



2021 Accomplishments



Capital (Biennium)

- Budgeted – \$52 Million (2021 & 2022)
- Actual Spend – \$14 Million (2021)
- Projected Spend – \$39 Million (2022)
- Installed Pipe – 3162 LF (2021)
- Rehabilitated Pipe – 4955 LF (2021)

Treatment & Green Projects in Design or Construction

- Madison District – Approx. 25 acres infiltrated in the Flett Creek Watershed
- Manitou Neighborhood – Approx. 13 acres infiltrated in the Flett Creek Watershed
- Larchmont District – Approx. 28 acres infiltrated in the Flett Creek Watershed

Asset Management

- 88% of system inspected & ranked (by length)



Asset Management

- Identification of pipes needing to be replaced or rehabilitated.
- Development of partnering projects with Public Works and Water.
- Development of 6-yr Capital Improvement Plan
- Work currently focused on:
 - Inaccessible pipes (due to location or past inspection methods)
 - Follow-up inspection to see impact of maintenance





●●● Planning Efforts & Facility Projects

Flett Basin Stormwater Infiltration Feasibility Study – 2023

Leach Creek Holding Basin Improvements – 2023

Watershed Plan – 2022/2023 (Stormwater Facility Prioritization)

Stormwater Comprehensive Plan – 2023/2024 (update with ESC in November)





Collection System Projects

- Jefferson & Hood St Interceptor Project 2022
 - Includes upsized pipe and new outfall
- System rehab projects generated by Asset Management
- Participation in Prop 3 – storm extensions



Collection System Partnership

Partnerships with Street Initiative

Prop 3 & Prop A

- 10-year voter approved funding for street repair/improvement
- Work on 70% of the residential road network

Work closely with Public Works on street selection

- Target areas where ES already has planned pipe replacements
- Add drainage improvements to the areas as part of the project
- Budgeted \$1.5 M per year

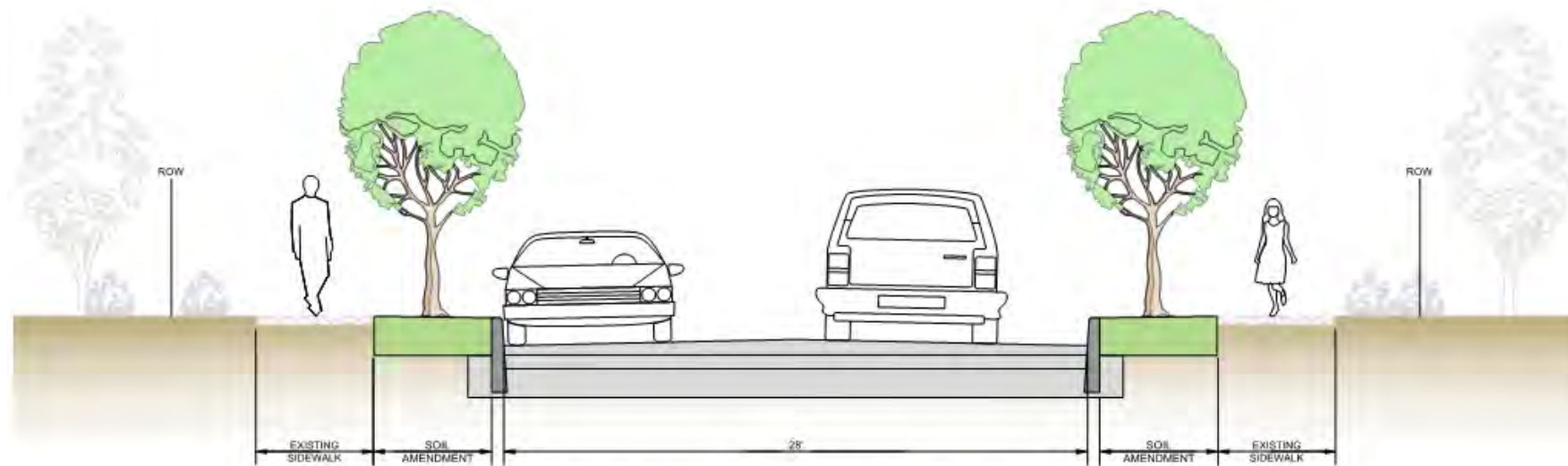
PW contributing toward ES projects for additional road improvements



