City of Gainesville – Public Works

May 5, 2015

Cloud-Based Cityworks AMS Implementation

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FLORIDA

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- Introduction
- Background
- Implementation
- Lessons Learned
- ROI
- Questions

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Introductions

Debbie Leistner
Public Works Planning Manager
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GIS Department Manager
bmillinor@jonesedmunds.com

About the City of Gainesville

- Largest City in North Central Florida
- ~ 130,000 residents
- Public Works also serves Alachua County
- Home to:
  - University of Florida
  - Santa Fe College

About Jones Edmunds

- Utilities, Water Resources, Civil and Environmental Services
- 40+ Years of Experience
- 7 Offices Throughout Florida
- 130+ Multidiscipline Professionals
- Esri Business Partner since 1999
- Cityworks Silver Implementation Partner

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esri

Special Achievement in GIS Winner 2010

Drivers for a New Asset Management System

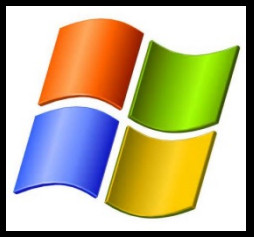
Multi-year Planning Process

- Better Cost Accounting
- Ability to Track Special Events
- Ease of Reporting
- Leverage Existing GIS
- Outdated Inventory Software
- Field Access

Why was Cityworks Selected?

- True Cost Accounting
- Ability to Track Project Costs with Account Numbers
- SQL and Crystal Reporting
- Esri Platinum Partner
- Office and Field Compatibility
- City-Owned Utility Was a Long-Term Cityworks User

Cityworks®



iOS

GRU℠
More than Energy™

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Project Tasks

Tasks
1. Brief Business Process Review and System Design and Configuration
2. Cityworks Server Demonstration Site
3. Geodatabases Design and Data Import
4. Import Existing WMS Data
5. Cityworks for Operations and Traffic Operations
6. Storeroom Configuration
7. Cityworks for Engineering and Solid Waste
8. Cityworks for Planning and Administrative Services
9. SQL Reporting
10. Ongoing Support

