



WASHINGTON STATE DEPARTMENT OF ECOLOGY

**WATER QUALITY FINANCIAL
ASSISTANCE PROGRAMS
FOR FISCAL YEAR 2002**

CENTENNIAL CLEAN WATER FUND PROGRAM

**CLEAN WATER ACT SECTION 319
NONPOINT SOURCE FUND PROGRAM**

**WASHINGTON STATE WATER POLLUTION
CONTROL REVOLVING FUND PROGRAM**

**FINAL OFFER LIST
FY 2002**

**September 17, 2001
Publication No. 01-10-049**



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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
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September 17, 2001

**Re: Centennial Clean Water Fund/Clean Water Act Section 319 Nonpoint Source Fund/Washington State Water Pollution Control Revolving Fund
FY 2002 Funding Cycle
Final Offer List**

To Interested Persons:

I am pleased to provide you with the enclosed state fiscal year 2002 (FY 2002) Final Offer List. This list covers the Centennial Clean Water Fund (Centennial), the federal Clean Water Act Section 319 Nonpoint Source Fund (Section 319), and the Washington State Water Pollution Control Revolving Fund (SRF) programs. The projects offered funding reflect the highest priority water quality projects for the state of Washington.

Local governments, Native American tribes, and not-for-profit groups submitted 123 requests for funding consideration during the FY 2002 application cycle. Based on an evaluation of these applications and directives from the Washington State Legislature, Ecology intends to fund 60 activity and 46 facility projects totaling approximately \$108 million. Projects address wastewater treatment plant upgrades and collection system improvements, on-site septic system repair and replacement, water reclamation and reuse, irrigation water management, watershed planning and implementation, riparian improvements, salmon habitat improvements, agricultural best management practices, stormwater management planning and implementation, public information/education, aquifer protection, water quality monitoring, and refinancing of wastewater facility projects.

In addition to the funds offered on the FY 2002 Final Offer List, Ecology reserved \$400,000 in FY 2002 Section 319 funds for water quality projects offered by state of Washington agencies. This funding is used for high priority activities identified in Washington's Water Quality Management Plan to Control Nonpoint Source Pollution, April 2000. Twenty-seven applications were submitted by agencies with specific implementation responsibilities outlined in the Nonpoint Plan and nine projects were selected to receive funding. Projects considered and selected are shown in a separate section of the Final Offer List.

A Draft Offer and Applicant List reflecting projects proposed for funding was released on July 23, 2001, and two public meetings to present an overview of the three funding programs and the process used to select projects for funding were held on July 31, and August 1, 2001. A

Interested Persons
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September 17, 2001

30-day public review and comment period for the Draft Offer and Applicant List, as well as the Draft Intended Use Plan began on July 23, and ended on August 22, 2001. Written comments were received and a responsiveness summary has been prepared and is included as part of the Final Offer List.

If you have questions about the Centennial program, please contact Kim McKee at (360) 407-6566. Questions about the SRF program can be directed to Brian Howard at (360) 407-6510 and questions for Section 319 can be directed to Dan Filip at (360) 407-6509.

Sincerely,

Megan White, P.E., Manager
Water Quality Program

MW:tkr

RESPONSIVENESS SUMMARY
For Final Offer List

FY 2002

Fiscal Year 2002 – Responsiveness Summary

Responsiveness Summary Introduction

Funding Cycle

Ecology conducted a 30-day public comment period following the publication of the *Fiscal Year 2002 Draft Offer and Applicant List* (Ecology Publication Number 01-10-031) on July 23, 2001. During the comment period agency staff held informational public meetings in Tacoma and Spokane. Three letters expressing comments on the Draft List and three requests for evaluator comments were received during the comment period. Staff carefully reviewed and addressed all comments. Ecology staff also discovered a minor error on the list. All issues identified by staff, applicants, or interested parties are addressed in this section, with the comment summarized first and the response following. Any resulting changes to the list are identified in the response as well as on the Final Offer List.

Evaluation Process

The FY 2002 Project Priority System and Evaluation Process was developed to provide a tool to rank all projects submitted on a statewide basis. This ranking included both point source and nonpoint source facilities and activities project proposals. The system placed all project proposals on an initially equal footing based on water quality and public health criteria. Two Ecology staff in the Water Quality Program conducted a complete review of each application:

- An Ecology Regional Office evaluator (from the same area as the applicant), and
- An Ecology Regional Office evaluator (from outside the area of the applicant)

All evaluations were based on information provided in the proposal. Ecology staff explained the approach to the evaluation and prioritization process at the public meetings held during the public comment period on the *Fiscal Year 2002 Draft Offer and Applicant List*

Local Prioritization Process

The local prioritization process used during the FY 2002 application cycle was similar to that used last year. Water Resource Inventory Areas (WRIAs) were to be used as local prioritization areas, local watershed planning groups organized under the Watershed Planning Act were able to act as the local prioritization group, and a simpler and shorter list of required signatures was developed. More details about the local prioritization process may be found in the *Water Quality Program Financial Assistance for Fiscal Year 2002: Guidelines (Volumes One and Two)*, available on request from Ecology.

Responses to Comments

Department of Ecology Initiated Comments: Ecology is aware of two changes that are needed to adjust the amounts shown on the FY 2002 Draft Offer and Applicant List. These changes are noted below.

Fiscal Year 2002 – Responsiveness Summary

- Due to an arithmetic error on the Draft Offer and Applicant List, the amount offered for the town of Pe Ell (FP02075) should have been shown on the SRF portion as \$1,018,080.
- Funding offers are valid for up to one year from the date of the Final Offer List, therefore, any monies offered toward projects that are not signed by the expiration date are automatically withdrawn and the project is terminated. The offer period for the FY 2001 funding cycle expired on August 30, 2001. Loan deobligations from previous awards allows Ecology to offer an additional \$896,280 in SRF funds to Spokane County (FP01079-02) for the Refinancing of OSS Elimination Projects.

Comments From External Parties

Pacific Conservation District, Nick Somero, Chairman, project number FP02048, comment: The Conservation District wrote to Ecology to express its appreciation for proposed funding for the Willapa River TMDL Issues project.

Response: Ecology is pleased to be able to provide funding for this project.