Green Infrastructure & Treatment

Future Green Infrastructure and Treatment Projects

- Upper Buckley Treatment – Basic stormwater treatment for Approx. 350 Acres
- Titlow Stormwater Treatment Feasibility/Design - Enhanced stormwater treatment for Approx. 380 Acres



Proposed Roadway Section - Pervious Pavement with Traffic Curb



Open Space

Objectives

- Implement Management Plans
- Increase Restoration Volunteer Opportunities
- Leverage Metro Parks Partnership
- Acquire Properties as appropriate
- Provide Public Education
- Support Urban Forestry and Climate Action Plan Goals





Stormwater Management



NPDES Stormwater Phase 1 Permit Compliance

- The updated SWMM equivalent to Ecology's Stormwater Manual July 2021.
- The TMC 12.08 - separate code sections for WW, SW and WW Pretreatment.
- Continuing Stormwater NPDES Phase I Permit compliance activities.
- Received a \$50,000 capacity grant from Ecology for compliance activities.
- Developed and distributed an illicit discharge awareness training for all staff.
- Started a new stewardship program for education and outreach. The Adopt-a-Drain program has over 97 participants.
- In 2022 will be updating operational SWPPPs for certain sites required to have operational SWPPPs for the Permit.
- EPA NPDES Stormwater Permit for discharge into Tribal Waters. EPA is currently reviewing our comments.

Environmental Cleanups



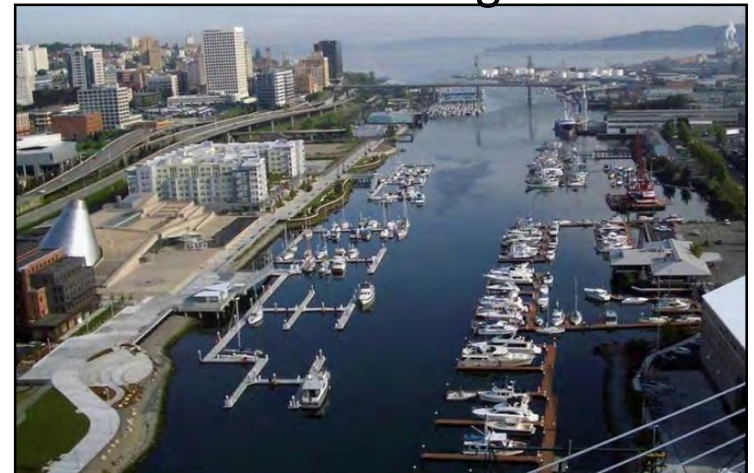
Foss Waterway

Monitoring of Stormwater Discharges

- 98% of trends, all decreasing
- Maintaining improvements

In-Waterway Long Term Monitoring Plan in place through 2028

- Monitoring events will occur 2023 & 2028
- Working with EPA on final approval of the remedial action & delisting of this portion of the Commencement Bay Superfund Site. Monitoring will continue.





Street Sweeping

- Reduced Residential Street Sweeping to only once a year in 2019
- Restored residential street sweeping to twice per year in 2021
- Increased frequency of arterial street sweeping in 2021





Overview of Solid Waste Management

Presenter:

Andy Torres, Assistant Division Manager

Solid Waste Collections Operations

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ESD Strategic Plan Focus



CUSTOMERS

Partner with our community on customer-valued services to meet the diverse needs of our neighborhoods

EMPLOYEES

Foster a safe culture built on trust, conversation and equity

OPERATIONS

Operate using best practices and innovation to meet changing environmental and community needs

HEALTHY NEIGHBORHOODS + THRIVING PUGET SOUND = A BETTER TACOMA



CUSTOMERS

- 56,930 residential customers
 - Single family residences and duplexes
 - Bundled garbage, recycling, and yard waste
 - 2 Call-2-Hauls per year
- 5,274 commercial customers
 - Garbage – City of Tacoma franchise
 - Recycling and Yard/Food– open market