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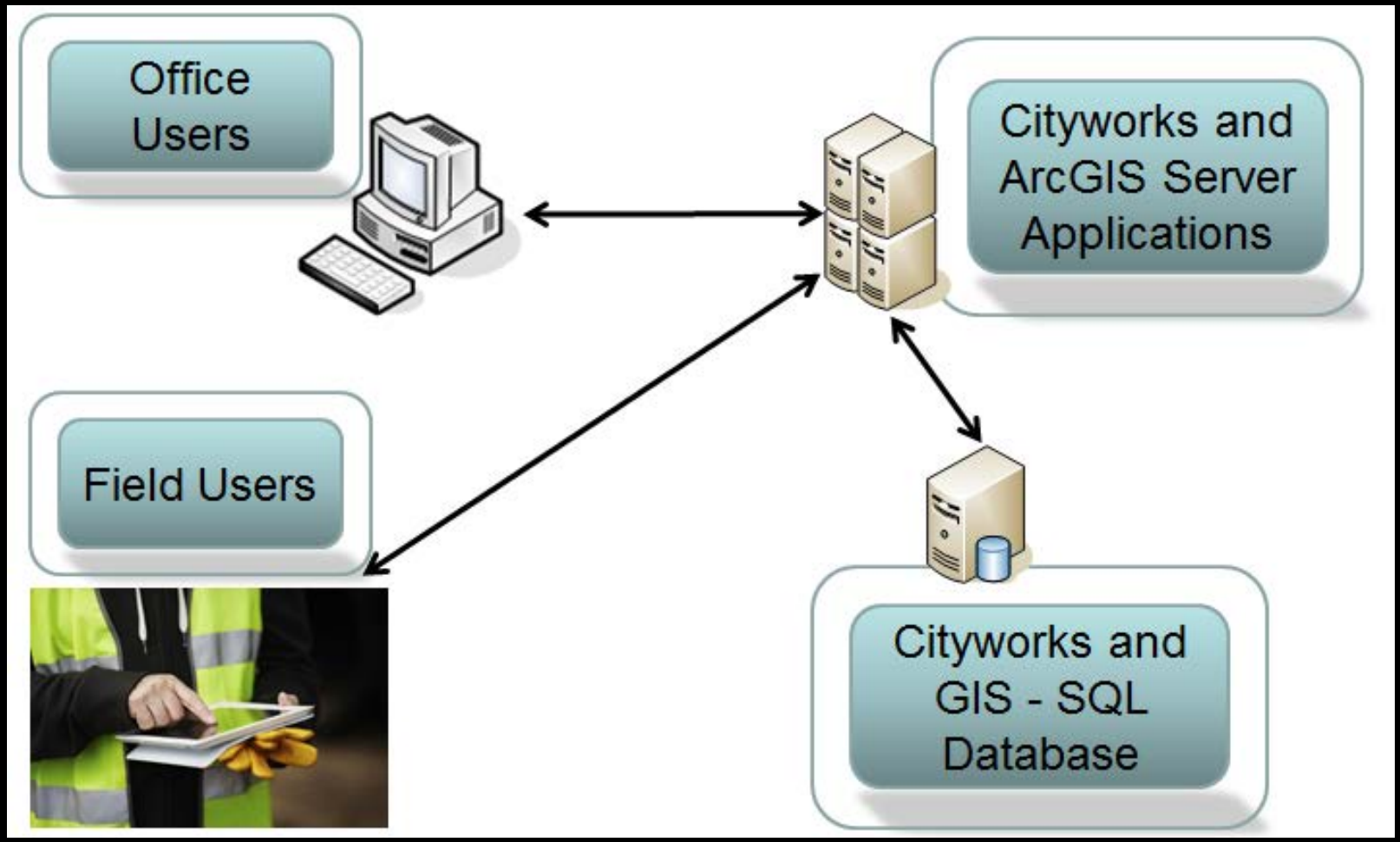
Approach

