CUSTOMER SERVICES 2019/2020 **BUDGET PRESENTATION** August 22, 2018 **Steve Hatcher Customer Services Manager**



AGENDA

- Mission/Vision
- Customer Service Strategic Goals
- Services Provided
- Budget Overview
- Budget Drivers
- Expenses and Staffing
- Next Steps



MISSION/VISION

MISSION:

We engage customers through exceptional service and customer-focused solutions.

VISION:

To be known for Excellence in our Service to Customers.



CUSTOMER SERVICES STRATEGIC GOALS

- Empowering customers with easy to use self service tools that fit their individual needs
- Routing customers to the most knowledgeable employees to answer customer inquiries quickly, efficiently, and completely
- Maintain and enhance customer service by empowering staff with the required authority to accomplish 1st call resolution with robust and modern utility tools
- Developing strategies that meet the needs and requirements of each of our customer segments – Residential, Small and Mid-size business, Key accounts and Low-Income
- Position ourselves to support/participate in Tacoma Power, Water and Environmental Services strategic initiatives



SERVICES PROVIDED

- Administration Division oversight and management, strategic planning.
- Customer Solutions Utility and resource assistance for seniors/disabled and low income.
- Business Office Call center/lobby services, billing, payments and commercial services.
- Performance Solutions Benchmarking/analytics, staff training/development and project management.



SERVICES PROVIDED (continued)

• Support Services – TPU switchboard services, administrative support and contract management.

• Field Operations – Meter reading, field investigative services and mail services operations.



BUDGET OVERVIEW

• Enhance low-income assistance effectiveness

- Expanded staffing elevates program emphasis and customer support
- ✓ Higher participation from improved marketing, outreach, and overall program resources

• AMI preparations prior to deployment

- ✓ Begin training of Contact Center staff
- ✓ Continue transition of Field Operations staff
- ✓ Work with Click! to train and transition some personnel into Call Center



BUDGET DRIVERS

- Staffing cost increases due to general wage and benefit assumptions.
- Increase the number of personnel assigned to support the expansion of the Low-Income Assistance Programs.
- Increase in licensing/maintenance costs associated with software and customerfacing self-service systems.
- Implement a Request for Proposal (RFP) in preparation of the Customer Interaction Center (CIC) replacement project, scheduled for the 2021/2022 biennium.
- Execute a contract with an external call center to add complementary staffing to support the operation of the CS Contact Center.



EXPENSES AND STAFFING

TPU Customer Services	2017-2018 Budget	2019-2020 Budget	2017-18 to 2 Budget Com	
SUMMARY - Operation & Maintenance by Categ	Jory			
Salaries & Wages	\$ 20,917,991	\$ 23,230,278	\$ 2,312,287	11.1%
Employee Benefits	9,549,165	9,817,518	268,352	2.8%
Capital Credit & Labor To/From Others	(530,900)	(327,250)	203,650	38.4%
Total Personnel Costs	29,936,256	32,720,546	2,784,290	9.3%
Supplies	1,019,565	1,105,913	86,348	8.5%
Services	1,779,767	2,373,111	593,344	33.3%
Other Charges	3,862,015	4,958,880	1,096,865	28.4%
Total Assessments	3,829,165	3,949,688	120,523	3.1%
Total Supplies, Other Services & Charges	10,490,512	12,387,592	1,897,080	18.1%
Subtotal	40,426,768	45,108,138	4,681,370	11.6%
Capital Outlay	2,835,000	584,420	(2,250,580)	-79.4%
Total Customer Services	\$ 43,261,768	\$ 45,692,558	\$ 2,430,790	5.6%
PERSONNEL - Budgeted FTEs	147.0	152.9		



MEETING SUMMARY

We welcome your thoughts and ideas about how we can best serve Tacoma Public Utilities and its customers.

Additional Questions?

Next Steps and Follow-up items...





