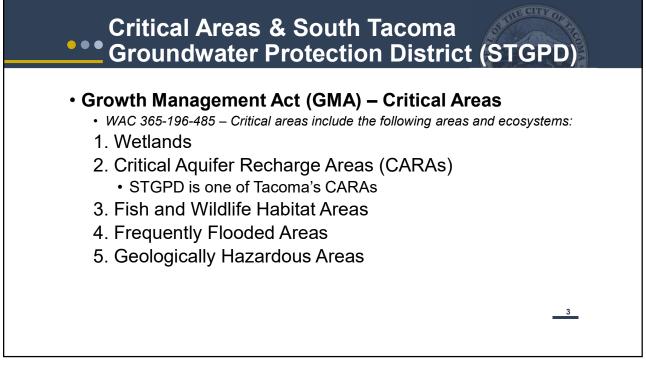
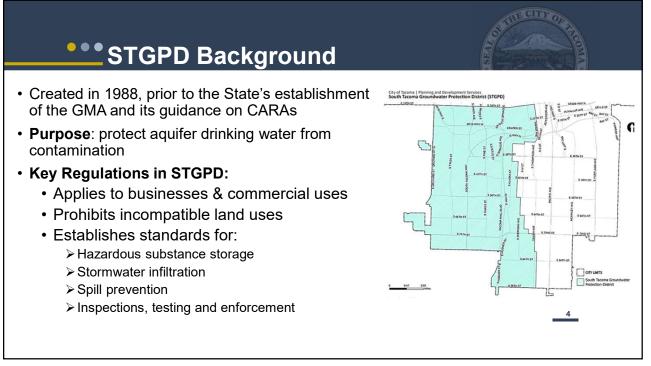


Agenda Background Updated Work Plan Outreach and Engagement Next Steps State Regulations Project Update Q&A







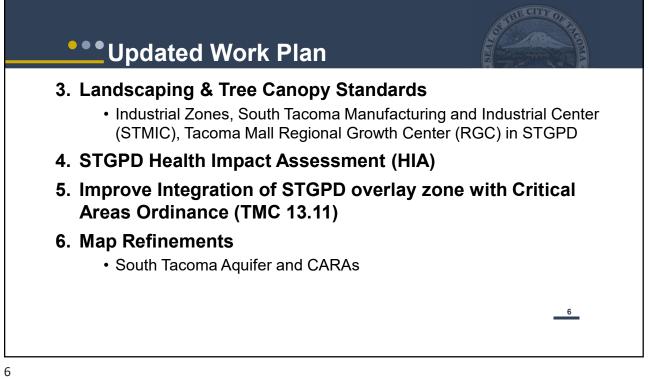
Updated Work Plan

 Adopted by City Council in Resolution No. 40985 and updated by the Planning Commission

1. High Impact Use Standards

- · Review high impact use standards, including those from the South Tacoma Neighborhood Council application and ongoing moratorium:
 - 1. Metal Recycling/Auto Wrecking*
 - 2. Below Ground Storage Tanks* (*Subject to moratorium)
 - 3. Above Ground Storage Tanks

2. Infiltration Policy & Impervious Surface Standards



Recent Outreach and Engagement

- January-March 2024: Spotlight on South Tacoma
- April 13, 2024: Sustainability Expo
- May 4, 2024: Dia de los Niños/Eastside Mini-Olympic Games
- May-June 2024: Nine One Tacoma Comprehensive Plan Workshops
- August 2024: Ocean Fest
- August 22, 2024: South Tacoma Neighborhood Plan Steering Committee
- September 18, 2024: Tacoma Permit Advisory Group
- September 19, 2024: South Tacoma Business District Association
- South Tacoma Neighborhood Council
- Tacoma Water Integrated Resource Plan Public Advisory Committee
- STGPD HIA Advisory Group

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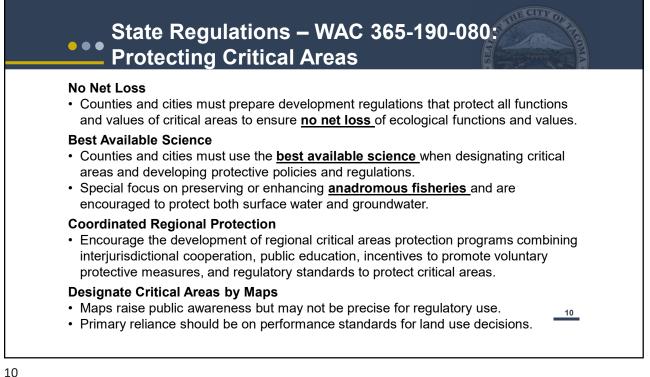
Next Steps & Tentative Schedule

