

CONTENTS

Director's Message	2
Financial Overview	2
Administration	4
Airport	5
Engineering	6
Maintenance	8
Parks & Open Space	10
Wastewater	12
Public Works Day	
<i>inside back cover</i>	

mission, vision and values

Vision

Making lives better through the services we provide each day.

Mission

Eugene Public Works is dedicated to excellence, integrity and stewardship. We enhance the safety, welfare and livability of the community by providing and managing infrastructure and services for parks and open spaces, airport, transportation, stormwater and wastewater systems.

Values

Excellence

- We demonstrate a high degree of competency



- We prepare for today and plan for tomorrow
- We pursue innovation

Integrity

- We are dependable and responsible
- We highly respect and value the public's trust
- We are available and responsive
- We are dedicated to inclusiveness and accessibility
- We are committed to respectful, open and transparent processes
- We bring people together for common cause and purpose

Stewardship

- We preserve the health and safety of employees and the community
- We protect public investments
- We work toward social equity, environmental enhancement and economic prosperity

goals and objectives

The Public Works Department Annual Report is structured around the foundation created by the FY17 Strategic Work Plan. Both documents serve as tools to help the department plan and measure its work, resources and effectiveness in controlling costs while providing quality public service.

Prior to each fiscal year, the Public Works leadership team review the department’s vision, mission, values and strategic goals and their relevance. Each of the projects and programs detailed in this report satisfy at least one of the department’s five strategic goals.

- 1 Develop, support and retain an exceptionally qualified, healthy, well-trained work force to thrive in a changing world**
- 2 Establish sustainable funding for public works services**
- 3 Build and provide a full range of transportation options**
- 4 Protect, maintain and improve natural and built infrastructure**
- 5 Strengthen internal and external working relationships**

Division Article	Goal				
	1	2	3	4	5
Administration pg. 4					
Equity and Human Rights Plan Complete	•				•
Diversity Snapshots Share Experiences	•				
Downtown Wayfinding Program Update				•	•
City Receives \$1.6 million for Clean up		•			•
Airport pg. 5					
Airport Growth and New Service			•		•
Grand Re-Opening for Terminal Expansion	•	•	•		
Long Hours for Airport Staff				•	
Engineering pg. 6					
New GIS Browser			•	•	
Transportation System Plan Adopted			•		•
Collaboration Benefits Rivers				•	•
Sunday Streets Sets Record		•		•	
Maintenance pg. 8					
Smoke Testing				•	
Task Hazard Assessment	•				•
Fibers Reinforce Park Grounds				•	
Gravel Street Partnership		•		•	•
Winter Operations Lessons			•	•	•
Crews Respond to Ice Storm				•	
Parks & Open Space pg. 10					
Parks Certified Salmon-Safe				•	•
Charnel Mulligan Renovation				•	•
Protecting Clean Water				•	•
System Plan Wins Award				•	•
2021 for 2021				•	•
Extensive Tree Damage				•	•
Wastewater pg. 12					
Building Improvement Projects				•	
Septic Waste Services		•			•
Digester Construction				•	
Drug Take Back Program				•	•
Power Outages Threaten Pump Stations				•	

from the director



*Sarah Medary,
Interim Director*

As much as I like to look forward, reflecting on the accomplishments of FY17 is a vivid reminder of the rewards of serving a community. Even on the iciest and most treacherous of days, Eugene Public Works will make lives better through the services we provide.

In 2017, the theme of Public Works week was “Public Works Connects Us.” In Eugene, the value of that connection was tested to the extreme with three separate ice and snow events in a 28-day period. As trees and power lines descended, and power was lost across the city, our team quickly moved into action. The spirit of connection kept staff at work for approximately 60 shifts as we partnered with the region’s utility providers, emergency services and private industry to make our city safe. The leadership and endurance of Eugene Public Works reflected the excellence and integrity of our employees and services.

While this annual report is about Fiscal Year 17, it is impossible to write about our accomplishments without acknowledging the loss of one of our organization’s greatest connectors, Kurt Corey, after a courageous battle with cancer. As the Public Works Director, Kurt’s leadership and dedication to delivering world class services made Eugene a better place to live, work and play. He’ll always be known for “doing the right thing” and caring about each person he met as if they were his closest of friends.