Workforce Connect Project

City of Tacoma | Tacoma Public Utilities Enterprise Technology Project

Public Utility Board Study Session August 22, 2018



Objectives

- To provide a background on the Workforce Connect enterprise project
- Review of the vendor selection process
- Describe project implementation approach
- Background of contract to be approved at Public Utility Board meeting



Workforce Connect & MWM

Enterprise Mobile Workforce Management (MWM) systems:

- **Optimize** work from within or from core utility systems such as SAP and Outage Management
- Support complex workflows and resources such as:
 - Maintenance and inspection orders
 - Construction orders with information about field assets
 - Work processes across multi-commodity utilities
 - A wide spectrum of scheduler, dispatcher, and field worker roles
- **Deliver** information from back-office systems such as SAP and GIS on a mobile device









- Current Mobile Workforce Management system (ABB Ventyx) was implemented over 15 years ago
- In use by a number of City of Tacoma and TPU departments and is end of life
- Opportunities to automate additional manual field work processes are hampered by our current solution
- Growing field asset data and location information needs from the users are difficult to accommodate



Strategic & Business Drivers



- Government Performance
 - Accountable, Efficient and Transparent services
 - Engage Employees
- Built and Natural Environment
 - Reduced city vehicle trips



- Digital Engagement Strategy
 - "As a field worker, I need mobile access to maps, data, and work management tools, so that I can effectively serve our customers"
- Strategic Initiatives
 - Do our work better
 - Performance management capability
 - Strengthen safety culture 5



Industry Direction

Product advancement in the mobile workforce management market has been accelerating:

- Consumerization of mobile technology
- Improved geospatial capabilities
- Maturing <u>cloud</u>-based delivery models
- Emergence of commercial <u>wearable</u> computing products
- Development of a more digital '<u>smart</u>' utility and city Digital worker enablement **transforms** operations...



••• Workforce Connect Benefits



7

Common Industry Benefits

15-25% rield technician productivity	90%+ % of work auto-scheduled
< 60 sec \checkmark Service order close time	60 min. Dispatch productivity gains
5-10% ↓ Technician windshield time	12% ↓ Estimated restoration times
10-20%	50% ↓ Planning and assigning work
17% ↓ Asset inspection effort / time	60% ↓ In customer complaints



Project Objectives

- Replace legacy Mobile Workforce Management solution with a modern Enterprise Solution
- Expand initial user base from 200 to 500+
- Increased business functionality to include:
 - Initiate work from the field
 - Enhanced off-line capabilities
 - Dynamic resource management
 - Electronic access to documents & photos
 - Automated time entry
 - Advanced scheduling & dispatching functionality
 - Complementary AMI functionality





User Stories

- As a mobile user...
 - I would like an automated way to populate and submit my time card to the backoffice
 - I would like greater access to mobile order details with digitally downloaded work packets, photos, and GIS map overlays
 - I would like the option to work on a variety of mobile devices that best suit my working environment
- As a Supervisor or Dispatcher...
 - I would like to optimize work assignment routing to reduce drive time
 - I would like to easily monitor and dispatch work assignments and emergencies to the right crews at the right time
 - I would like the ability to remotely monitor and control work assignments so I can spend more time in the field





Optimization

Data Access



Automated

Timecards

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Device Flexibility

9



Project Schedule

2017: Planning, Selection Q1-Q3 Solution RFP Development Q4 RFP & Selection 2018: Contract, Procurement, Infrastructure We are here. Q1 Solution Contract Q2-Q3 ISGB, PUB, CC Q4 Infrastructure / Design 2019 – 2020: Develop and Deploy Q2/19 – Q1/20 Release 2 Q1/20 Decommission ABB Q2/20 Release 3 – Long Q1 Release 1 – Locates – Other Work Types Service Suite Cycle

10



MWM Replacement Selection Tacoma

- Engaged consultant to facilitate our vendor selection process
- Clevest Mobile Work Management was selected through a competitive RFP process





RFP Scoring Results

	Technical			SBE/MWBE	Submittal Quality,	
	Requirements	Price	Risk	Certification	Organization &	
Respondent (weighting)	(40%)	(30%)	(20%)	(5%)	Completeness (5%)	Score
Clevest Solutions, Inc.	1979	1484	989	0	247	4700
ABB Enterprise Software, Inc.	1845	1384	923	0	231	4382
SAP America, Inc.	1837	1378	918	0	230	4362
Smart Energy Water LLC	1799	1349	899	0	225	4272



13

Clevest Contract Agreement

Component/Deliverable	Amount	
Software	\$607,500	
Maintenance Support (7 years)	\$675,500	
Product implementation services & warranty	\$1,177,260	
Training	\$33,196	
Other	\$178,200	
Total Contract Value	\$2,671,656	

