



WATERSHED MANAGEMENT REPORTING TABLE FOR STORMWATER NPDES PERMIT

	1997 (Jan-Dec) 1998 Report	1998 (Jan-Dec) 1999 Report	1999 (Jan-Dec) 2000 Report	2000 (Jan- Dec) 2001 Report	2001 (Jan – Dec) 2002 Report
GREEN/DUWAMISH RIVER WATERSHED					
FTEs	7	6	7.5	7.5	4.5 (ILA funded) 7 (KC funded)
Green/Duwamish Ecosystem Restoration Project	A Limiting Factor Analysis (LFA) was completed for the Middle and Lower River in mid-1996. This analysis formed much of the scientific basis for the ACOE Reconnaissance Study and will serve as the framework for restoration in the watershed. The ACOE Reconnaissance Study was completed in early 1997 and forwarded to ACOE Headquarters for approval. The Watershed Forum approved a revised feasibility study in mid-1997. The Reconnaissance study contained 40 restoration projects considered to meet the ecosystem goals of the LFA. Twelve Early Action Projects were derived from this list and funding has been sought through a separate congressional appropriation; design work for these projects begins in September of 1997 and continues into 1998. King County's Ecological Services Unit will participate and the State's Jobs for the Environment Program has scheduled several of these projects for 1998.	New total for restoration projects 55. New total of Early Action Projects is 16.	Implementation of early action projects such as Porter Levee and O'Grady Park continued. Feasibility studies have been completed for 49 proposed projects in the ERS. During 2000, a combined EIS and Biological Assessment will be completed for the ERS, and it is hoped that the ERS projects can serve as "early action" projects under the Endangered Species Act.	Draft EIS/BA completed for the ERS. The ERS and the proposed Puget Sound Initiative (a Corps project on a larger, Puget Sound scale) were passed by the US House and Senate, and await the President's signature in 2001. The legislation contains \$75 million in federal dollars over 10 years, to be matched by \$40 million in local funds. If approved in 2001, this money will begin the pre-construction and design phase of over 50 projects proposed in the ERS.	King County signed a design agreement with the Corps of Engineers to function as the lead non-federal sponsor for the Green/Duwamish ERP. The WRIA 9 Forum approved funding for 2002 to provide the local match share for the pre-construction engineering and design (PED) phase. The program management committee selected 20 projects for phase 1, scheduled for construction between 2003 and 2006. The Phase 1 PED phase is estimated to cost \$3 million. The level of federal funding available to support the Phase 1 PED is unknown at this time. The general investigation is underway for the Puget Sound Nearshore Restoration Project. The WRIA 9 Forum is providing \$50,000 to support this effort.
Comprehensive Stewardship Program	By the end of 1997 will have conducted over 30 volunteer restoration projects and educational activities throughout the watershed that involved the public in watershed enhancement and protection efforts. The majority of these events were the result of partnerships with watershed cities, community groups, non-profit organizations and businesses. Have	Over a dozen new or ongoing educational and volunteer activities will take place in 1998. These include habitat restoration projects, educational field trips and seminars, and continuation of the Watershed On Wheels program in collaboration with the Seattle Aquarium.	As part of the Green-Duwamish Restoration 2000 program is to plant 10,000 native plants by 2000. During October, projects will occur each Saturday at the following locations: ◆ Narita Levee ◆ Porter Levee ◆ Hatchery Park	◆ As part of Green-Duwamish 2000, 400 volunteers planted nearly 4,000 plants at four sites during October and November. The program was expanded to include a habitat	◆ Completed a Green/Duwamish Open Space Preservation Priorities Report. The report identifies over 5,000 acres in the Middle Green River subwatershed that currently provide outstanding fish and wildlife

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	<p>begun a collaborative partnership with the Seattle Aquarium to bring a “Watershed on Wheels” program to schools and community centers in ‘97-’98 via a mobile watershed lab.</p>		<ul style="list-style-type: none"> ◆ Newaukum Creek ◆ During 1999, presentations were made to 646 people at 27 groups such as Rotary Club, various Chambers of Commerce, Trout Unlimited, Churches, and Audobon. ◆ 2070 students received presentations on water quality ◆ The Habitat Partners program provided 330 hours of volunteer work on 6 project sites. ◆ A Green/ESA distribution list is being created for email about planting events and committee activities. 	<p>restoration site at O’Grady Park, leveraging the County’s CIP investment with volunteer support.</p> <ul style="list-style-type: none"> ◆ Installed over 200 watershed and stream identification signs to develop a stronger sense of watershed identity ◆ Continued to send basin newsletters to a network of community groups and interested citizens with information about water quality, habitat, and flood hazard information. ◆ Conducted several well-received landowner outreach events, including meetings and field trips related to the ERS, rural forestry, and forestry incentive programs. ◆ Developed the Green River Open Space Land Preservation Prioritization Program to guide future acquisitions by King County and regional partners. 	<p>habitat that justify open space preservation.</p> <ul style="list-style-type: none"> ◆ Hired steward to focus on the Enumclaw plateau, including the Newaukum subwatershed. Steward focused on responding to citizen inquiries, providing educational opportunities and technical assistance, and serving as a liaison between County staff, landowners, and the community. ◆ Worked with landowners to acquire property for preservation and enhancement at Big Springs Creek (79 acres), Metzler (74 acres) and Kanaskat North (75 acres) with grant support from the Salmon Recovery Funding Board. ◆ Continued work on planting projects and vegetation maintenance on riparian restoration sites in Middle Green. ◆ Sent WRIA 9 newsletters to a network of community groups and interested citizens with information about salmon habitat, and salmon conservation planning efforts.

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<i>Duwamish Coalition</i>	As of 1/97 the Coalition no longer meets, although their demonstration projects are continuing. A new collaborative business habitat restoration project has been initiated as a result of the Coalition's Lower Duwamish Watershed Habitat Restoration Plan and Summit Conference in 12/1996.	N/A	N/A	N/A	N/A
<i>Water Quality Assessment</i>	A CSO Water Quality Assessment, modeling risk to ecological and human health in Duwamish & Elliott Bay will be completed in late 1997-early 1998. Analysis of the full watershed is proceeding incrementally with collection of existing data, building of watershed model and identification of significant pollution sources.	The draft assessment was published in August '98. Final assessment documents will be published in April '99. The Green Watershed Water Quality Assessment will be beginning in 1999.	The final assessment was published in August of 1999. A staff team has been hired and assembled for the Watershed Water Quality assessment, and a draft scope of work is being developed. Anticipate that the assessment will provide water quality information for ESA efforts during 2000.	<ul style="list-style-type: none"> ◆ The Green WQA Team established 5 monitoring sites for its wet weather reconnaissance sampling scheduled for January - May 2001. Four sites are in the Newaukum Creek basin (representing three land cover types – forest, agricultural, urban, and the overall basin) and one site is in the Soos Creek basin (primarily a mixed density residential catchment). ◆ As part of regional salmon conservation efforts, WRIA 9 developed a Reconnaissance Assessment summarizing existing technical information in the WRIA and identifying data gaps for future research into water quality, 	<ul style="list-style-type: none"> ◆ Carried out reconnaissance sampling at four sites from Feb. – May 2001 in the Soos and Newaukum creek basins, involving storm and baseflow monitoring for agricultural, residential, and commercial catchments and the overall basin. ◆ Initiated comprehensive monitoring program at 17 sites for storm and baseflow conditions representing different land uses and examining pollutant variability during storms (Nov. 2001 to present) ◆ Initiated a study of water temperature at 15 sites on a continuous basis on the mainstem and tributaries focused on cool or warm water areas (July – Dec. 2001 and continuing in 2002) ◆ Completed a watershed modeling needs assessment, modeling strategy, and model