Business Process Review and System Design and Configuration



Implementation

Cloud Hosting and Cityworks Demo Site

- Pros and Cons of Cloud
- Brief Training for Cityworks Demo Users

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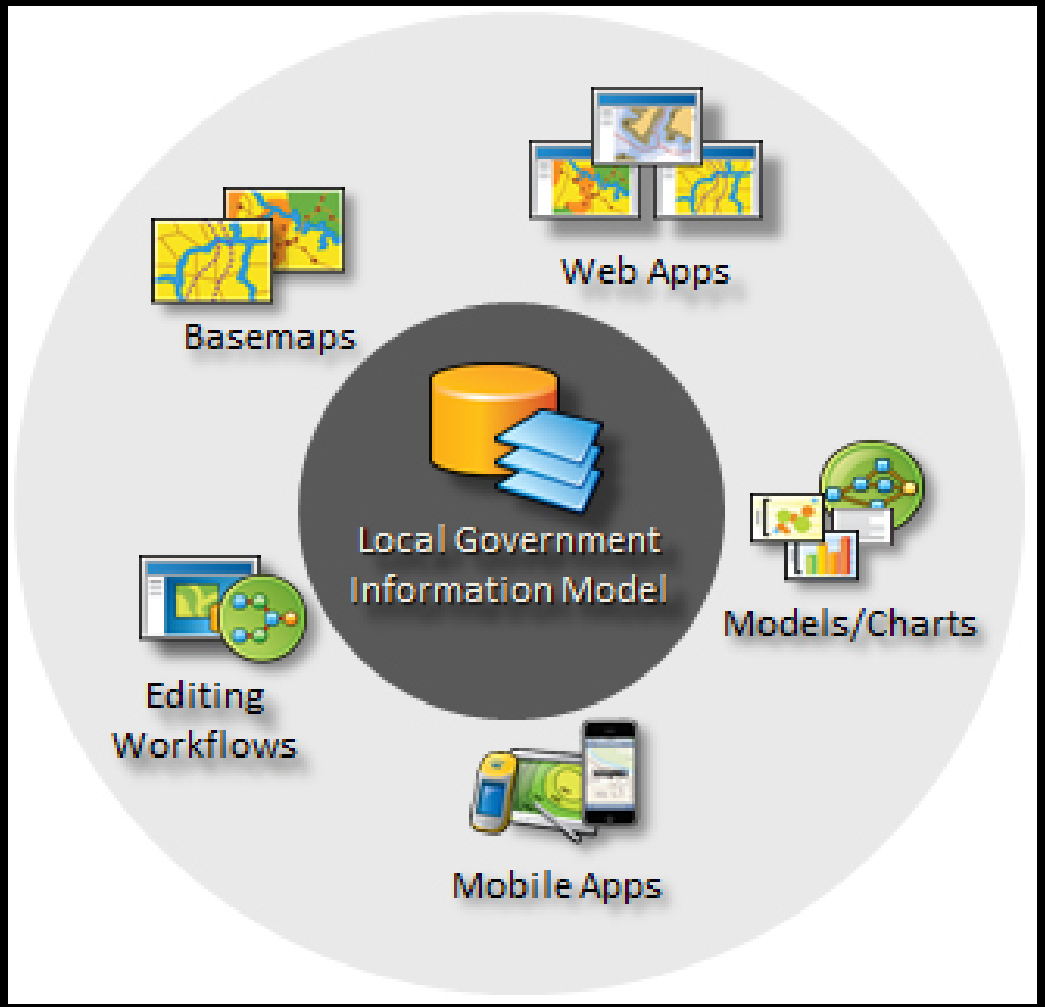
Implementation

Geodatabase Design and Data Import



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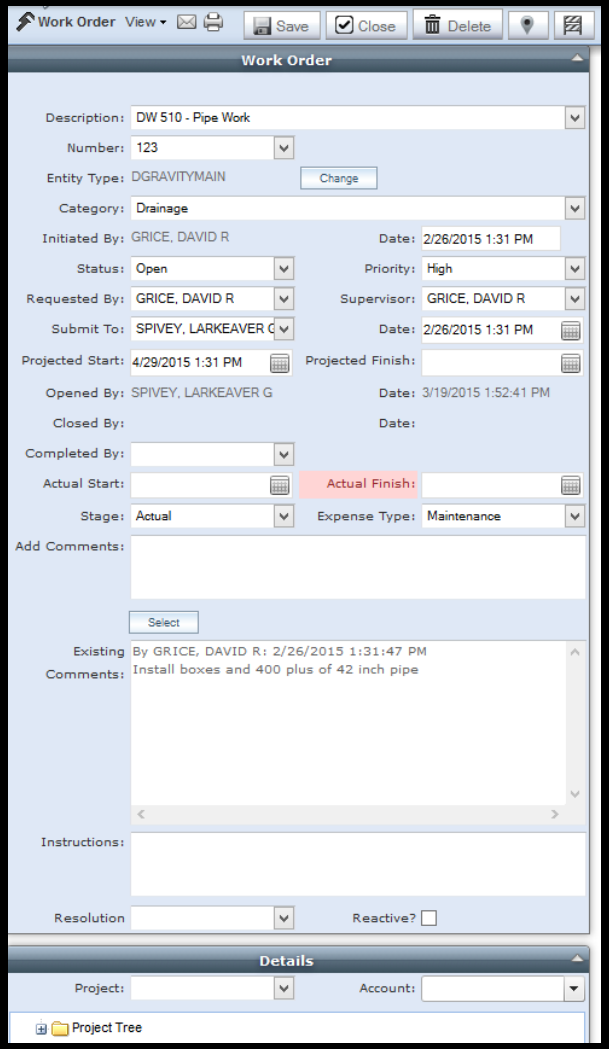
Approach