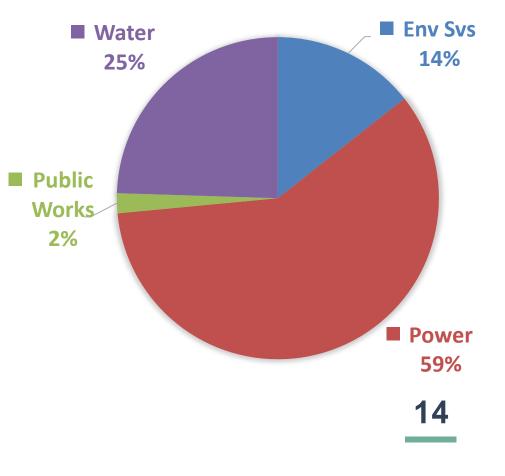
- Notable features of agreement:
 - Negotiated \$500/user license
 - Maintenance of 20% for agreement term
 - Not subject to yearly escalations or adjustments



Workforce Connect Budget

Total Line Item Costs
\$607 <i>,</i> 500
\$33,389
\$1,177,260
\$1,170,300
\$1,029,820
\$178 <i>,</i> 200
\$565 <i>,</i> 546
\$4,762,015
Allocated
\$2,292,763
\$84 <i>,</i> 675
\$244,197
\$2,621,635
Total Cost
\$7,351,424







Net Cost / Benefit Analysis



Cievest Solution			
One-Time Project Cost	\$7.4M		
Ongoing Costs	\$3.8M		
Project Benefits	\$11.8M		
Project Cash Flow	\$1.0M		
NPV	\$288k		
ROI	8.9%		
Payback Years	9.6		
Lower Monthly Cost (per user)	\$219		

Clavest Solution

15



Key Takeaways

- Business driven
- Better served customers/citizens
- Multiple business units participating in project & governance
- <u>Transformational</u> opportunity



Recommendations/Next Steps

- Contract approval at Public Utility Board
- Info session with City Council
- Continue project preparation activities
- Project initiation planned for Q4 2018



Water Resource Planning

- Water System Plan
- Integrated Resource Plan

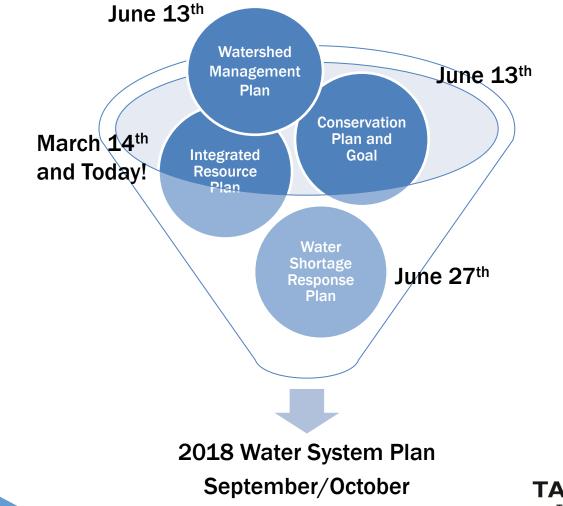
August 22, 2018

Today's Agenda

Water System Plan Update

- Integrated Resource Plan Results/Conclusions
- Overview of Sources
- Overview of Modeling results
- Resource Performance
- Potential Solutions
- **Additional Considerations**
- **Next Steps**