Lower Columbia Fish Recovery Board, Jeff Breckel, Executive Director, project number FP02118, comment: The Lower Columbia Fish Recovery Board wrote to Ecology to express its delight for proposed funding for the Watershed Assessment of the Kalama River project and to endorse the transfer of sponsorship to Cowlitz County.

Response: Ecology is pleased to be able to provide funding for this project.

Cowlitz County, Board of County Commissioners, project number FP02118, comment: Cowlitz County wrote to Ecology to express support for the Watershed Assessment of the Kalama River project and to accept the transfer of sponsorship from the Lower Columbia Fish Recovery Board.

Response: Ecology accepts this letter as transfer of sponsorship and is pleased to be able to provide funding for this project.

FINAL OFFER LIST

FY 2002

**Fiscal Year 2002 Centennial Clean Water Fund (Centennial), Clean Water Act Section 319 Nonpoint Source Fund (Section 319),
and Washington State Water Pollution Control Revolving Fund (SRF) Final Offer List**

Application Number	Applicant Name/Project Title	Rank	Local Prioritization Points	Total Points	Total Funds Requested	Funding Offered:			Loan Terms (years)	Loan Interest Rate	Footnotes
						CCWF	Section 319 Funds	SRF			
FP02EPG01	King County West Point WWTP Secondary Upgrade					\$7,548,500					1
FP02EPG02	Spokane County/City Spokane Rathdrum Prairie Aquifer					\$5,000,000					1
FP02SP01	Pullman, City of/WSU Water Reclamation Project					\$250,000					2
FP02102	Mason County North Bay - Case Inlet Water Reclamation Facility	1	100	902	\$1,311,661	\$200,000		\$1,111,461	20	0%	4
FP02075	Pe Ell, Town of Wastewater Treatment Plant Construction	2	100	714	\$3,174,000	\$1,405,920		\$1,018,080	20	0%	3, 4
FP02081	Lummi Indian Business Council TMDL Implementation Monitoring in WRIA 1	3	100	710	\$247,852		\$247,852				
FP02099	Whatcom County Public Works Water Quality and Riparian Restoration	4	5	708	\$250,000		\$250,000				
FP02011	South Yakima Conservation District Granger Drain Run-Off Reduction Project	5	100	706	\$186,577	\$186,577					
FP02111	Bellingham, Port of Nonpoint Pollution Solutions	6	20	698	\$246,964		\$246,964				
FP02043	Clark County Public Works Department Monitoring Coordination and Resource Program	7	80	694	\$172,875		\$172,875				
FP02039	Klickitat County Dallesport Wastewater Facilities Project	8	100	692	\$2,873,000	\$1,724,000		\$1,149,000	20	0%	3, 4
FP02035	Bremerton, City of Trenton Avenue Pump Station Improvements	9	80	692	\$1,000,000			\$1,000,000	20	1.5%	6
FP02094	Clallam Conservation District Dungeness Watershed Farm Plan Implementation	10	100	690	\$243,800	\$243,800					

Note: Footnotes are found after complete table.

**Fiscal Year 2002 Centennial Clean Water Fund (Centennial), Clean Water Act Section 319 Nonpoint Source Fund (Section 319),
and Washington State Water Pollution Control Revolving Fund (SRF) Final Offer List**

Application Number	Applicant Name/Project Title	Rank	Local Prioritization Points	Total Points	Total Funds Requested	Funding Offered:			Loan Terms (years)	Loan Interest Rate	Footnotes
						CCWF	Section 319 Funds	SRF			
FP02092	Chelan County Conservation District Wenatchee TMDL & BMP Implementation Project	11	100	689	\$250,000	\$250,000					
FP02031	Bremerton, City of Cherry/Trenton CSO Reduction Improvements	12	100	688	\$1,000,000			\$1,000,000	20	1.5%	6
FP02032	Bremerton, City of Anderson Cove - Basin 12	13	40	673	\$650,000			\$650,000	20	1.5%	6
FP02023	Coupeville, Town of Wastewater Treatment Plant Expansion, 1	14	100	673	\$1,060,100	\$1,060,100					3, 15
FP02034	Bremerton, City of Tracyton Beach CSO Reduction Improvements	15	70	671	\$693,000			\$693,000	20	1.5%	6
FP02085	PUD No. 1 of Skagit County Similk Beach Sewer Improvement Project	16	100	669	\$50,000			\$50,000	20	1.5%	
FP02064	Bellingham, City of Whatcom Watershed TMDL Study & Stormwater Mapping Project	17	30	665	\$156,960	\$156,960					
FP02076	Okanogan, City of Okanogan Wastewater Facility Plan	18	70	660	\$110,000			\$110,000	20	1.5%	
FP02010	Spokane County Conservation District Spokane County Riparian Buffer Program	19	100	654	\$150,000	\$150,000					
FP02057	Lacey, City of Stormwater Pond Maintenance Outreach Project	20	90	653	\$77,275		\$77,275				
FP02110	Lincoln County Conservation District Crab Creek's Contribution to Moses Lake's TMDL	21	80	651	\$228,188		\$228,188				
FP02013	Chehalis River Council Chehalis River Volunteer Monitoring	22	80	646	\$15,108		\$15,108				
FP02036	Shelton, City of Shelton WWTP Digester Expansion Project	23	90	644	\$960,190			\$960,190	20	0%	5