Cityworks Implementation for Operations and Traffic Operations



1. Split into Smaller Groups
    1. Drainage
    2. Right of Way
    3. Construction
    4. Mosquito Control
    5. Signs and Signals

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Approach

Cityworks Implementation for Operations and Traffic Operations

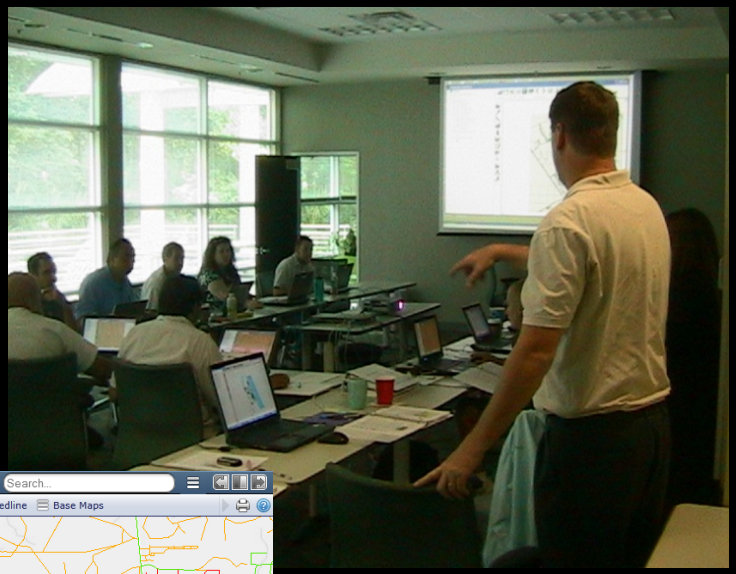
- Workflow Meetings
- Cityworks Setup

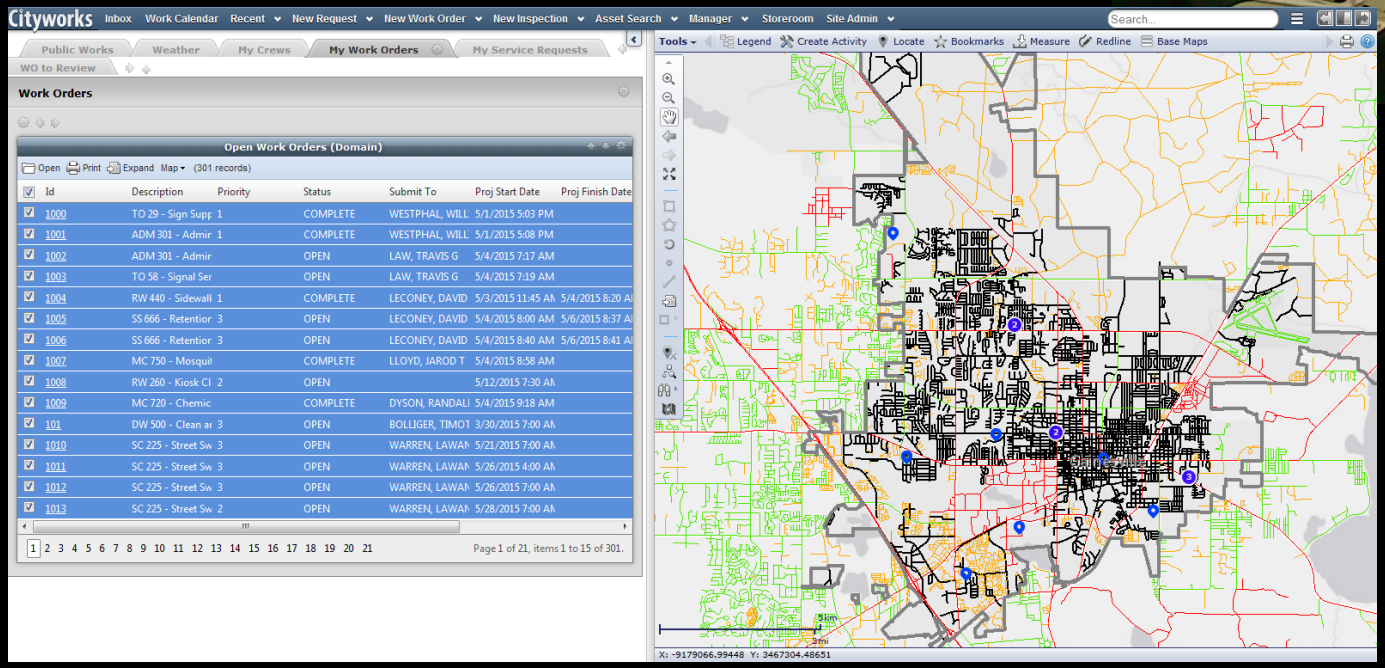
DRAINAGE SECTION			
David Grice*	Tim Bolliger	Ernest Dexter	Blake Brown
			Charles Griffin
		Alex Dicks	
			Kurtis Brutton
			Stevon Johnson
			Mike Ross (?)
		Kris Holt	James Houston
			Jimmy Dobbins
			Renato Scarpatti
		Germaine Spivey	Little Sulivan
			Charles Prince
			Steven Kowatch
			Timothy Bolliger
		David Grice (?)	Tommy Hannah
			David Holt
			Keith Loeffler
			Richard Nancarrow