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				hydrology, land use, and other areas. ♦ We are pursuing additional funding opportunities through state and federal grant sources to supplement the Green WQA. This includes technical staff support from Ecology for temperature and dissolved oxygen modeling, as well as some other miscellaneous items. Additionally, we are applying for federal support through EPA to address a variety of data gaps identified in the WRIA 9 Habitat Limiting Factors and Reconnaissance Assessment Report.	recommendation report to guide watershed -modeling decisions ♦ Established a Technical Work Group with representation from watershed cities (Seattle, Kent, Auburn, Tukwila, Renton, and Tacoma) and the Dept. of Ecology to provide input on monitoring and modeling issues ♦ Worked with Department of Ecology and cities to begin scoping TMDL
Support Watershed Forum	Continuing. 1996-97 efforts have focused on obtaining city participation and cost-sharing in the Ecosystem Restoration Project, prioritization of restoration projects, and participation in the County-wide regional surface water needs financing task force.	In 1997-98, efforts have expanded to include the preparation of a conservation/recovery plan in response to the proposed listing of Puget Sound chinook salmon under the Endangered Species Act.	During 1999 the Forum continued to coordinate water quality, flooding, and habitat issues. The Forum has also been discussing an ILA that would formalize the relationship with the Steering Committee and provide a funding mechanism for administration and watershed assessments. The Forum has also kept local governments informed about emerging issues in the region's ESA response efforts.	During 2000 the Forum continued to coordinate water quality, flooding, and habitat issues. The Forum members have signed a ground-breaking Inter-Local Agreement to formalize the relationship with the Steering Committee and provide a funding mechanism for the development of WRIA -based Salmon Conservation Plans. The	During 2001, the Green/Duwamish Forum was reconstituted with much of the Central Puget Sound Forum to become the WRIA 9 Forum. Watershed services staff (4.5 FTEs) is cost-shared with other local governments in WRIA 9 to support regional salmon conservation planning efforts. In 2001, we completed a draft Near-term Action Agenda that contains 40 actions that local governments and other

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				Forum has also kept local governments informed about emerging issues in the region's ESA response efforts, and will be expanded in 2001 as a WRIA Forum that includes nearshore cities. During 2000 the Forum allocated over \$300,000 for regional water quality, habitat, and flood hazard management projects.	stakeholders can implement in the next 2-4 years prior to completion of the Comprehensive Salmon Conservation Plan. Actions focus on habitat protection, restoration, and connection, as well as studies to support the strategic assessment. In late 2001, the WRIA 9 Forum allocated over \$600,000 to support the Ecosystem Restoration Project and Puget Sound GI (see above), priority research, acquisitions, and education and stewardship efforts.
LAKE WASHINGTON/CEDAR RIVER WATERSHED					
FTEs	3	3	3.9	3	4.5 (ILA funded) 7.3 (KC funded)
Lake Washington Ecological Studies	Research is progressing consistent with original scope, with funding provided by more than 18 local governments through an interlocal agreement. Studies are scheduled to be completed by 1999.	No change.	Workshop on initial findings and recommendations planned for June 2000. Would likely be followed up in fall 2000 with a second workshop to present final research papers and to explore further action on recommendations.	<ul style="list-style-type: none"> ◆ Workshop convened in November of 2000 to discuss findings of Study, as well as additional research related to King County's wastewater HCP and wastewater treatment plant siting study. Attended by ◆ As a result of information obtained through the Lake Washington Studies, fish passage and survival improvements were made to the Ballard 	Most of the data was collected and most was partially analyzed. Efforts are being made with original WDFW project manager to obtain final reports from all the parties (USFWS, UW, DFW, MIT) that were promised by September of 2002.

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				Locks, including installation of variable speed pumps, strobe lights, and smolt passage chutes. King County and the Corps of Engineers worked in collaboration with all the cities in the 500-square-mile area that drains to the Locks. The federal government funds 75 percent, and local governments paid 25 percent of the \$2 million project.	
Support Watershed Forum	Continuing. This year's activities primarily involved the studies and RNA, while supporting a few specific items of importance like federal funding for fish passage at the Locks (co-funded by the Sammamish Forum) and flood control on the Lower Cedar River.	The Watershed Forum is working with the Cedar/Sammamish WRIA Steering Committee to develop a response to listings under the Endangered Species Act for the Lake Washington watershed. The Forum will concentrate mostly on the role of local governments in the salmon conservation plan to be proposed for the WRIA, and will likely help develop implementation agreements for the plan. It will also participate in developing a regional stormwater fee that could help fund priority actions for fish habitat, water quality and flood protection.	During 1999 the Forum continued to coordinate water quality, flooding, and habitat issues. The Forum has also been discussing an ILA that would formalize the relationship with the Steering Committee and provide a funding mechanism for administration and watershed assessments. The Forum has also kept local governments informed about emerging issues in the region's ESA response efforts.	During 2000 the Forum continued to coordinate water quality, flooding, and habitat issues. The Forum members have signed a ground-breaking Inter-Local Agreement to formalize the relationship with the Steering Committee and provide a funding mechanism for the development of WRIA -based Salmon Conservation Plans. The Forum has also kept local governments informed about emerging issues in the region's ESA response efforts, and will be expanded in 2001 as a WRIA Forum that includes nearshore cities. During 2000 the Forum allocated over \$300,000 for regional water quality, habitat, and flood hazard	The Forum, now a joint Lake Washington, Lake Sammamish, and Cedar River entity, worked to create a Near Term Action Agenda - a list of voluntary actions that all jurisdictions could implement that would help salmon. Many habitat restoration and acquisition projects were funded through various funding sources.

