

APPENDIX 1

WATER TASKS IN COMPREHENSIVE PLAN

REQUIREMENT	ELEMENT
Encourage multiple use of forestry land, including recreation open space, watershed management, and wildlife habitat.	LU-FL 28.1
Locate major parks and open spaces to take advantage of natural processes (ie. wetlands and tidal actions).	LU-OS 57.1
Locate community facilities outside of floodplains, wetlands, riparian areas,...construct to protect major aquifers.	LU-PF 62.10 & 11
Encourage water conservation through land use controls.	LU-UT 69
Reflect natural constraints of streams, floodplains, meander zones and riparian habitat zones in land use controls.	LU-SW 80.2
Establish systematic and comprehensive approach to solving existing surface water problems.	LU-SW 81.
Balance economic, engineering, environmental and social factor.	LU-SW 81.1
Prefer nonstructural measures over structured measures.	LU-SW 81.2
Integrate watershed plans into comprehensive planning goals.	LU-SW 81.3
Identify priority watersheds, develop and implement nonpoint pollution watershed action plan.	LU-SW 81.4
Establish stormwater education.	LU-SW 81.5
Coordinate Pierce County Storm Drainage Programs and Surface Water Management Plan with Comprehensive Plan.	LU-SW 81.6
Implement Stormwater Best Management Practices, including density, storm corridors and buffers, retention and detention systems.	LU-SW 81.8
Preserve opportunities for other uses when implementing stormwater management measures.	LU-SW 82.1

REQUIREMENT	ELEMENT
Avoid using stormwater management structures which obstruct fish passage measures.	LU-SW 82.2
Preserve and enhance existing flow characteristics for fisheries and other riparian zone uses.	LU-SW 82.3
Improve diversity of habitat with stormwater control facilities where possible.	LU-SW 82.4
Restore the lands natural character through changes in land use allowing natural drainage systems to work.	LU-SW 82.5
Adopt and enforce ordinance controlling runoff from new development.	LU-SW 81.7
Prefer natural drainage over pipelines or enclosed detention systems. - Actively pursue preservation of wetlands, floodplains and streams.	LU-SW 83.1
Apply for NPDES permit for stormwater.	LU-AW 83.2
Seek public/private sector compatibility for stormwater systems. - Opportunity for public comment. - Standardization with cities. - Interlocal coordination on water quality monitoring and data base management.	LU-SW 84
Preserve water for natural resource based activities.	RUR 3.1
Minimize impervious surface in development through changes in site development regulations to include proportionality provisions.	RUR 3.4
Minimize use of constructed drainage/encourage alternatives such as swale, on-site retention, vegetative cover, etc.	RUR 3.5
Encourage Best Management Practices for animal waste or forestry practices.	RUR 3.6
Launch a cooperative and coordinated surface and groundwater management plan.	ECD 8.3

REQUIREMENT	ELEMENT
Create a Pierce County Environmental Quality Commission, including programs for air quality, water quality and quantity.	ENV 1
<p>Establish Environmental Health Performance Goals.</p> <ul style="list-style-type: none"> - No net loss of wetlands. - Full compliance with 1994 state water quality standards. - Improve water quality and quantity and watershed conditions. 	ENV 2
Prioritize and protect important aquifers and surface waters.	ENV 5
Identify and map aquifers, recharge areas and surface waters.	ENV 5.1
<p>Manage and plan water resources on a watershed basis.</p> <ul style="list-style-type: none"> - Develop and implement Watershed Action Plans. - Complete Pierce County groundwater resource inventory. - Develop programs for protecting at risk groundwater. 	ENV 5.2
<p>Develop performance standards for uses which impact water quality or quantity in aquifers, watersheds, and surface waters.</p> <ul style="list-style-type: none"> - Establish aquifers recharge standards - new facility compliance as well as retrofitting of existing facilities. - Design new development designed for minimum impact on surface water. - Strengthen as needed regulation/enforcement of animal waste disposal, failing septic systems, etc. - Locate employment and community facilities to protect water resources. - Pinpoint specific remedial actions for shellfish protection. - Protect water quality and quantity for fish hatcheries. 	ENV 5.3

REQUIREMENT	ELEMENT
<p>Ensure adequate recharge and protection of quality in Pierce County aquifers.</p> <ul style="list-style-type: none"> - Mitigate or eliminate uses which store, handle, or process hazardous waste in recharge areas. - Natural and engineered solutions for aquifer recharge quality and quantity (natural solutions are preferred). - Require new development to maintain percentage of vegetation. 	ENV 5.4
<p>Establish performance standards to address stormwater runoff and nonpoint source pollution.</p> <ul style="list-style-type: none"> - Enhance existing stormwater and erosion control standards. 	ENV 5/5
<ul style="list-style-type: none"> - Reduce or control pollutants from paved surfaces. - Pursue alternatives to roadside spraying. - Implement conservation measures and BMP=s including: water saving devices, utilization of low grade process water by industry. - Encourage co-location of industry requiring water. - Encourage landscaping and site development techniques which conserve water. - Provide economic incentives for industries/homes utilizing conservation practices. - Investigate possible use of gray water. - Minimize impervious ground cover on new development. - Consistent with stormwater NPDES investigate disallowing the discharge of stormwater pollutants into surface or groundwater...consistent with NPDES stormwater discharge requirements. 	
<p>Strengthen education programs...groundwater and surface water quality and conservation.</p>	ENV 5.6