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**Fiscal Year 2002 Centennial Clean Water Fund (Centennial), Clean Water Act Section 319 Nonpoint Source Fund (Section 319),
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Application Number	Applicant Name/Project Title	Rank	Local Prioritization Points	Total Points	Total Funds Requested	Funding Offered:			Loan Terms (years)	Loan Interest Rate	Footnotes
						CCWF	Section 319 Funds	SRF			
FP02024	Okanogan Conservation District Methow Watershed Irrigation Water Management	24	100	644	\$250,000		\$250,000				
FP02055	Thurston County Environmental Health Division Nisqually Reach Pollution Source Identification	25	90	642	\$88,500		\$88,500				
FP02028	Thurston Conservation District Nisqually Delta Shellfish Response Grant	26	100	641	\$198,750		\$198,750				
FP02009	Spokane County Conservation District Little Spokane River Management Plan	27	100	638	\$133,146	\$133,146					
FP02098	Uniontown Town of Wastewater Facilities Plan Amendment	28	100	638	\$50,000			\$50,000	20	1.5%	
FP02016	Granger, Town of Wastewater Treatment Facility Improvements	29	90	635	\$549,000			\$549,000	20	1.5%	
FP02062	Palouse Conservation District Palouse Pilot TMDL Project: Phase 2	30	80	630	\$75,000	\$75,000					
FP02071	Whatcom Conservation District Tenmile Creek Riparian Restoration Pilot	31	70	629	\$250,000	\$250,000					
FP02014	South Bend, City of Inflow and Infiltration Abatement Project	32	100	628	\$1,000,000			\$1,000,000	20	0%	5
FP02120	Kittitas Reclamation District Kittitas TMDL Support and Monitoring	33	100	624	\$183,842		\$183,842				
FP02115	Stevens County Conservation District Mill Creek Watershed Plan Implementation	34	90	622	\$250,000		\$250,000				
FP02005	Jefferson County Public Works Jefferson County Surface Water Plan	35	100	622	\$207,500	\$207,500					
FP02087	Franklin Conservation District Irrigated Ag Technical Assistance	36	100	619	\$82,676		\$82,676				

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**Fiscal Year 2002 Centennial Clean Water Fund (Centennial), Clean Water Act Section 319 Nonpoint Source Fund (Section 319),
and Washington State Water Pollution Control Revolving Fund (SRF) Final Offer List**

Application Number	Applicant Name/Project Title	Rank	Local Prioritization Points	Total Points	Total Funds Requested	Funding Offered:			Loan Terms (years)	Loan Interest Rate	Footnotes
						CCWF	Section 319 Funds	SRF			
FP02089	Island County Health Department On-Site Repair Financial Assistance Program	37	50	616	\$300,000			\$300,000	5	.5%	9
FP02077	Okanogan, City of Wastewater Treatment Improvements Design and Construction	38	80	611	\$82,000			\$82,000	20	1.5%	
FP02004	Western Washington University Water Quality: Abbotsford-Sumas Aquifer	39	60	610	\$155,607	\$155,607					
FP02015	Thurston County Environmental Health Division On-Site Financial Assistance Program	40	100	606	\$150,000			\$150,000	20	1.5%	9
FP02088	Franklin Conservation District Irrigated Ag Loan Program	41	90	604	\$750,000			\$750,000	5	.5%	
FP02001	Monroe, City of Wastewater Treatment Plant - Phase 2	42	80	603	\$7,425,125			\$7,425,125	20	1.5%	
FP02112	Lake Chelan Reclamation District Water Quality Assessment Manson Lakes	43	100	602	\$112,500	\$112,500					
FP02080	Lummi Nation Service Organization South Fork Saxon Instream Structure	44	50	598	\$250,000	\$250,000					
FP02037	Washington State University BMPs for Cranberry Farms	45	90	597	\$250,000	\$250,000					
FP02042	Clark County Public Works Department Watershed Characterization for Clark County/LCFRB	46	100	597	\$240,000	\$240,000					
FP02058	Tumwater, City of Deschutes/Percival Habitat & Public Education	47	80	597	\$43,540	\$43,540					
FP02105	Island County Public Works Department Camano Watershed Program	48	80	596	\$407,673	\$407,673					
FP02072	Nooksack Indian Tribe Fecal Coliform Transport in Shallow Ground Water Discharging to Streams	49	90	589	\$187,481	\$187,481					

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						CCWF	Section 319 Funds	SRF			
FP02121	Kitsap County Department of Community Development Chico Creek Watershed Resources Protection	50	90	589	\$98,250	\$98,250					
FP02074	Toledo, City of Sewer System Improvements	51	100	586	\$753,600			\$753,600	20	1.5%	
FP02030	Yakima County Removal of Wrecking Yards from Flood Plains	52	100	576	\$360,350	\$205,950		\$154,400	5	.5%	
FP02119	Island County Public Works Department Freeland Water Quality Improvement Report	53	70	571	\$111,150	\$111,150					
FP02095	North Bend, City of North Bend Sewer Infiltration and Inflow Improvements (Phase 2)	54	100	568	\$894,500			\$894,500	20	1.5%	
FP02107	Washington State University Temperature/Turbidity Relationship Study	55	70	565	\$40,184	\$40,184					
FP02025	Okanogan Conservation District Okanogan Implementation Committee Coordination	56	60	558	\$49,486	\$49,486					
FP02113	Fairfield, Town of Wastewater Treatment Facility Improvements	57	90	556	\$1,153,789	\$335,000		\$818,789	20	0%	3, 4
FP02070	Skagit Conservation District No Name Slough Implementation - Phase 1	58	80	555	\$194,063	\$194,063					
FP02052	Clark Conservation District Salmon Creek Clean Water Grant	59	90	552	\$220,000	\$220,000					
FP02117	Sequim, City of Valley Surface Water Management Plan	60	90	551	\$75,000	\$50,000					
FP02068	Davenport, City of Wastewater Facility Rehabilitation Project	61	0	546	\$1,000,000			\$1,000,000	20	1.5%	

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and Washington State Water Pollution Control Revolving Fund (SRF) Final Offer List**

