

Appendix B. Agency/Adjacent Purveyor Comments and Approval

This page is intentionally left blank.

City of Issaquah
Water System Plan
Response to Comments
on Draft WSP (April 3, 2018)

No.	Agency	Source	Date	Section	Comment	Further Comments	Response
1	Sammamish Plateau Water	Letter	7/26/2018	1.6.4, 3.6.2	These sections make no mention of or consider series of agreements between the City and SPW regarding non-assumption of areas within SPW's current service area that are within the current city limits.	Memorandum of Agreement dated January 13, 2014 including a 10-year non-assumption period.	All agreements between City of Issaquah and Sammamish Plateau Water referenced in these comments will be included in Appendix D (Interlocal Agreements), and reference will be made in Sections 1.6.4 and 3.6.2.
2				Agreement dated January 21, 2014 that includes setting the start date for the 10-year period at 3/17/2014. In addition, the Agreement includes references to 3-party discussions between Issaquah, SPW and Sammamish regarding service delivery options to commence no later than March 17, 2017. [Note that the District has made overtures for these discussions in both 2016 and 2017, with no response.]			
3				Interlocal Agreement (ILA) dated March 18, 2014 regarding the decommissioning of the Lower Reid Infiltration Gallery			
4				Amendment No. 1 to the Agreement and ILA dated August 10, 2015, including extension of the non-assumption period for an additional 2 years.			
5	Sammamish Plateau Water	Letter	7/26/2018	3.9.4	The first sentence of this section appears to promote the protection of the aquifers, but the last sentence stresses the importance of quantity of recharge, without equal consideration of quality of the water to be infiltrated. The quality of the water to be recharged should be provided great importance, especially in wellhead capture zones. In addition, note should be made that the Agreements and ILAs noted under comment 1 specifically restrict infiltration projects from a portion of the Issaquah Highlands area into the Lower Issaquah Valley		The policy text in the plan has been updated to match the Comprehensive Plan currently posted on the City's website which has policy U-C12 stating, "Protect the aquifer recharge quantity and quality through the regulation of types of land use allowed, encouraging low impact development, and mitigation required on the uses within the identified recharge areas and wellhead capture zones." This revised policy does not have the second sentence that is being referred to.
6	Sammamish Plateau Water	Letter	7/26/2018	7.4.1, 11.1.1	Multiple sections of the 2018 Plan reference a project for emergency supply from Lake Sammamish. Both of these reference the potential use of an emergency water supply from Lake Sammamish to be introduced into the distribution system. The implication is that this water could also be used by SPW either through and intertie or direct connection. If this project is pursued, SPW would need to be involved in any development to determine whether this would be an acceptable supply alternative for SPW.		Additional text has been added to 7.4.1 and 11.1.1 stating, "SPW would be involved in any development of an emergency supply to determine whether the supply would be an acceptable alternative for both the City and SPW."
7	Sammamish Plateau Water	Letter	7/26/2018	11.2, 12.5, Table 11-3,	The 2018 Plan identifies several significant costs, especially associated with the water treatment plant, and notes the need for future rate adjustments. It would seem appropriate to project the scale of these potential rate adjustments as part of this Plan.		Details regarding potential rate adjustments are not provided in the WSP, as they will result from a forthcoming rate study that the City intends to complete in 2019.
8	WDOH	Letter	7/31/2018	System Description	Provide a determination of local government consistency from the City of Issaquah's Planning Department.		See enclosed for this documentation, which will also be added to Appendix B.
9	WDOH				King County provided comments on your WSP on August 14, 2018. Please respond to their issues. Adequate responses to their issues will be necessary in order to receive a WSP Adoption Ordinance from King County		King County comments have been addressed, as documented in this Response to Comments.
10	WDOH				Noted discrepancies between Table 2-1 and the water facilities inventory (WFI). It might be appropriate to update the WFI		If the discrepancies between Table 2-1 and the current version of the WFI are referring to the list of existing intertie connections, then this comment is noted and the City will update the WFI with current information as appropriate during the next required WFI update to ensure the intertie list is accurate.

City of Issaquah
Water System Plan
Response to Comments
on Draft WSP (April 3, 2018)

No.	Agency	Source	Date	Section	Comment	Further Comments	Response
11	WDOH			Basic Planning Data	Regarding Table 5-9, Projected Equivalent Residential Units by Operating Area, do the projected ERUS include non-revenue demand? If so, is the non-revenue demand based on an assumed percentage? If not, how does the City account for non-revenue demand in the capacity analysis for operational areas?		The projected ERUs in Table 5-9 does include non-revenue demand. Current revenue demands (billed consumption) for each operating area was determined through the use of billing record data paired with GIS mapping of meters. The non-revenue demand of the entire system was allocated to each operating area based on a ratio of the operating area's revenue demand to total system revenue demand (i.e. if an operating area comprised 20% of the revenue demand, it was allocated 20% of the non-revenue demand). When forecasting future demands, the current operating area total demands (revenue + non-revenue) are increased by an annual percentage of growth. That total forecasted demand is then divided by the calculated value of an ERU (so the ERUs includes both revenue and non-revenue demands).
12	WDOH			System Analysis	Thanks you for providing Figure 2-4, Existing Hydraulic Profile. The executive summary refers to an additional three operating areas and the capital improvement plan includes projects that would change the existing hydraulic profile. Please provide a hydraulic profile incorporating the proposed system changes.		The three future pressure zones (Lakeside, Cougar Mountain, and Bergsma) are all currently shown on Figure 2-4 (see legend on figure showing dashed lines as "Future Pressure Zone"). An additional figure has been added to the CIP chapter (Figure 11-2) that is similar to Figure 2-4 but shows how the CIP projects that affect system hydraulics will fit into the hydraulic profile. See enclosed Figure 11-2.
13	WDOH				Very nice table (Table 9-1) showing the summary of storage ability to meet Department requirements and City policies. Not all the entries match the corresponding operating area storage capacity analysis tables. For example, Table 9-1 indicates that the Mount Hood Operating Area Storage Capacity Analysis shows the contrary. Please clarify.		Table 9-1 was reviewed against detailed tables of storage capacity analyses for the different operating areas. Table 9-1 entry for the Mount Hood operating area has been revised to state for the compliance with the City Policy for 40 psi at the 2nd story that there is a, "Deficiency to supply pressure at all service connections per City policy. However, DOH requirements are met."
14	WDOH				Thank you for the well thought out and clearly communicated hydraulic modelling approach to prioritize projects in the distribution system. The introduction to the hydraulic analysis section in chapter 9 indicates the future system-wide performance was evaluated. Please provide the table or figure of model results for the 10 year demand.		An additional figure showing 2027 (10-year) results has been added. This is similar to the current 20-year (2037) results figure since CIP projects were created to address deficiencies under both planning horizons. See enclose for a copy of this new figure.
15	WDOH			Water Quality	Please update section 8.2.2 Total Coliform Rule, section 8.2.4 Bacteriological Reporting Procedures, and any other reference to the Total Coliform Rule to reflect the changes in the Revised Total Coliform Rule.		Section 8.2.2, 8.2.4, and related sections have been modified to include the key provisions of the Revised Total Coliform Rule.
16	WDOH				Table 8-9, Lead and Copper Monitoring, refers to the maximum contaminant level (MCL) for lead and copper. The state board of health has not established MCLs for lead and copper. MCLs referred to in Table 8-9 should be referred to as Action Levels.		References to MCL in LCR table have been changed to "Action Level".
17	WDOH				Table 8-10, Summary of Existing Regulatory Compliance indicates the City is out of compliance with the Unregulated Contaminants Monitoring Rule 3 (UCMR3) due to PFAS detection in Gilman Well Nos. 4 and 5. The contaminants monitored under UCMR3 are by definition unregulated and therefore cannot be out of compliance if detected.		For UCMR3, modified table to say that the City is in compliance but modified text to state that, "Although not currently regulated, PFAS were detected in Gilman Well Nos. 4 and 5. Treatment has since been implemented and all levels have been under the practical quantification limit since the treatment system has been online."

