

APPENDIX "E"
CURRENT WATER QUALITY PROGRAMS

ENTITY	SECTION/ DIVISION	PROGRAM DESCRIPTION
FEDERAL		
Environmental Protection Agency (EPA)		Ultimately the responsible agency charged with implementation of the entire "Clean Water Act." Many aspects are delegated to states.
	Municipal NPDES Requirements	<p>The 1987 'Water Quality Act' amended the Federal 'Clean Water Act' to require the US Environmental Protection Agency (EPA) to impose stormwater discharge permits under the "National Pollutant Discharge Elimination System (NPDES) program. In Washington, the program is administered by the DOE.</p> <p>Clean Lakes Program Region X. Ongoing program to improve water quality of lakes. Consists of two phases:</p> <p>Phase I -- problem assessment for lakes and developing restoration plans</p> <p>Phase II -- implementation of the "Phase I Plan". To receive federal funds, 50% state/local match & strong local citizen involvement required. Region X (Northwest U.S.) has decided to combine TMDL process with "Clean Lakes Program." Requires TMDLs as precondition for receiving "Clean Lakes" funds at end of first phase of project.</p>

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<p style="text-align: center;">United States Geological Survey</p>		<p>Various Programs to include Water Quality, Water Quantity and Stream Biology. Specific projects in the Region include: The <i>Puget Sound Basin National Water Quality Assessment Program (NAWQA)</i>, <i>Water Resources of the Gig Harbor Peninsula</i> and adjacent areas, Washington; recharge from precipitation in three small glacial-till-mantled catchments in the <i>Puget Sound Lowland, Washington</i>; Hydro geologic framework of the <i>Puget Sound Aquifer System, Washington and British Columbia, Canada</i>.</p>
<p style="text-align: center;">USDA</p>	<p style="text-align: center;">Consolidated Farm Services Agency</p>	<p>Cost-Sharing for Best Management Practices. Uses funds from U.S. <i>Dept. of Agriculture</i> (disbursed through state Office) to reimburse private property owners of portion of cost of installing Best Management Practices (cost-sharing). Cost-sharing is provided to agricultural business operations producing food or fiber (farm or timber). Applications for cost-sharing are made to local <i>NRCS</i> offices. Decisions on which applications receive cost-sharing are made by the <i>NRCS Board</i>, a locally elected three-member body. Technical assistance is provided by <i>NRCS</i> (farm "Best Management Practices") and by <i>Washington State Department of Natural Resources</i> (timber "Best Management Practices").</p>
	<p style="text-align: center;">Natural Resources</p>	<p>Technical Assistance to Conservation Districts. Provides technical assistance to local conservation districts in assisting and providing information to landowners on improvement of farming techniques and/or protection of land and water resources. Includes assistance in preparation of farm plans.</p>

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USDA (Cont'd)	Conservation Services (NRCS)	Technical Assistance to USDA Consolidated Farm Services Agency (CFSA)(see below). Prepares farm plans for landowners if required for receipt of CFSA cost-sharing for best management practices, Inspects cost-shared best management practices after installation and verifies installation to CFSA Board.
US Coast Guard	Water Quality	Related duties include: Vessel safety inspection and documentation, water pollution, spill response, rescue coordination and emergency response.
US Department of Fish & Wildlife	National Marine Fisheries Service	Listing certain species (under the "Endangered Species Act") as either endangered or threatened will require local governmental jurisdictions and the private sector to address water quality and quantity issues in the immediate future.
	Field Service	Usual and historic activities have included physical and scientific surveys, advertising Indian Tribes with regard to fisheries questions, and at times evaluation of dams and their designed effect on fish passage.
STATE		
Washington Department of Eco Zogy (Eco Zogy)	Water Quality	Ecology implements water quality standards as directed in Section 303(d) of "Clean Water Act." This is largely done through establishment of "Total Maximum Daily Loads" (TMDL).

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<p>Ecology (Cont'd)</p>	<p>Water Quality (Cont'd)</p>	<p>State Waste Discharge Permit. Regulates discharges of industrial, commercial and municipal wastes into groundwater or municipal sewage systems.</p>
		<p>National Pollutant Discharge Elimination System (NPDES) Permit. Under delegated authority from U.S. Environmental Protection Agency (EPA), regulates point source discharge of pollutants into surface waters.</p>
		<p>Water Quality Certification. Required of any applicant for a federal license or permit to conduct any activity that may result in any discharge into surface waters (identified as the "401 permit").</p>
		<p>Wastewater Plant Operator's Certificate. Certification of waste treatment operators includes a written exam and a background investigation to certify competency of all plant operators.</p>
		<p>Temporary Modification of Water Quality Criteria. Construction projects which unavoidably violate state water quality criteria (particularly turbidity criterion) on short-term basis require a <i>Temporary Modification of Water Quality Criteria</i>. Also, application of aquatic herbicides or pesticides may require water quality modification in addition to Department of Agriculture Certification.</p>