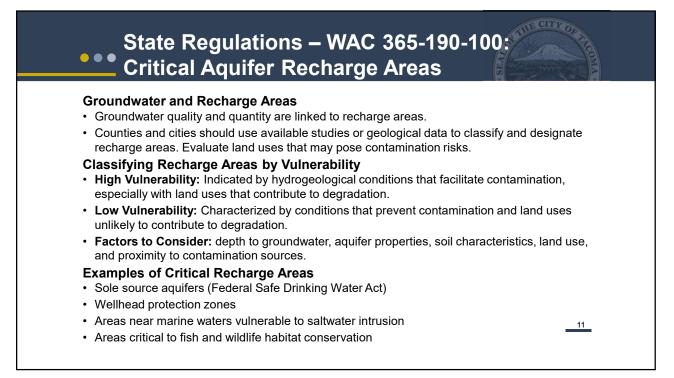
Body	Action
HIA Advisory Group	Initial baseline health assessment
IRP Public Advisory Committee	STGPD Technical Memo for review
City Council	Consider 6-month extension of moratorium Progress report on STGPD code update
One Tacoma Open Houses	Community input
Planning Commission	Present best available science review and progress report
HIA Advisory Group	HIA recommendations
Planning Commission	Draft groundwater code Public comment period and recommendations
City Council	Review Planning Commission recommendations Conduct public hearing Adoption
	HIA Advisory Group IRP Public Advisory Committee City Council One Tacoma Open Houses Planning Commission HIA Advisory Group Planning Commission

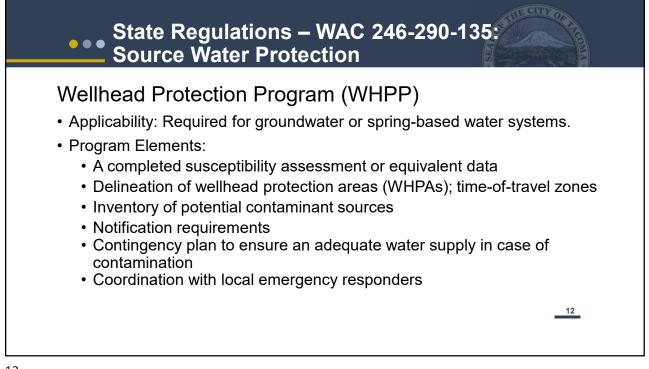
Project Update

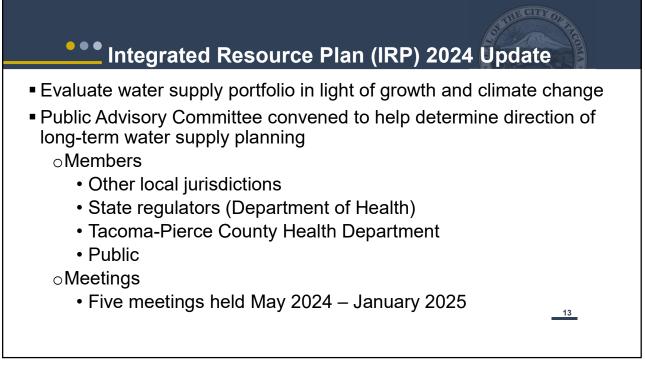
Team Introduction

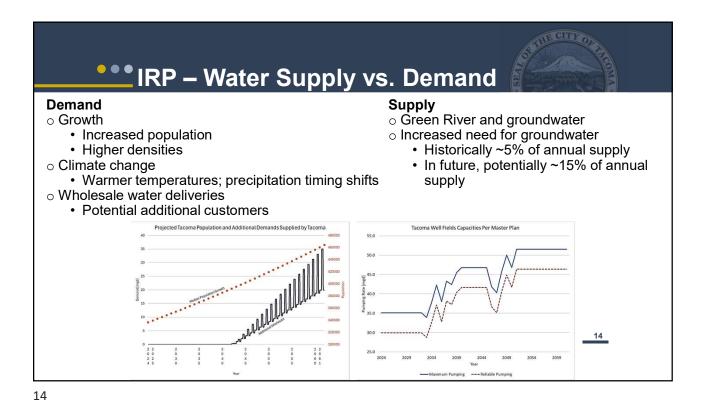
- Jeff Hansen, PE; HDR Engineering
 - · Professional Engineer; project manager for consultant team
 - 25 years in water resources planning/engineering
 - · Led expert support to Pierce County and the Water Utility Coordinating Committee in developing the County's 2021 Comprehensive Water System Plan
- John Hildenbrand; Terraphase Engineering
 - Principal Environmental Scientist
 - · 36 years contaminant investigation, environmental compliance
 - Completed and managed initial implementation STGPD performance standards
- Steve Hitch, PE: HDR Engineering
 - Professional Engineer, Certified Stormwater Manager
 - · 30 years stormwater engineering and utility management
 - 20 years at City of Redmond developing and implementing the Wellhead Protection Program and Stormwater Manual

