







Eastern R	egional Office P	resenters
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Counties: Spokane, Walla Walla, Columbia, Garfield	Counties: Chelan, Douglas, Ferry, Kittitas, Lincoln, Okanogan, Pen Oreille, Spokane, Stevens	Counties: Adams, Asotin, Benton, Columbia, Franklin, Garfield, Grant, Klickitat, Walla Walla, Whitman, Yakima
	WA State DOH 5	





















- Comprehensive plans
- Local land use and zoning
- Coordinated water system plans (abbreviated)
- Sewer and water general plans
- Groundwater management plans and WRIA
- Regional water supply plans
- Other water system plans





































	ER	WORKS U Capac	HEET 4-1 ity Summary			
Specific Single-Fami	ily Residential	Connecti	on Criteria (mea	nsured or	estimated dema	inds)
Average Day Den	nand (ADD):		gpd/ER	ιU		
Maximum Day De	emand (MDD)		gpd	I/ERU		
	Water System	Connectio	ns Correlated to I	ERUs		1
Service Classification	Total MDD for classification,	the gpd	Total # Connect the classificatio	tions in n	ERUs	
Residential						-
Single-family						7
Multifamily						
Nonresidential					•	-
Industrial						
Commercial						
Governmental						
Agricultural						
Recreational						
Other (specify)						
DSL			N/A			
Other (identify)						
	Service Capaci	ty as ERUs	s and Gallons Per	Day		
Water System Compo	nent (Facility)	ERU Cap Compor	pacity for Each nent	GPD Cap Compon	pacity for Each lient	
Source(s)						
Treatment						
Equalizing Storage						
Standby Storage						
Transmission						
Water Rights (Qa and	Qi)					
Other (specify)						
Water System Service (based on the limiting	Capacity (ERUs) water system c	= omponent	t shown above)			
Notes: • Capacity determine	ations are only for a are distribution syst tion system. These l	existing facil em limitatio imits not exp	ities that are operations (Section 4.5.4) on pected to limit the ER	onal for the ERUs becau U capacity	water system. ise these are location-s of the entire water syst	specific tem.
 Not shown above a within the distribut 						













Chapter 3: 3.5 Asset Condition Assessment (Continued)

Provide

- Source description and condition
- Water treatment description and condition
- Storage description and condition
- Distribution system description and condition

(A	Existing Co	Table 3-2 mponent Inv nal rows as		ory		
Distribution System Inventory Components	Units	Number of Units	Remaining Useful Life	Condition Rating	Criticality Rating	Replacement Cost
Distribution Pipelines ≤ 6 inch	feet					
Distribution Pipelines 8 -10 inch	feet			1		1
Distribution Pipelines 12-14 inch	feet	1	11		1.200.0	12
Distribution Pipelines 16-20 inch	feet					
Distribution Pipelines 24-30 inch	feet				1	
Distribution Pipelines 36-42 inch	feet				1	
Distribution Pipelines 48-60 inch	feet					
Distribution Pipelines 66-84 inch	feet				-	1
Distribution Pipelines 90-96 inch	feet					
Distribution Pipelines > 96 inches	feet					
Service and Intertie Meters ≤ 1.0 inch	Each					
Service and Intertie Meters 1.5 inch	Each					10
Service and Intertie Meters 2 inch	Each					
Service and Intertie Meters 3 inch	Each				1	
Service and Intertie Meters 4 inch	Each					1.1
Service and Intertie Meters 6 inch	Each				1	1
Service and Intertie Meters > 6 inch	Each					1.0
Pressure Reducing Valves ≤ 6 inch	Each					12
Pressure Reducing Valves 8-12 inch	Each				1	1
Pressure Reducing Valves 14-16 inch	Each			1.0	i	1
Pressure Reducing Valves 18-24 inch	Each					
Pressure Reducing Valves > 24 inches	Each	1	15 0 0 51	17	2	1