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Ecology (Cont'd)	Water Quality (Cont'd)	On-site Sewage Disposal Permit (Septic Systems). Ecology reviews and approves plans and specifications for on-site systems exceeding 14,500 gallons/day, all systems receiving state or federal construction grants under the <i>Clean Water Act</i> , and systems using mechanical treatment or lagoons with ultimate design flows above 3,500 gallons/day.
	Shorelands and Coastal Zone Management	Coastal Zone Management (CZM) Grant Programs. Shorelands administers “CZM 306” and “CZM 306A” grants. CZM 306 grants are planning grants and special projects to implement shoreline master programs. CZM 306A grants fund small projects for public access to shorelines or to protect sensitive areas such as wetlands.
	Water Quality Financial Assistance (Grants & Loans)	Centennial Clean Water Fund (CCWF). Financial assistance to help meet state and federal requirements for water pollution control. Includes funding for facilities, ground water protection, nonpoint pollution programs, fresh water, and education projects. The KGI WATERSHED ACTION PLAN PROJECT is funded in-part through a <i>CCWF</i> grant.
		State Revolving Fund. Low interest loans for water pollution control projects.

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<p>Ecology <i>(Cont'd)</i></p>	<p>Water Quality Financial Assistance (Grants & Loans) <i>(Cont'd)</i></p>	<p>Groundwater Management Area Program. Part of CCWF program includes funding for designation of local groundwater management areas, wellhead protection projects, and for other general protection associated with groundwater.</p>
		<p>Shoreline Management Master Program Administration. Shoreline Management Act (SMA) of 1971 (in turn, mandated by federal Coastal Zone Management Act of 1970) requires local governments to create shoreline master programs (SMPs) consisting of goals, objectives, policies, and regulations and permit system for "shorelines of the state", or "shorelines of statewide significance" (having annual flow of 1000 cubic feet per second or more or are 1000 acres or more in size). Department oversees updating SMPs, reviews local permits, and issues variances and conditional use permits after local action.</p>
	<p>Shorelands -- Wetland Management Section</p>	<p>Provides technical assistance to local governments and state and federal agencies in determining wetland boundaries, inventorying and mapping wetlands, and assessing and mitigating potential impacts from development projects.</p>
	<p>Shorelands -- Floodplain Management Section</p>	<p>Flood Control Assistance Account Program (FCAAP). Funding source for maintenance of projects related to flood control. Program funds are contingent upon preparation of a "Comprehensive Flood Control Management Plan" (CFCMP) by local government. (See Pierce County -- River Improvement)</p>

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<i>Ecology (Cont'd)</i>	Environmental Review Section	State <i>Environmental Policy Act (SEPA)</i>. <i>SEPA</i> requires consideration of environmental impacts of state and local decisions, including issuance of permits. The <i>Environmental Review Section</i> reviews and coordinates state and local environmental determinations and documents.
<i>Washington State Dept of Health</i>	Office of Shellfish Programs	<i>Implements the National Shellfish Sanitation Program</i> to include water quality monitoring, classification of shellfish beds (including upgrades and downgrades for purposes of harvesting), public education, coordination with commercial shellfish growers, local governments and enforcement.
<i>Puget Sound Action Team</i>		<i>Purpose:</i> The <i>Puget Sound Water Quality Authority</i> was originally created by the State legislature in 1985 to prepare and adopt the "Comprehensive Puget Sound Water Quality Management Plan." In 1998, they were reorganized and renamed the <i>Puget Sound Action Team</i> . They also assist local government with water quality related issues; especially non-point source issues.

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<p><i>Puget Sound Action Team (Cont'd)</i></p>		<p><i>Puget Sound Water Quality Management Plan.</i> Originally adopted in 1987, with updates bi-annually. Significant aspects of the Plan include: controlling toxicants (especially municipal and industrial discharges); authorizing watershed action plans for areas damaged or threatened by nonpoint pollution and surface runoff; reopening commercial and recreational shellfish beds and protecting existing beds; developing criteria and standards for disposal of contaminated sediments; improving quality and reducing quantity of stormwater; protecting and purchasing selected wetlands; coordinating comprehensive monitoring and research; developing long range strategy for education and public involvement; and creating pilot programs for hazardous waste.</p>
<p><i>Washington Department of Fish & Wildlife (WDFW)</i></p>		<p><i>Hydraulic Project Approval (HPA).</i> Any form of work that diverts, obstructs, or changes natural flow or bed of any fresh water or saltwater of state, requires approval from WDFW.</p> <p><i>SEPA Commenting.</i> Department of Fish and Wildlife (WDFW) is an agency of expertise regarding wildlife-related issues. They are consulted by lead agencies through the <i>SEPA</i> environmental review process.</p>
<p><i>Washington Department of Fish & Wildlife (WDFW) (Cont'd)</i></p>		<p><i>Hatcheries WDFW operates</i> one fish hatchery in the watershed on Minter Creek, They raise a variety of species of salmon including Pink, Chum, Coho and Chinook.</p>