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				management projects.	
Adopt Cedar River Basin Plan	Adopted July 21, 1997. Implementation has begun with a special emphasis on incentive programs to encourage the retention of forested land in the basin.	No change.	No change. Anticipate that the ESA listings for chinook and bull trout will result in regulatory revisions during 2000.	No change. Anticipate that the ESA listings for chinook and bull trout will result in regulatory revisions during 2001.	No change. Anticipate that the ESA listings for chinook and bull trout will result in regulatory revisions during 2002.
Adopt May Creek Basin Plan	Expected transmittal to County Council and Renton and Newcastle City Councils in mid-1998.	Transmittal now expected April/May 1999. Key recommendations are being implemented in advance.	King County Council review underway; adoption by King County, Renton and Newcastle likely by mid-2000.	Anticipate adoption by May 2001. Adoption delayed to enable additional citizen input	Final Basin Action Plan adopted in April 2001.
Support Cedar River Council	Ongoing. Highlights in 1997 included the creation of a stewardship committee and the presentation in the fall of a second round of "Cedar River Seminars" on different aspects of the river and its ecology.	Highlights in 1998 include development of a program of citizen "docents" for the fall sockeye run, and involving stakeholders in the response to listings under the Endangered Species Act in the Cedar River basin. A Land Use Subcommittee has been formed to evaluate the degree to which major land use proposals in the basin are consistent with the basin plan.	Ongoing. The Cedar River Naturalist program has continued to provide volunteer "docents" for the fall sockeye run, sponsored by the Cedar River Council, King County Park System, Seattle Aquarium, U.S. Army Corps of Engineers, Seattle Public Utilities, King County Department of Natural Resources, City of Renton and Washington Sea Grant, and The Boeing Company. The Council has also continued efforts to acquire priority reaches of the Cedar, and is taking part in the salmon recovery efforts of the WRIA 8 Steering Committee.	Ongoing. The Cedar River Naturalist program has continued to provide volunteer "docents" for the fall sockeye run, sponsored by the Cedar River Council, King County Park System, Seattle Aquarium, U.S. Army Corps of Engineers, Seattle Public Utilities, King County Department of Natural Resources, City of Renton and Washington Sea Grant, and The Boeing Company. The Council has also continued efforts to acquire priority reaches of the Cedar, and is taking part in the salmon recovery efforts of the WRIA 8 Steering Committee	The Cedar River Council reviewed and commented on the Near Term Action Agenda for WRIA 8, Rock Creek HCP, Elliott Bridge project, the Seattle HCP components- fish ladder and downstream habitat program. The Legacy committee has agreed to partner with Seattle in acquisitions along the Cedar Mainstem. Rock Creek Vision acquisitions underway.
Lake Washington/ Sammamish Ecosystem Restoration		King County, serving as the local sponsor on behalf of participating governments in the Lake Washington and Sammamish	The ERS was initiated in 1999. A number of studies in the Sammamish Basin were initiated in summer of 1999: Habitat	The studies described for 1999 continued through 2000. In addition, the Corps completed Phase 1 of a	The ERS continued in 2001 and a number of studies were conducted and completed. An assessment of water and

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Study		watersheds, expects to sign a contract with the Corps of Engineers in July '99 to initiate a three-year study, which would focus on gaps in information about how chinook use the watershed. Substudies would focus on other topics in the watershed of mutual interest to local governments and the Corps. The contract with the Corps will provide federal cost-sharing for the studies and for restoration projects that are expected to result from them.	Assessment of the mainstream river and select tributaries, evaluation of adult Chinook movement in the Sammamish River, temperature study including modeling. A number of studies were also initiated in the Ship Canal and Lake Washington, including a predator study, movement of Chinook in Lake Washington and the vicinity of the ship canal.	gravel study, with Phase II likely to occur during 2001.	sediment quality in the Sammamish River was initiated, a functional wetland assessment of select wetlands in the Sammamish river Corridor was begun, additional habitat assessments were conducted in the minor tributaries to the Sammamish River and the Bear Creek system, preparation of the Sammamish River Action Plan was also initiated. Most of the technical studies will be wrapped up in 2002 and planning for restoration will commence in 2002.
SAMMAMISH WATERSHED					
FTEs	4	5	5.6	6	
Convene & Support Sammamish Forum	The Forum has developed and endorsed a list of regional projects for fish, floods, and water quality. Several of the projects and programs are being cooperatively funded in 1998 as "pilots." Regional funding decisions are being discussed by the King County Regional Water Quality Committee.	Continuing. Same comments as under Lake Washington Forum.	During 1999 the Forum continued to coordinate water quality, flooding, and habitat issues. The Forum has also been discussing an ILA that would formalize the relationship with the Steering Committee and provide a funding mechanism for administration and watershed assessments. The Forum has also kept local governments informed about emerging issues in the region's ESA response efforts. A 1/2 FTE watershed coordinator was hired to staff the Forum.	During 2000 the Forum continued to coordinate water quality, flooding, and habitat issues. The Forum members have signed a ground-breaking Inter-Local Agreement to formalize the relationship with the Steering Committee and provide a funding mechanism for the development of WRIA -based Salmon Conservation Plans. The Forum has also kept local governments informed about emerging issues in the region's ESA response efforts, and will be expanded	The Sammamish Forum is now incorporated into the larger WRIA 8 Forum. Their focus for the year was a Near Term Action Agenda that highlights voluntary actions that can be accomplished now by all entities that can protect salmon. During 2001 the Sammamish River Action Team focused on supporting the creation of a collaborative report "Sammamish River Corridor Action Plan" in cooperation with the plan sponsors, King County and the Army Corps

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				in 2001 as a WRIA Forum that includes nearshore cities. During 2000 the Forum allocated over \$300,000 for regional water quality, habitat, and flood hazard management projects.	of Engineers. The report provides a long-term vision for restoration and habitat enhancement needs in the river that will protect and enhance salmon habitat. Many habitat acquisition projects and restoration projects were funded through King County Conservation District Funds, Waterworks & State Salmon Recovery Board funds.
Develop Lake Sammamish Initiative Recommendations	The four jurisdictions of the basin are implementing the recommendations of the 96 Lake Sammamish Water Quality Management Plan (issued in December 1996). Negotiations are underway to establish commitments by the four jurisdictions to the recommendations.	Continuing. Have completed before-and-after surveys of residents to measure the effects of education programs on behavior of basin residents.	Continuing.	Continuing.	All planning for the Lake Sammamish Basin is now done in the context of WRIA 8 planning.
Identify Issues of Concern & Priorities for Funding	The Forum has developed a 20-year vision for the watershed, and has endorsed a prioritized list of projects and programs that, if implemented, would achieve the vision. Several of these projects and programs are being cooperatively implemented in 1998.	Continuing. The Forum jurisdictions continue to seek outside funding to implement projects.	Continuing. The Forum jurisdictions continue to seek outside funding to implement projects.	Continuing. Forum continues to fund, via the King Conservation District, water quality, habitat, and flood hazard management programs and projects. Several of these projects are integrated with other funding sources such as the Corps and the Salmon Recovery Funding Board. In 2001 the Sammamish Forum will be combined with the Cedar/Lake Washington and some nearshore cities into the WRIA 8 Forum.	This activity now takes place in the context of WRIA 8 planning.
Develop an Integrated Management Strategy for the Sammamish	Restoration of the Sammamish River is one of the top priorities of the Forum. A pilot restoration program is being	The EPA grant application was not successful. King County and the ACOE are jointly funding a study	As part of the Ecosystem Restoration Study being conducting jointly by the COE and	ERS studies are ongoing, and are anticipated to result in a restoration plan in 2002.	Over the past year a group of folks (Samm River Action Team) that includes the river