Max Payments Occur Thru Y	(Connections, ERUs etc.):		1500 Equity: \$405,056 Fee:		\$270 Ann		Reserves: inual \$\$ to Reserves:		\$325,800						
2040	ear 3; R	evenue in	year 16 al	pove liste	d needs:	\$2,145,104 Reserve Cash Applied: \$			\$200,000	Payme	ayments over 16 years:		\$3,440,105		
sset and Description	Install Date	Est. Effective Life	Condition Bating	Critical Number	Calc Remain Life	Original Cest	Book Value Drigmal \$\$	Replacment Cost	Infl. Rate	Accum Loss of Value (Dep)	Debt and Grants	Equity	Cash Replace?	Saving Acc'l Interest	Future Co
	Year	Years	T to 10 Tab A	1 to 5 Tab A	Years	Cost \$	Value \$	Cost \$	%	Loss \$	Value \$	Value \$	×	%	Value 1
Well #1	1995	40	1	3	16.0	\$50,000	\$28,590	\$200,000	1.5%	\$120,000	\$0	\$80,000	x	1.0%	\$253,79
Well #1 pump	2015	15	1	3	11.0	\$5,000	\$3,892	\$10.000	1.5%	\$2,667	\$0	\$7,333	x	1.0%	\$11,779
Well #2	1999	40	5	1	10.0	\$75,000	\$25,254	\$350,000	1.5%	\$262,500	\$0	\$87,500	x	1.0%	\$405,18
Well #2 Pump #1	1999	15	5	3	000	\$5,000	\$0	\$10,000	1.5%	\$10,000	\$0	89	x	1.0%	\$10,000
Well #2 Pump #2	1999	15	5	a	000	\$5,000	\$0	\$10,000	15%	\$10,000	\$0		×	1.0%	\$10,00
PVC Pipe	1975	90	7	2	9.2	\$250,000	\$49,203	\$1,000,000	1.5%	\$897,778	\$0	\$102,222	x	1.0%	\$1,146,8
Storage tank #1 North	1975	60	3	4	12.8	\$120,000	\$49,289	\$300,000	15%	\$236,000	\$8	\$64,000	x	1.0%	\$362,98
Storage tank #2 South	1975	60	7	1	3.2	\$400,000	\$41,074	\$1,200,000	1.5%	\$1,136,000	\$0	\$64,000	x - 1	1.0%	\$1,258.5



hapte	er 3: 3.6 Sum	ponent Def	Table 3-3 iciencies and Pro	ject Solution	Deficiencie
Classification of deficiency ¹	Description of Project Solution	(Add addit Total project cost ²	ional rows as re Anticipated source of funding	equired) Location in WSP where deficiency is identified	Location in WSP where the analysis demonstrates deficiency will be addressed by the project

























Measures to be completed by water system

- Showerhead or faucet replacement
- School education programs
- Advertising
- Water Bills showing consumption history
- Soil moisture sensors/rain gages
- Irrigating with reclaimed water
- Promote low-water use landscaping

















































This is the utilities' opportunity to take a good look at the watershed and identify those things that have already had or will have the potential to change the water quality or quantity they receive at the intake.

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Chapter 5: Watershed Management and Control Measures

In most cases this is an opportunity for the utility to look outside themselves. We must acknowledge that unless the utility owns the watershed, they will depend on others to help with watershed management and control.

Example: Establishing easements along stream corridors. Written agreement to not spray herbicides within a specific distance of the water system, or a written communication strategy when herbicides will be applied.

Chapter 5: System operation

This section should identify how resilient your system is. Not your water system, but how your water system interacts with the watershed system.

If your source is contaminated, has an extremely high turbidity event, or declines significantly, how will you handle the change—what other sources do you have, how capable is your treatment plant, when will you need to go to another source?

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Chapter 5: Documentation of Water Quality Trends

The idea behind this section is to evaluate changes in your water quality and associate them to watershed changes.

This section is not about showing your compliance with water quality sampling or submitting reams of water quality data. It is expected that the water quality data the system gathers will be evaluated and compared to changes in the watershed.

This is an opportunity to use water quality data to show degradation or improvement within the watershed.















Chapter 6: Example	Table 6- Routine O&M	ntativ 1 Tasks	ve Maintenance
Task	Individual or	Frequency	Applicable SOPs, O&M Manuals, or Other
	Position		Internal Guidance
			1]







Sum	Chapter 6: Exar Table 6-2 mary of O&M Deficiencies, Expenses,	nple) d Action	
O&M Deficiency	Action to be Taken	Year	Cost (if any)	Source of funding
	WA State DOH 9	6		





Chapter 7: Two Types of Projects Exception

The following may be exempt from the DOH review and approval process.

Distribution mains. The submittal exemption for *water distribution main projects* is commonly pursued by water systems that anticipate distribution main expansions for new development or ongoing water main replacements that don't meet the definition of a "replacement-in-kind" under WAC 246-290-125(1)(c).