Application Number	Applicant Name/Project Title	Rank	Local Prioritization Points	Total Points	Total Funds Requested	Funding Offered:			Loan Terms (years)	Loan Interest Rate	Footnotes
						CCWF	Section 319 Funds	SRF			
FP02103	Port Townsend, City of Wastewater Conveyance System Improvements Project	62	100	546	\$1,000,000			\$1,000,000	20	1.5%	6
FP02053	Marysville, City of Water Quality/Flow Monitoring Program	63	90	543	\$37,500	\$37,500					
FP02108	Island County Public Works Department Water Quality Outfall Monitoring	64	60	543	\$286,000			\$286,000	20	1.5%	9
FP02065	Whatcom County Water Quality Monitoring Implementation	65	80	539	\$250,000	\$250,000					
FP02044	Clallam County Clean Water District Water Quality Monitoring and TMDL Implementation	66	80	538	\$49,516	\$49,516					
FP02123	Mason County Department of Health Services Lower Hood Canal O&M Program	67	80	537	\$90,000	\$90,000					
FP02003	Benton Conservation District Yakima River Salmonid Habitat Improvement Project	68	80	537	\$244,500	\$244,500					
FP02047	Housing Authority of the City of Tacoma Feasibility Study - Zero/Low Impact Housing	69	0	534	\$75,000	\$75,000					
FP02097	Moses Lake, City of Larson Sewage Treatment Plant Upgrade	70	0	532	\$215,000			\$215,000	5	.5%	9
FP02033	Bremerton, City of Low Interest Loan Program	71	50	531	\$250,000			\$250,000	20	1.5%	12
FP02008	Adams Conservation District Cow Creek Implementation	72	70	529	\$250,000	\$250,000					
FP02021	Klickitat County PUD Wishram Wastewater Treatment Plant Improvements	73	90	525	\$345,000	\$207,000		\$138,000	20	0%	3, 4
FP02086	Franklin Conservation District Water Quality Education Program	74	80	525	\$115,163	\$115,163					

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**Fiscal Year 2002 Centennial Clean Water Fund (Centennial), Clean Water Act Section 319 Nonpoint Source Fund (Section 319),
and Washington State Water Pollution Control Revolving Fund (SRF) Final Offer List**

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						CCWF	Section 319 Funds	SRF			
FP02079	Lummi Nation Service Organization Coal Mine Road Sediment Reduction	75	40	523	\$203,490	\$203,490					
FP02038	Longview, City of Longview Ditches TMDL Supplemental Project	76	100	517	\$369,000	\$369,000					
FP02026	San Juan County Conservation District San Juan County Monitoring Program	77	0	516	\$187,500	\$187,500					
FP02027	Almira, Town of Almira WWTF Hydrogeologic Characterization Study	78	90	515	\$54,000	\$40,500		\$13,500	5	.5%	12
FP02118	Lower Columbia Fish Recovery Board Watershed Assessment of the Kalama River	79	100	510	\$112,500	\$112,500					
FP02091	Adams Conservation District Fecal Coliform Base Line Project	80	60	505	\$229,500	\$229,500					
FP02067	King County Department of Natural Resources Ground Water Education Program	81	70	504	\$85,931	\$85,931					
FP02046	East Columbia Basin Irrigation District ECBID Rill to Sprinkler Conversion Program	82	0	502	\$10,000,000			\$10,000,000	5	.5%	
FP02093	Pend Oreille Conservation District Upper Pend Oreille Sub-Watershed Ranking	83	100	498	\$249,850	\$249,850					
FP02017	Conconully, Town of Wastewater Facility Plan	84	90	493	\$56,600			\$56,600	20	1.5%	
FP02059	Brewster, City of Wastewater Treatment Plant Upgrade	85	100	490	\$360,237			\$360,237	20	1.5%	
FP02007	Adams Conservation District Lower Palouse River Scoping Project	86	50	488	\$123,750	\$123,750					
FP02049	Chehalis Basin District Alliance Upper Chehalis Nonpoint Reduction	87	90	486	\$250,000	\$250,000					

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and Washington State Water Pollution Control Revolving Fund (SRF) Final Offer List**

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						CCWF	Section 319 Funds	SRF			
FP02084	Spokane, City of Cowley Creek Diversion	88	90	484	\$460,000			\$460,000	20	1.5%	
FP02048	Pacific Conservation District Willapa River TMDL Issues	89	80	478	\$234,375	\$161,913					7
FP02096	Stevens County Conservation District GIS for WRIA 59	90	100	478	\$250,000						10
FP02012	Spokane County Conservation District Direct Seeding Assistance Program	91	80	476	\$4,000,000			\$4,000,000	15	1.5%	
FP02116	Stevens County Conservation District Onion Creek Watershed Plan Implementation	92	100	474	\$250,000						10
FP02018	Whitman Conservation District Whitman County Water Quality Education	93	90	452	\$122,860						10
FP02020	Grays Harbor Conservation District Grays Harbor Water Quality Assessment	94	100	448	\$75,979						10
FP02066	Napavine, City of Napavine Comprehensive Stormwater Management Plan	95	70	437	\$40,000			\$40,000	20	1.5%	
FP02041	Mount Vernon, City of Maddox Creek Relocation	96	90	435	\$500,000						10
FP02078	North Kitsap School District Bjorgen Creek Common Learning Center	97	60	425	\$249,375						10
FP02022	Pomeroy Conservation District Garfield County Riparian Enhancement	98	0	409	\$230,000						10
FP02069	Mason Conservation District Case Inlet Watershed Stewardship Program	99	70	394	\$250,000						10
FP02045	Skamania County Sand Hill Slide: "J" Vanes and Habitat Improvement	100	100	393	\$121,500						10

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Application Number	Applicant Name/Project Title	Rank	Local Prioritization Points	Total Points	Total Funds Requested	Funding Offered:			Loan Terms (years)	Loan Interest Rate	Footnotes
						CCWF	Section 319 Funds	SRF			
FP02040	Skagit County Public Works Department Skagit County Agricultural Buffer Program	101	0	384	\$500,000						10
FP02063	Walla Walla County Water District No. 2 Touchet Sewer Facility Plan	102	10	374	\$129,600			\$129,600	20	1.5%	
FP02083	Spokane, City of Cochran Basin I/I Facility Plan	103	100	366	\$790,000			\$790,000	20	1.5%	
FP02100	Chehalis River Council Chehalis River Council Resource Library	104	50	351	\$69,473						10
FP02073	Whidbey Island Conservation District Agricultural BMP and FMP Implementation/Whidbey Island	105	90	349	\$185,625						10
FP02104	Port Ludlow Drainage District Stormwater Comprehensive Management Plan	106	90	334	\$80,000			\$80,000	5	.5%	
FP02050	Lewis County Conservation District Cowlitz River Nonpoint Reduction	107	90	332	\$150,000						10
FP02029	Thurston Conservation District Scatter Creek Habitat Conservation Plan	108	60	328	\$82,500						10
FP02019	Reardan, Town of Reardan Wastewater Facility's Design	109	100	296	\$130,000			\$130,000	20	1.5%	
FP02114	Ferndale, City of Comprehensive Stormwater Plan	110	10	198	\$189,000			\$189,000	5	.5%	
FP02054	Blaine, City of Blaine General Sewer Plan				\$187,500						11
FP02051	Centralia, City of Pump Station, Outfall and Interceptor				\$5,000,000						11
FP02090	Everett, City of Pumped Effluent to Deepwater Outfall				\$1,000,000						11
FP02056	Lacey, City of 7th Avenue Stormwater Facility				\$616,116						11

Note: Footnotes are found after complete table.

