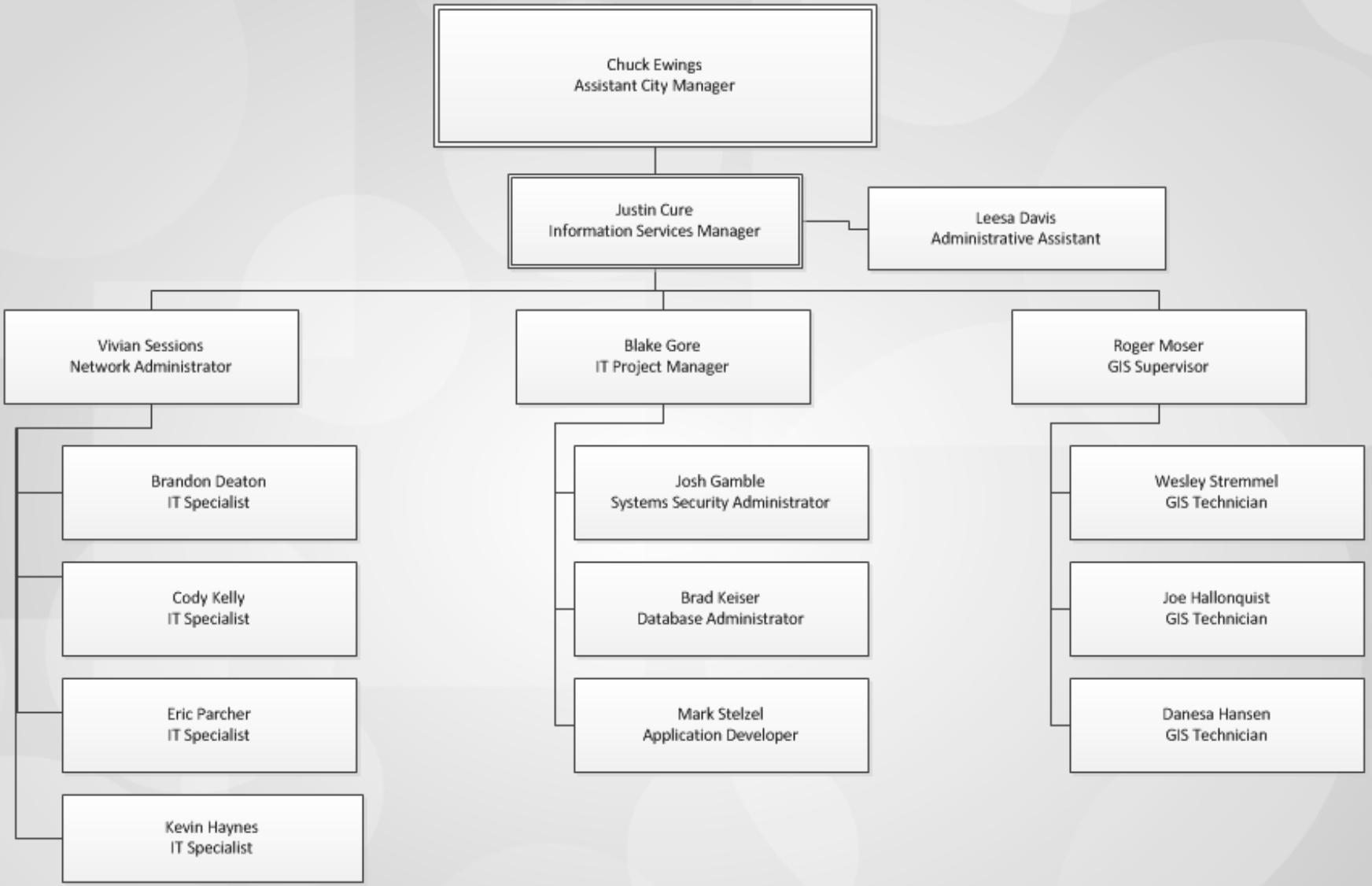
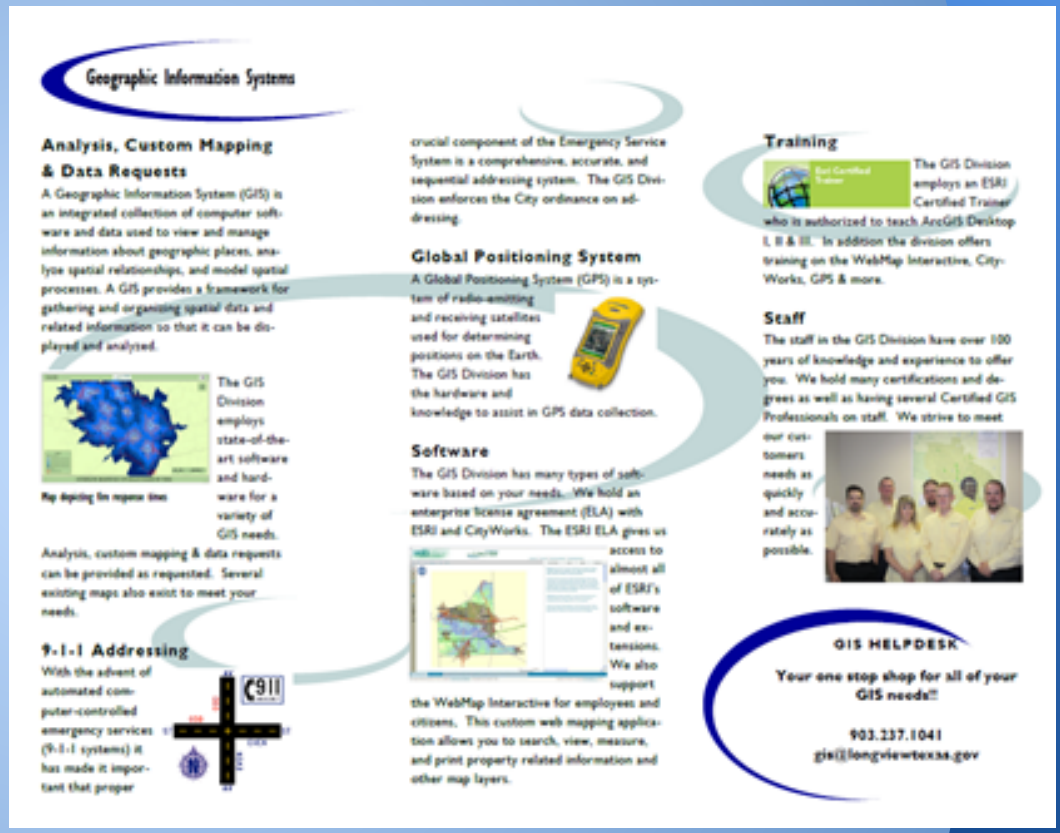
City of Longview, Texas