City of Issaquah
Water System Plan
Response to Comments
on Draft WSP (April 3, 2018)

No.	Agency	Source	Date	Section	Comment	Further Comments	Response
18	WDOH				Thank you for providing the Coliform Monitoring Plan in Appendix K. Please clarify: Table 2.2 notes that the Montreux operating area can have additional storage "provided from higher zones via PRVs." The higher zones of Grand Ridge, Highlands Summit, and Forest Rim cannot supply Montreux, correct? If so, perhaps higher Bellevue zones exist that can supply Montreux? This clarification is needed so we can complete our approval of the Reduced Triggered Source Monitoring program that the City uses to comply with the Groundwater Rule	The table of contents indicates there is an attachment of the coliform sampling standard operating procedure. We would appreciate a copy of the standard operating procedure.	The Coliform Monitoring Plan (Appendix K) has been updated, including addition of the sampling SOP, addressing these comments. See enclosed document.
19						Per the current WFI population, 30 samples are now needed each month, including July and August	30 samples required in all months except Oct=40 samples. See updated Appendix K.
20						Please identify the estimated number of connections served by each pressure zone. The Department expects at least one routine coliform sample site to be provided in each pressure zone that serves 100 or more connections	A tabular summary of the estimated number of connections by pressure zone and operating area is enclosed with this response to comments.
21	WDOH				The Department concurs with the recommendation listed in Table 8-11 to develop an E. coli response plan in case the City should have an E. coli MCL violation or identify E. coli in its raw source water under the Groundwater Rule. Our Mercer Island experience indicates that consumers want this water quality information as soon as possible and an E. coli Response Plan can position a community to be successful.		Noted. No edit required. It is also noted that E. coli response has been included in the Water Sampling - Coliform SOP, which has been incorporated into the updated Coliform Monitoring Plan. See above response.
22	WDOH			Operations and Maintenance	Have you adopted the Water Main Break Protocol for Chlorinated Systems? (DOH Publication 331-583-1/1/2017)		The City intends to update its main break SOP by end of 2018, to incorporate the referenced protocol.
23	WDOH			Standard Plans & Specifications	The City's design standards should specify the required separation between water and sewer lines. The Department refers to Ecology's Criteria for Sewage Works.		Note 2 on Standard Detail No. G-06 states that, "Sewer and water pipe shall have a minimum separation as defined in the Ecology 'Criteria for Sewage Works Design'." As this note calls out this requirement, no change has been made to the detail.
24	WDOH				The Standard Detail No. W-07 Air Vacuum Release Valve Assembly shows a drilled hole to drain the vent line. The Department considers this a potential cross-connection. Think about eliminating the drilled hole from the air vacuum release valve design		The City has modified the referenced standard detail. See enclosed.
25	WDOH			Capital Improvement Program	Has the water system implemented an asset management program, which includes a remaining useful life assessment of major water system facilities, and estimated costs to replace those facilities?		The City has an asset inventory and plans to update this with remaining useful life and replacement cost in the next 3 years.
26	WDOH				Table 9-13, South Cove Operating Area Storage Capacity Analysis identifies a future deficiency in meeting the required storage volume. The deficiency can be addressed by nesting fire suppression storage and standby storage. Does the local fire protection authority allow for nesting?		Yes.
27	WDOH			Financial Program	Table 12-4 Revenue Requirement Summary. Another Table that shows rate increases necessary to achieve a balanced financial budget would be helpful.		Details regarding potential rate adjustments are not provided in the WSP, as they will result from a forthcoming rate study that the City intends to complete in 2019.
28	WDOH			Other Documentation	The water system must meet the consumer input process outlines in WAC 246-290-100(8). Please include documentation of a consumer meeting discussing the WSP, prior to DOH approval of the WSP		The Water System Plan was discussed at a City Council Infrastructure Committee meeting (April 11, 2018) and at a regular City Council meeting (May 7, 2018), at which WUE goals were also discussed. These meetings satisfy the consumer meeting requirement. The agendas for these meetings are enclosed.
29	WDOH				We understand that a signed SEPA checklist and Threshold Determination; an adoption resolution from the City Council; and comments from adjacent purveyors will be provided with the final WSP submittal.		The SEPA process will be completed in December, with documentation provided in Appendix C once completed.
30	WDOH				Is the (water system) a member of WARN		The City is filling out the forms to become a member. Membership is imminent.
31	King County	Letter	8/14/2018		Please include estimates of six and 20-year employment projection for the water use retail service area as part of the forecast water; or describe the relationship of the commercial water use projections done as compared to employee water use.		The analysis does not directly use employment projections. Consistent with the prior WSP, it uses commercial square footage for Central Issaquah (to reflect employee water use) and then in some zones residential and commercial demands are grouped together as a buildout demand of ERUs (developer can do any combination of residential/commercial as long as the total demand is a certain number of ERUs).

City of Issaquah
Water System Plan
Response to Comments
on Draft WSP (April 3, 2018)

No.	Agency	Source	Date	Section	Comment	Further Comments	Response
32	King County				Provide consistency statements by local jurisdictions, or documentation for self-certification of consistency, as described in WAS 246-290-108		See enclosed for this documentation, which will also be added to Appendix B.
33	King County				Include a complete King County Water Reclamation Evaluation Checklist that can be found at https://www.kingcounty.gov/~media/environment/dnrp/documents/WaterReclamationChecklist12_2011.ashx?la=en		The King County Water Reclamation Evaluation Checklist has been completed. It will be included in Appendix B. It is also enclosed with this response to comments.
34	King County				Include a completed SEPA Checklist and threshold Determination		The SEPA process will be completed in December, with documentation provided in Appendix C once completed.
35	King County				Confirm the City will continue to issue or use certificates of water availability for service of water to parcels located in unincorporated King County		Yes, the City will continue to issue certificates of water availability for service of water to parcels located in unincorporated King County when needed to comply with State law.
36	King County				The City Franchise 8101 expired in 2010. In order to gain Water System Plan approval, the City must begin the franchise renewal process, which is a separate process from the Water System Plan Process.		The City is in good standing, per follow-up communications between King County and the City.
37	City of Bellevue	Email	6/14/2018	Table 2-1	The table indicates 12" meter size at the Lakemont triangle intertie, but there is no meter at this intertie. Lakemont Triangle is a "direct-read" area where wheeled volume is estimated using the sum of the individual customer meter volumes in the downstream area		A footnote has been added to the table stating, "A master meter is not located at the Lakemont Triangle Intertie. The 12-inch size refers to the pipe size for the intertie. Demands through the intertie connection are estimated using the sum of individual customer meter volumes in the operating area."
38	City of Bellevue			Section 9.1	Storage for the Lakemont Operating Area and Montreux Operating Area are provided in Bellevue's system per agreement. See City of Bellevue 2016 Water System Plan, Volume 1 page 4-28, and Volume 2 Appendix K (Tables 12, 14)		Additional text has been added to the chapter stating, "For the Lakemont and Montreux Operating Areas, storage is provided in the City of Bellevue's system per agreement and therefore are not analyzed in this chapter." Additionally, a footnote has been added stating, "Additional information on storage for the Lakemont and Montreux Operating Areas can be found in the City of Bellevue's 2016 Water System Plan, Volume 1, pages 4-28; and in Volume 2, Appendix K, Tables 12 and 14."
39	Cascade Water Alliance	Email	8/9/2018		Ray and I [Michael Gagliardo] have both looked quickly at the draft Plan and have no specific comments.		Noted. No edits required.