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Chapter 7: Two Types of Projects Exception (Continued)

Other distribution-related projects. The submittal exemption for *other distribution-related projects* are rarely pursued by water systems due to the *site-specific attributes of new reservoirs and pump stations*.

Typically, water systems limit their information to standards such as *replacement reservoir coatings*.





Chapter	7: WSDM
enapter	WSDM Cross-Reference
WSDM	Water System Planning Link
Chapter 2	Design submittal exceptions for distribution main construction
	Estimating residential and non-residential demands
Chapter 3	
Chapter 3 Chapter 4	Physical capacity analysis
Chapter 3 Chapter 4 Chapter 5	Physical capacity analysis Source development and reliability, water quality, interties, back-up power, water rights
Chapter 3 Chapter 4 Chapter 5 Chapter 6	Physical capacity analysis Source development and reliability, water quality, interties, back-up power, water rights Distribution system hydraulic analysis, sewer-water main separation, looping, minimum design standards, water quality
Chapter 3 Chapter 4 Chapter 5 Chapter 6 Chapter 7	Physical capacity analysis Source development and reliability, water quality, interties, back-up power, water rights Distribution system hydraulic analysis, sewer-water main separation, looping, minimum design standards, water quality Reservoir sizing criteria, natural hazards, water quality
Chapter 3 Chapter 4 Chapter 5 Chapter 6 Chapter 7 Chapter 8	Physical capacity analysis Source development and reliability, water quality, interties, back-up power, water rights Distribution system hydraulic analysis, sewer-water main separation, looping, minimum design standards, water quality Reservoir sizing criteria, natural hazards, water quality Booster pump stations, back-up power, natural hazards



Chapter 7: 7.4 Construction Certification (Continued)

<u>Construction Completion Report for Distribution Main</u> <u>Projects DOH 331-147</u>. Use this form only for distribution main projects not requiring prior written approval from us. The water system does not have to submit this form to us following construction completion. However, the water system must maintain a completed form on file and make it available to us upon request. This form is referenced in the submittal exception process (see WAC 246-290-125(2)).

WA State DOH | 105

Chapter 7: 7.4 Construction Certification (Continued)

<u>Construction Completion Report Form for Submittal</u> <u>Exception Process DOH 331-146</u>. Use this form only for distribution-related projects not requiring prior written approval from us. Distribution-related projects include booster pump stations, storage tanks, internal tank coatings, and transmission mains. Submit this report to us after constructing new storage tanks or booster pump stations, but only maintain a completed form on file for other distribution-related projects (WAC 246-290-125(3)(f)). This form is used in the submittal exception process (see WAC 246-290-125(3)).

Health CONSTRUCTION COMPLETION REPORT FORM
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Malay Adams Data Mala Speakanes Apparently 60.0
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DDH Form 331-147 (Updated 08/10)















Ch	apter 8: 7	Гаb	le 8-1		
Capital Im	Table 8-1 provement Program S	ummar	v and Schedul		
Project	Project Type ¹	Year	Total project cost ²	Anticipated source of funding ⁴	Classification of deficiency
		_			
					-
 Select from among, all that apply: Source, tr Include total project costs, including enginee 	eatment, storage, distributic ring design, financing, state	n, transn taxes, co	nission, pumping, ontingency, and co	operations, maintenance, e onstruction. State whether	equipment. the cost is in
current dollars or inflated dollars. Describe a	all assumptions about costs.		4 1		
 A. Select from among, all that apply: Enforcem 	ent, water quality, water qu	antity, er	id of useful life (r	eplacement), pressure, reli	ability, resilien
growth, public safety/fire flow, energy efficient	ency, and other				



































- Local governments
- Other state agencies
- Watershed or regional planning entities
- Water system governing board
 - Resolution approving and adopting WSP
- Tribal government
- Fire authority







- Cross connection control annual summary reports
- Water use efficiency report
- Facility inspection reports
- Consumer confidence report
- Consumer alerts or public notices issued
- Water treatment plant operational reports
- Water quality monitoring summary
- Unmetered authorized water use
- Operator certification









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	Water System Planning Guidebook Comments and Suggestions	
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2. Your	Title	
3. Your	Email Address	
4. Your	Organization	
5. List t textb	he WSPG Section Number/Appendix reference in the box below. Add your comments to the ox in the next question. This format allows us to sort the answers.	
6. Enter	r your comment/question/edit/suggestion for the section/appendix referenced above.	



