City of South Jordan

Department of Public Works

2016-2017 Annual Report

Water Division

Streets Division

Sanitation Division

Cemetery Division

Fleet Division

Storm Water Division
Contents

Public Works Overview.......................................................... 4
Letter from Director .............................................................. 5
Culinary Water Division.......................................................... 6
Water Quality............................................................................. 7
Secondary Water Division......................................................... 8-9
Water Conservation................................................................. 10
Streets Division......................................................................... 12-13
Sanitation & Recycling Division................................................. 14-15
Storm Water Division............................................................... 16-17
Fleet Division.............................................................................. 18-19
Cemetery.................................................................................. 20-21
Public Works
Fiscal Year 2016-2017

361.3 Miles of Culinary Water Pipe Maintained

2,024 New Garbage Containers Delivered

983 Dumpsters Delivered

864 Samples Collected for Water Quality

2,900 Man Hours Spent Snow Plowing

467 Lights Repaired

109 Pump House Inspections Repairs

1,54 DAYS Response Time for Pot Hole Repair

21,608 ft Storm Pipe Cleaned

1,582 Fleet Work Orders Completed
To All South Jordan Residents:

I am pleased to share the Public Works Department annual report, covering the fiscal year 2016-17. The report shares work that has been accomplished, provides accountability for the resources used within the department and highlights the value delivered to South Jordan Residents and other City stakeholders from the Public Works Departments engaged and committed staff.

South Jordan City is a highly desirable place to live, work and play. The management and maintenance of infrastructure and public services greatly contribute to the high quality of life experienced by those living and working in the City. As the City continues to grow, new challenges will provide new opportunities for Public Works staff to apply their experience and knowledge towards keeping South Jordan great!

I hope that each person who reviews this report will learn more and have a greater appreciation for what takes place behind the scenes to ensure our residents enjoy a high quality of life here in South Jordan.

Sincerely,

Jason Rasmussen
Public Works Director
The Water Division provides safe and high quality drinking water with pressure and flow rates that exceed state requirements. This is accomplished through compliance of sampling, system upgrades, response to failures and resident concerns, and continually monitoring the system as a whole.

Core Services
- Culinary System Distribution Management (361 miles of waterline)
- Culinary System Repair & Maintenance
- Federal & State Drinking Water Compliance
- 80 monthly water quality samples
- Pressure and Flow System Management

Other Services
- Water Education Events
- Special Event Support
- Snow Removal
- Inter City and Department Support
- Emergency Response

145 leaks responded to
22 City system leaks
123 resident system leaks
100% drinking water compliance rate

Leaks
- 145 leaks were responded to
- 22 leaks on the City’s side
- 123 leaks on the resident’s side
- Repaired water leaks within 5 hours 90% of the time

Drinking water compliance rate
- 100 %

Transite Waterline Replacement Projects
- Koradine Drive 3600 Linear Feet
- Birnham Woods Way 2600 Linear Feet

Water Distribution System Integrity
This performance indicator provides the condition of a water distribution system, expressed as the total annual number of leaks and pipeline breaks per 100 miles of water pipe.

**AWWA National Benchmark:**

<table>
<thead>
<tr>
<th>Distribution System Integrity Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Quartile: 12.3</td>
</tr>
<tr>
<td>Median Quartile: 33.5</td>
</tr>
<tr>
<td>Bottom Quartile: 65.5</td>
</tr>
</tbody>
</table>

*SJJC does not treat water and therefore has no employees for this activity

Staff Efficiency
This performance indicator provides a measure of overall staff efficiency with regards to overall operation.

**AWWA National Benchmark:**

<table>
<thead>
<tr>
<th>Customer Accounts Per Employee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Quartile: 718</td>
</tr>
<tr>
<td>Median Quartile: 508</td>
</tr>
<tr>
<td>Bottom Quartile: 382</td>
</tr>
</tbody>
</table>

*SJC does not treat water and therefore has no employees for this activity*
The Secondary Water division manages the delivery of irrigation water to approximately 3,500 South Jordan households by both gravity and pressurized distribution systems.