Information Services Division



Longview GIS

- Established 2005
  - Enterprise GIS
- 6.5 Employees
- 250+ Data Layers
- 9-1-1 Addressing, GPS, Analysis, Training, Web/ Mobile Applications
- ELA with ESRI and Cityworks



Geographic Information Systems

Analysis, Custom Mapping & Data Requests

A Geographic Information System (GIS) is an integrated collection of computer software and data used to view and manage information about geographic places, analyze spatial relationships, and model spatial processes. A GIS provides a framework for gathering and organizing spatial data and related information so that it can be displayed and analyzed.

The GIS Division employs state-of-the-art software and hardware for a variety of GIS needs.

Analysis, custom mapping & data requests can be provided as requested. Several existing maps also exist to meet your needs.

9-1-1 Addressing

With the advent of automated computer-controlled emergency services (9-1-1 systems) it has made it important that proper crucial component of the Emergency Service System is a comprehensive, accurate, and sequential addressing system. The GIS Division enforces the City ordinance on addressing.

Global Positioning System

A Global Positioning System (GPS) is a system of radio-emitting and receiving satellites used for determining positions on the Earth. The GIS Division has the hardware and knowledge to assist in GPS data collection.

Software

The GIS Division has many types of software based on your needs. We hold an enterprise license agreement (ELA) with ESRI and CityWorks. The ESRI ELA gives us access to almost all of ESRI's software and extensions. We also support the WebMap Interactive for employees and citizens. This custom web mapping application allows you to search, view, measure, and print property related information and other map layers.

Training

The GIS Division employs an ESRI Certified Trainer who is authorized to teach ArcGIS Desktop I, II & III. In addition the division offers training on the WebMap Interactive, CityWorks, GPS & more.

Staff

The staff in the GIS Division have over 100 years of knowledge and experience to offer you. We hold many certifications and degrees as well as having several Certified GIS Professionals on staff. We strive to meet our customers needs as quickly and accurately as possible.

GIS HELPDESK

Your one stop shop for all of your GIS needs!!