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						CCWF	Section 319 Funds	SRF			
FP02122	Loon Lake Property Owners Association Loon Lake Wetlands/Watershed Protection				\$300,000						11
FP02109	Whatcom County Water District 10 Lake Louise Road Interceptor				\$4,323,000						11
Refinance Projects											
Application Number	Applicant Name/Project Title	Rank	% of Median Household Income	Total Funds Requested	SRF Funding Offered	Loan Terms (years)	Loan Interest Rate	Footnotes			
FP02106	PUD No. 1 of Stevens County Clayton Sewer System Loan Refinancing	1	2.88	\$814,874	\$814,874	20	0%	5			
FP02082	Spokane, City of Refinance Existing Sewer Bond Debt	2	1.27	\$3,600,285	\$3,600,285	20	1.5%	6			
FP02101	Toppenish, City of Wastewater System Improvements (Refinance)	3	1.19	\$3,286,788	\$3,286,788	20	1.5%	6			
FP02006	King County - Dept. of Natural Resources Denny Way/Lake Union CSO Project - Final Design & Program Consultant – Refinance	4	1.01	\$17,117,000	\$17,117,000	20	1.5%				
FP02002	Garfield, Town of RD to SRF Loan Transfer	5	0.97	\$904,580	\$904,580	20	1.5%				
FP02061	Ferndale, City of Refinance of Wastewater Treatment Plant Improvements			\$5,078,185		20	1.5%	11			
FP02060	Quincy, City of Quincy Water Reclamation Plan			\$5,815,000		20	1.5%	11			

Note: Footnotes are found after complete table.

**Fiscal Year 2002 Centennial Clean Water Fund (Centennial), Clean Water Act Section 319 Nonpoint Source Fund (Section 319),
and Washington State Water Pollution Control Revolving Fund (SRF) Final Offer List**

FY 2001 Loan Carry Over								
Application Number	Applicant Name/Project Title	FY 2001 Rank	Total Points	SRF Funds Requested	SRF Funds Offered	Loan Terms (years)	Loan Interest Rate	Foot-notes
FP01153-02	Bremerton, City of Anderson Cove CSO Reduction Facilities	69	621	\$1,600,000	\$640,427	20	1.5%	6, 13
FP01079-02	Spokane County Refinancing of OSS Elimination Projects	70	620	\$28,800,000	\$14,281,725	20	1.5%	7, 9, 14
FP01150-02	Bremerton, City of Private Sewer System Rehabilitation Activities	71	619	\$500,000				8
FP01105-02	Stanwood, City of WW Facilities Design	75	612	\$978,000				8
FP01026-02	Granger, Town of WW Treatment Improvements Design & Construction	77	610	\$532,000				8
FP01157-02	King County Department of Natural Resources Denny Way/Lake Union CSO – Construction	81	605	\$19,233,705				8
FP01077-02	Brewster, City of WW Treatment Plant Design	82	605	\$155,000				8
FP01113-02	King County Department of Natural Resources Denny Way/Lake Union CSO Control Project	106	570	\$12,338,864				8
FP01034-02	Clark Public Utilities La Center I/I Facility Plan	108	570	\$50,000				8
FP01154-02	Bremerton, City of East Bremerton Inflow/Infiltration Study	118	558	\$130,000				8
FP01062-02	Mansfield, Town of Refinancing of Sewer Line Replacement	120	555	\$290,000				8
FP01186-02	Thurston County Grand Mound Sewer Facilities Construction	124	553	\$5,527,681				8

Note: Footnotes are found after complete table.

**Fiscal Year 2002 Centennial Clean Water Fund (Centennial), Clean Water Act Section 319 Nonpoint Source Fund (Section 319),
and Washington State Water Pollution Control Revolving Fund (SRF) Final Offer List**

FY 2001 Loan Carry Over								
Application Number	Applicant Name/Project Title	FY 2001 Rank	Total Points	SRF Funds Requested	SRF Funds Offered	Loan Terms (years)	Loan Interest Rate	Foot-notes
FP01151-02	Bremerton, City of Pine Road CSO Reduction Project	126	545	\$750,000				8
FP01048-02	Colfax, City of Colfax I/I Removal - Phase 2	129	540	\$237,300				8
FP01063-02	Okanogan County Lakes WW System Refinance	141	508	\$227,296				8
FP01156-02	King County Department of Natural Resources Renton Enlargement Construction (Refinance)	144	508	\$25,395,000				8
FP01167-02	Yelm, City of Yelm Sewer Project Loan Refinance	146	495	\$1,763,002				8
FP01213-02	Shelton, City of Goldsborough Creek Sanitary Sewer Crossing	158	468	\$100,000				8
FP01022-02	Granite Falls, City of WW Treatment Plant Design & Construction	163	442	\$550,000				8
FP01171-02	Ridgefield, City of WW Treatment Plant Expansion	179	383	\$1,172,323				8
FP01090-02	Snohomish, City of Amendment to CSO Reduction Plan	201	285	\$60,000				8
FP01165-02	Monroe, City of Eastside Interceptor	202	228	\$1,619,113				8
FP01006-02	Dayton, City of Dayton Sewer Bond Defeasance	206	3	\$2,000,000				8

Centennial Funds Offered:	\$25,125,000
Section 319 Funds Offered:	\$2,292,030
SRF Funds Offered:	<u>\$80,452,761</u>
Total Funds Offered:	\$106,973,511

Note: Footnotes are found after complete table.