**Core Services**
- Secondary System Distribution Management (174 miles of irrigation line)
- Secondary System Repair & Maintenance (27 weirs to clean and maintain)
- 9 Pump Stations to operate and maintain

**Other Services**
- Water Education Events
- Special Event Support
- Snow Removal
- Inter-City and Department Support
- Emergency Response
The Secondary Water division manages the delivery of irrigation water to approximately 3,500 South Jordan households by both

- **Secondary Water Leaks**
  - 25 leaks responded to
  - 19 leaks on the City’s side
  - 6 leaks on the resident’s side

- **Volume of Water Delivered**
  - 4,995 acre feet

- **System Improvements**
  - 3 check dams added
  - 3 rotating screens added
  - 3 flow monitors added

25 leaks responded to

4,995 acre feet of water delivered
South Jordan City’s conservation program is on track to reduce water use by 25% by 2025. Gallons per capita per day (GPCD) was decreased by 3.2% during Fiscal Year 2016 - 2017.

Leak detection efforts were improved through an analytics portal and installation of a fixed network system.

South Jordan City is currently offering 4 water saving rebates. A total of 78 residents used these programs during the Fiscal Year 2016 - 2017.
Rebates

- 78 total water conservation rebates issued totaling $12,252
- 28 Water Wise rebates issued totaling $6,709.47
- 12 Toilet rebates issued totaling $1,900
- 8 Fixture rebates issued totaling $1,219.34
- 16 Drip Conversion kit rebates issued totaling $1,600
- 14 Rock Mulch rebates issued totaling $1,096.75
The Streets division maintains the roads, sidewalks, street signs, bridges and provides graffiti removal and snow removal. The Streets division services are rendered with an emphasis on best management practices, Federal requirements along with trained personnel in all related areas such as preservation of pedestrian safety, roadway striping, concrete and asphalt preservation programs, equipment maintenance, traffic management, data collection and reporting, and creative problem solving.

Core Programs
- Street Sign Maintenance/ Inventory and Management
- City Wide Street Striping
- Bridge Inventory and Maintenance
- Bridge Maintenance and Repair
- Traffic Control
- Snow Plowing
- Curb and Gutter Maintenance

Other Services
- Easement Inspection
- Resident and City Owned Tree Trimming
- Right of Way (ROW) Weed Control
- Development Infrastructure Review
- Alleyway Maintenance
- Collector Street Fencing Repairs
- Event Support
- Disaster Response/Debris Clean Up
- Asphalt and Concrete Recycling
- City Wide Fabrication

<table>
<thead>
<tr>
<th>Type</th>
<th>Centerline Miles Treated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt Sealer</td>
<td>12.14</td>
</tr>
<tr>
<td>Mineral Bond</td>
<td>10.64</td>
</tr>
<tr>
<td>Treatment</td>
<td></td>
</tr>
<tr>
<td>Crack Seal</td>
<td>14.7</td>
</tr>
<tr>
<td>Micro Surface</td>
<td>5.26</td>
</tr>
<tr>
<td>Chip Seal</td>
<td>1.2</td>
</tr>
<tr>
<td>Overlay</td>
<td>9.22</td>
</tr>
</tbody>
</table>

95% of pothole repair requests filled within 2 days

95% of pothole repair requests filled within 2 days
- 95% of pothole repair requests filled within 2 days
- 5,515 linear feet of sidewalk repaired or replaced
- 9,312 square feet of asphalt repaired (patching)

Street Sign Maintenance
- 370 signs repaired or replaced
Street Light Division

The Street Light division manages and maintains 6,000+ street lights within the City and growing at a rate of approximately 150 additional street lights each year. The Street Light division employees assist all City departments with their electrical needs, changes and repair in City buildings. Additionally, the division coordinates with Rocky Mountain Power to maintain an additional 830 street lights.