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River	cooperatively funded by the watershed jurisdictions in 1998. An EPA grant has been applied for to help fund planning and feasibility. The Army Corps of Engineers is also providing resources.	on temperature in the Sammamish River and its effects on fish migration, to be conducted in 1998 and 1999. A major capital project will be built in summer 1999 to address high temperatures and lack of deep pools above mouth of Bear Creek.	King County, a restoration plan for the river will be developed. This will likely be developed in 2002, after the initial studies have been completed.		Jurisdictions (Bothell, Redmond, Kenmore and Woodinville) and KC and the COE have been working on a developing a Sammamish River Action Plan. This effort is actually part of the Ecosystem Restoration Study and is funded through KC and the COE.
Develop an Integrated Fisheries Resources Strategy	The Fisheries Resources strategy is contained within the overall list of regional priorities which focus on land conservation and wild and hatchery stock management.	No change.	No Change	No Change	No Change
Develop and Implement a Strategy for Interaction with the Lake Washington Watershed, esp. Anadromous Fisheries & Water Quality	The jurisdictions of the watershed are contributing money and resources toward the Lake Washington Ecological Studies.	No change, except that additional agreements for co-funding have been forged.	No Change	No Change	Achieved with the integration of Lake Sammamish Forum activities into WRIA 8 planning.
Lake Washington/ Sammamish Ecosystem Restoration Study		See comments under Lake Washington/Cedar.	See comments under Lake Washington/Cedar.	See comments under Lake Washington/Cedar.	See comments under Lake Washington/Cedar.

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Implement Regional Projects		Hired a training and education expert to carry out a watershed-wide education and monitoring program. Have begun purchasing and re-storing properties along Issaquah Creek as part of the Issaquah Creek/Lake Sammamish Waterways program. In active negotiation with key property owners in upper Bear Creek with an eye to acquiring resource-rich properties (forest, wetlands, endangered species, and headwater streams. Large volunteer planting event held in October 1998; similar event planned for fall 1999. Two major restoration projects are planned on the final mile of Bear Creek, one for construction in 1999 and for 2000.	Preservation and restoration efforts have continued along the Sammamish, Issaquah Creek, and Bear Creek. Projects include the Waterways prioritization and acquisitions along Carey and Holder Creeks, Ballard Locks fish passage improvements, Sammamish River Habitat Survey, Sammamish River Fish Habitat and Passage Improvements Program, Watershed-wide Erosion Control Program, and the Sammamish Re-Leaf volunteer planting events.	Continued projects described for 1999. In addition: <ul style="list-style-type: none"> ◆ installed over 200 watershed and stream identification signs to develop a stronger sense of watershed identity ◆ Implemented SalmonWatcher program to educate and train interested watershed residents in salmon life history and identification ◆ As part of Sammamish ReLeaf program, planted over 15,000 plants at 5 locations. Over 1,500 volunteers participated in restoration planting events in cooperation with jurisdictions 	◆ With integration into WRIA 8 process, no separate planning, or project development, or implementation effort for Lake Sammamish.
SNOQUALMIE/SKYKOMISH RIVERS WATERSHED					
FTE's	2	2	5.5	5.5	5.5
Support Watershed Forum				During 2000 the Forum continued to coordinate water quality, flooding, and habitat issues. The Forum members have signed a ground-breaking Inter-Local Agreement to formalize the relationship with the Steering Committee and provide a funding mechanism for the development of WRIA - based Salmon Conservation Plans. The Forum has also kept local governments informed about emerging	The Interlocal Agreement (ILA) between King County and the 4 Snoqualmie Valley cities has been successfully implemented in 2001. The ILA funds cost-shared staff to continue coordination of water quality and salmon recovery planning issues. The Snoqualmie Watershed Forum represents the 5 ILA jurisdictions and provides a mechanism for coordinated input to the Snohomish Basin Salmon

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				issues in the region's ESA response efforts, and will be expanded in 2001 as a WRIA Forum that includes nearshore cities. During 2000 the Forum allocated over \$300,000 for regional water quality, habitat, and flood hazard management projects.	Recovery Forum. The Snohomish Forum endorsed a Near-Term Action Agenda (NTAA) that identifies what local jurisdictions can do help recover chinook salmon over the next 2-5 years. The NTAA will be implemented while long term salmon conservation plans are being scoped and developed.
Dredging Study	Gravel removal feasibility studies are underway at four sites in the Snoqualmie Basin in consultation with WDOE, WDFW, USACOE, the Tulalip Tribe, and University of Washington.	Preliminary hydraulic modeling for the impacts of gravel removal on flood levels is being wrapped up. Sediment analyses are underway to estimate annual sediment deposition rates, and how long flood hazard reduction benefits would persist. A draft summary report on findings will be presented to the gravel removal committee in 3 rd quarter 1998.	Analysis of additional scenarios delayed the completion of hydraulic modeling. All analyses are finished and a summary report is being prepared for completion this year.		Revision of a hydraulic model, prepared by others, of one of the study sites delayed completion of analyses of effects of gravel removal on flooding in parts of the Snoqualmie River basin. Completion of the overall study and a summary report is anticipated for the summer of 2002.
Participate in Forest Management/Watershed Analyses	The County has not been able to participate due to staffing limitations (technical staff have been reassigned to completing critical repairs to flood control facilities).	A watershed analysis for the Raging River basin was initiated in July of 1998. The Raging River is a significant spawning area for Chinook salmon. The Rivers Section earth scientist will participate on behalf of King County. King County has completed channel migration and flood hazard mapping for the Raging, and this information will be provided to the Watershed Analysis.	<ul style="list-style-type: none"> ◆ The Rivers Section Earth Scientist participated in preparing the hydrology and the stream channel scientific assessments, which are components of the watershed analysis. State Department of Natural Resources staff will prepare timber harvest prescriptions based on the assessments and issue a draft Raging River Watershed Analysis, expected to be released later this year. ◆ King County sponsored a workshop on the Forest and Fish Report and state 	<ul style="list-style-type: none"> ◆ Rivers Section Earth Scientist continued to be involved in Watershed Analysis development and review for the Raging River ◆ King County sponsored a workshop on the Forest and Fish Report and state emergency rules for forest harvest on March 16, 2000. The purpose of the workshop was to give watershed residents and county staff a better understanding of the content of the rule and 	<ul style="list-style-type: none"> ◆ State DNR assembled component chapters and supporting maps for a draft Raging River Watershed Analysis. The Rivers Section Earth Scientist continued to represent King County in preparation of the Raging River Watershed Analysis.