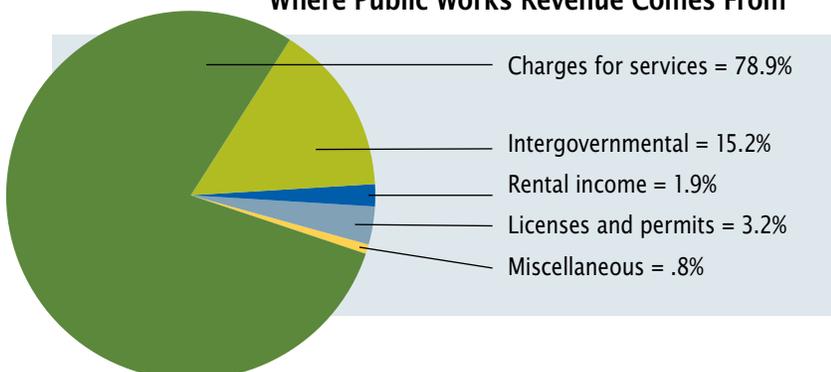
As you look through this report, you will see many examples of innovation and excellence in service, which is at the heart of Eugene Public Works.

financial overview

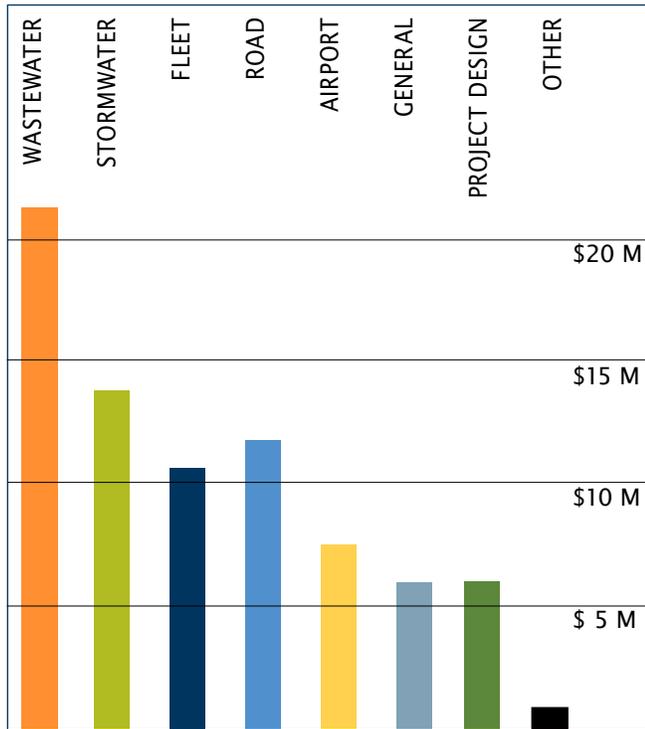
The department is committed to finding sustainable funding for its many services including fees, charges and intergovernmental revenue. These opportunities have allowed the department to establish a relatively stable resource base on which to set operational priorities. For these services, the challenge is to respond to the expectations of the community, meet legal requirements, and at the same time, maintain reasonable fees and charges.

Examples of charges for services include stormwater user fees, wastewater user fees, and airport-related fees. The primary intergovernmental revenue is the State Highway Trust Fund.

Where Public Works Revenue Comes From



Operating Expenditures by Fund
\$ 77.7 million total



The General Fund supports a relatively small portion of Public Works operations (\$5.9 million, primarily for park operations). For these services, including addressing safety concerns inside City parks, the department collaborates with other departments and elected officials to set priorities and explore the potential for new funding sources.

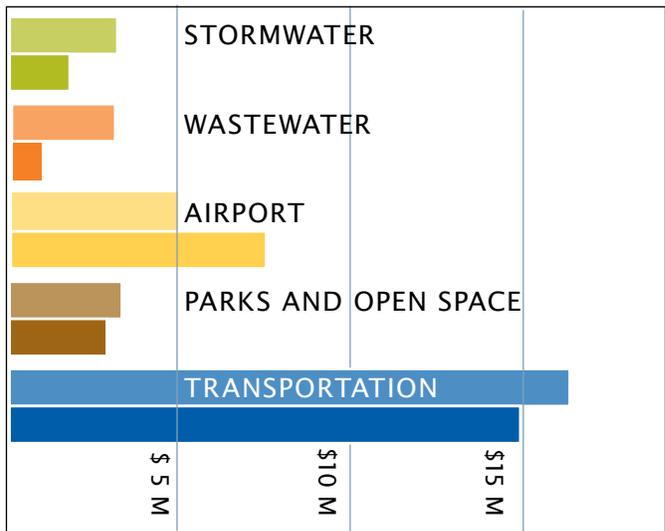
On June 30, 2017, Public Works had 423.35 full-time-equivalent (FTE) positions budgeted in six divisions:

- Administration** — 16 FTE positions
- Airport** — 38.5 FTE in four sections
- Engineering** —76 FTE in five sections
- Maintenance** — 130.25 FTE in five section
- Parks and Open Space** — 79.1 FTE in four sections
- Wastewater** — 83.5 FTE in four sections

Public Works also manages a broad-based capital program. The department collaborates with the community and other organizations to prioritize the use of resources. In FY17, the department received approximately \$30.9 million in capital revenue. Additionally, the department invested \$28.3 million in capital projects including transportation, airport, utility, and parks infrastructure. Because of the amount of time it takes to plan and construct capital projects, there often is not a direct correlation between the year capital funds are received and the year in which they are spent on specific projects.

Capital Revenue/Expenditure by System

■ Capital Revenue FY17 \$30.9 million total
■ Capital Expenditure FY17 \$28.3 million total



For a detailed review of FY17 financial information, consult the City's Comprehensive Annual Financial Report (CAFR) located at eugene-or.gov/index.aspx?NID=107.



*Lacey Risdal,
Director*

Equity and Human Rights Plan Complete

One of the department's guiding internal documents is complete and ready for implementation. Staff finished the Equity and Human Rights Plan in the spring of 2017. The plan has three goals:

- Foster a work environment that's supportive and inclusive of all employees and provides opportunities for professional growth and development.
- Ensure City services are accessible, inclusive and equitable
- Continuous improvement of engagement among employees and with the community

Staff will work over the next five years to implement the actions laid out in the plan with the intent of making the City a better place to work and live.



Downtown Pedestrian Wayfinding Program Continues

A project to create a more eye-catching, coordinated, and connected downtown continues to progress. Staff in February presented the second phase of the Wayfinding Project to the Eugene City Council. The project was well received and generated a growing interest from downtown merchants.

The project, which started in 2015, is intended to orient people who walk through Eugene's landscape while bringing visibility to Eugene's arts, culture and natural amenities. The project is currently in the second of three phases and is connected to several other ongoing projects such as PlaceMaking, Riverfront Development and BikeShare. Travel Lane County, the Arts and Business Alliance of Eugene, several City departments are collaborating to develop this new wayfinding program.



City Receives \$1.6 Million for Ice Storm Recovery Efforts

Through meticulous record keeping and positive working relationships, Public Works qualified to receive more than \$1.6 million in reimbursements from the federal government from the December 2016 ice storm. Staff worked hand-in-hand with Federal Emergency Management Agency (FEMA) officials to record and file the appropriate documentation to recoup some of the money spent cleaning up after the storm.

During an interview, the FEMA representative working with the City applauded the response and said, "being proactive, they're taking care of their own business and being responsible for their community."

Diversity Snapshots Share Personal Experiences

The Public Works Diversity Committee developed a new series of short, targeted employee trainings titled Diversity Snapshots. Snapshots provide diversity training opportunities for public works employees and typically feature one or two people sharing their story. The first Snapshot was held in September, 2016, and focused on two veterans who shared their experiences and answered questions on what it's like to be a veteran in today's world. Subsequent snapshots have focused on homeless youth, immigration, and social impact tourism.



*Tim Doll,
Director*

Airport Growth a Product of Larger Aircraft and New Service

Eugene Airport officials reported record passenger gains in 2016 and as of June 30, 2017, the airport was up six percent over the same period the previous year.

In 2016, United Airlines introduced mainline aircraft service between EUG and San Francisco International Airport (SFO) as well as Denver International Airport (DEN). The larger aircraft, Airbus A319s, A320s and Boeing 737s, attributed to an estimated 20 percent increase in the number of seats available on the EUG-SFO route alone.

In January, 2017, Delta began daily service from EUG to Seattle-Tacoma International Airport (SEA). The three daily departures and arrivals provide passengers with additional options for connecting to the many international flights that Delta offers out of Sea-Tac.

American Airlines began service between EUG and Phoenix Sky Harbor International Airport (PHX) in June, 2017, an addition the air service development team at Eugene Airport has been working on for several years. These new connections provide local passengers more options for connecting to east coast destinations.