2018 Water System Plan – collecting our planning in one place



TACOMA DUBLIC UTILITIES

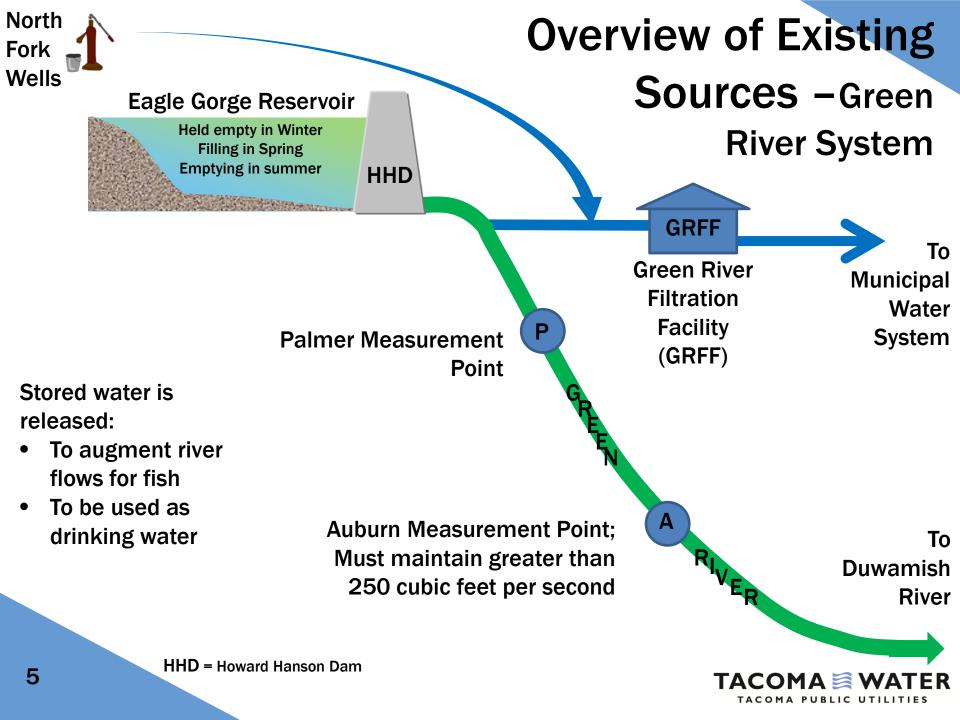
Overview of Existing Sources – Green River System

The Green River is Tacoma's primary water source. In recent years, it is the source of 95% of our water.

- •Tacoma has two water rights on the Green River
- •Both water rights are constrained to ensure adequate minimum instream flows



TACOMA WATER DIVERSION DAM AND INTAKE



Overview of Existing Sources -Groundwater

- 55 MGD of installed capacity /~40 MGD currently reliably available
- Aquifer in South Tacoma is a key component
- Normally ~5% of supply
- Can provide up to 40-50% of summer demand
- Drought resilient