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			emergency rules for forest harvest on March 16, 2000. The purpose of the workshop was to give watershed residents and county staff a better understanding of the content of the rule and the likely implications for forest practices in the Snoqualmie Watershed.	the likely implications for forest practices in the Snoqualmie Watershed.	
Consider consistent regulations for stormwater runoff and floodplain development	The City of North Bend received a Centennial Clean Water Fund grant to support development of a stormwater plan and establishment of a stormwater utility. County staff briefed the city council in June on areas where coordination and consistency between North Bend and neighboring jurisdictions is particularly important.	The City of North Bend convened the advisory committee in October 1998. The Snoqualmie Watershed Coordinator is serving on the committee in consultation with staff from the county's Rivers Section. In addition, Rivers staff reviewed the comprehensive plan policies and regulations for the cities of Carnation and North Bend for consistency with the adopted King County Flood Hazard Reductions Plan. These cities were sent written comments on areas of consistency and inconsistency between the two counties.	<ul style="list-style-type: none"> ◆ County staff are continuing to work with staff from the cities of North Bend and Carnation, which are currently developing stormwater programs. In addition, staff from King County and the four Snoqualmie Watershed cities have been meeting to share information about local salmon recovery proposals and draft federal ESA rules. In addition, staff have been discussing how the latest technical findings for chinook salmon recovery in the Snohomish Basin might apply in local jurisdictions. 		<ul style="list-style-type: none"> ◆ In 2001, ILA staff worked with staff from the cities of North Bend, Snoqualmie, Carnation, and Duvall to develop policy guidance for stormwater programs in the NTAA. The NTAA also includes guidance pertaining to floodplain development. Because the NTAA was endorsed by the Snohomish Forum in December of 2001, implementation of the policy guidance will begin in 2002.
Implement Waterways 2000 Land Acquisition & Stewardship Recommendations	Targeted acquisitions are nearly complete. Two restoration projects were completed on Patterson Creek in partnership with the Stilliguamish-Snohomish Fisheries Task Force, the World Conservation Corps, and King Conservation District. Planning is underway for larger restoration projects on Patterson and Griffin Creeks in 1998.	The county, in cooperation with Washington Trout, Jobs for Environment, and community volunteers completed the first phase of a habitat restoration project along Griffin Creek. The first phase included installation of woody debris, livestock fencing, planting, and installation of off site watering for livestock. Restoration projects have also been initiated in	<ul style="list-style-type: none"> ◆ Phase II of the Griffin Creek Restoration Project was completed in summer of 1999. Phase III is scheduled for summer/fall of 2000, pending permit approval. ◆ Construction of the Patterson Creek Restoration Project was completed in the summer of 1999. 	<ul style="list-style-type: none"> ◆ Completed Phase III of the Griffin Creek Restoration Project. ◆ Developed "Snoqualmie/Skykomish Early Action Habitat Projects Preliminary Priorities 2000-2001" based on Waterways 2000 and technical guidance developed by 	<ul style="list-style-type: none"> ◆ King County received funding from the Salmon Recovery Funding Board for salmon habitat projects. ◆ King County conducted volunteer re-vegetation projects at multiple sites across the watershed in spring and fall 2001.

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		the Patterson Creek Basin, which is also a Waterways 2000 target basin.		the Snohomish Basin Salmonid Recovery Technical Committee. <ul style="list-style-type: none"> ◆ Conducted volunteer revegetation projects at multiple sites in the spring and fall of 2000 ◆ Received funding from the Salmon Recovery Funding Board for acquisition of 4 high-priority sites in January of 2001. 	
Develop Community Stewardship Directory	Completed in the Spring of 1997. The directory is intended to link together stewardship groups with volunteers, technical assistance, and grant funding. The Directory was mailed out to more than 40 groups in the Snoqualmie Basin.	The Directory was updated and redistributed in April of 1998. The Directory was distributed at the first annual Snoqualmie Watershed Festival, which was sponsored by the King Conservation District and involved many local community groups.	Directory complete. No further work is planned on a paper directory. The focus for these types of community links is now more web-site oriented.		
Organize middle school workshop on returning salmon	Complete. A series of hands on activities were provided for more than 200 7 th grade science students and continue to respond to teacher and student requests for information on an ongoing basis. Staff also participated in an in-service training for middle school teachers on land and water in August.				In 2001, King County awarded a grant to the Stillwater School to develop and run workshops.
Support Scout stewardship efforts on Griffin Creek	Complete. Staff conducted workshops for scout troops in along Griffin Creek. The scouts learned to identify native plants, mapped water features, planted conifers, and removed invasive plants.	The basin steward will continue to involve the scouts and a local 4-H group in restoration efforts. The County is helping to link together grant funding with these groups. In addition, a new homeowners association has been established in the Griffin Creek Basin with a strong interest in protecting stream resources. Staff will provide		Ongoing	The budget for this program was eliminated in 2001 due to necessary cutbacks. King County did organize and conduct a native plant revegetation effort at Griffin Creek in 2001.

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		information and support to this group.			
Work w/WSDOT on coordinated wetlands mitigation	Meetings have been held with WDOT to discuss possible mitigation opportunities. Staff have also worked with Seattle Public Utilities to try to link mitigation and enhancement efforts, and are exploring the feasibility of a wetlands enhancement projects on one of the Waterways 2000 sites.	Seattle Public Utilities is moving forward with a wetland enhancement project on one of the Waterways 2000 sites in the Patterson Creek Basin that will complement grant funding restoration work being carried out by the county this summer.			
Provide grants to community for water quality monitoring	The Patterson Creek Flood Control Zone District has completed the water quality monitoring work funded through Waterways 2000 funds. Waterways 2000 funds for this purpose have been exhausted.	Status unchanged on the community monitoring efforts. However, King County has added temperature gages at selected sites in tandem with flow gages		Provide Snoqualmie Watershed Grants to community-based projects through the County's Small Change for a Big Difference grant program	King County's Small Change for a Big Difference program granted funds to the Lake Marcel Habitat Improvement Project.
Support Friends of the Trail streambank cleanups	Staff have supported Friends of the Trail's efforts by assisting with advertising, notifying the group of grant funding opportunities, and acting as a liaison with other county agencies. Friends of the Trail was awarded county Block Grant funds to support its efforts in 1997.	Friends of the Trail has continued its successful work , and is continuing to apply for grant funds.		Friends of the Trail has continued its successful work, and was awarded a \$50,000 King County Water Quality Block Grant Fund (aka the WaterWorks Program) for 2001 to protect and improve local waterways.	Friends of the Trail has continued its successful work and was awarded approximately \$19,000 in King County Water Quality Block Grant Fund (aka the WaterWorks Program) to protect and improve local waterways. The WaterWorks program also granted \$50,000 of the Snoqualmie Indian Tribe to establish and fund the Snoqualmie Environmental Conservation Corps in 2001.
Coordinate work programs of KC agencies to maximize water quality, habitat, and wildlife benefits	Staff are working with other agencies that provide services in rural areas to better link together existing resources and coordinate services. Example: staff are working with the county permit agency, King Conservation District, and WDFW to	Proposed Ditch Best Management practices have been adopted by the County Council, and the first phase of a pilot project was completed in the Fall of 1998. Based on this on-the-ground		Completed pilot projects as part of the Agricultural Drainage Assistance Program on two agricultural drainage ditches tributary to the Snoqualmie River.	The Agricultural Drainage assistance Program (ADAP) continued to assist farmers with water quality and habitat protection assistance in 2001. Pre and Post-project