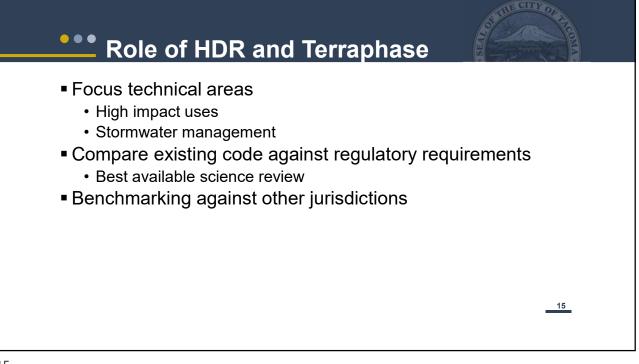






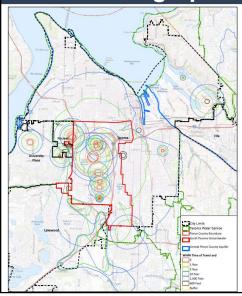






Checklist Item	Addressed in Code?	Location in Code	Notes
If groundwater is used for potable water, do regulations protect the quality and quantity of groundwater? [Referenced regulations include RCW 36.70A.172(1), RCW 36.70A.070(1), and WAC 365-196-485(1)(d)]	Yes	TMC 13.06.070D (5) TMC 13.06.070D (6)	Stormwater element is tied to STGPD Infiltration Policy, which, in turn, references the City's Stormwater Management Manua
Are the critical aquifer recharge regulations consistent with current mapping of these critical areas? [Referenced regulation: WAC 365-190-100]	Partially	TMC 13.06.070D (1-c)	The STGPD boundary is not fully in alignment with WHPA and SSA boundaries This is fundamental to many recommendations noted later
Consider limiting impervious surfaces to reduce stormwater runoff, as required under municipal permits	Partially	TMC 12.08D.150.D	Impervious surfaces are not strictly limited, but "effective impervious surfaces" are limited through LID and BMPs (City's Stormwater Management Manual)

Geographic/Jurisdictional Considerations



STGPD

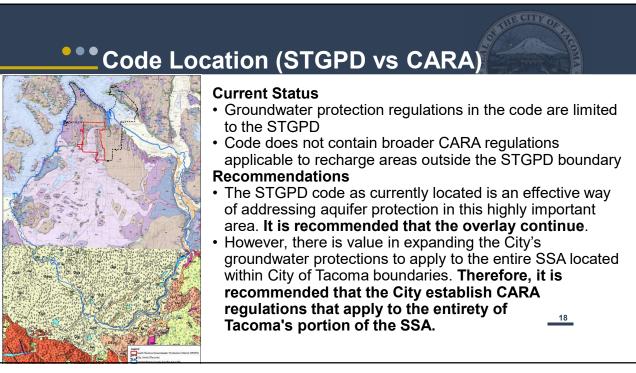
- Created to protect South Tacoma Wells before CARA
- CARA is designed to protect degradation of aquifer quality
- WHPA designed to prevent wells from being contaminated

South Tacoma Aquifer

• Represents a portion of the Central Pierce County SSA

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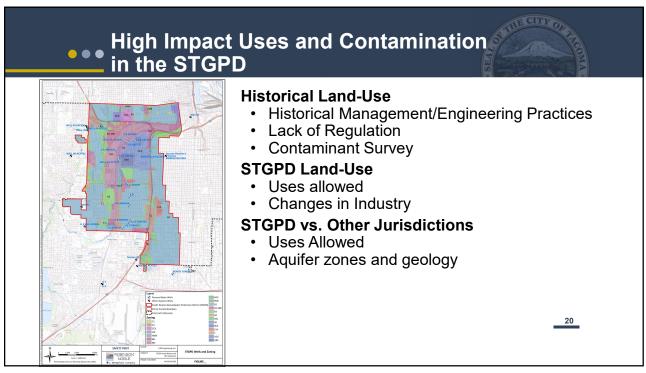
• Wells/activities in other jurisdictions can impact Tacoma



Developing CARA Regulations

Recommendations

- Tacoma should **coordinate with neighboring jurisdictions** regarding the development of policies and regulations protecting groundwater resources throughout the SSA **because of the overlap** between land use jurisdictions, the SSA boundary, and mapped WHPAs.
- Varying levels of protection in the portions of the SSA outside of the STGPD should be established through technical analysis of physical and hydrogeologic characteristics (e.g., surficial geology, aquifer properties, well use, and groundwater flow patterns). Along with mapped geology, this should be informed by the recently produced USGS Southeast Sound groundwater model of the aquifers in the SSA, in conjunction with utility-prepared WHPAs. This approach is consistent with other jurisdictions' use of WHPAs in determining which portions of a CARA should be afforded more or less protection.