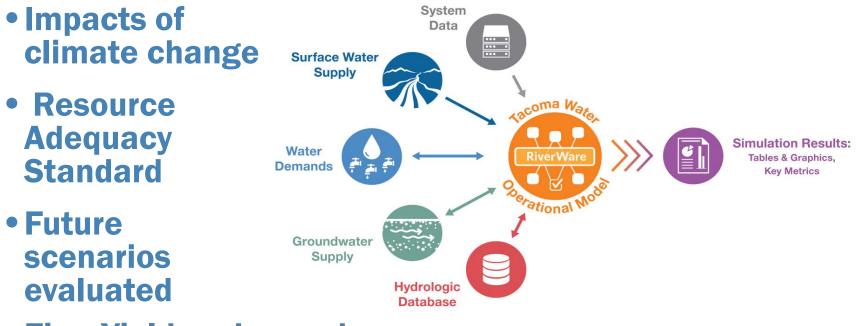




MGD = Millions of Gallons per Day

Overview of Modeling Results

Performance of existing sources

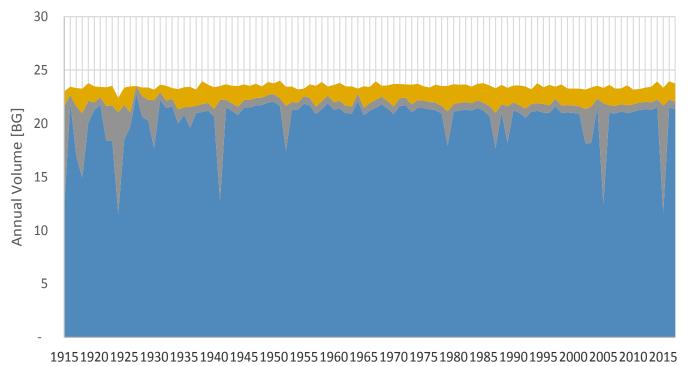


• Firm Yield vs demand forecast

Existing Resource Performance - Past

zero curtailments in this simulation

Simulated Water Supply by Source



Year

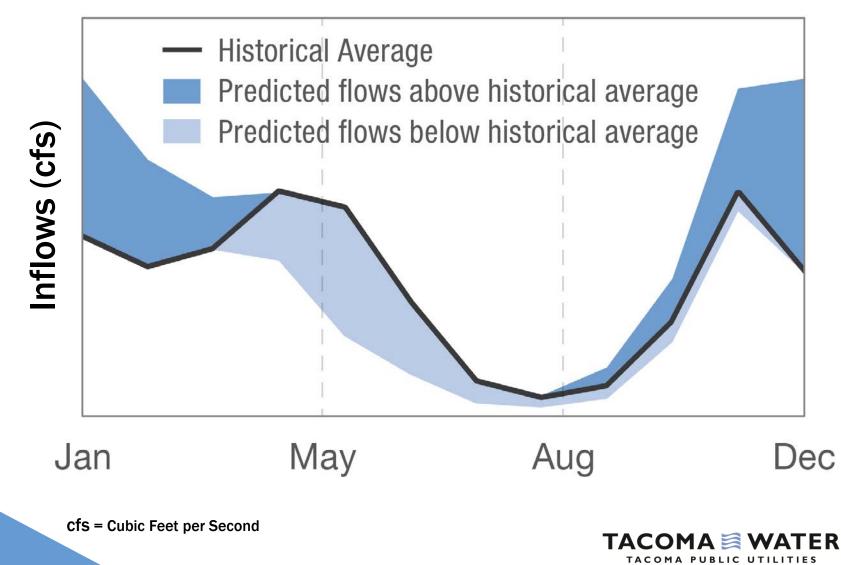
■ Green River (direct use) ■ City Wells

Storage



Impacts of Climate Change - 2050

Average Monthly Simulated Inflows – Eagle Gorge Reservoir



Resource Adequacy Standard (RAS)

Presented at March 11, 2018 Public Utility Board Study Session:

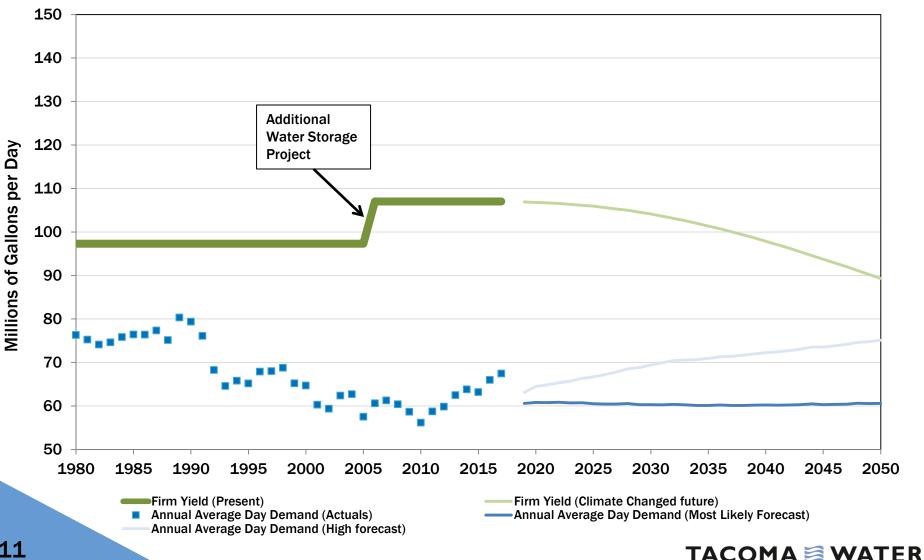
Policy Decision

Water sources and systems will be sufficient to meet demands such that mandatory curtailments will occur not more than once in 25 years, as a long term average.