CUSTOMER BASE

Customer Class	2017	2018	2019	2020	2021
Residential	55,608	55,896	56,250	56,718	56,930
Commercial	5,363	5,346	5,284	5,190	5,274
Total Customers	60,971	61,242	61,534	61,908	62,204



EMPLOYEES

Solid Waste Management

On-Site Operations
53 employees

Collections Operations
107 employees

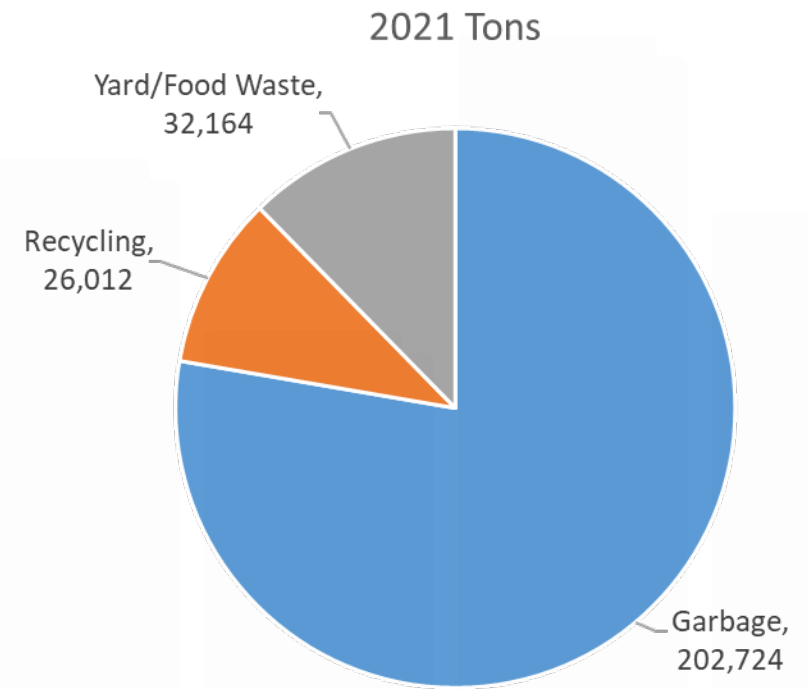
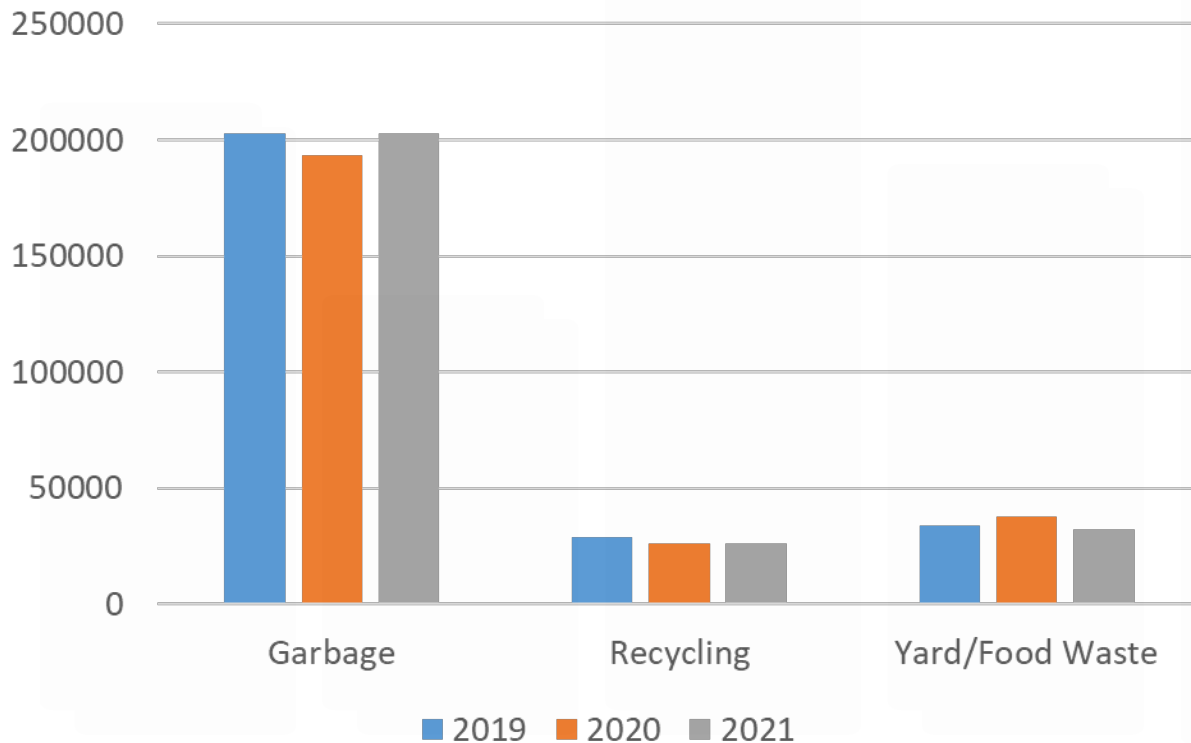
Support Services
16 employees