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<p>Washington Department of Natural Resources (DNR)</p>		<p>Forest Practices Approval Required of land owner/ operator prior to beginning any forest practice (harvesting, reforestation, road construction, or chemical application). <i>DNR</i> has sole jurisdiction over forest practices; however, if property is proposed to be converted to non-forestry use (i.e., is not to be reforested), jurisdiction reverts to local permitting agency (county or city). Permit responsibilities within urban growth boundaries will soon shift to local jurisdictions.</p>
		<p>Surface Mine Permit. Regulates surface mining activities to conserve natural resource. Jurisdictions limited to reclamation of sites, while operations are regulated by local governments.</p>
		<p>Technical Assistance to Consolidated Farm Services Agency (see above). Prepares timber management plans for landowners if required for receipt of <i>CFSA</i> cost-sharing for best management practices. Inspects cost-shared "Best Management Practices" after installation and verifies installation to the <i>CFSA Board</i>.</p>
<p>Conservation Commission</p>		<p>Agricultural Compliance Memorandum of Agreement. In September 1988, the <i>Ecology and Conservation Commission</i> executed the "Agricultural Compliance Memorandum of Agreement". The purpose of the agreement to recognize working relationships between conservation districts, the <i>Conservation Commission</i>, and <i>Ecology</i> in protecting water quality of the state, and to outline the process by which complaints on water quality violations will be handled at district level.</p>

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County		
Tacoma-Pierce County Health Department	Water Resources Section	<p>On-Site Sewage Program. Public health program to minimize effects of on-site septic systems on surface and groundwater. Accomplished through minimum requirements for septic systems; providing certification or registration for sewage disposal engineers, installers, and septic haulers; and coordination of permit and penalty procedures. Coordinates with other departments and agencies to implement shellfish protection programs for <i>Rocky Bay, Burley Lagoon and Mayo Cove</i>.</p>
		<p>Underground Storage Tank Program. Regulates abandonment and removal of storage tanks throughout county. Heating oil tanks up to 1,100 gallons and certain other tanks are not covered under this program.</p>
	Water Resources Section (Cont'd)	<p>Lakes Program consists of personnel who will sample, monitor, analyze and evaluate the condition of lakes in certain circumstances; usually brought on by toxic algae blooms, or unusually high-bacteria counts.</p>
		<p>Gig Harbor Groundwater Advisory Committee supported by TPCHD staff to analyze and evaluate groundwater resources in southern WRIA 15.</p>

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TPCHD (Cont'd)	Waste Management	Regulations and compliance associated with household hazardous waste storage and disposal, as well as investigation and enforcement of illegal dumping.
	Compliance	Enforcement of all TPCHD ordinances is ongoing and effective, subject only to budget limitations.
Pierce County Government	Environmental Services	Water Program Division provides comprehensive storm drainage systems which minimize economic loss and enhance water quality; maintains flood control capacity in the <i>Puyallup, White and Carbon Rivers</i> ; coordinates and facilitates planning and construction of the communities drinking water supply consistent with Pierce County's <i>Coordinated Water System, Comprehensive Plan, NPDES, and Watershed Planning</i> .
	Environmental Services, Solid Waste Section	Environmental Education. The environmental education personnel of public works are housed in this section. They take the message of how human activities are associated with and generate hazardous waste, solid waste, water quality and water quantity problems into the public school systems.
	Planning & Land	Long-Range Section implements the <i>State Growth Management Act</i> in coordination with other jurisdictions in the County, This is accomplished through the "Comprehensive Land Use Plan" and applicable regulations.