REQUIREMENT	ELEMENT
<ul style="list-style-type: none"> - Coordinate with various Pierce County departments, other agencies, and local water utilities. 	
Coordinate with Federal Agencies to eliminate point source pollution on federal lands.	ENV 5.7
Conduct watershed analyses. <ul style="list-style-type: none"> - See list 6.1.1 - 6.1.6 for specific detail - 6.1.6 is implementation of L.P.W.A.R. 	ENV 6.1
Establish a Pierce County ecosystem restoration strategy coordinated with federal, state, and private efforts and based upon each watershed's analysis results.	ENV 6.2
Facilitate the intergovernmental relationships and agreements that will be necessary to fulfilling Pierce County's ecosystem restoration effort and obligations.	ENV 6.3
Establish long term programs to evaluate and mitigate cumulative impacts of land use activities on aquatic ecosystems in Pierce County.	ENV 7
Provide for maintenance and protection of fish and wildlife habitat areas.	ENV 8
Identify and map all areas where critical fish and wildlife habitats exist in Pierce County.	ENV 8.1
Prioritize the relative values of habitat areas and place regulatory emphasis on the critical habitat areas.	ENV 8.2
Maintain fish and wildlife movement corridors as appropriate to protect species. <ul style="list-style-type: none"> - Require buffers based on the characteristics of each body of water. 	ENV 8.3
Amend existing regulations and policies or develop new strategies to protect critical fish and wildlife habitat where necessary. <ul style="list-style-type: none"> - Require review of new development impact on critical habitat area. Encourage subdivision dedication of critical fish habitat as open space	ENV 8.4

REQUIREMENT	ELEMENT
<p>by: 1) providing bonus density incentives; 2) linking adjacent open spaces for wildlife corridors; and 3) explore use of TDR's.</p> <ul style="list-style-type: none"> - Discourage incompatible land uses near critical habitat areas. - Buffer critical habitat areas from employment, residential and community facilities. - Evaluate Pierce County Shoreline Master Program and Management Use Regulations to determine: <ul style="list-style-type: none"> • Design the appropriate shoreline environments for critical areas. • Consider special performance standards. • Evaluate and amend Pierce County Site Development Regulations. • Amend clearing requirements to require the retention of vegetation. • Provide specific erosion control measures. • Establish thresholds for clearing permits. • Habitat management plans must be prepared prior to stormwater drainage approval. • BMP's for stormwater drainage. 	
<p>Pursue public acquisition of critical fish and wildlife habitat areas.</p> <ul style="list-style-type: none"> - Develop comprehensive inventory of habitat areas. - Utilize a number of financing approaches. 	ENV 8.5
<p>Establish educational programs for private land owners to foster maintenance and enhancement of habitat areas.</p> <ul style="list-style-type: none"> - Provide county staff to develop education programs. 	ENV 8.6
<p>Seek cooperation with all entities on issues impacting fish and wildlife habitat.</p>	ENV 8.7
<p>Establish land use practices in flood hazard areas so that development does not cause:</p>	ENV 9.9

REQUIREMENT	ELEMENT
<ul style="list-style-type: none"> - Encourage low intensity land use activities in floodplains. - Encourage lower densities and intensity land uses in floodplains. 	
Direct critical facility development away from flood hazard areas.	ENV 9.10
Require appropriate site development and design standards for flood hazard areas.	ENV 9.11
Pursue public acquisition of flood hazard areas.	ENV 9.12
Establish county-wide National Flood Insurance Program Community Rating System.	ENV 9.13
Provide for the long term protection and “no net loss” of wetlands.	ENV 10
Identify and map all wetland areas.	ENV 10.1
Provide for innovative and equitable wetland management methods.	ENV 10.2
Provide for management of wetland sites in a manner that is not punitive to users of legally altered wetland sites.	ENV 10.3
Improve communication and cooperation among governmental agencies and public regarding wetland protection.	ENV 10.4
Protect the natural ability of wetlands to improve the quality and quantity of surface water runoff, protect functions and values.	ENV 10.5
Develop incentive programs to provide landscape diversity to protect wetland natural functions.	ENV 10.6
Provide educational opportunities.	ENV 10.7
Pursue public acquisition of important wetland areas in Pierce County.	ENV 10.8
Review and amend Pierce County Wetland Management Regulations.	ENV 10.9
Prefer wetland impact avoidance or develop appropriate mitigation which considers the regional needs for wetland functions and which equals or exceeds established wetland replacement ratios. Wetland mitigation or replacement should occur in the same watershed and	ENV 10.10