903.237.1041
gis@longviewtexas.gov

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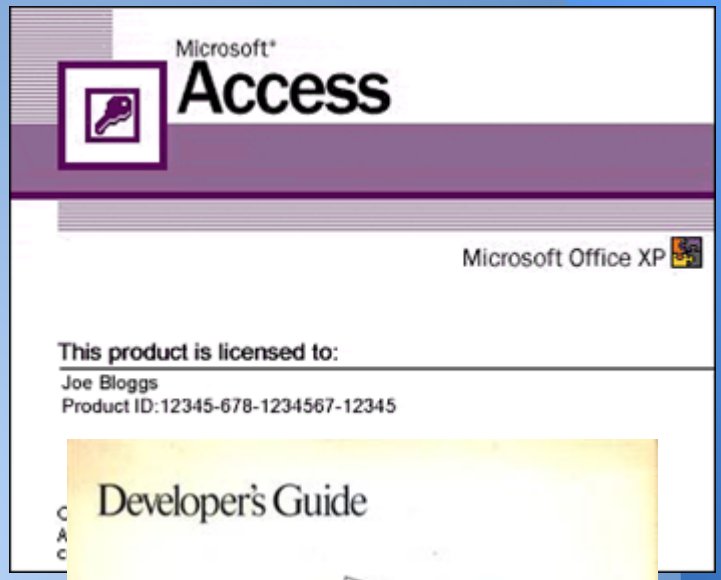
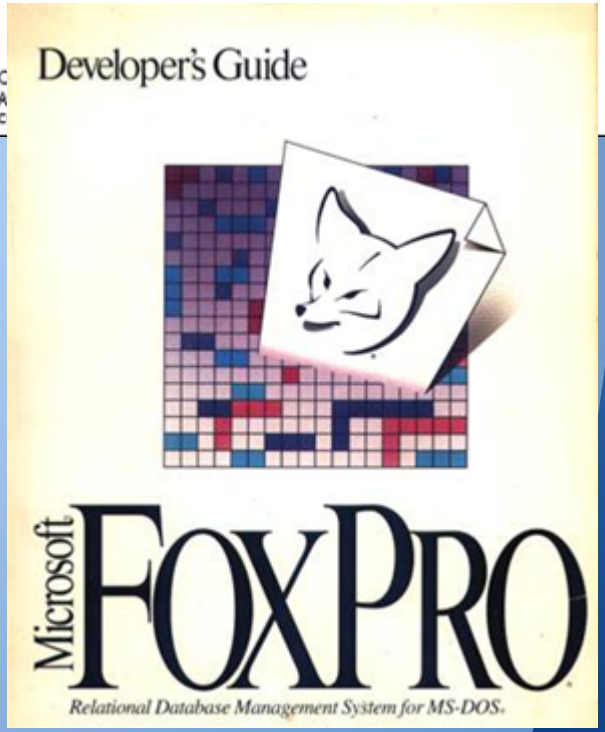
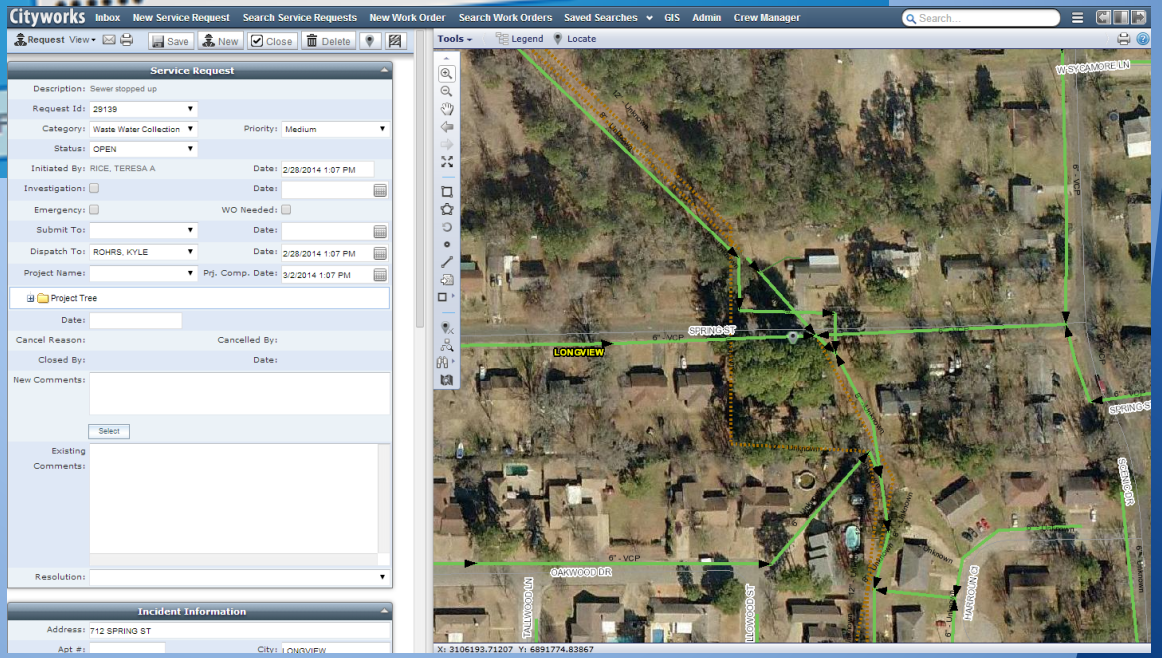
Public Works

- Streets, Traffic, Drainage, Wastewater Collection, and Water Distribution divisions
- 6 different databases
  - 2 divisions - 2 customized FoxPro databases
  - 3 divisions - 4 separate Access databases





Cityworks



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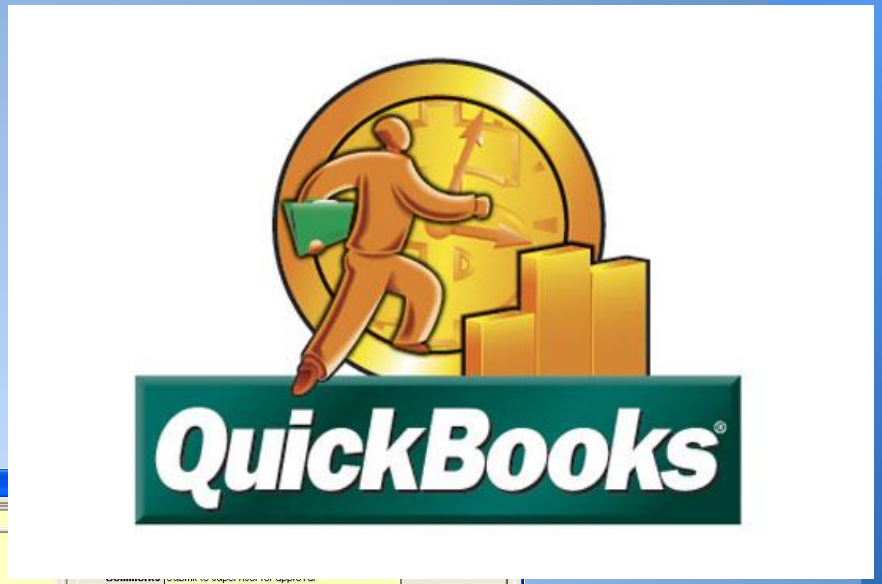
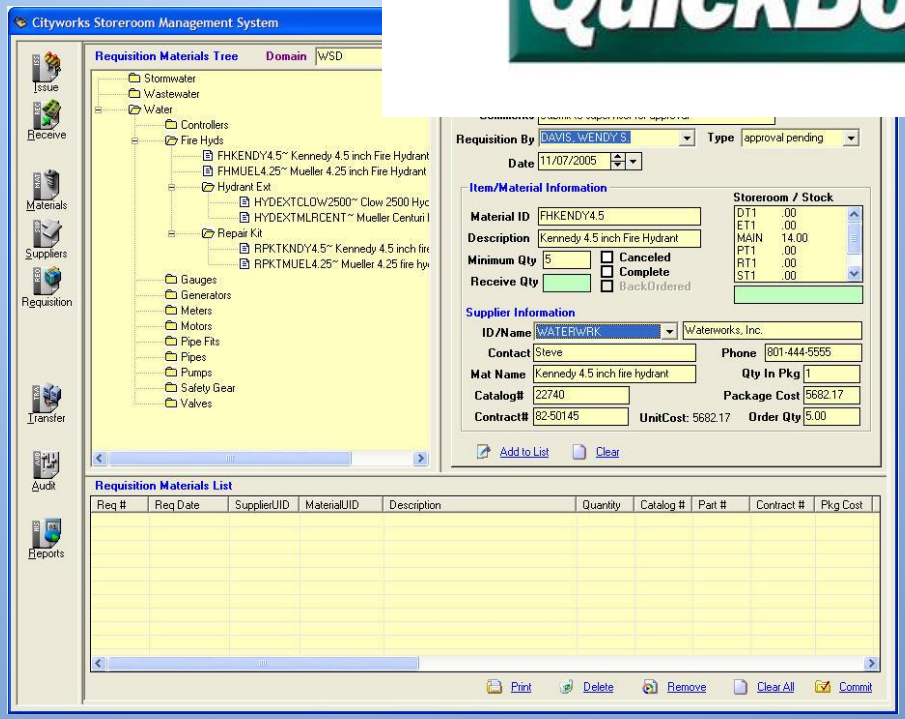
#	Table	Work Order # Assignment	Original Count	CityWorks Count	Percent Transferred
1	PAVEMENT MARKINGS AND SIGNS	2000 – 32889	30901	30890	99.96 %
2	TRAFFIC SIGNAL GREEN CARDS	32890 – 36085	3197	3197	100 %
3	TRAFFIC SIGNAL TICKETS	36086 – 59662	23577	23577	100 %
4	STREET SWEEP	59663 – 118762	59100	59100	100 %
5	STREETS AND DRAINAGE	118763 – 242421	123671	123659	99.99 %
6	WDWWC	242422 – 445872	203451	203451	100 %
7	WDWWC TICKETS	445873 – 447609	1737	1735	100 %
8	PW REQUESTS	447610 – 453344	5737	5737	99.97 %
9	TRAFFIC REQUESTS	453345 – 456426	3083	3082	99.97 %
10	SCHOOL ZONE GREEN CARDS	456427 - 456462	36	36	100 %
TOTALS		**2000 – 456462**	**454490**	**454464**	**99.99 %**