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	develop Best Management Practices for Ditch Maintenance.	experience, King County is working with state Department of Fish and Wildlife, the Tulalip Tribes, community groups, and citizens to evaluate further refinement of the BMPs.		Monitoring includes temperature, dissolved oxygen, watercourse profiles, and the presence of fauna. This monitoring will continue through 2002.	monitoring will continue. Monitoring includes chemistry, watercourse profiles, and the presence of fauna.
WHITE RIVER					
FTE's	0	0	.5	0.5	0.5
WRIA-10 Technical Advisory Group for Limiting Factors Analysis			Actively participated in the Technical Advisory Group for Limiting Factors Analysis led by the State Conservation Commission. Technical staff provided existing King County information, participated in the work sessions and reviewed draft documents. The LFA was completed in June 1999.	<ul style="list-style-type: none"> ◆ Actively participated in the Technical Advisory Group and assisted with the identification and prioritization of habitat improvement projects for potential funding by the Salmon Recovery Funding Board. ◆ King County initiated a consultant contract to obtain water quality, water quantity, and habitat information for the east fork of the Hylebos. 	◆ See below
White River Watershed and Hylebos Creek Basin City Caucus			Held first caucus meeting (November 1999) of King County cities to initiate an interjurisdictional group to address watershed concerns.	Ongoing	Not active
Hylebos Watershed Action Committee			Actively participated in the Hylebos Watershed Action Committee (HWAC) and its subcommittees. The HWAC is preparing a scope of work for the completion of a basin salmon recovery plan, actively seeking funding sources, organizing volunteer projects and implementing early action projects.	Ongoing	HWAC initiated work with the Corps of Engineers to develop a scope of work for a salmon recovery plan. A small technical group representing King County, Federal Way, the Puyallup Tribe of Indians, WDFW, NMFS and the Friends of the

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					Hylebos non-profit group will collaborate with Corps biologists to identify tasks and timeline and costs. This SOW will be used to as a foundation documents to solicit participation by watershed governments to financial support the completion of a recovery plan. The SOW will be completed in 2002.
<i>Puyallup River Watershed Council</i>			Attend monthly Puyallup River Watershed Council meetings and participate in topics related to King County. This council is working to implement recommendations of the 400-12 Lower Puyallup Watershed Action Plan.	Ongoing. King County will continue to provide 0.5 FTE for water quality and ESA response in WRIA 10, but there is some question as to the staffing and resources that will be available to the Committee to develop and implement a salmon conservation plan.	Ongoing. King county continues to participate in salmon recovery activities occurring via PRWC committees for SRFB lead entity work and EDT analysis.
<i>Upper Puyallup Watershed Committee</i>			Attend Upper Puyallup Watershed Committee meetings. The UPWC was organized in September 1999 to begin work on a 400-12 non-point plan. A draft plan is expected to be completed by November 2000.	Ongoing. Draft plan will be complete and reviewed in 2001.	Ongoing. A draft plan was completed in late 2001. A public hearing is expected in the spring of 2002. King County is participating in the non-point plan committee and will review and comment on the draft plan.
<i>Technical and Citizens Ranking Committee for Salmon Recovery Board Project Proposals</i>					Participated in ranking Committees, established as part of the PRWC, are serving to formally review and rank SRFB applications for the Lead Entity (Pierce County) . For 2001, four applications were submitted, for a total request of \$1.86

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					million in funding for WRIA-10.
<i>Ecosystem Diagnosis and Treatment (EDT)</i>					Participated in this watershed analysis methodology which was applied to WRIA-10, -12 and 15. A Technical Advisory Group of expert biologists was convened to collaborate with Mobrand Biometrics, Inc. under contract with Pierce County. Using existing data and local knowledge of the watershed, the EDT analysis presents a set of strategic priorities for planning restoration and protection of salmon habitat in the watersheds. A second phase of EDT will occur in 2002 to refine the analysis and the potential actions identified in the initial application of the methodology.
<i>East Branch Hylebos Monitoring Program</i>					King county has contracted with a consultant to conduct water quality sampling, BIBI analysis and a physical habitat survey for the East Branch Hylebos Creek. A Quality Assurance Project Plan (QAPP) was completed in early 2001. Sampling work began in late summer 2001 and will continue through late spring in 2002. The results of this program will provide information useful to future

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					salmon recovery in the Hylebos watershed.
Corps of Engineers General Investigation New Start for the Puyallup / White Watershed					The Corps received Congressional authorization for this New Start. The first steps in this federal process is to establish a multi-jurisdictional and watershed entity project team to complete a reconnaissance study in 2002.
CENTRAL PUGET SOUND WATERSHED					
FTEs	3.25	3.25	5	5	
Marine Water Quality Assessment	A report addressing King County's marine water quality conditions and needs is being prepared. The goal of the report is to provide a preliminary assessment of areas where action may still required if the goals and priorities of the Puget Sound Water Quality Management Plan are to be met in King County's marine waters. A draft of the report will be issued in 1997.	Focus on saltwater endangered species issues intensified. Regional workshop "King County's Nearshore: The Neglected Link" staged in January, 1999. Work to identify Limiting Factors for salmon production in nearshore initiated, new senior ecologist hired. Formation of an interjurisdictional/interagency work group expected in 2 nd quarter of 1999 to address saltwater component of WRIA Conservation Plan for WRIA 8 and WRIA 9.	Focus on saltwater and nearshore aspects of endangered species response continues to grow. Nearshore Technical Committee (NTC), an interjurisdictional/interagency work group with representatives from numerous state and federal agencies, created to address nearshore limiting factors for both WRIA 8 and WRIA 9. Work plan for NTC developed, scopes for initial projects and studies are under preparation.	King County continued to facilitate Nearshore Technical Committee (NTC), and completed State of the Nearshore Report addressing nearshore limiting factors for both WRIA 8 and WRIA 9. NTC has identified and prioritized several projects for Salmon Recovery Board funding, and has received funding for a feasibility study for seawall removal.	
Des Moines Creek					
◆ Basin Plan (Regional Surface Water Capital Improvement Projects)	Draft report completed and reviewed July '97. Endorsement by project jurisdictions expected in Sept '97. Implementation agreements being prepared for '98.	Initial engineering work completed, preliminary report under review. Adoption expected in 2 nd quarter. A new ILA and SOW covering final engineering and design, and permitting is expected to be signed mid-year. Washington Department	Final draft of Preliminary Engineering Report prepared and under review by jurisdictions. ILA and SOW for development of final engineering plans and permits expected to be signed mid-year. WSDOT participation confirmed.	Council adopted ILA supporting final design of surface water management, habitat restoration, and fish passage projects recommended in the Basin Plan.	An ILA was signed by the cities of Des Moines, Sea-Tac, Port of Seattle, Washington State Department of Transportation, and King County to complete design