OPERATIONS

OVERALL DISPOSAL AND RECYCLING TONNAGES 2021





Budget

<i>2021</i>	<i>Budget</i>	<i>Actual</i>	<i>Variance</i>
Revenue	\$74.9M	\$83.7M	(\$8.7M)

<i>2021</i>	<i>Budget</i>	<i>Actual</i>	<i>Variance</i>
Capital Expense	\$18.6 M	\$11.9 M	(\$6.7 M)
Operations Expense	\$65.6M	\$70.4M	\$4.7M
Total Expense	\$84.2M	\$82.2M	(\$1.9M)



Facilities

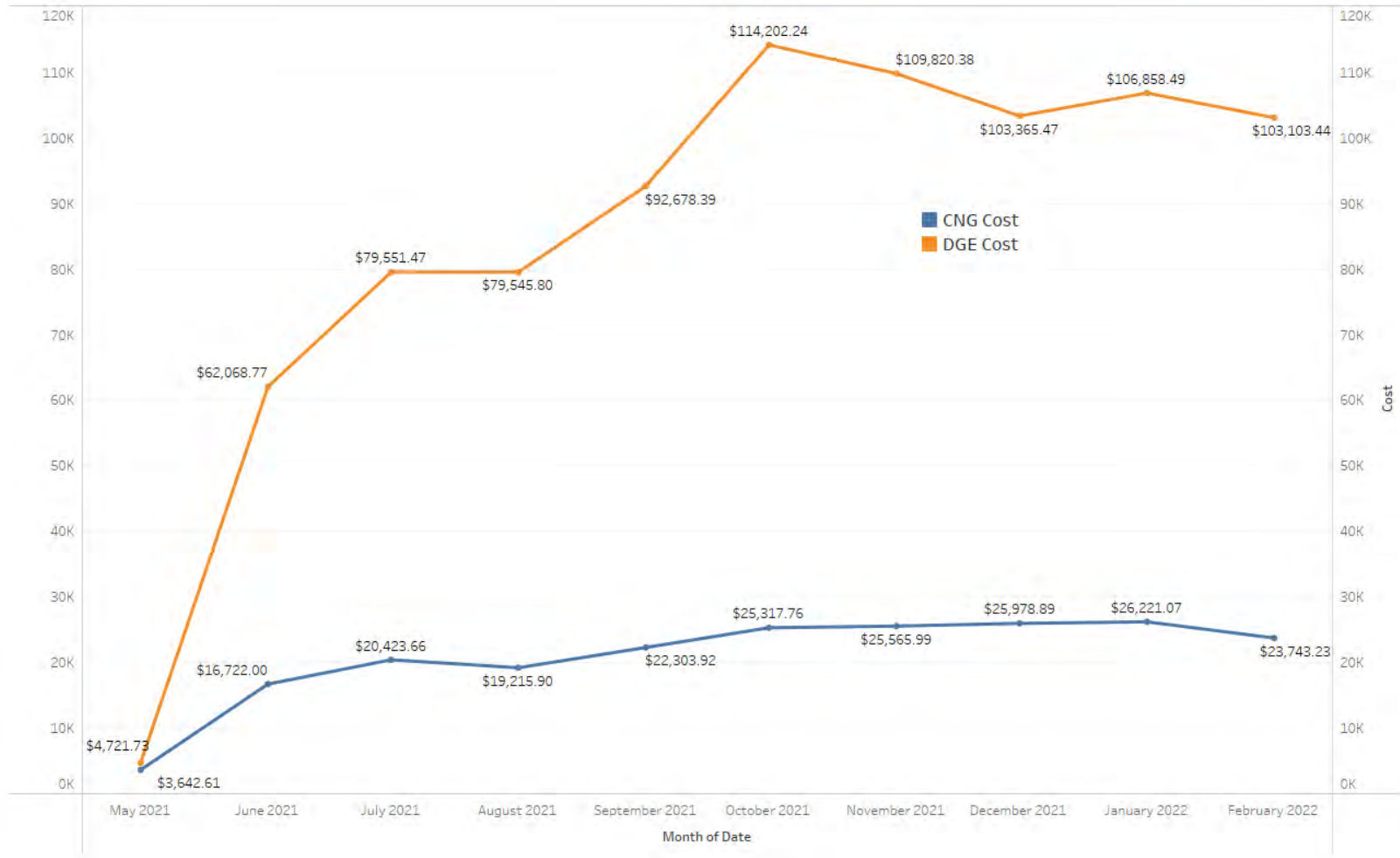
- Tacoma Recovery and Transfer Center
 - Recycle Center
 - Household Hazardous Waste
 - Transfer Center
 - Landfill Environmental Systems
- Collection Operations
 - Truck parking lot
 - Fleet Maintenance Shop
 - Container Storage & Maintenance
 - CNG Fueling Infrastructure