**Fiscal Year 2002 Centennial Clean Water Fund (Centennial), Clean Water Act Section 319 Nonpoint Source Fund (Section 319),
and Washington State Water Pollution Control Revolving Fund (SRF) Final Offer List**

Notes:

Further conditions relating to funding eligibility, best management practices on private property, Quality Assurance Project Plans, Growth Management Act compliance, or other issues may be included in written correspondence related to any project.

Footnotes:

1. Ecology offered extended grant payments in accordance with RCW 70.146, *Extended Grant Payments*, and Section 315(1) or Section 315(2) of the 2001 Washington State Legislature Capital Budget.
2. Ecology offered funding to the applicant as identified in Section 315(4) of the 2001 Washington State Legislature Capital Budget.
3. Ecology identifies this project as meeting the intent of the small community funding proviso in Section 315(3) of the 2001 Washington State Legislature Capital Budget.
4. Financial hardship was shown and a reduced loan rate, longer loan term, and partial grant funding are offered.
5. Financial hardship was shown and a reduced loan rate and a longer loan term are offered.
6. Financial hardship was not shown. No reduced loan rate, longer loan term, or partial grant funding are offered.
7. The amount offered reflects the amount remaining after higher priority projects were offered funding.
8. No funds remained available after higher priority projects were offered funding.
9. The applicant for this facilities project is currently out of compliance with the Growth Management Act and may not sign a funding agreement with Ecology until they are in compliance with the Act, unless the existence of special circumstances can be determined. For more information see RCW 70.146 and Chapter 173-95A WAC.
10. The applicant requested only grant funding and no grant funds remained available after higher priority projects were offered funding.
11. This project is ineligible for funding consideration.
12. The applicant requested financial hardship consideration. Hardship assistance is reserved for water pollution control facilities construction projects per Chapter 173.98 WAC, "Uses and Limitations of the Water Pollution Control Revolving Fund." Therefore, a financial hardship analysis was not prepared and no reduced loan rate, longer loan term, or partial grant funding are being offered.

Fiscal Year 2002 Centennial Clean Water Fund (Centennial), Clean Water Act Section 319 Nonpoint Source Fund (Section 319), and Washington State Water Pollution Control Revolving Fund (SRF) Final Offer List

13. This applicant applied for and received partial funding on the SRF FY 2001 Final Intended Use Plan because the amount requested exceeded the remaining funds available. The amount offered reflects the unmet demand for funding from the previous funding cycle.
14. This applicant applied for but did not receive funding on the SRF FY 2001 Final Intended Use Plan because no funds remained available after funds were identified for higher priority projects. Although the amount offered is less than the amount requested, it reflects the remaining funds available.
15. The amount offered for this project reflects a hardship determination and grant funding is being offered to supplement FY 2001 loan funding.

SUMMARY OF PROJECTS

FY 2002

**Fiscal Year 2001 Centennial Clean Water Fund, Washington State Water Pollution Control Revolving Fund,
Clean Water Act Section 319 Nonpoint Source Fund: Project Summaries**

Application number: applicant name: project name: Description (from application)
FP02001: Monroe, City of: Wastewater Treatment Plant - Phase 2: The existing WWTP must be modified to consistently meet the 1) ammonia discharge limits, 2) increase effectiveness of the UV disinfection system, 3) 85 percent BOD removal requirement, 4) copper limits, 5) odor standards and 6) expand the plant capacity to meet future wastewater treatment needs within the sewer service area.
FP02002: Garfield, Town of: RD to SRF Loan Transfer: The wastewater facilities improvements have been complete since 1995. The improvements consisted of converting the existing trickling filter process to an activated bio-filter process. The town of Garfield is requesting to refinance these improvements from a Rural Development 4.5 percent, 40-year loan to a SRF 1.5 percent, 20-year loan. The estimated savings will be \$700,000.
FP02003: Benton Conservation District: Yakima River Salmonid Habitat Improvement Project: This project implements actions outlined in the Yakima Conference of Governments Yakima River Basin Water Quality Plan, Ecology's TMDL Implementation Plans, Yakima River Sediment Reduction Plan and NRCS' EQIP on-farm conservation program. Benton CD will coordinate with Kittitas, North and South Yakima CD to implement water quality improvements for salmonids in the Yakima Basin.
FP02004: Western Washington University: Water Quality: Abbotsford-Sumas Aquifer: This project will monitor species associated with agronomic loading (e.g., nitrate, DO, and fecals) in ground and surface water in a portion of the Abbotsford-Sumas. The objective is to quantify impacts due to local and Canadian loading and to assess the effectiveness of best management practices and dairy nutrient management plans.
FP02005: Jefferson County Public Works: Jefferson County Surface Water Plan: Jefferson County will complete a Surface Water Management Plan in two phases. Phase one will identify the content, issues and lead to a detailed scope for the Surface Water Management Plan. Phase two includes the completion of a Surface Water Management Plan that addresses water quality, water quantity and habitat issues.
FP02006: King County - Dept. of Natural Resources: Denny Way/Lake Union CSO Project - Final Design & Program Consultant – Refinance: This project is a joint effort of King County and the city of Seattle to control combined sewer overflows to Lake Union and Elliott Bay, including the Denny Way CSO, which is the largest CSO in the King County system. The project will control Lake Union and Denny Way CSOs by 1) storing CSO flows during moderate storms and transferring them to the West Point Treatment Plant after the storm subsides; and 2) providing at-site treatment at the Elliott West site, with discharge of treated flows through a new outfall during heavy rain conditions....
FP02007: Adams Conservation District: Lower Palouse River Scoping Project: Characterize the Palouse River portion south of Highway 26 including that effect from Willow Creek and Cow Creek contributions prior to direct entry into the Snake River. Determine and collect data that provides final analysis of all tributary influence at last public access point prior to Palouse Falls.
FP02008: Adams Conservation District: Cow Creek Implementation: Develop and implement a program that would encourage farmers to "proactively" make management changes using available funding programs that would financially enhance riparian buffers, off site watering and other high priority best management practices to improve Cow Creek water quality.
FP02009: Spokane County Conservation District: Little Spokane River Management Plan: This project is a follow-up to the Little Spokane Watershed Plan Development (G0000198). The Development Plan outlined four studies that are currently underway. After these studies are completed, this project will use the data and previous project results to develop a comprehensive management plan for the Little Spokane River Watershed.
FP02010: Spokane County Conservation District: Spokane County Riparian Buffer Program: This project will implement a riparian buffer and best management practices (BMP) program in Spokane County. It will fund a full time position to develop, coordinate, and implement approximately \$100,000 of conservation practices throughout Spokane County. The project will conduct workshops, implement riparian planting, fencing, BMPs, and associated cost-share programs.
FP02011: South Yakima Conservation District: Granger Drain Run-Off Reduction Project: SYCD will conduct an intensive outreach, education, and technical assistance project for small farm owners and larger crop growers in the Granger Drain watershed. Workshop topics will include pasture management, manure handling, soil compaction, and local water quality concerns. Cost-share will be provided to landowners for BMP implementation.
FP02012: Spokane County Conservation District: Direct Seeding Assistance Program: Crop residue/straw management is the most significant contributing factor preventing the widespread acceptance of direct seeding of cereal grain crops. The project would facilitate the implementation of direct seeding and the phase out of field burning, making funds available to remove, store and process straw and establish markets for straw products.
FP02013: Chehalis River Council: Chehalis River Volunteer Monitoring: Our project will train and equip volunteers to monitor water quality and benthic macroinvertebrates at four sites in the upper Chehalis watershed. Data will be collected using Ecology-approved methods. We will provide public education by training volunteers, holding workshops in local schools, and publishing our findings.