Approach

Cityworks Implementation for Operations and Traffic Operations

- Training
- Testing Period
- Update system and Go Live





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Approach

Cityworks – Field Access

- 38 iPads
- Rolled Out as Cityworks was Deployed
- Crew Leaders and Supervisors

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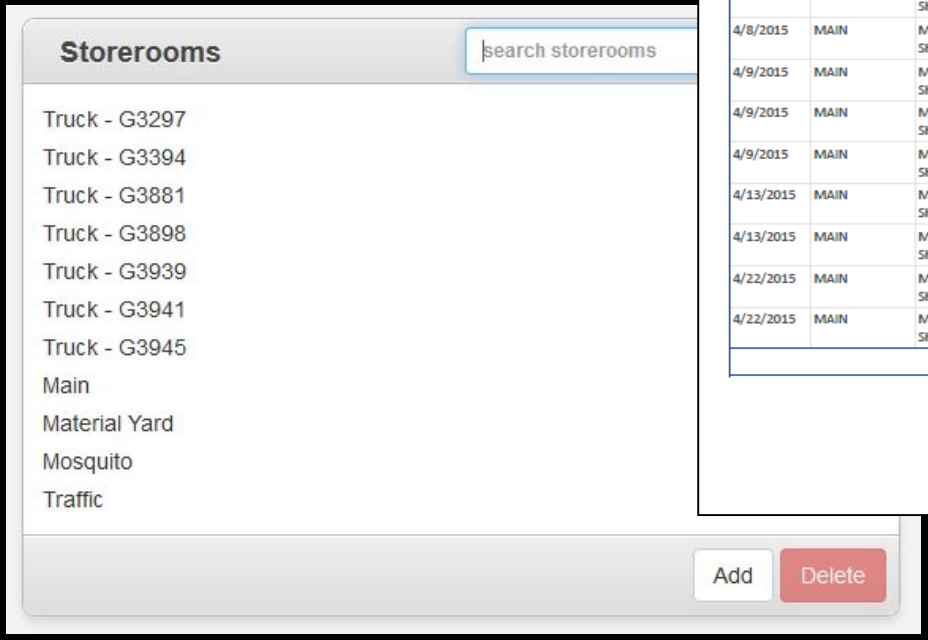
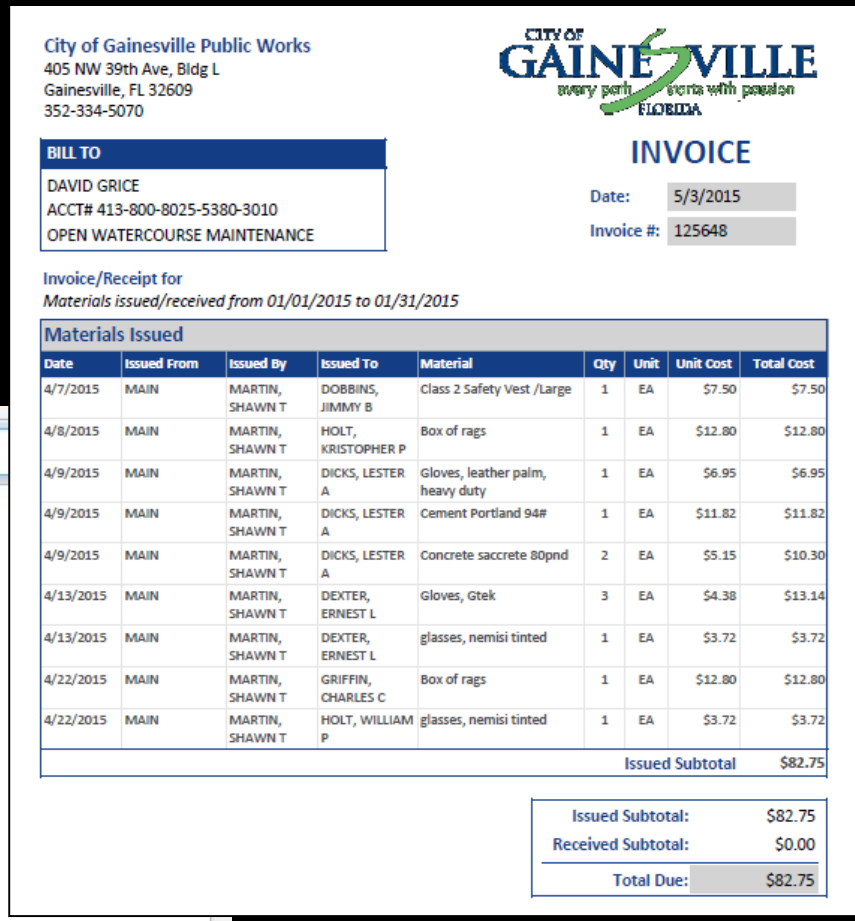
Approach

Cityworks Storeroom

Integrated Warehouse Software
to Track Inventory and Transactions

- Multiple Storerooms
- Training





City of Gainesville Public Works
405 NW 39th Ave, Bldg L
Gainesville, FL 32609
352-334-5070

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BILL TO
DAVID GRICE
ACCT# 413-800-8025-5380-3010
OPEN WATERCOURSE MAINTENANCE