Local Government Consistency Determination Form

Water System Name: Issaquah Water System PWS ID: 363505

Planning/Engineering Document Title: 2018 Water System Plan Plan Date: March 9, 2018

Local Government with Jurisdiction Conducting Review: City of Issaquah

Before the Department of Health (DOH) approves a planning or engineering submittal under Section 100 or Section 110, the local government must review the documentation the municipal water supplier provides to prove the submittal is consistent with **local comprehensive plans, land use plans and development regulations** (WAC 246-290-108). Submittals under Section 105 require a local consistency determination if the municipal water supplier requests a water right place-of-use expansion. The review must address the elements identified below as they relate to water service.

By signing this form, the local government reviewer confirms the document under review is consistent with applicable local plans and regulations. If the local government reviewer identifies an inconsistency, he or she should include the citation from the applicable comprehensive plan or development regulation and explain how to resolve the inconsistency, or confirm that the inconsistency is not applicable by marking N/A. See more instructions on reverse.

Local Government Consistency Statement	For use by water system	For use by local government
	Identify the page(s) in submittal	Yes or Not Applicable
a) The water system service area is consistent with the adopted <u>land use and zoning</u> within the service area.	Figures 4-1 and 4-2	YES
b) The <u>growth projection</u> used to forecast water demand is consistent with the adopted city or county's population growth projections. If a different growth projection is used, provide an explanation of the alternative growth projection and methodology.	Section 4.2	YES
c) For <u>cities and towns that provide water service</u> : All water service area policies of the city or town described in the plan conform to all relevant <u>utility service extension ordinances</u> .	Sections 3.1.1 and 3.1.2	YES
d) <u>Service area policies</u> for new service connections conform to the adopted local plans and adopted development regulations of all cities and counties with jurisdiction over the service area.	Chapter 3	YES
e) <u>Other relevant elements</u> related to water supply are addressed in the water system plan, if applicable. This may include Coordinated Water System Plans, Regional Wastewater Plans, Reclaimed Water Plans, Groundwater Management Area Plans, and the Capital Facilities Element of local comprehensive plans.	Sections 2.2, 3.6, 7.2, 7.3, 7.4.1, 7.4.2, 7.4.4	YES

I certify that the above statements are true to the best of my knowledge and that these specific elements are consistent with adopted local plans and development regulations.

Christen Leeson

Signature
Christen Leeson, Senior Planner, City of Issaquah

Printed Name, Title, & Jurisdiction

6.12.18

Date

Page Intentionally Left Blank



AGENDA

Council Infrastructure Committee

6:30 PM - Wednesday, April 11, 2018

Council Chambers, 135 E. Sunset Way, Issaquah WA

Page

COMMITTEE MEMBERS

Bill Ramos, Chair
Stacy Goodman
Victoria Hunt

Staff Liaison: Sheldon Lynne, Public Works
Engineering Director

1. CALL TO ORDER

2. AGENDA ITEMS

3 - 114

- a) **AB 7535 - Amendments to IMC 18.07.505 and IMC 3.64 regarding Wireless Communication Facilities, including Small Cell Design Guidelines, (A)** **6:30 PM**
[45 min.]

Presented by:
Keith Niven, Economic & Development Services Director

115 - 370

- b) **AB 7538 - Updated Water System Plan, (D)** **7:15 PM**
[60 min.]

Presented by:
Robert York, Engineering Manager
Jeff Hansen, Consultant

371 - 379

- c) **Gilman Blvd. Project Update, (I)** **8:15 PM**
[30 min.]

Presented by:
Brianne Ross, Senior Engineer

381 - 410

- d) **Grant Applications - Newport: 54th to SR-900 and Maple to Sunset, (I)** **8:45 PM**
[30 min.]

Presented by:
Brianne Ross, Senior Engineer

411 - 416

- e) **Project Updates, (I)**
Presented by:
Sheldon Lynne, Public Works Engineering
Director

9:15 PM
[5 min.]

3. ADJOURNMENT

The next meeting is currently scheduled for
May 17, 2018 / Council Chambers.

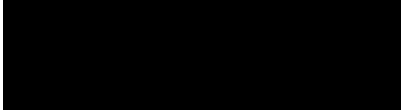
INQUIRIES

Please contact Tisha Gieser at (425) 837-
3000 or tishag@issaquahwa.gov.

Meeting room is wheelchair accessible.
American Disability Act (ADA)
accommodations available upon request.
Please phone 425-837-3000 at least two
business days in advance.

Note: Times listed for meetings topics are
approximate and items are subject to being
shifted from the original order.

(I) Informational, (A) Action Needed, (D)
Discussion



**CITY COUNCIL
AGENDA BILL**
City Council Regular Meeting - 19 Mar 2018

NEW
AB 7538 -
Consent
Calendar

Updated Water System Plan

Proposed Council Action:
Refer to Council Infrastructure Committee

DEPARTMENT OF	PWE - Public Works Engineering, Bob York
COUNCIL LIAISON	n/a
OTHER COUNCIL MEETINGS	n/a
COMP PLAN POLICY NOS.	U-C1, U-C2, U-C3, U-C4, U-C5, U-C6, U-C7, U-C8, U-C9, U-C10, U-C11
OTHER POLICIES	Resolution No. 2014-05
EXHIBITS	A. Draft Resolution

SUMMARY STATEMENT

This agenda bill requests adoption of the 2018 Water System Plan (WSP). The City of Issaquah owns and operates a Public Water System and is required to maintain a current Water System Plan (WSP) approved by the Washington State Department of Health (WDOH), per Washington Administrative Code (WAC) 246-290-100. A WSP must:

- Provide an overview of the existing water system including adjacent purveyors, the boundary of the service area, operating areas, and supply, storage and distribution system facilities
- Describe the water utility policies and criteria for operation, design and planning to ensure future improvements and expansions are consistent with the City's Comprehensive Plan.
- Estimate the effect of future land uses on demographic trends within the service area.
- Analyze historical production and water sales to develop future demand projections.
- Describe the City's water use efficiency goals and identify the role that water conservation will have in reducing future water requirements and how the City's water conservation program will be implemented.
- Document existing water resources available to the City and analyze the ability to meet future water resource needs.
- Review existing water quality data for the system and discuss existing and forthcoming regulatory requirements applicable to the City water system.
- Assess the capability of the existing water system to meet existing and future demands using a hydraulic model.
- Document operations and maintenance (O&M) programs.
- Present a Capital Improvement Program (CIP), indicating priorities for construction, to address potential future water system deficiencies.
- Document the City's financial program for the water utility and identifies steps to be taken in order to ensure adequate funding of the water system in the future.