**Fiscal Year 2001 Centennial Clean Water Fund, Washington State Water Pollution Control Revolving Fund,
Clean Water Act Section 319 Nonpoint Source Fund: Project Summaries**

Application number: applicant name: project name: Description (from application)
FP02014: South Bend, City of: Inflow and Infiltration Abatement Project: To reduce/eliminate Inflow/Infiltration of storm/ground water into sewer system per Order #DE-98WQ-J296 from Ecology (4/23/99). Major elements: (1) replace/seal failing sewer mains; (2) seal leaking manholes; (3) separate storm inlets from sewer lines; (4) correct sidesewer leakage; (5) inspect for open/interconnected yard drains.
FP02015: Thurston County Environmental Health Division: On-Site Financial Assistance Program: This project will continue Thurston County's local loan fund, which makes long term, low interest funding available to repair failing on-site sewage systems. Lack of funding often impedes repair of failing on-site sewage systems, which contribute to pollution of ground and surface waters in Thurston County.
FP02016: Granger Town of: Wastewater Treatment Facility Improvements: Based on the analysis in the Town's 2000 wastewater facility plan, the Town proposes improvements to the oxidation ditch aeration equipment, the UV disinfection system, and an additional backup power generator. These improvements are necessary to bring the Town's facilities into conformance with the requirements of its NPDES permit and meet the Town's water quality goals with respect to threatened salmonid species in the Yakima River.
FP02017: Conconully Town of: Wastewater Facility Plan: Prepare a wastewater facility plan that contains a treatment system assessment, sprayfield management plan, public health protection plan, and ground water monitoring plan. The plan includes analysis and update of operation and maintenance procedures and the new sewer use ordinance. The plan will comply with Conconully's new State Waste Discharge Permit.
FP02018: Whitman Conservation District: Whitman County Water Quality Education: This proposal's intent is to use water quality as a stepping-stone to the "bigger picture" in educating area youth in the interrelationships water quality has in it's environment. Through different water quality formats (grades 3-8), information will be presented demonstrating the importance of conservation for issues both locally and regionally.
FP02019: Reardan Town of: Reardan Wastewater Facility's Design: This project will result in a wastewater facility's design to upgrade our treatment facility to meet all state and federal requirements.
FP02020: Grays Harbor Conservation District: Grays Harbor Water Quality Assessment: Ecology has completed the Grays Harbor Fecal Coliform Total Maximum Daily Load study (WRIA 22), June 2000. Which concluded that all the river systems (except the Wynoochee) needed to have the fecal coliform reduced. This project seeks to identify the fecal loading sources in three rivers within this area. The Wishkah, Hoquiam, and the Chehalis mainstem, by conducting a water quality (fecal) monitoring project and a voluntary animal census of the selected watersheds.
FP02021: Klickitat County PUD: Wishram Wastewater Treatment Plant Improvements: Make plant improvements per Ecology approved engineering report: Aeration system - replace aging surface aerators with new diffused air system; Disinfection system - replace concrete block baffles in chlorine contact tank with fiberglass; add equipment to improve chlorine mixing and tank cleaning; Operating improvements - add influence screen and improve grit removal facilities.
FP02022: Pomeroy Conservation District: Garfield County Riparian Enhancement: This project will implement agricultural best management practices (BMPs) in the riparian area of four creeks. Efforts will focus on developing off-stream watering facilities not provided under CREP or CRP. The four creeks to be addressed include Pataha, Alpowa, Deadman, and Meadow. All creeks other than Meadow are habitat for threatened Snake River Steelhead and all face similar water quality problems related to uncontrolled livestock access.
FP02023: Coupeville Town of: Wastewater Treatment Plant Expansion 1: This project will improve wastewater treatment plant reliability, flow capacity, and solids loading capacity of Coupeville's treatment plant. Project components include: increased effluent pumping capacity; standby generator for all treatment functions; second clarifier. This first phase project will preserve and enhance Penn Cove water quality as the first phase of a two phase project.
FP02024: Okanogan Conservation District: Methow Watershed Irrigation Water Management: Provide technical assistance to WRIA 48 irrigators, with focus on the irrigation districts that are facing regulatory control by NMFS. The Okanogan Conservation District will provide water management training and technical assistance to irrigators that are withdrawing water from priority and 303(d) listed streams to enhance existing water savings programs.
FP02025: Okanogan Conservation District: Okanogan Implementation Committee Coordination: This project will coordinate the Okanogan Watershed Implementation Committee as it oversees the implementation of the Okanogan Watershed Water Quality Management Plan and provide local input into the development of the Okanogan Watershed DDT TMDL. It will provide valuable public outreach and information and education activities relating to water quality.
FP02026: San Juan County Conservation District: San Juan County Monitoring Program: This proposal is for a preventive, early action program that analyzes water quality trends, establishes baseline conditions, defines critical areas, provides remedial action, and involves the public in stewardship through volunteer monitoring and public involvement.