Warehouse

- Quickbooks
  - Inventory
  - Invoices
  - Suppliers
  - Reports
- Storeroom





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Community Services

- Parks Operations
  - MainTrac
- Parks Recreation
  - MainTrac
- Building Maintenance
- Activity Complex

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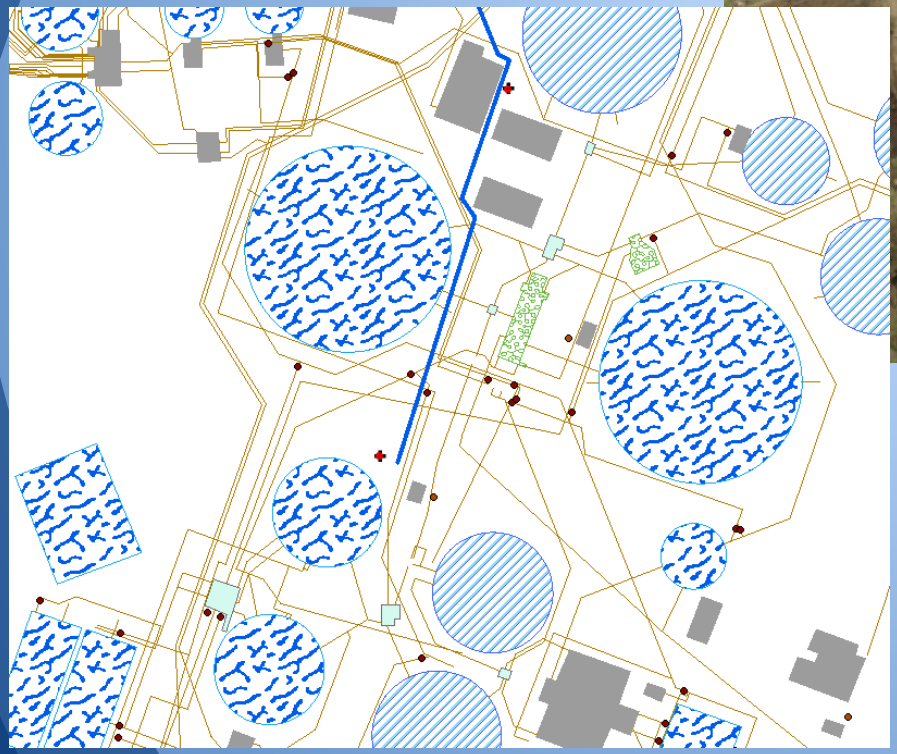
Wastewater Treatment Plant