INVOICE

Date: 5/3/2015
Invoice #: 125648

Invoice/Receipt for
Materials issued/received from 01/01/2015 to 01/31/2015

Materials Issued

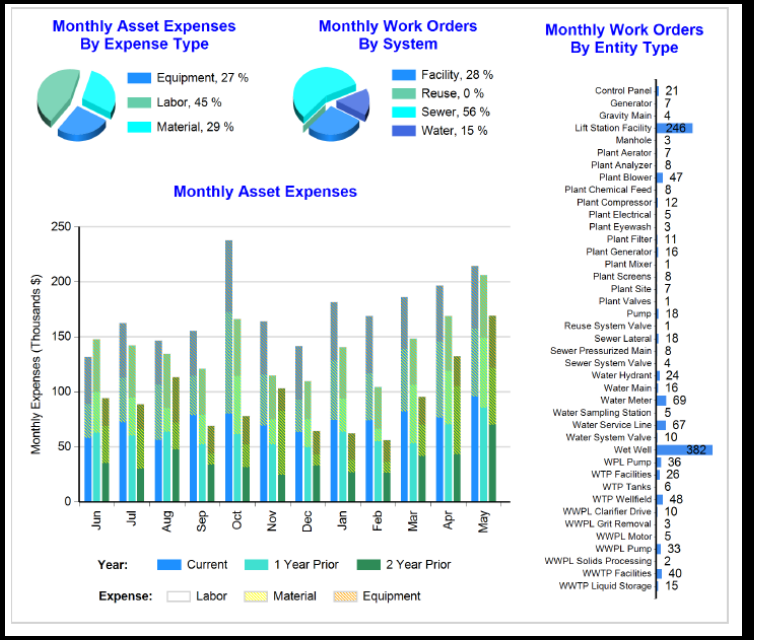
Date	Issued From	Issued By	Issued To	Material	Qty	Unit	Unit Cost	Total Cost
4/7/2015	MAIN	MARTIN, SHAWN T	DOBBINS, JIMMY B	Class 2 Safety Vest /Large	1	EA	$7.50	$7.50
4/8/2015	MAIN	MARTIN, SHAWN T	HOLT, KRISTOPHER P	Box of rags	1	EA	$12.80	$12.80
4/9/2015	MAIN	MARTIN, SHAWN T	DICKS, LESTER A	Gloves, leather palm, heavy duty	1	EA	$6.95	$6.95
4/9/2015	MAIN	MARTIN, SHAWN T	DICKS, LESTER A	Cement Portland 94#	1	EA	$11.82	$11.82
4/9/2015	MAIN	MARTIN, SHAWN T	DICKS, LESTER A	Concrete saccrete 80pnd	2	EA	$5.15	$10.30