High Impact Uses **Review of Other Jurisdictions** Thurston County Redmond • Vancouver, Spokane County, Issaquah • Pierce County • Fife, Fircrest, University Place **Summary of Findings** • Uses on Tacoma's list are commonly included by other jurisdictions • Other jurisdictions include additional uses, particularly in wellhead protection areas • Some jurisdictions apply graduated levels of restriction based on time of travel zones • STGPD actually regulates and inspects business operations with enforcement ability 21

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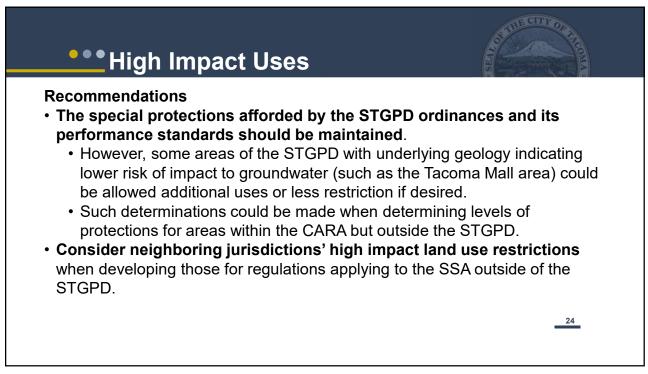
•••• High Impact Uses - Benchmarking						
Land use	Tacoma	Pierce County	Fife	Lakewood	University Place	Fircrest
Hazardous waste treatment, storage, or disposal facilities	х	х	Р	х	Р	х
Underground storage tanks*	x	Р	Р	Р	Р	Р
Wood products preserving	x	Х		Х	Р	Х
Chemical manufacture and reprocessing	х	Х			Р	
Creosote/asphalt manufacture or treatment	x	х				
Manufacture of Class 1A or 1B flammable liquids	x					
Petroleum and petroleum products refinery, including reprocessing	x	х				
Metal recycling/auto wrecking facilities*	х	Х			Р	
Electroplating activities	х	х				

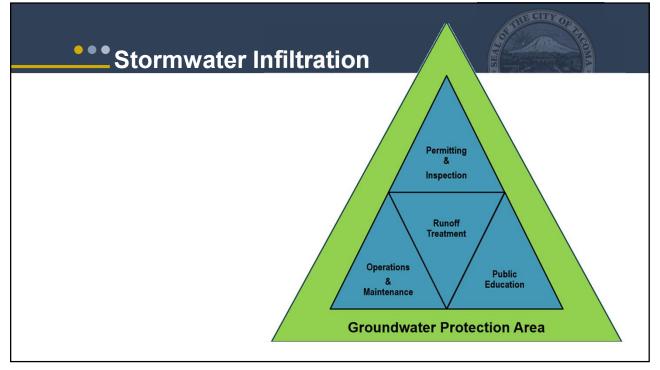
Key X = Prohibited

P = Permitted with restrictions * = Prohibited in STGPD by a temporary moratorium set to expire in March 2025

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Land use	Tacoma	Pierce County	Fife	Lakewood	University Place	Fircrest
Mining		Х		Х	Р	Х
Landfills		Х	Р	Х	Х	Х
Wastewater treatment		Х	Р	Р	Р	
Vehicle maintenance		Х		Р	Р	Р
Animal containment areas/feedlots		Х	Р	Р	Р	Р
Machine shops		Х				
Infiltration of reclaimed water		Х				Р
Industrial uses		Х		Р		
Golf courses		Р				
Funeral facilities and cemeteries		х				
Sawmills		Р			Р	
Other			Р			Р





Stormwater Runoff Treatment Requirements for Infiltration

Jurisdiction/ Guidance	Non-Pollution Generating Surfaces	Residential	Commercial/Multifamily	Industrial or High Vehicle Traffic Area		
Ecology Stormwater Manual and UIC Guidance	Pre-Treatment	Follow Health Department requirements and local ordinances Basic Treatment	Follow Health Department requirements and local ordinances Basic Treatment	Follow Health Departmen requirements and local ordinances Basic and Oil Control		
Pierce County	Same as Ecology					
Fircrest	Same as Ecology					
Lakewood	Same as Ecology					
Tacoma SWMM	Same as Ecology outside STGPD; STGPD Policy in STGPD					
STGPD Policy	No Treatment Required	Basic Treatment	Enhanced Treatment	Enhanced and Oil Contro		
Redmond	Pre-Treatment	Basic Treatment	Infiltration Prohibited (except in Marymoor, then enhanced)	Infiltration Prohibited (except in Marymoor, then enhanced and oil control)		
Renton	Infiltration Prohibited	Infiltration Prohibited	Infiltration Prohibited	Infiltration Prohibited		