- Antero
- No GIS



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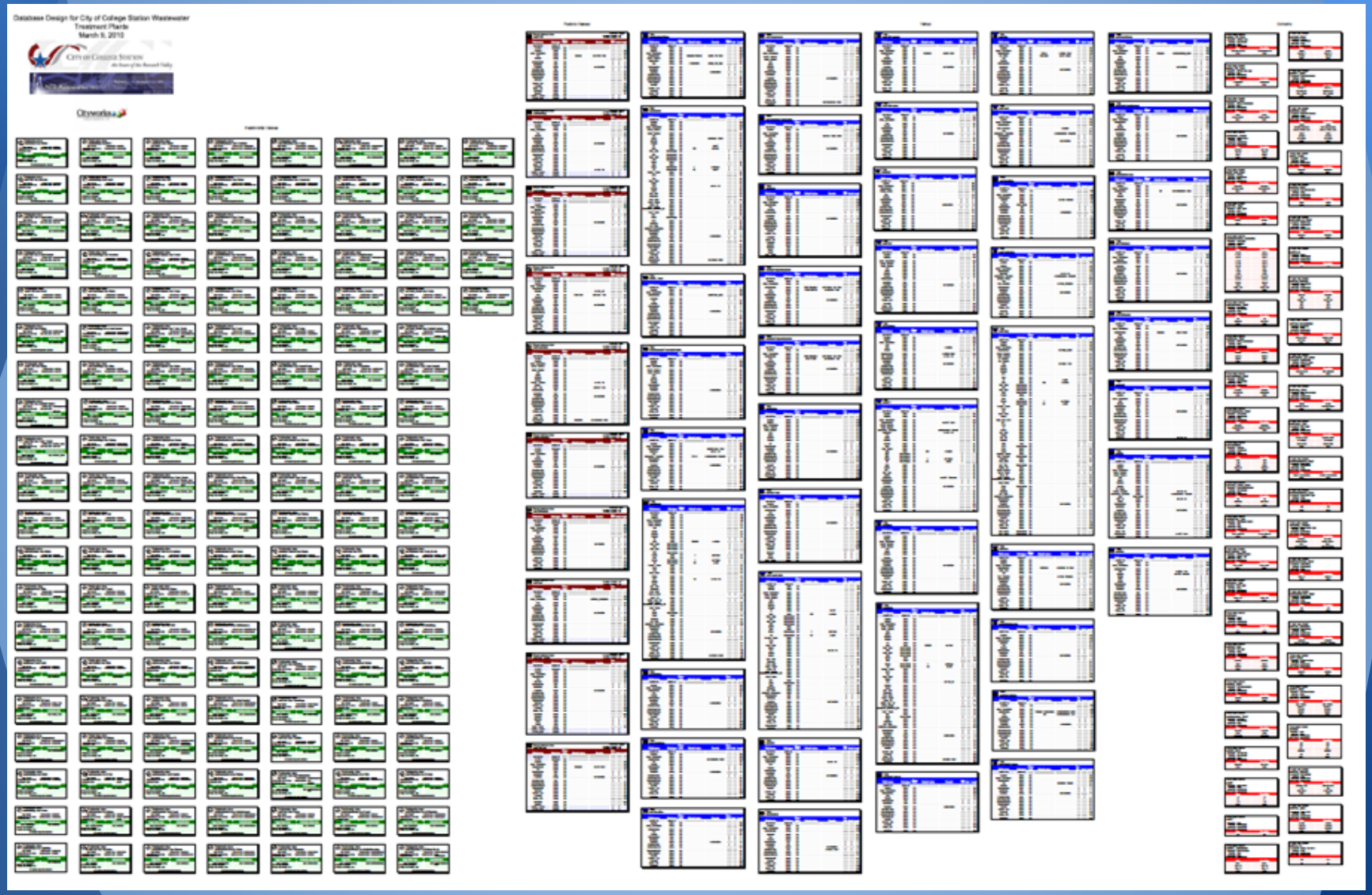
Wastewater Treatment Plant



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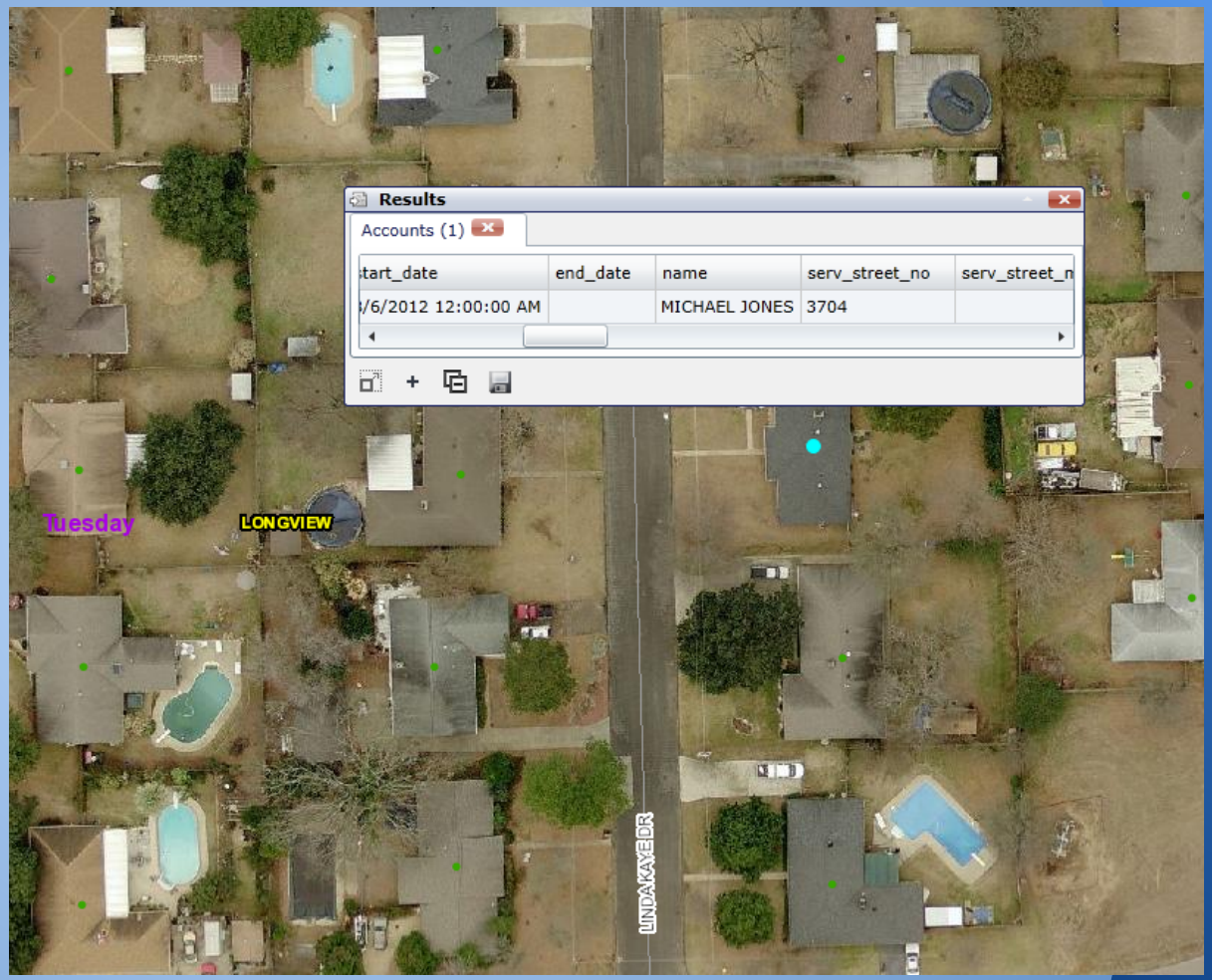
Sanitation