Grand Re-Opening Caps Terminal Expansion Project

In January, 2017, officials at Eugene Airport announced the completion of a multi-million dollar terminal expansion project that began in November 2014. The remodel focused on several areas including the security screening checkpoint, B-gate hold room, A-gate concourse and the baggage claim area, with a goal of easing congestion and improving functionality for passengers.

The total project cost was \$19 million, with funding from Federal Aviation Administration Airport Improvement Program grants, Passenger Facility Charges and airport revenue. The airport project was completed without incurring any debt.

Members of the media and the public were invited to attend a ribbon cutting ceremony on January 3, 2017, to commemorate the completion of the terminal expansion project that began in November, 2014.

Long Hours for Airport Staff Keep EUG Flying

The ice, snow and freezing rain brought many challenges to teams on the ground, but the airport managed to stay operational through almost all of the inclement weather. More than 50 trees on airport property were damaged or destroyed, thousands of gallons of deicer were used on surfaces and aircraft, and team members worked 12-hour shifts for five days straight. Airlines suspended flights for one day, while the terminal remained open for all but 12 hours of the storm.





*Mark Schoening,
Director, City
Engineer*

New GIS Browser Apps Improve Work Flow

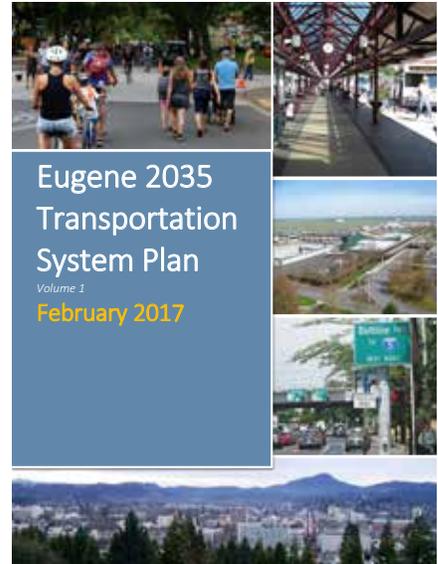
The Engineering Division developed three new browser-based GIS apps:

- GeoDart 4
- Sidewalk Ramp Inventory
- Illicit Discharge Trace

The GeoDart app (known as GD4) can be viewed internally by City staff and provides browser access to map layers and associated attributes. The Sidewalk Ramp Inventory app enables specific staff to update the City's sidewalk ramp attributes, while the Illicit Discharge Trace app enables specific staff to isolate sewer pipes to find a contamination source.

Collaboration Helps Create Cleaner, Healthier Rivers

Floodplains and stormwater are hydrologically connected but managed separately under different environmental laws. If the effects of storms and floods on rivers and floodplains are connected, why shouldn't their management be? A [new report](#) produced by the Willamette Partnership, in collaboration with the Oregon Association of Clean Water Agencies, offers nine ways to start integrating stormwater and floodplain management for cleaner, healthier rivers.



Transportation System Plan Adopted by City Council

The Eugene City Council in late-June adopted the Eugene 2035 Transportation System Plan (TSP). The TSP serves as a 20-year blueprint for Eugene's transportation system and has a goal of tripling the percentage of trips in Eugene that are made by foot, bike or bus.

The TSP is divided into sections that show how the TSP addresses other city plans and policies, include a robust set of new transportation policies and actions, provide a list of the capital transportation projects to be built over the next 20 years, and identify the projected revenue for transportation investments.

As part of adopting the TSP, the Council adopted resolutions that require more detailed planning to integrate climate recovery, Vision Zero and electric and autonomous vehicles into the TSP within the next year. The TSP years-long process included considerable community involvement from a wide range of stakeholders. More information about the Eugene 2035 TSP can be found at EugeneTSP.org.

Sunday Streets Smashes Attendance Record

Eugene Sunday Streets, the program aimed at engaging the community and promoting active transportation and healthy lifestyle choices, continued to grow by leaps and bounds. More than 10,400 people attended the two events in the summer of 2016, an increase of more than 45 percent over 2015!

The events, one in downtown and the other in the South University neighborhood, created a safe place for people to walk, ride, and roll through the streets, enjoying a wide variety of activities along the way. The events, hosted by Engineering's transportation options team, grow in popularity every year and show that people enjoy going outdoors, getting active, and getting to know their neighbors.