The last WSP update was prepared in 2012 and was adopted by Resolution No. 2014-05. At the time of adoption, WDOH required that system plans be updated once every 6 years. Since the 2012 WSP was prepared, many changes have occurred in the water system service area, including the adoption of the Central Issaquah Plan and several Development Agreements, and expansion of the service area, primarily due to the assumption of over 1,000 service connections in the South Cove/Greenwood Point neighborhood. These changes, along with the upcoming WDOH deadline for approving an updated plan, necessitate an update to the WSP.

Updated Plan:

The 2018 WSP meets all the requirements outlined above. It provides an evaluation of the City's existing water infrastructure and emerging regulatory trends. In particular, it was developed by coordinating closely with the Development Services Department to generate growth projections based on the 2017 Comprehensive Plan Update. Water supply and usage data were then used to develop a water demand forecast, including the impact of continued water conservation. This demand forecast was used to evaluate options to meet future demand and develop a Capital Improvement Plan over a 20 year timeframe. A primary finding is that the City will need to provide additional treatment of its groundwater supplies relatively soon as the groundwater supplies will need to be blended with regional supplies to enable operational flexibility to reliably serve future demands throughout the water system. Once adopted, the 2018 WSP will be valid for up to 10 years, as WDOH now allows more time to pass before an update is required.

Policy Considerations:

1. The WSP causes no changes to and is consistent with other currently adopted policies.
2. The WSP includes some adjustments to the future water system boundaries, the most significant of which is to recognize the City's desire to work with King County to exclude the East Cougar Potential Annexation Area in King County's 2020 Comprehensive Plan update.
3. There is currently no City policy related to groundwater treatment (e.g., fluoride addition). New policy would need to be developed in conjunction with the capital project proposed in the WSP to treat/blend water supplies.

Next Steps:

The review and comment period is anticipated to take approximately six months. Therefore, it is recommended that the WSP be referred to the Council Infrastructure Committee for review and comment during the same time that outside Agency comments and approvals are sought by WDOH, King County Utility Technical Review Committee, and neighboring water utilities.

Council Infrastructure will then make a recommendation to the full Council regarding the adoption of the 2018 WSP which would supersede the 2012 WSP. A draft resolution is included as Exhibit A.

As discussed in the updated WSP, the need for long term treatment is a critical path item for meeting anticipated future demands from water users. During budget deliberation in 2017, Council requested the development of the WSP prior to approval of funding for design work for a future water treatment plant. Due to the lengthy process to implement a water treatment project, an agenda bill to request funding from the City Council to begin the first phase of planning for a water treatment plant will be on the City Council meeting agenda in April for referral to Committee for review and recommendation.

Financial Information:

Adoption of the 2018 Water System Plan itself, does not obligate the City to perform any new capital projects or require any changes to any ongoing operation and maintenance procedures. Chapter 11 of the WSP provides recommended capital improvements (approximately \$61 million of projects over a 20 year planning period) that are needed to continue providing reliable service. Decisions related to funding the projects will be made as part of the capital budgeting process, where recommended capital projects may be included in the 2020-2024 Capital Improvement Plan (CIP). Chapter 12 of the WSP provides a discussion of financial impacts. As part of the upcoming budget process, the Administration plans to request Council approval to perform a rate study in 2019 to assess impacts to water rates and charges.

Administration's Recommendation:

Approve the proposed resolution adopting the 2018 Water System Plan.

Update:

n/a

Alternative(s):

Do not adopt the 2018 WSP. [Impact: The City would not meet WDOH requirements for operating a Public Water System.]

RECOMMENDATION

Administration / Public Works Engineering Department:

MOVE TO: Refer AB 7538 to the April 11, 2018 (and subsequent) Council Infrastructure Committee meetings for review and recommendation, returning to the full Council on or before Nov. 19, 2018.

RESOLUTION NO. _____

A RESOLUTION OF THE CITY COUNCIL OF THE CITY
OF ISSAQUAH WASHINGTON ADOPTING THE 2018 WATER
SYSTEM PLAN UPDATE.

WHEREAS, the Administration presented the City Council with the Draft 2018 Water System Plan Update on March 19, 2018; and

WHEREAS, the Council Infrastructure Committee has considered the Plan and comments from various agencies and the public; and

WHEREAS, the Draft 2018 Water System Plan Update was modified to incorporate the various agency and public comments to become the Final Water System Plan Update dated _____; and

WHEREAS, the Draft 2018 Water System Plan Update was modified to incorporate the various agency and public comments to become the Final Water System Plan Update dated _____; and

WHEREAS, the 2018 Water System Plan Update is consistent with and supports the policies set forth in the 2017 Issaquah Comprehensive Plan (Water Utility Element); and

WHEREAS, the Development Services Department issued a SEPA Declaration of _____ on _____; and

WHEREAS, the Washington State Department of Health has approved the 2018 Water System Plan Update; and

WHEREAS, the King County Council has approved the 2018 Water System Plan Update; NOW THEREFORE,

THE CITY COUNCIL OF THE CITY OF ISSAQUAH HEREBY RESOLVES AS
FOLLOWS:

Section 1. The City of Issaquah hereby adopts the 2018 Water System Plan Update
dated _____.

Section 2. The 2018 Water System Plan shall be used as a guide for developing
City budgets, for location and sizing of water mains in the development of property, and as a basis
for the exercise of substantive authority under SEPA.

PASSED by the City Council this _____ day of _____, 2018.

TOLA MARTS, COUNCIL PRESIDENT

APPROVED by the Mayor this _____ day of _____, 2018.

MARY LOU PAULY, MAYOR

ATTEST:

CHRISTINE L. EGGERS, CITY CLERK

APPROVED AS TO FORM:

JAMES E. HANEY, CITY ATTORNEY

RESOLUTION NO: 2018-
AGENDA BILL NO: AB 7538

Page Intentionally Left Blank



AGENDA

City Council Regular Meeting

7:00 PM - Monday, May 7, 2018

Council Chambers, 135 E. Sunset Way, Issaquah WA

Page

- | | |
|-----------|--|
| | 1. CALL TO ORDER |
| | 2. PLEDGE OF ALLEGIANCE |
| 5 - 6 | 3. SPECIAL BUSINESS
a) AB 7585 - Affordable Housing Week
Proclamation
<i>Hear Presentation</i> |
| | 4. AUDIENCE COMMENTS |
| | 5. COMMITTEE / REGIONAL REPORTS |
| | 6. MAYOR'S REPORT |
| 7 - 112 | 7. CONSENT CALENDAR
a) ID 0214 - Accounts: Payables and Payroll of
May 7, 2018, \$ 2,649,173.15 |
| 113 - 120 | b) Minutes: City Council Regular Meeting, April
16, 2018
<i>Approve</i> |
| 121 - 122 | c) Minutes: Council Committee-of-the-Whole,
April 24, 2018
<i>Approve</i> |
| 123 - 128 | d) AB 7558 - 2018 Curb Ramp Enhancement
Project
<i>Refer to Council Infrastructure Committee</i> |
| 129 - 133 | e) AB 7559 - 2018 Stormwater Rehabilitation
Project
<i>Award Bid</i> |

135 - 138

- f) **AB 7565 - Interfund Loan Extension for Roadway Improvements**
Refer to Council Services & Safety Committee