Core Programs
- Blue Staking Infrastructure
- City Wide Electrical Support
- Street Light Repair

Other Services
- Christmas Lights and Banners
- Snow Removal
- Disaster Response
- New Development Infrastructure Review

370 street signs repaired or replaced
5,515 linear feet of sidewalk repaired or replaced
9,312 square feet of asphalt repaired
215,350 pounds of glass recycled

202 special garbage pickups completed

1,033 neighborhood dumpsters delivered
Sanitation & Recycling Division

The Sanitation & Recycling Division administer and manage all solid waste and recycling services. The division provides residences with 96-gallon containers for garbage and recycling services and is responsible for the delivery and repair of the 40,000 containers. The City currently contracts with Ace Recycling and Disposal for residential curbside garbage and recycle pickup. The sanitation division also manages and performs the following programs and services.

**Neighborhood Dumpsters**
- 1,033 dumpsters delivered

**Glass Recycle**
- 215,350 pounds of glass recycled

**Leaf Drop Off**
- 54.98 tons of leaves collected

**Spring Clean-up Event**
- 178.7 tons of garbage collected
- 30.6 tons of green waste collected

**Special Garbage Pick-Up**
- 202 special garbage pick-ups performed
36.2 miles of storm pipe inspected
3,181.1 miles of curb and gutter swept
23,291 feet of storm pipe cleaned
4,898 UPDES related inspections performed
The Storm Water Division is responsible for the maintenance, cleaning and inspection of storm water infrastructure within the City. They ensure that it is working properly during storm events to mitigate flooding and any subsequent damage. This includes street sweeping, which prevents debris from entering the storm drain system thus hindering it from functioning properly. The Storm Water Division is also responsible for maintaining compliance with Federal and State permits in conjunction with the Clean Water Act. Some of the activities to maintain compliance include public education and outreach programs, location, investigating and eliminating illegal discharges into the storm drain system. They also monitor and enforce runoff and erosion control processes concerning construction activities and minimizing adverse impacts on storm water quality after construction.

Core Programs
- Utah Pollutant Discharge Elimination System (UPDES) compliance
- New Development Infrastructure Review
- Flood Prevention
- Storm Water Infrastructure Maintenance
- Street Cleaning
- Snow Removal
- Storm Water Incident Response
- Storm Water Education
- Tree Trimming Support
- Disaster Response
- Sub-surface Drain Response
- Event support

Other Services
- Storm Water Incident Response
- Sub-surface Drain Response
- Storm Water Education
- Disaster Response
- Tree Trimming
- Snow Removal

TV Truck
- 36.17 miles of storm pipe inspected

Vactor Truck
- 23,291 feet of storm pipe cleaned

Street Sweepers
- 3,181.1 miles of curb and gutter swept

UPDES Program Compliance
- 4,898 inspections performed
5.57
average age of fleet

1,582
fleet repair orders processed

85.61%
of preventative maintenance measures performed on time

1.1%
comeback rate
The division is responsible for the maintenance, repairs, replacement and disposal of 334 pieces of equipment ranging from lawnmowers to fire trucks. The division is also responsible for the acquisition and maintenance of an on site bulk fuel station. The Fleet Division has received the ASE Blue Seal of Excellence Award since July 2013.

**Work Requests**

- 1,582 fleet repair orders processed
- 85.61% of preventative maintenance measure performed on time
- 1.1% comeback rate
City Cemetery

Every effort is made to maintain the cemetery with the respect deserved of the deceased. Our staff works with funeral directors and the public to ensure the burial portion of the death process is handled professionally and with compassion for each individual’s needs.

Core Programs
- Facilities Maintenance
- Grounds Maintenance
- Burial Services
- Irrigation maintenance
- Holiday Programs
- Marketing and Sales