Debris Storage Challenge



The 2016 ice storm provided insight into debris management that Public Works will apply to a larger scale emergency event such as a Cascadia subduction zone earthquake. The storm's wide-spread damage prompted Engineering staff to continue development of the City's debris management annex. They will use this knowledge to help address unmet challenges such as forecasting the quantity of debris and identifying land sites large enough to handle the collection, recycling and management of debris from natural disasters.



*Michelle Cahill,
Director*

Smoke Testing 2017

Subsurface maintenance crews in the summer of 2017 smoke tested 251 sanitary sewer line segments in the Churchill, Far West and Southwest Hills neighborhoods. While they didn't find any major defects, they did identify cracks in both the public and private sanitary sewers, as well as leaky manholes and downspouts connected to the sanitary sewer system.

Smoke testing identifies defects and improper connections to the sanitary sewer system. Crews blow non-toxic smoke into the sanitary sewer system and look for any smoke that comes out where it shouldn't. The work helps staff prioritize work on both capital and maintenance efforts and to support the wastewater computer flow model.



Safety Improvements—Task Hazard Assessments (THA)

As part of efforts to continually improve safety, Maintenance began implementing a new Task Hazard Assessment (THA) process. The THA improves on the old Job Hazard Assessments (JHA) by breaking each job down into smaller tasks and includes hazards not captured in the old JHA such as equipment, ergonomic, and environmental hazards. The THA is designed to be completed quickly, be more usable, and be developed by the experts—those who perform the work. Lastly, staff eliminated redundancy by creating three types of tasks: common tasks performed by all staff (like driving), shared tasks performed by multiple work teams (like work zones) and unique tasks (like traffic markings).

Over the next year, Maintenance will continually update tasks until all are completed, and will determine how best to store, share and update them.



Tiny Fibers Provide Needed Reinforcement

With the goal of stabilizing park grounds, crews mixed thousands of sheets of tiny fibers into the ground at Maurie Jacobs Park. The park contains the city's largest stormwater facility, a giant, underground vault. Large, heavy trucks are needed to clean the facility, and they often damage the grass. The fiber sheets, each slightly larger than a postage stamp, were mixed into the ground to reinforce the grass around the vault. They allow grass roots to grow together and spread the surface load out across a broader area. The fibers have helped keep the soil intact during the vault cleanouts and keep soil repair to a minimum.

Gravel Street and Alley Partnership

FY17 saw continued interest from property owners in the relatively new Gravel Partnership Program. This program establishes a cost sharing partnership to facilitate unimproved street surface repairs. Property owners apply through an application process, and surface maintenance provides a written estimate of the proposed project scope. The property owner(s) only pays for the material portion of the project. Work is performed in-house or by a City authorized contractor.

Property owners may also apply to have a gravel street or alley be considered for an asphalt overlay. In FY17, three projects were completed and involved both grading gravel streets and paving an existing gravel street. A recent example is 390 feet of new pavement near West 29th Avenue and Lorane Highway. This project provided a greatly enhanced driving surface and eliminated dust for the property owners at a reasonable level of investment.



Winter Operations — Lessons Learned

Several rounds of freezing weather taxed the region's deicer supply, including the City's. Although staff continued to make roads passable, additional deicer would have been helpful. In reviewing the storm and its impacts, Public Works Maintenance staff purchased an additional 10,000 gallon liquid deicer storage tank which more than doubled their current capacity. They also added a second vendor to help meet product needs during extreme events.

Crews Respond to Crushing Ice Storm



The 2016 ice storm brought down trees and limbs throughout the city, blocking off roads and crippling the transportation system. Maintenance staff worked around the clock to open more than 50 streets, remove all immediate hazards and help restore access to services for the community.

Because of the widespread damage, crews often needed to leave debris on the first run, and so the sweep was repeated to collect downed material. In all, they logged thousands of hours and picked up more than 1,000 truckloads of fallen trees, limbs and leaves from city parks and street rights-of-way.

parks & open space



*Craig Carnagey,
Director*



Eugene Parks Achieves Salmon-Safe Certification

The Eugene parks system has been certified by Salmon-Safe, a Portland-based nonprofit transforming land management practices so salmon can thrive. With the certification comes recognition for reducing the impacts from urban park operation and management on water quality and fish habitat across Eugene's 4,780 acres of land in 130 parks, natural areas and special use facilities.