139 - 157

- g) **AB 7595 - Amendment to Salary Ordinance**
Refer to Council Services & Safety Committee

159 - 258

- h) **AB 7599 - 2019-2024 Six-Year Transportation Improvement Program (TIP)**
Set Public Hearing; Refer to Council Infrastructure Committee

259 - 262

- i) **AB 7601 - Eastside Fire & Rescue Memorandum of Understanding**
Refer to Council Services & Safety Committee

8. PUBLIC HEARING

263 - 295

- a) **AB 7533 - First Major Amendment to the Costco Development Agreement**
Conclude Public Hearing; Approve Resolution

297 - 312

- b) **AB 7604 - Water Use Efficiency Goals**
Conduct Public Hearing

9. REGULAR BUSINESS

313 - 366

- a) **AB 7507 - Amendments to IMC and Central Issaquah Standards Regarding Inclusionary Zoning Requirements for Central Issaquah**
Adopt Ordinance

367 - 380

- b) **AB 7522 - Creating the Visit Issaquah Organization**
Approve Resolution

381 - 423

- c) **AB 7535 - Amendments to IMC 18.07.505 and IMC 3.64 regarding Wireless Communication Facilities, including Small Cell Design Guidelines**
Adopt Ordinance

10. GOOD OF THE ORDER

- a) **Upcoming Council Meetings**
> [View website calendar](#)

11. EXECUTIVE SESSION

12. ADJOURNMENT

Meeting room is wheelchair accessible.

American Disability Act (ADA) accommodations available upon request. Please phone 425-837-3000 at least two business days in advance.

Guidelines for Public Participation:

Citizen comments are an important part of the public process. We take them seriously and factor them into the decisions we make. Anyone from the public who wishes to comment will have the opportunity to do so. Please direct comments to the whole Council and not individuals. While this is not a question and answer session, we will contact you to follow up, if needed.

The Mayor will announce the allotted time for comments, from 3-5 minutes per person, depending on the number of those in attendance.

When recognized,

1. Use the lectern and speak into the microphone.
2. State your: **Name, Address, and Relationship to City** (e.g. resident, property owner, business owner).
3. Limit comments to the allotted time as announced by the Mayor.
4. Submit any written comments to the City Clerk.

A visual timer has been placed on the lectern. The timer will turn yellow when you are nearing the end of your comment period and will sound to indicate the end of your time.

Personal attacks, obscene language, derogatory remarks and disruptive behavior will not be permitted. If a speaker is out of order, the Mayor will direct the speaker to return to his or her seat. If a speaker does not comply, the Mayor will ask him or her to leave the Council Chambers.

Again, citizen comments, written and verbal, are an important aspect of the public process. The City takes comments seriously,

and we thank members of the public for taking the time to address us during our meetings.



Water Use Efficiency Goals

Proposed Council Action:
Conduct Public Hearing

DEPARTMENT OF	PWE - Public Works Engineering, Bob York
COUNCIL LIAISON	n/a
OTHER COUNCIL MEETINGS	n/a
COMP PLAN POLICY NOS.	U-C10, U-C11
OTHER POLICIES	n/a
EXHIBITS	A. Notice of Public Hearing B. Presentation

SUMMARY STATEMENT

The purpose of this agenda bill is to conduct a public hearing on the Water Use Efficiency (WUE) Goals, which are in Chapter 6 of the 2018 draft Water System Plan (WSP). These goals must be included in the WSP to meet the State's requirement for implementing a water use efficiency plan.

The draft WSP's proposed WUE goal is based on the regional goal developed by Cascade Water Alliance. In addition, the draft WSP includes City-specific informal targets.

Regionally, the City supports Cascade Water Alliance's goal of dedicating necessary resources, "to achieve a cumulative drinking water savings of 0.6 million gallons per day on an annual basis and 1.0 million gallons per day on a peak season (June – September) basis by 2020." This City has participated in numerous water conservation programs and services towards this effort.

The City's informal target is to reduce water consumption by 228,000 gallons per day by 2027. This reflects a 5% reduction in single-family use and a 2% reduction in commercial and multi-family use based on 2016 water use. Examples of activities the City has taken towards reduction include:

- | Reminding customers to follow irrigation best practices
- | Participating in the National Mayor's Water Conservation Challenge
- | Encouraging efficient water use in new construction through the Green Building Program, incentives, rates, and standards.
- | Working on aging watermain replacement.
- | Establishing procedures to manage water loss for water main flushing.

This WUE goal, targets, and conservation activities are further detailed in Chapter 6 of the [Water System Plan](#).

Public Hearing

As part of the Water System Plan planning process, a public forum is required to allow opportunity for the public to participate and comment on the proposed Water Use Efficiency goals presented in the draft plan. The following state regulations (WAC 246-290-830) establish the public comment requirements:

- (a) Goals shall be set in a public forum that provides opportunity for consumers and the public to participate and comment on the water use efficiency goals;
- (b) Public notice must occur at least two weeks prior to the public forum. Public notice must include the purpose, date, time, and place of the forum, and where materials supporting the rationale for the proposed goals can be reviewed;

- (c) The elected governing board or governing body of the public water system shall review and consider all comments received;
- (d) The following must be made available to the public for the purpose of fully documenting the basis for each goal:
- (i) The information listed under WAC 246-290-810(4);
 - (ii) Annual water use efficiency performance reports prepared under WAC 246-290-840;
 - (iii) Water supply characteristics description in accordance with WAC 246-290-100 (4)(f)(iii)(B) or source description in accordance with WAC 246-290-105 (4)(f); and
 - (iv) A summary of the comments received and how they were considered.

All applicable information related to WAC 246-290-830(d)(i), (ii), and (iii) is available in the draft Water System Plan available at issaquahwa.gov/waterplan. Notice of the hearing was published in the Issaquah Sammamish Reporter on April 20, 2018, exceeding the requirement of WAC 246-290-830(b). The public hearing notice is attached as Exhibit A.

The objective of the hearing is for Council to hear and consider testimony on the draft goals. This is important because changes can be requested and made to the goals during the review stage of the Water System Plan.

A brief presentation (Exhibit B) of the draft Water Use Efficiency goal and an overview of Chapter 6 of the draft Water System Plan will be provided prior to the public hearing. No formal Council action is requested at Monday's meeting.

Continued Review

The Water System Plan is currently in the Council Infrastructure Committee for review (AB 7538). Additional opportunities for discussion of the Water Use Efficiency goals and the Water System Plan will occur during Council Infrastructure Committee meetings and Council Committee Work Sessions held periodically over the coming months. Adoption of the Plan is anticipated in November, 2018.

Financial Information:

n/a

Administration's Recommendation:

The Administration recommends conducting the public hearing to obtain public comments regarding the City's Water Use Efficiency Goals.

Update:

n/a

Alternative(s):

n/a

RECOMMENDATION

Administration / Public Works Engineering Department:

MOVE TO: n/a [Conduct Public Hearing]



Legal Notice

Date submitted: April 13, 2018

**CITY OF ISSAQUAH
NOTICE OF COMMENT PERIOD AND PUBLIC HEARING
CITY OF ISSAQUAH WATER USE EFFICIENCY GOALS**

The Issaquah City Council will hold a public hearing at its regular meeting of May 7, 2018 to receive and consider comments regarding the proposed Water Use Efficiency Goals in the City's Draft 2018 Water System Plan. The Water Use Efficiency Goals, which are in Chapter 6 of the Plan, identify the role that water conservation will have in reducing future water requirements and how the City's water conservation program will be implemented.