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<p>Pierce County (Cont'd)</p>	<p>Services</p>	<p>Current Planning Section implements the “Comprehensive Land Use Plan” through a variety of ordinances and development regulations. These would include zoning and critical area ordinances, for example.</p>
		<p>Shoreline Management. Department reviews development within area of jurisdiction associated with “shorelines of the state” or “shorelines of statewide significance” for conformity with the <i>Pierce County Shoreline Master Program</i>.</p>
		<p>Environmental Review. Department conducts environmental review of proposals and development projects for which the <i>County</i> issues permits, pursuant to the <i>State Environmental Policy Act</i>.</p>
	<p>Planning & Land Services (Cont'd)</p>	<p>Site Development Regulations Administration. Development projects are reviewed for compliance with <i>Site Development Regulations</i> which contain standards relating to stormwater quantity, erosion control during construction, grading, filling, clearing, and wetlands.</p>
<p>Bremerton-Kitsap County Health Department</p>	<p>Environmental Health Division, Water Quality Program</p>	<p>Regulates the design and installation of septic systems. Determines effects on surface and ground water quality. Also provides certification or registration for sewage disposal engineers, installers and septic haulers coordinate permit and penalty procedures. Respond to water quality problems impacting shellfish growing areas.</p>

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Kitsap County	Planning Department	Implements the State Growth Management Act through their "Comprehensive Land Use Plan". Zoning and other development regulation are used to implement the Plan.
	Surface Water Management	Surface Water Management Fee. Through this fee, the <i>Department</i> manages a variety of water quality and quantity programs. Flooding, stormwater runoff takes the majority of the Department's resources. Capital projects are a small part of their overall activities. Water quality issues related to the shellfish growing also falls under their responsibility.
	Solid Waste Division	Public Education, Recycling and Solid Waste Regulators under the authority of the Health District.
City		
City of Gig Harbor		The City generally deals with water quality programs through their public works department (<i>NPDES</i> permits, stormwater management) and their planning department through growth-management strategies and policies. They also coordinate with Pierce County departments to address other water-related issues.

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<i>Tribal</i>		
<i>Area Tribes</i>		<p><i>Because of the nature of tribal interest</i> in the natural environment and use of their usual and accustomed fishing and shellfish harvesting areas, tribes are concerned about water quality. The City sewage treatment plant discharge and urban water runoff have been the most pressing issues in recent years. The Puyallup, Nisqually and Squaxin Island Tribes all have fishing and shellfish hunting rights in the watershed. Some areas are shared in common while other areas are of an exclusive right to one of these tribes. The tribes review and comment on development proposals affecting water resources, conduct studies and fisheries enhancement projects, and participate in long-range planning.</p>
<i>Other</i>		
Pierce County and Kitsap Conservation Districts		<p><i>Conservation Districts authorized by State Law</i> (RCW 89.08) for purpose of conserving natural resources, control and prevention of soil erosion, prevention of flood and sediment damages, and furthering conservation of water. Conservation districts carry out this conservation mission through studies and investigations, educational programs, control and demonstration projects, and technical and financial assistance to agencies and property owners. Funding sources are from local government contributions, federal and state grants and special state appropriations, usually through the State Conservation Commission.</p>

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Pierce County and Kitsap Conservation Districts (Cont'd)		Farm Plans. The conservation districts works with landowners to develop farm plans for conservation of soil and water. Implementation of farm plans involve utilization of "Best Management Practices" (BMP's).
		Stream Projects. Program focuses on water quality education through monitoring and care of local neighborhood streams, Program trains group leaders in educational methods and monitoring streams. Subsequent to training, school groups, scout groups, youth groups, 4-H clubs, and other organizations undertake a two year commitment of caretaking on local streams.
Peninsula Land Trust		A non-profit organization dedicated to the preservation of unique blocks or tracks of land secured through conservation easements, purchase, or other means.
South Puget Sound Salmon Enhancement		A local group of volunteer citizens who are dedicated to the enhancement of anadromus fish species through habitat improvements and political recognition of the general fisheries conditions.
Trout Unlimited		Dedicated to the enhancement of fisheries habitat, all fish species and the formation of public policy that impacts sports fisheries.

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Peninsula Light Company	Water Department	Satellite Water Manager for Gig Harbor/Key Peninsula Region. For all Class "A" and "B" water systems, they offer a complete management program that meets federal, state and local government compliance standards. They own approximately 12 water districts and manage approximately 18 districts. As both water quality and quantity issues become pressing in the last decade, it was felt that <i>Peninsula Light</i> would be the appropriate organization to play a leadership role. This position was validated by a majority vote of all members of the Utility.
Peninsula Light Company (Cont'd)	Water Conservation Programs	Focusing in on Public Education and in-home use (such as conserving water with new improved low flow shower heads and front-loading small tub washing machines) has been a new part of the way Peninsula Light has been doing business.
YMCA	Camp Seymour	Has an extensive water quality program for youngsters using the facilities at Camp Seymour. Activities are year-round, with summer camp being the busiest time of the year.
School Districts	K- 12 Schools	Water quality education programs or classes vary , some more sophisticated than others. Some have in-class and in-stream instruction while others are restricted to the classroom. Chemical testing and in-stream macroinvertebrate sampling are taught by the Pierce County Environmental Services Section. Many of the schools in the watershed has taken advantage of this County service.