2021 for 2021

In 2017, urban forestry kicked off the 2021 for 2021 tree planting effort aimed at offsetting carbon emissions from the IAAF World Track and Field Championships coming to Eugene in 2021. Working with local partners, urban forestry will be planting 2,021 giant sequoia trees in parks and along streets while helping homeowners, schools and businesses plant beautiful sequoias in their own yards. Trees are a vital part of Eugene's green infrastructure and giant sequoias were chosen because they are resistant to damage and very efficient at removing carbon from the environment.

Charnel Mulligan Renovation

Once plagued with illegal activity, a revitalized Charnel Mulligan Park opened to the sounds of visitors of all ages enjoying new park amenities. Fun new features include a bigger playground, basketball half-court, plaza, park furnishings, and sand and water play.

The park's makeover began in 2012 with a goal to address the age and condition of the park, as well as years of negative activity. Increased visibility, circulation and lighting have also improved safety.

The project was made possible by 1998 park bond funding, System Development Charges (SDCs) which are assessed on new construction in Eugene, and a Community Development Block Grant from the U.S. Department of Housing and Urban Development. The Jefferson Westside Neighbors also raised \$15,000 for the sand and water play area, and supported the project every step of the way. The neighbor's fundraising efforts were backed by a \$2,300 grant from the Eugene Association of Realtors.





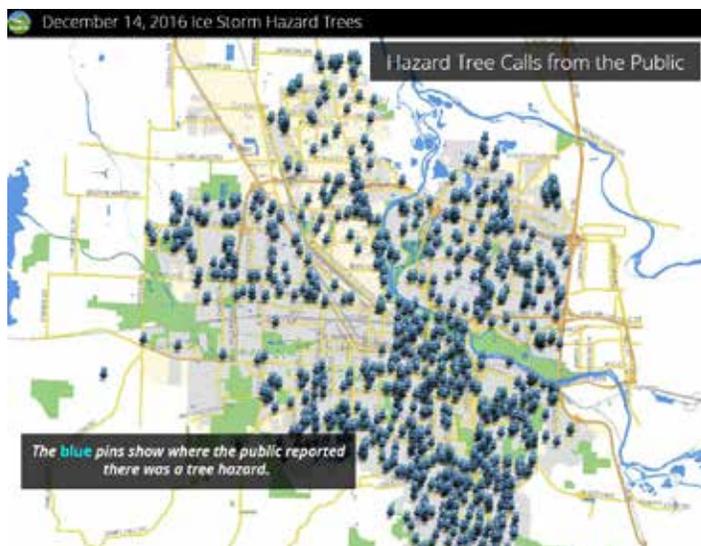
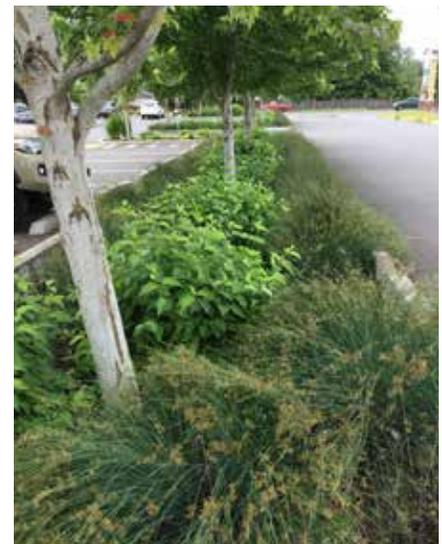
System Plan Engagement Efforts Receive Top Award

In the creation of the Parks and Recreation System Plan, a 30-year vision for the future of Parks and Recreation, it was imperative to engage the public in the process. Rather than simply holding workshops and open houses, the staff team leading the System Plan were determined to go to the people.

The Ash Center for Democratic Governance and Innovation at the John F. Kennedy School of Government, Harvard University, recognized Little Red and the pop-up as part of the 2017 Bright Ideas in Government initiative. Little Red spontaneously popped up at 40 community hubs throughout Eugene at events, parks and retail parking lots, successfully reaching more than 4,000 residents in its first two summers of operation.

Protecting Clean Water

The Stormwater 'Green' Infrastructure Maintenance (SWiM) team continues in their role of promoting clean water through managing maintenance activities for vegetated stormwater facilities (example below) on public and private properties. These facilities slow, filter and absorb runoff after a rainfall and are key to ensuring water is clean before it enters Eugene's waterways. In 2017, there were 83 new public facilities added to the City's green infrastructure and 119 private facilities built within the city of Eugene.