The City's Draft 2018 Water System Plan Update, including Chapter 6, Water Use Efficiency, is available on the City's website at issaquahwa.gov/waterplan. The Plan can also be reviewed at City Hall Northwest, 1775 – 12th Avenue NW, during business hours.

The Council meeting will begin at 7 PM, in the Council Chambers located at 135 East Sunset Way. The hearing will commence as soon after the beginning of the meeting as business permits. Anyone interested may appear at the hearing and provide comments regarding the Water Use Efficiency Goals.

Written comments will be accepted in advance of the hearing until 3 PM, May 7, 2018, via email to: waterplan@issaquahwa.gov.

Questions? Contact: Bob York, Utilities Engineering Manager at 425-837-3449.

City of Issaquah 2018 Water System Plan

Water Use Efficiency Program and Goals

Public Hearing – May 7, 2018

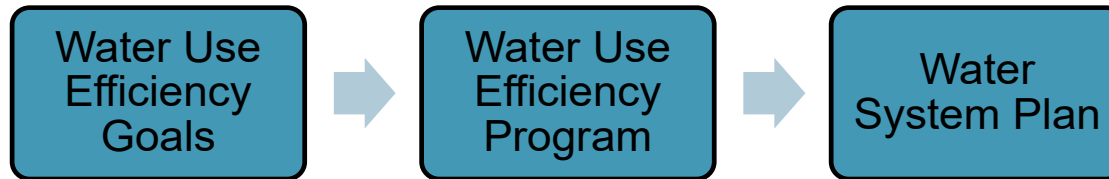


© 2014 HDR, all rights reserved.

Presentation Outline

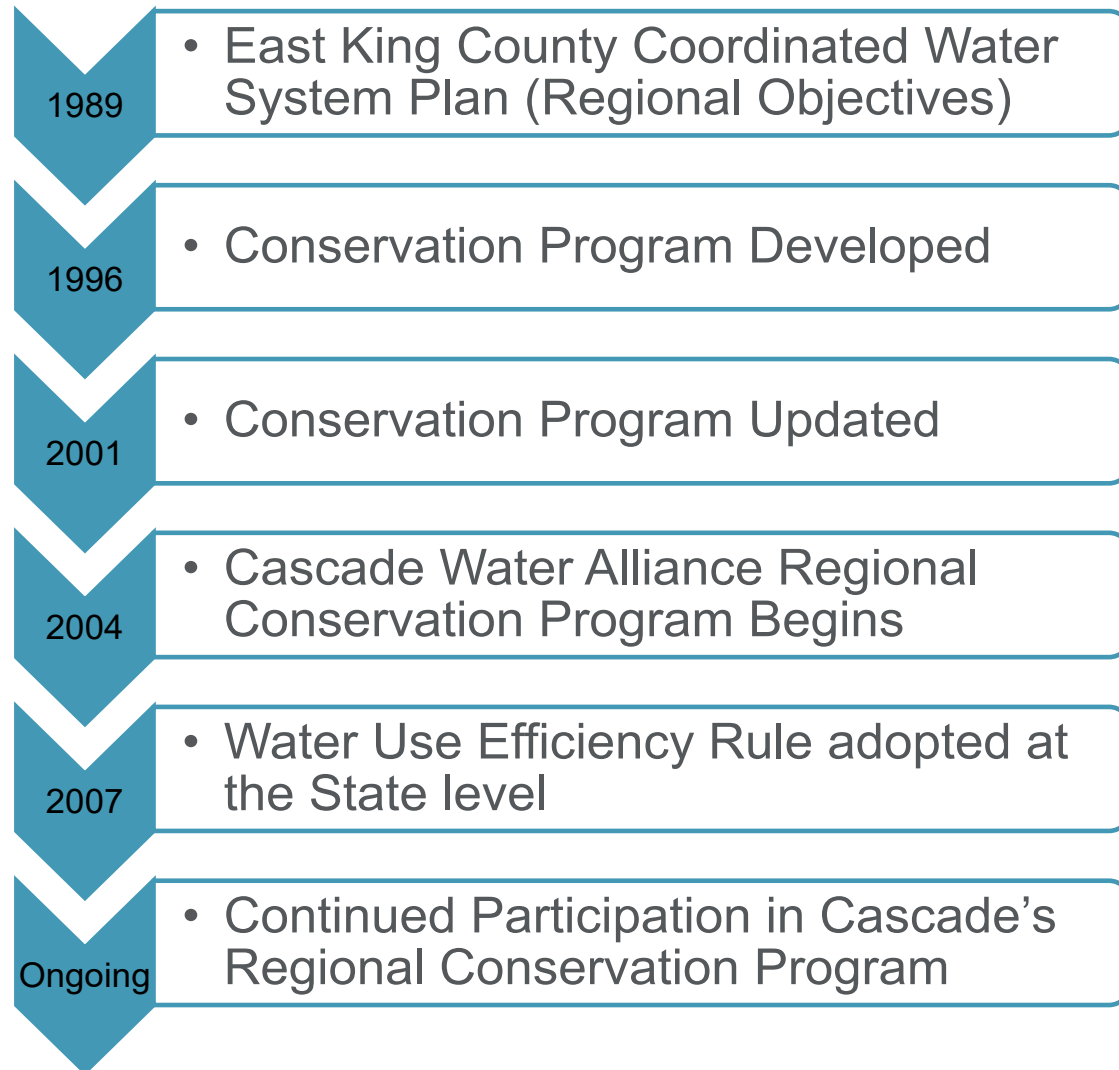
- Purpose for Public Hearing
- History of Water Conservation in Issaquah
- Water Use Efficiency Rule Requirements
- Conservation Measures/Activities
- Historical Water Savings
- Water Use Efficiency Goals

Purpose for Public Hearing









- Water Use Efficiency Goals are a required component of a Water System Plan.
- Goals must be discussed in a public forum, so consumers and the public can comment (WAC 246-290-830).
- This public hearing exceeds the requirement as a way to formally receive comment.
- Public notice was provided on April 20th, more than the required two weeks.
- Council will hear comment, but is not required to act tonight (further discussion in Council Workshops over the coming months prior to Water System Plan adoption).

History of Water Conservation in Issaquah



Water Use Efficiency Rule Requirements

-  Meters (Production & Customer)
-  Track Water Production & Consumption
-  Forecast Demand with Conservation
-  Maintain Distribution System Leakage $\leq 10\%$
-  Implement ≥ 6 Conservation Measures
-  Submit Annual Report to State

Conservation Measures/Activities

Regional (Cascade Water Alliance)

- Free Conservation Devices
 - Shower timers, rain gauges, etc.
- Device Installation at Commercial Customers
 - Showerheads, faucet aerators
- Educational Programs
 - Gardening classes, school presentations, landscape contractor and parks/schools staff training
- Water Audits
- Irrigation System Upgrade Rebates

Conservation Measures/Activities

Local

- Conservation-based Rate Structure
 - “Inclining block” rates
- Focused Interaction with Commercial Customers
 - Irrigation settings, best practices
- National Mayor’s Water Conservation Challenge
 - Residents pledge to conserve
- Green Building Program
 - Permit incentives, landscape code, soil amendment standards, etc.