- Animal Removal
- Bulky Items
- Missed Garbage



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Water Treatment Plants

- 3 Water Treatments Plants
- No GIS

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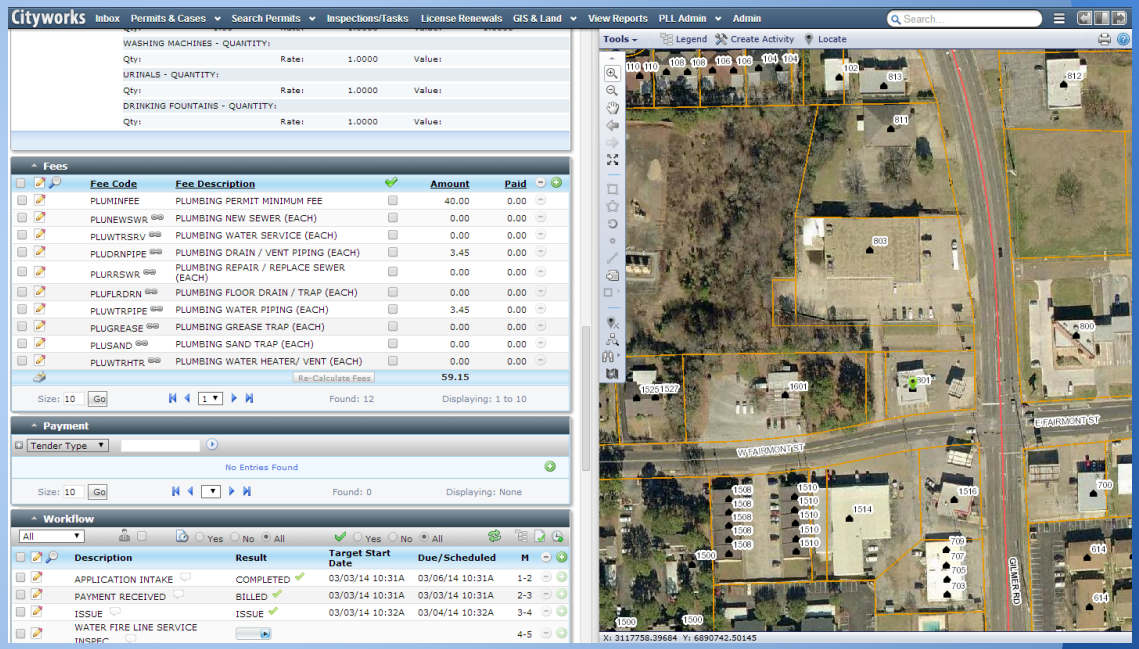
Engineering, Planning & Zoning, and Building Inspections

- PLL
  - Permits
  - Inspections
  - Contractor Registrations
  - Workflows
  - Fees and Payments



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Cityworks Environment

- Cityworks 2013 SP1
  - AMS & PLL
  - Cloud hosted on Amazon cloud
  - Supported by NTB Associates, Inc.
  - ArcGIS Server 10.1
- 2013 Cityworks Exemplary User Award