Extensive Tree Damage Inspires Custom Tracking App

Public works maintenance and parks staff formed 50 field response crews assigned directly to storm cleanup. To maximize efficiency in coordinating this effort, a web-based app was created and proved invaluable for emergency management staff.

Starting on day one, skilled tree scouts worked methodically throughout the city to canvas priority routes—high-traffic roadways and areas where fall-

ing trees could damage property or injure the public. Eventually every street, park and trail in Eugene was evaluated. At each spot, tree-related hazards were recorded in the app. Details included the severity of the hazards, exact locations and photos. This in turn allowed crews to see the location of downed trees and limbs, determine who should respond and what equipment would be needed for each situation.

In addition to its use during the storm, the app was a great help in post-storm evaluations of the operations and providing data for the FEMA financial assistance request (see article on page 4).



*Dave Breitenstein,
Director*



Building Improvement Projects

A new water quality laboratory building is under construction as well as the expansion and remodeling of the existing maintenance building. In 2016, the Metropolitan Wastewater Management Commission (MWMC) awarded the \$18.8 million contract to Wildish Construction, planning for completion in early 2019.

Septic Waste Services

For septic system users, including residential and commercial sites not connected to the regional sewer system, service providers are hired to pump out septage and truck it to the treatment plant. Currently, 13 septic hauler companies are registered and licensed by Oregon DEQ and permitted by the City to offload at the plant at a rate of \$0.127 per gallon. In 2017 more than 6.5 million gallons were received and treated at the plant.

Digester Construction Underway

The treatment plant will soon add a fourth anaerobic digester to provide increased capacity and meet anticipated growth needs for the Eugene-Springfield region. The treatment plant currently includes three anaerobic digesters to process biosolids, each with a capacity of one million gallons.

Drug Take Back Program

To prevent toxins from leaching into the groundwater and to reduce maintenance cost, Wastewater educates the public on sewer system best practices, which include not flushing unwanted or outdated medicines down the toilet. In collaboration with Eugene Police, Springfield Police, and Lane County Sheriff departments, Wastewater funds and maintains drug take-back boxes where the community can deposit pharmaceuticals. Regionwide, roughly 15 pounds of unwanted or expired drugs are collected per week.

Ice Storm Power Outages Threaten Pump Stations



In mid-December 2016, freezing rain and ice triggered intermittent power outages throughout the wastewater treatment system, and more than tripled the average amount of wastewater usually treated during winter. Maintenance crews deployed generators to pump stations that lost power, cleared trees and debris from the facilities, and ensured that the regional sewer system experienced no overflows, meeting all DEQ permit requirements despite the disaster.

public i orks Vay

It's all about the kids!

A quick scan of the faces roaming the Roosevelt Yard made it clear that Public Works Day was again a success. More than 2,700 people enjoyed the nice weather and toured the Yard on May 18.

The annual event is an opportunity for people to learn about the many services the City provides. Teams from every division and partners from police and fire clean up their equipment, set up displays and demonstrate how we make lives better through our work each day.

There were a few new booths this year, including a combination of a popular tailgating game with a trendy emoji (below). Children threw a distinctive bean bag onto a board outfitted with a toilet seat. Wastewater devised the game to educate young people on what does and doesn't go into the toilet. A team from Vision Zero shared their ideas about safety for walking or biking on busy streets.



I liked when we rode the wagon around the yard.— Liam & Jocelyn

I liked when we got to climb on the police car.— Sahara

I liked when we got to pet the fire dog.— Jessica



I liked when we looked up our school in GIS.— Hunter & Carson

What our fans* say:

Thank you for the awesome field trip today! — Erik



I liked it when we picked up the trash with the grabbers and save the Earth.— Owen



I liked crawling through the pipe.— Lydia

I liked when we met the little newts.— Ayden & Ashley

I really liked when I got to see the leeches.— Mac

I liked when we looked at the pond animals in the park section.— Rachael



A popular emoji and a toilet— who could resist?

I liked when we sat in the firetruck.— Kevin

I liked how we said, "Hi" to the frog costume.— Elijah

I liked where we "drove" the wooden cars in Tiny Town and sign safety.— Harmony

*Comments from our 1st grade friends at McCornack School. Thanks to their teacher, Dana Marks, for sharing these with us!



Eugene Public Works

101 E. Broadway, Suite 400

Eugene, OR 97401

eugene-or.gov/pw