Historical Water Savings

Gallons per Day, by Customer Class

Parameter	1996	2001	2010	2016	Planning Value ⁽¹⁾
Single Family Residential (per home)	228	209	150	141	150
Multi Family Residential (per unit)	135	135	124	84	124
Commercial (per 1,000 sq ft)	181	134	92	73	92

(1) Used for Demand Forecast. Consistent with 2012 Water System Plan assumptions. Conservative, for water supply planning purposes.

Comparison with other Utilities

Gallons per Day, by Customer Class

Parameter	Issaquah 2016	Issaquah Planning ⁽¹⁾	Sammamish Plateau	Bellevue	Redmond
Single Family Residential (per home)	141	150	224	185-232	176
Multi Family Residential (per unit)	84	124	153	125-143	125
Commercial (per 1,000 sq ft)	73	92	NA	51-118	NA

(1) Used for Demand Forecast. Conservative, for water supply planning purposes.

Values for other utilities are based on data presented in most recent Water System Plans.

Water Use Efficiency Goals

- In 2013, the City adopted Cascade Water Alliance's regional goal as its formal goal
 - Consistent approach taken by all Cascade members, and approved by State Department of Health
- The 2013 goals (still in effect) are to reduce water use by 2020 by the following amounts:
 - Annual basis: 0.6 million gallons per day
 - Peak season (June-Sept) basis: 1.0 million gallons per day
- Progress towards current goal
 - As of end of 2016, Cascade estimates regional savings of approximately 260,000 gallons per day (43% of goal)
- City's proposed formal Water Use Efficiency Goal:
 - Regional goal, which the Cascade Water Alliance Board will review/update in 2019/2020

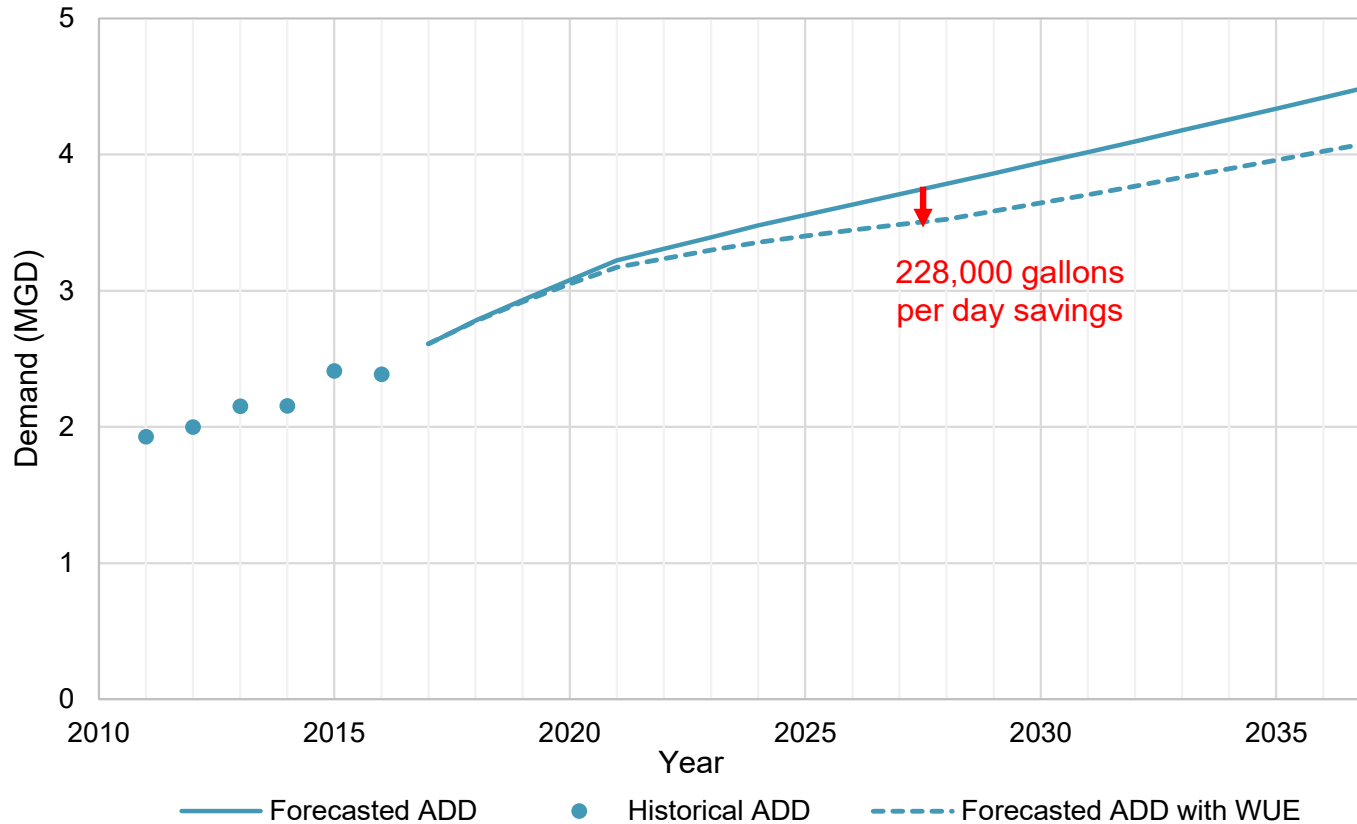
Water Use Efficiency Targets

- The City proposes establishing informal longer-range “targets” to extend beyond the current regional goal timeframe
- Proposed targets, relative to 2016 water use characteristics:

Parameter (gallons per day)	2016	2026	% Reduction
Single Family Residential (per home)	141	134	5%
Multi Family Residential (per unit)	84	82	2%
Commercial (per 1,000 sq ft)	73	71	2%

- These are not proposed as formal, adopted goals
 - They are informal targets, to aid the City in tracking continued progress in water conservation

Water Demand Forecast with Conservation Targets



ADD = Average Day Demand
WUE = Water Use Efficiency
MGD = Million Gallons per Day

Next Steps

- Receive Public Comment
 - Written comments received until 3:00 pm on May 7 (earlier today)
 - Public hearing tonight
 - Input from State, King County, adjacent water utilities by late summer
- Continued Council Consideration through September
 - Council Infrastructure Committee
 - Council Workshops
- Water System Plan Adoption in Fall
 - Water Use Efficiency Goals included



King County

Water Reclamation Evaluation Checklist For Systems with 1,000 or more Connections

The County and State recognize that changing conditions could initiate a need to respond in new ways to future water quality standards, wastewater discharge requirements, take advantage of advances in treatment technologies and/or allow our region to be positioned to respond to changes associated with climate change and population growth.

In 2003, Chapter 90.46 of the Revised Code of Washington (RCW) was amended to require public water systems serving 1,000 or more connections to evaluate opportunities for reclaimed water when completing their water system plans. Please use this checklist to meet King County consistency requirements in responding to this legislation.

Water System Name: _____
Date: _____
PWS ID# _____
Contact: _____

Please use this checklist, including the inventory template, to ensure that your water system plan includes sufficient information about opportunities for reclaimed water and your system's efforts to develop those opportunities. If a question is not applicable or the information is unavailable, then answer, "unknown" or "n/a." King County will consider the checklist completed if each answer is filled in with the best available information, even if the utility states that it is not aware of any reclaimed water opportunities within its service area.

1. Identifying Potential Future Demand for Reclaimed Water: King County maintains a database and map of potential reclaimed water users for evaluating future projects. Please use the template below, or similar table, to provide information to assist King County in further researching these potential uses.