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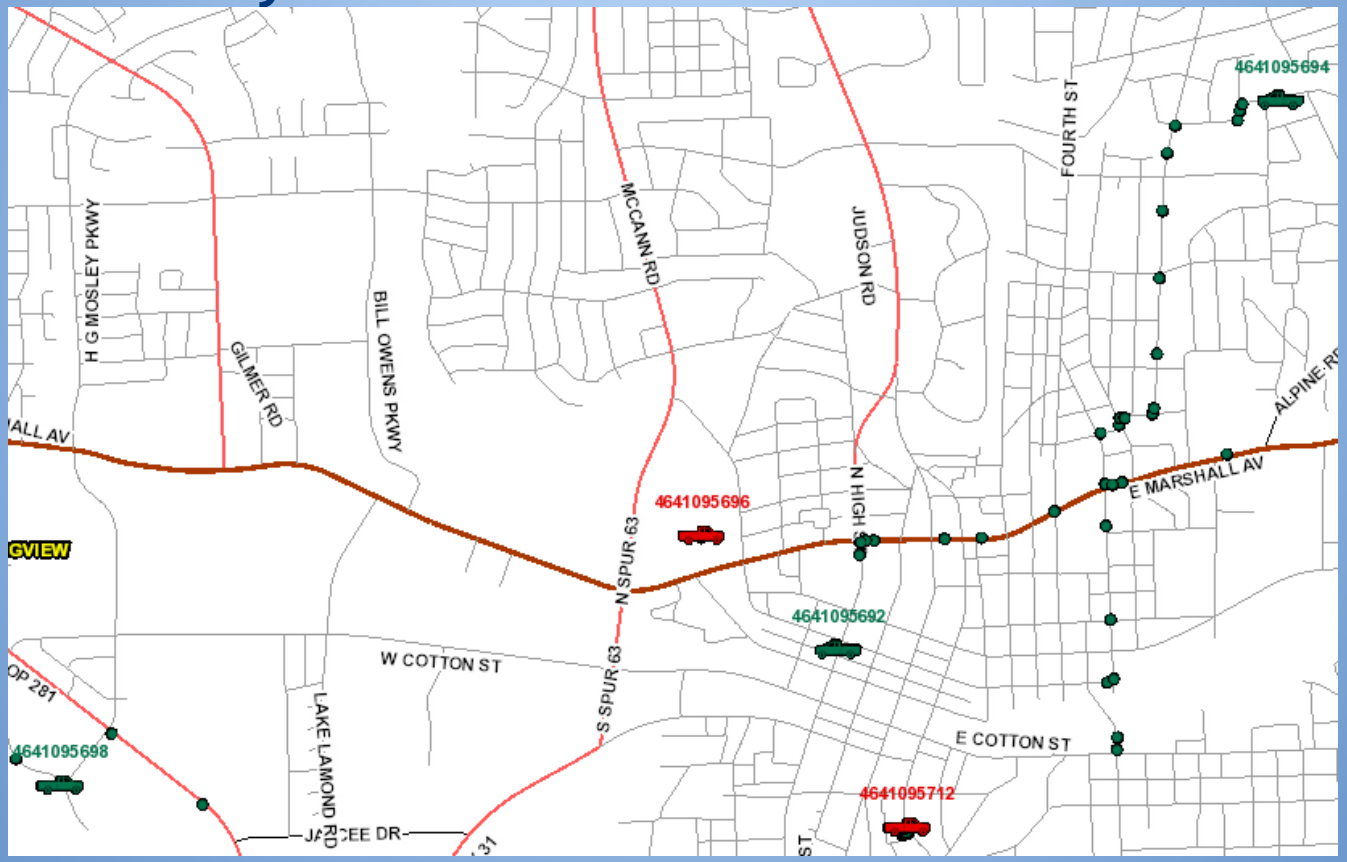
CompassCom AVL

- Parks
  - 25 Trucks, Tractors, Garbage Truck, and Delivery Vans



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CitySend

- Citizen Reporting Application
  - Powered by CitySourced
  - Tightly Integrated with Cityworks
  - 2013 Texas Association of Government IT Manager's Excellence Award Winner

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What's Next?

- Restaurant Inspections, Code Enforcement, Animal Control, Vector Control
- Field Implementation
- Web Permitting Application / Inspection Requests
- SCADA, Industrial Pre-Treatment?

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Summary

- 3 Departments
  - 19 Divisions
- 11 Softwares/Databases Eliminated
- Citizens
- GIS is Part of Daily Activities