REQUIREMENT	ELEMENT
preferably within the SMA sub-basin.	
Provide sewer service in support of the Urban Growth Area.	UT-S 14
Requires sewer service within the Urban Growth Area.	UT-S 14.1
Forbid sewer interceptor extension outside the Urban Growth Area except: 1) to remedy health problems, or 2) by formal binding agreement made prior to establishment of the Urban Growth Area.	UT-S 14.2
Forbid connections from interceptors to properties along the interceptor alignment where urban intensity development is not consistent with the Urban Growth Area boundary or tier designations.	UT-S 14.3
<p>Coordinate phased expansion of interceptors with municipalities.</p> <ul style="list-style-type: none"> - Priority to existing urbanized unincorporated areas. - Priority to existing municipalities that do not have ability to add capacity. 	UT-S 14.4
Adopt regulations which prevent new permanent on-site and community septic systems within Urban Growth Areas.	UT-S 14.5
<p>With Urban Growth Areas interim on-site approved septic systems should be permitted inside Urban Growth Areas where:</p> <ul style="list-style-type: none"> - Design incorporates sewer facilities to facilitate future hook-up; and - Applicant agrees not to object to future LID or hook-up actions. 	UT-S 14.6
<p>Plan for sewer capacity and facilities needed to serve projected population within Urban Growth Areas.</p> <ul style="list-style-type: none"> - Work with other sewer service providers to identify the service areas. - Amend Pierce County General Sewerage Plan to serve as county-wide sewage plan for all basins. 	UT-S 14.7
Ensure sewer availability or potential capacity is not the sole justification for expansion or development inconsistent with:	UT-S 14.8

REQUIREMENT	ELEMENT
<ul style="list-style-type: none"> - County-wide planning policies. - Sewerage General Plan. - Urban Growth Area boundaries. - Applicable municipal land use plan. - County Comprehensive Plan. 	
Promote reliable and cost-effective service.	UT-S 15
Encourage/investigate alternative techniques or innovative systems for sewage and biosolids use.	UT-S 15.1
Preferred sewer routing (existing)	UT-S 15.2
Expand the Chambers Creek Wastewater Treatment Plant	UT-S 15.3
Plan and construct facilities to create a Class A biosolid product	UT-S 15.4
Review and correct previously adopted sewer plans, adopt where appropriate.	UT-S 15.5
Promote pretreatment of industrial wastes.	UT-S 15.6
Promote reliable water service throughout Pierce County.	UT-WA 21
<p>Update CWSP to ensure.</p> <ul style="list-style-type: none"> - Balance between supply and demand. - Consistency plan for water supply emergencies. 	UT-WA 21.1
Develop criteria to identify adequate and reliable water service providers.	UT-WA 21.2
Ensure water systems meet guidelines for adequate and reliable water systems, including flexible fire flow standards.	UT-WA 21.3
Within Urban Growth Areas, prohibit individual wells except for special circumstances.	UT-WA 21.4

REQUIREMENT	ELEMENT
Petition DOE for Water Reservation based on 20 year projection. - Support detailed availability study.	UT-WA 22.1
Adopt public water resource policies to promote efficient groundwater management. - Delineate existing and future service area boundaries for public water systems. - Suspend enforcement of exclusive future service areas until system has approved water plan.	UT-WA 22.2
Consider more precise standards for determining adequacy of water supplies proposed to serve existing and new development.	UT-WA 22.3
Support water conservation and education measures.	UT-WA 23
Require conservation devices in building and plumbing codes.	UT-WA 23.1
Mandate conservation measures for all land uses.	UT-WA 23.2
Mandate water conserving landscaping plans.	UT-WA 23.3
Incorporate State water conservation guidelines into CWSP and Water General Plan.	UT-WA 23.4
Coordinate water resources planning.	UT-WA 24
Form regional study groups to review resource planning.	UT-WA 24.1
Require water system plans coordinate with adjacent Group A purveyors.	UT-WA 24.2
Require water plans to be compatible with land use planning.	UT-WA 24.3
Explore feasibility of regional supply system.	UT-WA 24.4
Implement Satellite Management Program for new and failing water systems.	UT-WA 25

REQUIREMENT	ELEMENT
<p>Discourage proliferation of small water systems.</p> <ul style="list-style-type: none"> - New water systems only if operated under CWSP management system. - Encourage extension of distribution systems. 	<p>UT-WA 25.1</p>
<p>Require water systems to satisfy current regulations expanding service to additional customers.</p>	<p>UT-WA 25.2</p>
<p>Insure water service for new development is made in compliance with all applicable laws and regulations, including operating under an approved water system plan.</p>	<p>UT-WA 25.3</p>
<p>Groundwater protection</p> <ul style="list-style-type: none"> - Reduce risk of salt water intrusion. - Improve well construction and abandonment practices. - Request TPCHD develop special on-site sewage disposal systems for commercial. - Implement long-term groundwater quantity and quality monitoring program. - Request TPCHD start program to prevent septic failures. 	<p>UT-WA 26</p>
<p>Review and amend the following plans:</p> <ul style="list-style-type: none"> - CWSP; Gig Harbor Groundwater Management Plan; Clover/Chambers Creek Groundwater Management Plan. 	<p>UT-WA 27</p>
<p>Implement effective SW Management Plan.</p>	<p>UT-SW</p>