• **Large Utility Water Users** (choose one):

- Attached is an inventory of twenty large (above 20,000 gallons/month on average), non single-family residential, water users served by our utility that have a potential for reclaimed water use, or
- Attached is an inventory of our utility's top twenty water users, or
- The information requested is unknown or not available.

Additional Comments: _____

• **Large Self Suppliers** (choose one):

- Attached is an inventory of large, self-supplied water users within our water utility's service boundaries - especially those near wastewater treatment plants, mainlines, outfalls, and pump stations or similar reclaimed water facilities), or
- The information requested is unknown or not available.

Additional Comments: _____

• **Other** (choose one):

- Attached is an inventory of other water users (such as those that are clustered near one another and could be served by a single system) that may be likely candidates for reclaimed water use, or
- The information requested is unknown or not available.

Additional Comments: _____

2. **Environmental Commitment:** Are you a city/town, or providing water service to a city/town, that has made commitments within resource management plans, salmon recovery plans, or other environmental initiatives for which there is a potential opportunity for using reclaimed water to assist in meeting commitments? (choose one)

Yes, here are plans that have potential for reclaimed water use in our service area to meet the above commitments:

The information requested is unknown, not available.

Additional Comments: _____

3. **Identifying Areas of Potential Use of Reclaimed Water for Environmental Benefit:**

Below are *examples* of uses of reclaimed water **that comply with State, Federal and other reclaimed water environmental, health and safety standards**. All of these uses are currently in effect somewhere in Washington State. To the best of your knowledge, are any of these potential uses for reclaimed water applicable to your area?

River Augmentation (choose one):

Yes, our water rights are limited by instream flows. For more information, King County may contact:

The information requested is unknown, or not available.

Additional Comments: _____

Groundwater Recharge (choose one):

Yes, we withdraw water from an aquifer that is in a groundwater management area, or from a declining aquifer, where water levels may need to be replenished or to maintain aquifer storage. For more information, King County may contact:

The information requested is unknown, or not available.

Additional Comments: _____

Water Rights Mitigation (choose one):

Yes, our area is pursuing, or planning to pursue, new or additional water rights, and there may be an opportunity to use reclaimed water for mitigation of those new water rights. For more information, King County may contact:

The information requested is unknown, or not available.

Additional Comments: _____

Potential Areas of Environmental Need (choose one):

Yes, parts of our service area include potential environmental enhancement locations, such as wetlands enhancement, aquifer recharge, stream flow augmentation, that might be candidates for reclaimed water use. For more information, King County may contact:

The information requested is unknown, or not available.

Additional Comments: _____

Top 20 Non-Residential Water Users*					
Site Owner or Site Name	Site Address	Meter Type	Estimated Annual Water Use (CCF)	Water Uses Not Requiring Potable Water	Is This a Potential Reclaimed Water Customer?
Darigold	611 Front ST N	Commercial	99,800	Unknown	Yes
Swedish Issaquah Hospital Campus	751 NE Blakely Dr	Commercial	17,900	Unknown	Yes
Atlas Apartments	1118 7th AVE NW	Irrigation	16,300	16,300	Yes
The Commons Shopping Center	755 NW Gilman BLVD	Commercial	13,100	Unknown	Yes
Costco Campus	1045 Lake DR	Irrigation	12,000	12,000	Yes
Town & Country Square	1185 NW Gilman BLVD	Commercial	10,800	Unknown	Yes
YWCA Family Village	930 NE High ST	Commercial	8,400	Unknown	Yes
Pickering Place	1435 11th AVE NW	Irrigation	6,600	6,600	Yes
Pickering Square	1802 129th AVE NE	Commercial	6,300	Unknown	Yes
Talus	Shangri-La Way NW	Irrigation	6,200	6,200	Yes
Windsong Apartments	600 Front St S	Irrigation	6,100	6,100	Yes
Issaquah High School and Middle School	700 2nd AVE SE	Public	5,900	Unknown	Yes
Discovery West Apartments	580 8th AVE NE	Irrigation	5,600	5,600	Yes
Costco Campus	800 Lake DR	Irrigation	5,600	5,600	Yes
Pickering Square	1802 129th AVE NE	Irrigation	5,400	5,400	Yes
Heritage Square	700 NW Gilman BLVD	Commercial	5,100	Unknown	Yes
Costco	1801 10th AVE NW	Irrigation	4,900	4,900	Yes
Pickering Barn	965 10th AVE NW	Irrigation	4,800	4,800	Yes
Homewood Suites	1484 Hyla AVE NW	Commercial	4,700	Unknown	Yes
Meadows Shopping Center	1620 NW Gilman BLVD	Commercial	4,500	Unknown	Yes

* Issaquah billed consumption broken into customer classes of apartments, commercial, duplex, multifamily, public irrigation, private irrigation, public, and single family residential. Table is the largest 20 users from the following categories: commercial, public irrigation, private irrigation, and public.

Largest Self-Supplied Water Users*				
Site Owner or Site Name	Site Address	Annual Water Right Qa (ac-ft)	Water Uses Not Requiring Potable Water	Is This a Potential Reclaimed Water Customer?
King County Dept. of Natural Resources	Section 20, T24N R6E	1,200	Unknown	Yes
Issaquah Creamery	NE 1/4 of SE 1/4 of Sec. 28, T24N R6E	405	Unknown	Yes
Consolidated Dairy	NE 1/4 of Section 28, T24N R6E	1,232	Unknown	Yes

* List of locations from Table 6.2 of Appendix D - Reclaimed Water Opportunities from the 2012 Cascade Water Alliance Transmission Supply Plan

Table of Service Connections by Operating Area and Pressure Zone

Created by GIS join of pressure zone layer (HDR created) with service connection layer (City created)

Date created: 2018-11-28

Row Labels	Count of FID
COUGAR RIDGE	69
COUGAR RIDGE 431	69
FOREST RIM	96
FOREST RIM 1201	96
GRAND RIDGE	39
GRAND RIDGE 1355	39
HIGHWOOD	389
HIGHWOOD 677	80
HIGHWOOD 715	14
HIGHWOOD 782	204
HIGHWOOD 950	91
ISSAQUAH HIGHLANDS CENTRAL PARK	979
ISSAQUAH HIGHLANDS CENTRAL PARK 742	979
ISSAQUAH HIGHLANDS SUMMIT	1817
ISSAQUAH HIGHLANDS SUMMIT 1000	1397
ISSAQUAH HIGHLANDS SUMMIT 1234	271
ISSAQUAH HIGHLANDS SUMMIT 750	149
LAKEMONT	50
LAKEMONT 520	50
MONTREUX	261
MONTREUX 1005	208
MONTREUX 1150	1
MONTREUX 364	15
MONTREUX 617	14
MONTREUX 744	23
MOUNT HOOD	712
MOUNT HOOD 483	712
SOUTH COVE	1036
SOUTH COVE 260	954
SOUTH COVE 270	82
TALUS MOUNTAIN VIEW	308
TALUS MOUNTAIN VIEW 752	308
TALUS SHANGRI-LA	466
TALUS SHANGRI-LA 616	466
VALLEY	1806
VALLEY 297	1806
WILDWOOD	113
WILDWOOD 588	22
WILDWOOD 634	91
Grand Total	8141

Page Intentionally Left Blank