4/13/2015	MAIN	MARTIN, SHAWN T	DEXTER, ERNEST L	Gloves, Gtek	3	EA	$4.38	$13.14
4/13/2015	MAIN	MARTIN, SHAWN T	DEXTER, ERNEST L	glasses, nemisi tinted	1	EA	$3.72	$3.72
4/22/2015	MAIN	MARTIN, SHAWN T	GRIFFIN, CHARLES C	Box of rags	1	EA	$12.80	$12.80
4/22/2015	MAIN	MARTIN, SHAWN T	HOLT, WILLIAM P	glasses, nemisi tinted	1	EA	$3.72	$3.72
							Issued Subtotal	$82.75

Issued Subtotal:	$82.75
Received Subtotal:	$0.00
Total Due:	$82.75

Approach

Reporting

- Web based
- Permissions and Views per User
- Very Strong Reporting Capabilities
- Training



FY 2015 Management Plan: Operations

1st Quarter Performance Measures

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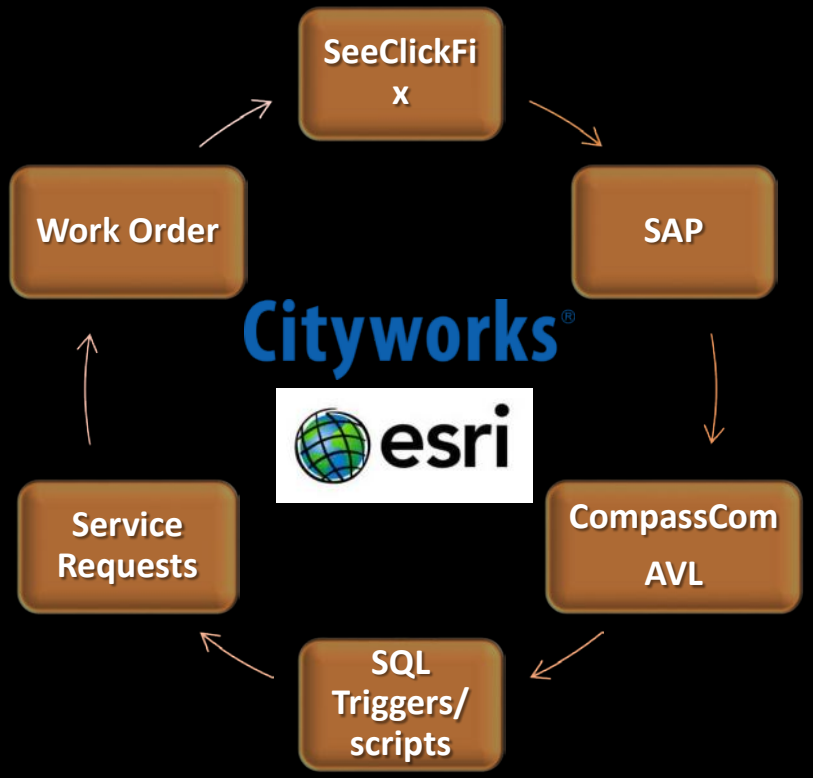
Public Works Department