Firm Yield

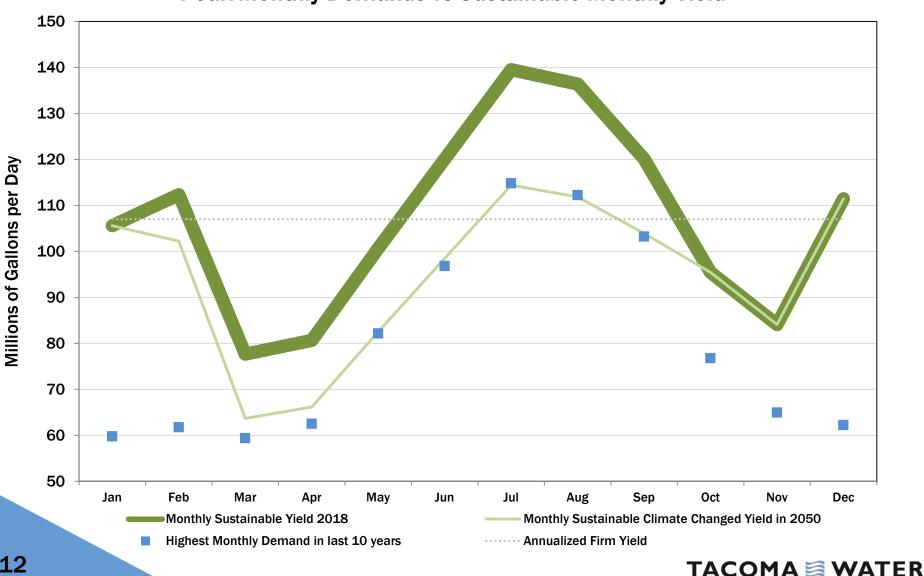
Annual Average Demands vs Annualized Firm Yield



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11

Firm Yield



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Peak Monthly Demands vs Sustainable Monthly Yield

12

Scenarios Evaluated

Least-Stressed

✓ Improved technologies
 ✓ Water conservation

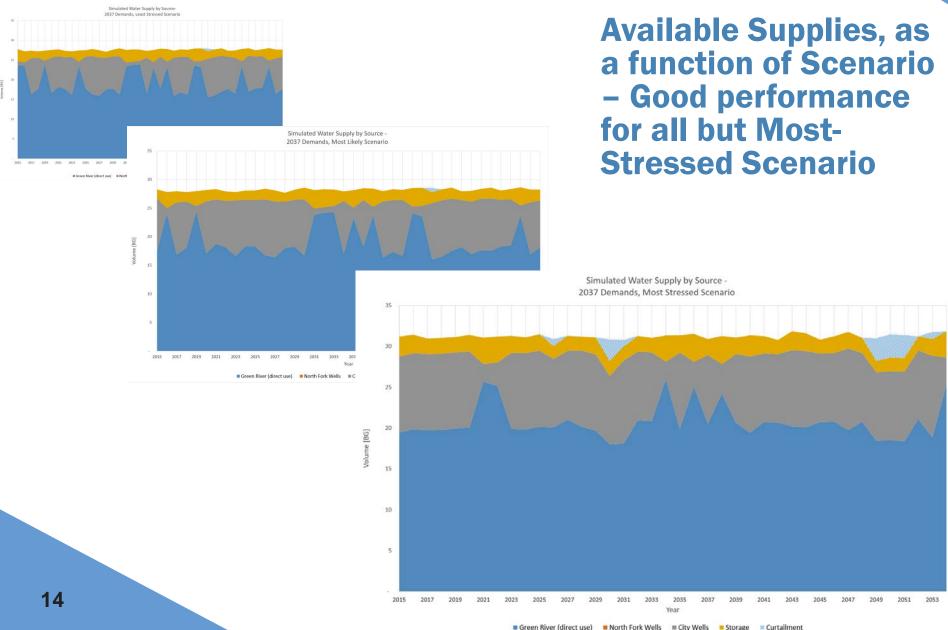
Most Likely

✓ Continues demands, growth trends

✓ Climate change is moderate but accelerates Most-Stressed

✓ Higher demands due to increased economic activity
 ✓ Climate change is hotter and drier

Existing Resource Performance - Future



Existing Resource Performance - Future

- System is robust except when in the Most-Stressed Scenario
- Only Most-Stressed
 Scenario does not
 meet RAS
- Responsibility to be prepared should Most-Stressed Scenario occur

RAS = Resource Adequacy Standard

	Least- Stressed	Most- Likely	Most- Stressed		
Number of voluntary curtailments (out of 25 years)	<1	<1	2		
	3	2	5		
Number of mandatory curtailments (out of 25 years)	0	0	3		
	0	<1	5		
ls the RAS met?	Yes	Yes	No		
	Yes	Yes	No		
Percent of groundwater rights utilized	50 %	55%	60%		
	60%	60%	70%		

2037 results

2050 results

Number of curtailments represents the long-term average, standardized to the expected frequency in any 25-year period.