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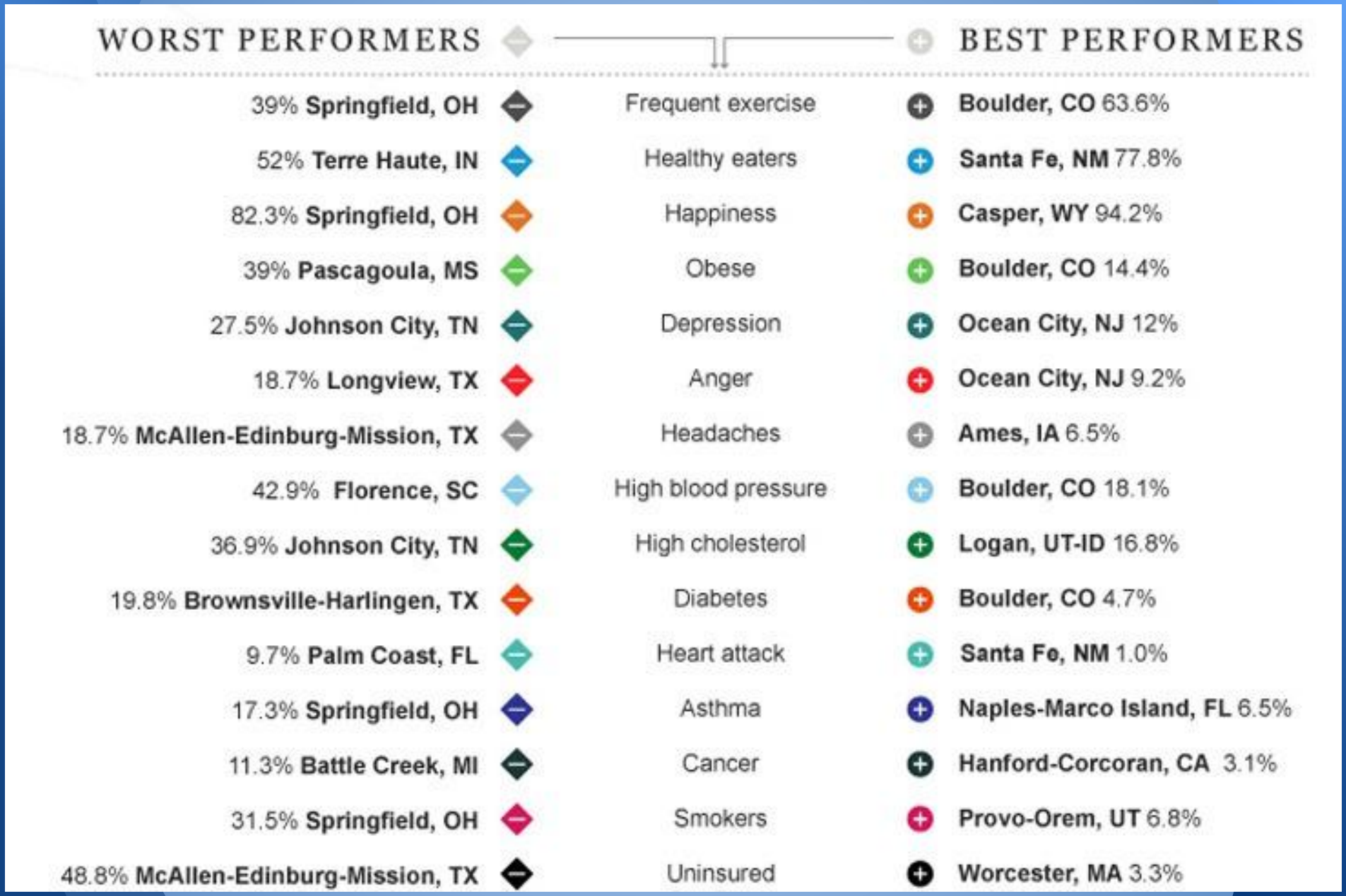
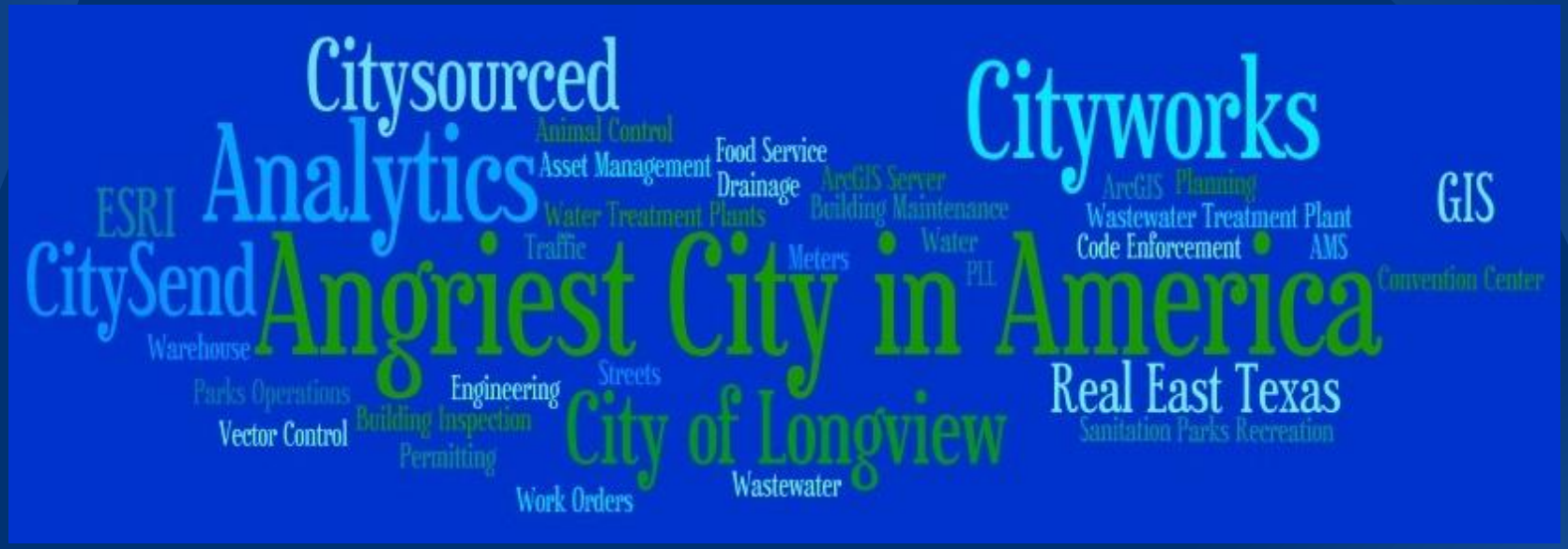

WORST PERFORMERS
BEST PERFORMERS
39% Springfield, OH
Frequent exercise
Boulder, CO 63.6%
52% Terre Haute, IN
Healthy eaters
Santa Fe, NM 77.8%
82.3% Springfield, OH
Happiness
Casper, WY 94.2%
39% Pascagoula, MS
Obese
Boulder, CO 14.4%
27.5% Johnson City, TN
Depression
Ocean City, NJ 12%
18.7% Longview, TX
Anger
Ocean City, NJ 9.2%
18.7% McAllen-Edinburg-Mission, TX
Headaches
Ames, IA 6.5%
42.9% Florence, SC
High blood pressure
Boulder, CO 18.1%
36.9% Johnson City, TN
High cholesterol
Logan, UT-ID 16.8%
19.8% Brownsville-Harlingen, TX
Diabetes
Boulder, CO 4.7%
9.7% Palm Coast, FL
Heart attack
Santa Fe, NM 1.0%
17.3% Springfield, OH
Asthma
Naples-Marco Island, FL 6.5%
11.3% Battle Creek, MI
Cancer
Hanford-Corcoran, CA 3.1%
31.5% Springfield, OH
Smokers
Provo-Orem, UT 6.8%
48.8% McAllen-Edinburg-Mission, TX
Uninsured
Worcester, MA 3.3%



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