WO # / SR #	Address	Supervisor	Finish Date	Equipment	Labor	Material	Total Cost	Production Quantity	Unit Production
Improve water quality				**$137.32**	**$489.30**	**$0.00**	**$626.62**		
Acreage of ditch treated with weed suppressant							$0.00	ACRE	$0.00
No work orders found									
Acreage of basins treated with weed suppressant							$0.00	ACRE	$0.00
No work orders found									
Mileage of ditch mowing				$60.00	$371.90	$0.00	$431.90	MILE	$53.39
DW 420 - Watercourse Vegetation Maintenance				$60.00	$371.90	$0.00	$431.90	0.01	$45,608.64
96	1816 NW 27 Terr.	GRICE, DAVID R	02/24/2015	$60.00	$371.90	$0.00	$431.90	0.01	$45,608.64
No work orders found									
Acreage of retention basin mowing				$77.32	$117.40	$0.00	$194.72	ACRE	$11.20
DW 420 - Watercourse Vegetation Maintenance				$49.32	$65.46	$0.00	$114.78	0.10	$1,168.18
215	1900 NW 31st Ave	DAVIS, NATHANIEL R	03/30/2015	$49.32	$65.46	$0.00	$114.78	0.10	$1,168.18
No work orders found									
SS 666 - Retention Pond Mowing				$28.00	$51.94	$0.00	$79.94	0.62	$128.97
230	400 NW 55th St	DAVIS, NATHANIEL R	03/19/2015	$28.00	$51.94	$0.00	$79.94	0.62	$128.97
Well maintaned stormwater system infrastructure				**$1,553.90**	**$3,903.12**	**$0.00**	**$5,457.02**		
Number of sediment traps inspected and cleaned bi-annually							$0.00	COUNT	$0.00
No work orders found									
Install new/replace storm systems as designed				$873.90	$2,023.70	$0.00	$2,897.60	FT	$0.00
DW 510 - Pipe Work				$873.90	$2,023.70	$0.00	$2,897.60	0.00	$0.00
129	4508 NW 20TH Ter.	GRICE, DAVID R	03/03/2015	$6.00	$64.72	$0.00	$70.72	0.00	$70.72
229	NW 22 ST And 9 AVE	GRICE, DAVID R	03/19/2015	$80.00	$153.10	$0.00	$233.10	0.00	$233.10

Approach

Next Steps

- Remaining Groups
- EPD / Contractor Logins
- Integration
- PLL
- Ongoing Support



Lessons Learned?

- Monthly Follow-up Meetings Have Been Very Beneficial
- Plan for Additional Basic Training
- iPad Management Software
  - Automatically Updates iOS
- Enforcing Proper Workflows
- Plan for Staff to Manage Implementation and Ongoing Cityworks

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Return on Investment

- Better Tracking of Performance Measures
- Real-time Access Throughout the Organization
  - Immediate completion of work orders in the field
  - Expanded access across the department
- Improved Morale
  - Increased responsibility
  - Improved ownership
- Field edits to GIS
- True Cost Tracking for Actual Work Performed
- Improved Transparency
- Better Citizen and Elected Officials Response

Questions?

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