TACOMA DUBLIC UTILITIES

15

Potential Solutions – Most-Stressed Scenario

- Additional Water Storage Project Phase 1 (AWSP1)
 Complete phase 1 to receive up to 10,000 Acrefeet
- Aggressive Peak Shaving Reduce summer peak demand in hot and dry years
- Develop Groundwater Enhance pumping capacity of well fields
- Additional Water Storage Project Phase 2 (AWSP2)-Raise Eagle Gorge Reservoir an additional 10 feet
- Oasis Aquifer Storage and Recovery (ASR)

Potential Solutions – Most-Stressed Scenario

Number of mandatory curtailments is improved to meet the RAS in each of the proposed solutions

- Potential for curtailments reduced
- Analyze and prioritize
- Uncertainties

RAS = Resource Adequacy Standard

					2037 results	2050 results
	Current Sources	OASIS	AWSP Phase 1 (Howard Hanson Fish Passage)	AWSP Phase 2 (Reservoir Pool Raise)	Develop Full Groundwater Rights	Aggressive Peak Shaving
Number of voluntary curtailments (out of 25 years)	2	4	2	2	<1	<1
	5	2	5	5	2	2
Number of mandatory curtailments (out of 25 years)	3	<1	<1	<1	0	0
	5	4	<1	<1	0	0
ls the RAS met?	No	Yes	Yes	Yes	Yes	Yes
	No	No	Yes	Yes	Yes	Yes
Percent of groundwater rights utilized	60%	60%	60%	60%	75 %	55%
	70%	70%	70%	70%	95 %	67 %

TACOMA S WATER

2050 results

2037 results

Additional Considerations

- Fish Passage Facility completion and funding (Additional Water Storage Projects Phase 1 and Phase 2)
- Groundwater resources in an urban environment
- Water rights complex and changing

Green River Water Rights

First Diversion Water Right ("FDWR")

- Statement of Claim
- Tacoma filed in 1971 (based on 1906 and 1908 priority dates)
- **Point of Diversion: Headworks**
- Second Diversion Water Right ("SDWR")
- Permit issued in 1986 (1933 priority date)
- Development schedule (next milestone: 2021)
- Point of Diversion: Headworks



Types of Water Rights

Permits & Certificates:

- Issued by Dep't of Ecology
- Pursuant to the "Water Code" (i.e., state legislation)
- **1917** surface water / **1945** ground water
- Permit is a water allocation under development
- Certificate documents a vested property right.
 Claims:
- Assertion of vested right predating Water Code
- Statements of claim required by 1967 law
- Ecology accepts for recording, but not approved or confirmed in substance.



Department of Ecology -

Water Right Permit Process

- Application
- Permit
- Development Schedule
 - **1. Start Construction**
 - **2. Complete Construction**
 - 3. Put Water to Full Use
 - \rightarrow or request extension of time
- Proof of Appropriation
- Certificate



2003 Municipal Water Law ("MWL")

- Before 2003, law was not clear about how to vest (or "perfect") a municipal purpose water right
- 2003 MWL clarified that actual "beneficial use" of water required
- Certificates now issue with quantities put to actual use



Restrictions and Factors as to "Beneficial Use" of Green River Water

- Water rights terms and conditions imposed by Dep't of Ecology
- Agreement with Muckleshoot Indian Tribe (1995)
- Project Cooperation Agreement with US Army Corps of Engineers (2000)
- Habitat Conservation Plan (2001)
- Regional Water Supply System (2002) RWSS Partnership



Overview of Partnership Agreement

- Tacoma is the owner and operator of the Second Supply Project (SSP)
- Tacoma has a 15/36 share; Kent, Covington and Lakehaven each have 7/36 Shares in the Second Supply Project
- Decisions are made by vote of the Project Committee
- Each Partner has paid for rights to use its share of the available Second Diversion Water Right, including water stored in the Eagle Gorge Reservoir
- Investment from the three Partners since 2005 has been \$196 for capital facilities, and \$20 for 0&M

Next Steps

- Finalize Planning Documents
- Ongoing Public Education
- Develop strategies and outreach communication plan for Aggressive Peak Shaving
- Continued engagement with Federal Agencies & the congressional delegation to complete Additional Water Supply Project Phase I
- Further Evaluation of Supply solutions, including prioritizing groundwater improvements