Recent Accomplishments

- CNG Fuel Station Upgrade completed 2021
- 14 CNG trucks added in 2021 for a total of 47 CNG trucks





Recent Accomplishments

- Recycle Reset Education and Outreach: **Transcreation**, or creative translation, uses multicultural market research, localized language and design to transform materials into another language. Some examples of specific changes:

1. Quad layout with less material types

The poster is titled "Final Vietnamese Poster" and is designed for a Vietnamese audience. It features a quad layout with four main sections: "Nhựa" (Plastic), "Kim loại" (Metal), "Giấy" (Paper), and "Thủy tinh" (Glass). Each section includes images of recyclable items and text in Vietnamese. A large number "1" is placed in the top left corner of the poster. To the right of the poster, there is a section titled "RÁC" (Garbage) with a large number "2" and a yellow circle highlighting a specific item. Below that, there is a section titled "ĐEM BỎ" (Dispose) with a large number "3" and a red circle highlighting a specific item. The poster also includes a QR code and contact information for "tacomarecycles.org".

2. Culturally relevant material types

3. Key messages



Overview of Office of Environmental Policy and Sustainability

Presenter:

Jim Parvey, P.E., LEED AP, Division Manager, OEPS

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Overview



Office of Environmental Policy and Sustainability



ENVIRONMENTAL POLICIES



URBAN FORESTRY



ENVIROCHALLENGERS



SUSTAINABILITY SMALL GRANT



GREEN BUILDING



ENVIROHOUSE



SUSTAINABLE TACOMA COMMISSION



WASTE PREVENTION



EDUCATION & OUTREACH

Recent Accomplishments



The CAP outlines 64 climate actions with a deadline of 2024 to address the largest sources of community greenhouse gas (GHG) emissions, including consumption, transportation, industry, and buildings, as well as prepare for local climate impacts, such as wildfire smoke, extreme heat, and sea-level rise. These climate actions were prioritized from hundreds of actions proposed by community members, stakeholder groups, and staff and compared to the latest facts and science.

The City has prioritized 18 actions to improve municipal operations, which combine to produce less than 1% of Tacoma's overall emissions. In leading by example, the City's climate actions will demonstrate how other organizations can transform their operations to be climate safe.

Details about the 2030 Tacoma Climate Action Plan can be found at cityoftacoma.org/climateactionplan, and questions can be directed to Jim Parvey at 253/533-0055 or jparvey@cityoftacoma.org



Environmental Services Commission

City of Tacoma | Environmental Services Department

Environmental Services Commission
Next Meeting: Thursday, May 12, 2022