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		of Transportation expected to become involved as a full partner with existing interjurisdictional effort.			and permitting of four projects restoring fish habitat and water quality. The projects are; 1) a regional stormwater detention facility; 2) high-flow by-pass; 3) low flow augmentation; and 4) stream enhancements. King County staff started the design and preparation of environmental studies. The design is expected to be done in 2002.
◆ Conifer Revegetation	'97 project completed. Additional plantings anticipated during '98 implementation efforts.	Several plantings under consideration, no firm dates or locations at this time.	CPS steward working with citizen volunteers and stewards to develop planting events at several locations within the watershed.	As part of Green-Duwamish Restoration 2000, conducted planting events in the Duwamish Estuary	Projects on hold pending completion of design described above.
◆ Streambank Stabilization	Several bank stabilization projects completed in '96 and '97 in cooperation with Midway Sewer District, City of Des Moines, and Tyee Golf Course. Additional bank stabilization projects expected during '98 implementation efforts.	Basin team working with Highline Water District to provide environmentally sensitive protection to a water line being exposed by stream-bed erosion.	CPS Watershed Team staff working with the City of Burien and the US Army Corps of Engineers to remove existing bank hardening at Seahurst Park and replace it with a more "fish friendly" structure.	In January 2001 Burien received a grant from the Salmon Recovery Funding Board for a feasibility study of a seawall removal at Seahurst Park. This project was recommended by the Nearshore Technical Committee, and was prioritized and submitted for funding as part of WRIA 9 salmon conservation efforts.	As above.
Miller Creek	County Executive sponsored meeting to initiate Miller Creek basin plan effort scheduled for Oct '97.	Interjurisdictional discussion on scope of work resumed. Preliminary discussions with City Managers and Public Work Directors indicate an effort similar to Des Moines Creek Basin Plan is broadly supported. Effort expected to address CIP plan, basin-wide flow controls, habitat issues, and water quality issues. ILA and SOW expected to be signed mid-	Interjurisdictional discussions nearing completion. ILA and SOW approved by Basin Committee and submitted to the various Council's for action. ILA approved by several of the partners. Action by remaining partners anticipated shortly. Wording changes in the ILA requested by Normandy Park will delay final approval of the ILA and initiation of the work program	Council adopted ILA supporting the development of a reconnaissance assessment of water quality and habitat conditions, the first phase of a comprehensive planning effort. ILA negotiations broke down near the end of the year.	Little progress to resolve differences among the parties was made in 2001. In the last quarter, the partners agreed to proceed without the involvement of Normandy Park. A new ILA was drafted and circulated, but no action was taken on it by year's end.

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		year.	by approximately 6 months.		
Convene and Support Forum	Watershed Forum discussions underway with cities. Staff level meetings initiated in 1 st quarter of '97. Formal forum scheduled for 4 th quarter of '97, with ongoing watershed forum during '98.	Central Puget Sound Forum work continuing, with focus on Endangered Species issues and the nearshore saltwater environment. Forum sponsored workshop (King County Nearshore: The Neglected Link) staged in Jan 99. Forum currently working on project planning for restoration and enhancement projects in nearshore, and limiting factor analysis in support of endangered species work in WRIA 8 and WRIA 9. Forum currently organizing multi-jurisdictional saltwater committee in support of freshwater activities in WRIA 8 & 9.	Central Puget Sound Watershed Forum continues to meet, and to supervise implementation of a number of education, research and improvement projects addressing nearshore ecosystem health. Forum also active in supporting the development of the Nearshore Technical Committee (see Marine Water Quality Assessment, above).	<ul style="list-style-type: none"> ◆ During 2000 the Forum continued to coordinate water quality, flooding, and habitat issues. The Forum members have signed a ground-breaking Inter-Local Agreement to formalize the relationship with the Steering Committee and provide a funding mechanism for the development of WRIA -based Salmon Conservation Plans. The Forum has also kept local governments informed about emerging issues in the region's ESA response efforts. ◆ During 2000 the Forum allocated over \$300,000 for regional water quality, habitat, and flood hazard management projects. 	<ul style="list-style-type: none"> ◆ In 2001 most of the jurisdictions of the CPS Forum became part of the Watershed Resource Inventory Area (WRIA) 9 Forum, which also includes the former Green/Duwamish Forum. As part of the WRIA 9 Forum, the nearshore cities have focused their energies on developing a WRIA-based Salmon Conservation Plan. ◆ With the other cities of the WRIA 9 Forum, the nearshore jurisdictions allocated over \$600,000 for regional salmon habitat projects.
JOBS FOR THE ENVIRONMENT					
	State grants for habitat restoration projects, which began in the lower Cedar River basin, but which are now being implemented in all watersheds in the county. Work will continue through the 1999 construction season and should end by November 1999.	Upland/riparian restoration continues and instream work to address limiting factors for salmonids continues. Monitor & maintain completed projects using approximately 10% of overall grant. Partner with approximately 15 federal, state, and local agencies, community groups, and non-profits who contribute cash	State JFE habitat restoration grants have been received continuously since 1997 and used for restoration work throughout the county while employing and training a 5-person Habitat Restoration Team. The HRT is no longer solely funded through JFE grants. In 1999 we received a grant through the Interagency	At present it appears the JFE program may not be funded beyond fiscal year 2000-2001. Our current \$150,000 grant, which focuses on WRIA 08, expires 6/30/01. We are using those funds to accomplish eradication of invasive plant species (through heavy cardboard	The program was cut when state funding was eliminated.

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		and in-kind services, and suggestions for new projects. (\$400,000 total WDNR grant money was expended by Dec. 31 '99 under a grant extension.)	Committee on Outdoor Recreation (precursor to SRF Board funding). We are also extending our regional coverage by contracting to cities without crews for habitat restoration work.	mulching) in large riparian areas and replanting with native species. We hope to keep our Habitat Restoration Team working beyond the end of the JFE grant period through other grant sources and contracts with other departments of the county and outside jurisdictions.	
WATERWAYS 2000					
	Only one site management plan was completed in 1996. Two more have been completed in 1997 (by August), with the seven remaining expected by year's end. Acquisition activity will be completed by the close of 1997. One steward for the Snoqualmie watershed is funded full-time for 1997. No open space bond proposal is being considered at this time for the fall of 1998.	All site management plans have been released to interdepartmental review. The Griffin Creek and Peterson Lake plans are currently under Parks Management review, with public meetings for both scheduled for mid-April 1999. Phase II implementation is scheduled for summer 1999. The Patterson Creek and Mid-Fork Snoqualmie plans have been through interdepartmental review and will be released to Parks Management review in April 1999. Public meetings are scheduled for May 1999, and Phase II implementation expected by Fall 1999. The Cold Creek and Green River plans have been released to inter-departmental review and will go through revisions and distribution to Parks Management review by summer 1999. Phase II implementation is expected late fall 1999.	Site Management plans for Peterson Lake, Griffin Creek, Middle Fork Snoqualmie, Patterson Creek and Canyon Creek Park Natural Areas are final and complete. We are in consultant selection for Phase II implementation for these 5 plans. Acquisition and demolition within the Cold Creek Park Natural Area is now complete and is in the midst of public process, with a draft plan is scheduled to be released this month. The Green River Park Natural Area plan has been in hiatus due to limited staff time, however a second draft will be released by late spring, with at least one public meeting and completion expected by summer.	Implementation of site management plans is ongoing	

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IMPLEMENT FLOOD HAZARD REDUCTION PLAN	<p>A key goal for 1997 was completing grant funded purchase and removal of five repetitively flood damaged homes in the Snoqualmie area. This work was completed in August. Purchase of repetitively damaged homes is a major recommendation of the Flood Hazard Reduction Plan. A Flood Hazard Workshop is being organized for citizens in October.</p>	<p>Three flood-prone homes were purchased in 1998, on the Middle Fork Snoqualmie, Cedar River, and Kimball Creek. Two homes on the Raging River floodplain are now being purchased and removed. One is located in a severe channel migration hazard area, the other includes nine acres of floodplain, river frontage, wetlands and salmon-bearing stream. An additional 22 acres of floodplain was recently purchased on the White River, and 16 acres is proposed for purchase on the Lower Green River. Also planned for 1999 is the first phase of updating the adopted Flood Hazard Reduction Plan for consistency with the ESA salmon listing.</p>	<p>The update of the County's adopted Flood Hazard Reduction Plan is now in scoping stage. The Update will focus on ensuring that floodplain management activities comply with the ESA listing for salmon. A public review draft should be ready by June 2001.</p> <p>Using federal grant funds to supplement home-owners funds, 13 flood-prone homes are being physically elevated above the 100 year floodplain. This will avoid future damages, and reduce the amount of household chemicals entering floodwaters.</p>	<p>A consultant was hired to help with the biological analysis needed to update the Flood Hazard Reduction Plan for consistency with ESA. The schedule was revised due to staffing constraints. The public review draft is scheduled for dissemination in July 2002.</p> <p>Four flood-prone homes were purchased with federal and state hazard mitigation grant funds: two on the Cedar, one on Boise Creek, and one on the Snoqualmie.</p> <p>The Rivers Section began developing a more formalized monitoring plan for meeting permit requirements, and for adaptive management purposes.</p>	<p>A biological analysis for the King County River Management Program was completed in April 2002. The scope of the Flood Hazard Reduction Plan(FHRP) Update was revised to include the development of a manual of Best Management Practices(BMPs) standards for all river management activities based on the biological analysis and coordination of the FHRP Update with the proposed Tri-County 4(D) management zone regulation. The revised FHRP scope and continued staffing constraints have changed the schedule for completion of the public review draft to the fall of 2003.</p> <p>Ten home elevation projects have been completed in the Snoqualmie River Watershed with the assistance of federal and state hazard mitigation grant funds. Two flood prone homes have been purchased on the Cedar River with assistance of these same grant funds.</p> <p>Meetings have been held with</p>

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					representatives of NMFS and USFWLS to review proposed river protection facility repair projects on the Green River and to discuss project monitoring plans for completed projects. Initial feedback from the Services has been favorable.
GROUNDWATER MANAGEMENT PROGRAM					
FTE's	0.1	0.9	1.6	3.7	5.2
Program Coordination	Briefings and hearings on the four plans transmitted to Council were conducted for the Utilities and Natural Resources Committee in September and the Growth Management Committee late in 1997	County Council concurrence achieved July 1998. Transmittal back to the Ground Water Advisory Committees scheduled for September 1998 with final submittal to Ecology (for certification) in Spring 1999. Funding options are being explored. Coordinating with stakeholders (mainly water suppliers) and various agencies involved in groundwater issues.	All completed plans submitted to Ecology for Certification. Several funding sources (temporary and permanent) have been explored and tapped. Preparing to form advisory (management) committees as soon as certification received. Coordinating with state agencies (Ecology, Health), cities, and professional (engineers, water purveyors) and community groups. At end of 1999, Rural Drainage and Water Quality Extension was passed by County Council. Program will not be finalized until 2000, but is expected to include groundwater protection and monitoring.	<ul style="list-style-type: none"> ◆ Received Ecology certification of four Plans. ◆ Solicited and compiled nominations to Groundwater Management Committees -- submitted package to County Council for their action. ◆ Scoped efforts as part of Rural Drainage Program and hired Groundwater Monitoring Coordinator for Vashon Island. ◆ Coordinated groundwater support to Sammamish River, Green River, and Lakes Sammamish/ Washington projects. 	<ul style="list-style-type: none"> ◆ Assisted County Council on Groundwater Protection Ordinance ◆ Organized and held first meeting: Vashon – Maury Is. Groundwater Protection Committee. ◆ Hired Earth Scientist and Water Quality Planner 2 to complete projected staffing ◆ Coordinated with state agencies of Ecology and Health, county agencies of Public Health, Transportation, and Wastewater Treatment and Solid Waste in Dept. of Natural Resources & Parks.

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Data Collection & Management		Received data from Washington Dept. of Health to establish benchmarks for groundwater quality. Working with Seattle/King County Health Department to improve well location data base.	Used Global Positioning System (GPS) to accurately locate all wells and springs owned by large ("Group A") Public Water Systems in County as part of the Source Water Assessment Program of the state Health Dept. Purchased geologic database software and imported older well data in cooperation with Solid Waste Division.	<ul style="list-style-type: none"> ◆ Completed SWAP contract, including compilation of Wellhead Protection Areas obtained from purveyors. ◆ Used new database software to assemble water quality results from earlier work; presented to purveyors. ◆ Planned and obtained access for groundwater monitoring program. Solicited additional data from purveyors. 	<ul style="list-style-type: none"> ◆ Completed two rounds of ambient groundwater quality monitoring. ◆ Analyzed ambient data for long-term changes. ◆ Organized volunteers on Vashon – Maury Island to take monthly water level measurements in own wells. ◆ Provided well location database to public via Internet.
Education		Developed web-site demonstration of data from Plans and USGS reports. Presented groundwater issues to the public and responded to questions from individuals interested in groundwater issues.	Made presentations at public forums; responded to questions from individuals interested in groundwater issues. Received funding from Council to hire temporary Education Coordinator in 2000.	<ul style="list-style-type: none"> ◆ Hired new Educational Coordinator. ◆ Presented to public (at festivals), teachers, students in classrooms, and professional hydrogeologists. ◆ Coordinated with outreach efforts by cities, purveyors, schools, and other programs in DNR. 	<ul style="list-style-type: none"> ◆ Presented water cycle and conservation to more than 2800 students in 33 schools. ◆ Provided outreach on groundwater issues at ten fairs or festivals. ◆ Responded to more than 100 public inquiries via e-mail and telephone. Web site received thousands of hits.
Regulatory & Policy		Developing Best Management Practices or other regulatory approaches for Aquifer Protection involving Sand and Gravel Mining, Critical Aquifer Areas, Well-Head Protection.	Continued development of Best Management Practices or other regulatory approaches for Aquifer Protection involving Sand and Gravel Mining, Critical Aquifer Areas, Well-Head Protection. Performed SEPA review of developments that may have groundwater impacts.	<ul style="list-style-type: none"> ◆ Provided GW review of project permitting under SEPA. ◆ Assisted Ecology with mandated hydrologic study. ◆ Supported County Comprehensive Plan 	<ul style="list-style-type: none"> ◆ Assisted Council to pass Groundwater Protection Ordinance. ◆ Supplied technical assistance to Dept of Development and Environmental Services on 6 permitting projects.

WATERSHED MANAGEMENT REPORTING TABLE FOR STORMWATER NPDES PERMIT

	<i>1997 (Jan-Dec) 1998 Report</i>	<i>1998 (Jan-Dec) 1999 Report</i>	<i>1999 (Jan-Dec) 2000 Report</i>	<i>2000 (Jan- Dec) 2001 Report</i>	<i>2001 (Jan – Dec) 2002 Report</i>
				revision using water quality data.	