**Fiscal Year 2001 Centennial Clean Water Fund, Washington State Water Pollution Control Revolving Fund,
Clean Water Act Section 319 Nonpoint Source Fund: Project Summaries**

Application number: applicant name: project name: Description (from application)
FP02027: Almira Town of: Almira WWTF Hydrogeologic Characterization Study: The project will provide funding for the following: 1. Initial scope of work from Ecology review and comment. 2. Installation of three monitoring wells, a fourth may be required. 3. The ground water will be tested during a 24-month period. 4. Almira WWTF Hydrogeologic Characterization Study.
FP02028: Thurston Conservation District: Nisqually Delta Shellfish Response Grant: This project reduces fecal coliform contaminating shellfish beds by addressing agricultural and urban communities in the Nisqually Reach and McAllister. TCD will inventory and map farms in focus areas and develop 30 conservation plans with 75 percent implementation. BMP effectiveness will be monitored. Workshops will be held and videos produced. Shellfish stewards will conduct educational projects for shellfish recovery.
FP02029: Thurston Conservation District: Scatter Creek Habitat Conservation Plan: This project would complete the development of a Habitat Conservation Plan (HCP) in Scatter Creek. The HCP effort is driven and supported by the local landowners. The HCP will be a long-term management tool authorized under ESA to conserve threatened and endangered species. Plan implementation will also address nonpoint concerns.
FP02030: Yakima County: Removal of Wrecking Yards from Flood Plains: Yakima County has four automobile wrecking yards within the flood plains of the Naches and Yakima Rivers. It is the intent of this project to relocate these wrecking yards out of the flood plain, and relocate them to a more friendly environment.
FP02031: Bremerton, City of: Cherry/Trenton CSO Reduction Improvements: The project designs and constructs improvements in Cherry Avenue Basin and in Trenton Avenue Basin. The work includes: replacement of a section of beachmain, replacement of the combined sewer to the beachmain, forcemain installation, overflow number 7 modifications, installation of flow control valves, and sliplining of a large gravity sewer.
FP02032: Bremerton, City of: Anderson Cove - Basin 12: The project will design and construct Anderson Cove CSO Basin 12 improvements consisting of a flow diversion from Basin 11 to Basin 12 and an upgrade of pump station CW-4. This project will construct all of the remaining CSO reduction facilities required within the Anderson Cove Basin.
FP02033: Bremerton, City of: Low Interest Loan Program: The low interest loan program will help property owners replace failing sewer laterals or install new storm systems. This will reduce infiltration of ground water into the sanitary sewer system to provide needed capacity for CSO reduction and eliminate exfiltration of untreated wastewater from failing service laterals.
FP02034: Bremerton, City of: Tracyton Beach CSO Reduction Improvements: The project is design and construction of all CSO reduction improvements in the Tracyton Beach Basin. Improvements include an upgrade of pump station EB-6 along with construction of a storage facility of approximately 50,000 gallons and associated restoration.
FP02035: Bremerton, City of: Trenton Avenue Pump Station Improvements: The project is design and construction of upgrades to pump station EB-2 and EB-3. The EB-2 upgrade will increase pump station peak capacity to 4,300 gpm. It will require new pumps, ancillary equipment, and structural modifications. EB-3 modifications are for modified discharge head requirements and capacity increase to 1,500 gpm.
FP02036: Shelton, City of: Shelton WWTP Digester Expansion Project: The city of Shelton will upgrade and expand the aerobic digester system at the WWTP by increasing digester capacity, improving aeration processes, and upgrading its sludge pumping and piping processes. This will ensure the ability of the City to decrease volatile solids and produce digested sludge meeting land application criteria.
FP02037: Washington State University: BMPs for Cranberry Farms: Pesticides found in cranberry farm surface water exceeded water quality standards by orders of magnitude. Despite intense effort to resolve the problem, little progress has been made. We propose to solve this problem with cost-effective solutions that are the result of research, implementation, educational outreach, consensus building, and adaptive management.
FP02038: Longview, City of: Longview Ditches TMDL Supplemental Project: Expansion of Ecology TMDL sampling of Longview ditches, which are listed on 303(d) section of the Clean Water Act. Cataloging the stormwater system including outfalls and roadside ditches and culverts by GIS. Development of public outreach and education programs.
FP02039: Klickitat County: Dallesport Wastewater Facilities Project: The proposed wastewater treatment facility project for the Dallesport area includes the design and construction of a sanitary sewer collection system and a wastewater treatment facility. The collection system will consist of gravity main lines, force main lines, lateral lines, and three lift stations. The wastewater treatment facility will be a three-stage treatment plant designed to filter, clarify, aerate, and disinfect effluent prior to disposal to a subsurface discharge zone. Wasted biosolids will be thickened and digested onsite prior to dewatering on drying beds, and distributed to area farms where it will be land applied as class B biosolids (pending permit requirements).
FP02040: Skagit County Public Works Department: Skagit County Agricultural Buffer Program: To provide a managed agricultural buffer program with monitoring timelines that will allow for the reduction of point/nonpoint pollution, the increase of riparian buffer habitat to provide protection for salmon bearing waters, a public outreach educational aspect for ag/land best management practices and support of the advisory science oversight review panel.

**Fiscal Year 2001 Centennial Clean Water Fund, Washington State Water Pollution Control Revolving Fund,
Clean Water Act Section 319 Nonpoint Source Fund: Project Summaries**

Application number: applicant name: project name: Description (from application)
FP02041: Mount Vernon, City of: Maddox Creek Relocation: Maddox Creek, prime salmonid habitat, flows into a ditched system that drains light industrial and agricultural areas. The ditch flows through seven tide gates before reaching Skagit Bay. We propose relocating the southern portion of Maddox Creek to prevent it from mixing with the urban stormwater and agricultural runoff.
FP02042: Clark County Public Works Department: Watershed Characterization for Clark County/LCFRB: This project will collect data for watershed characterization and fish recovery project planning. It will implement part of the Clark County municipal NPDES permit as well as assist in the preparation and implementation of a ESA recovery plan for Clark County and the Lower Columbia Fish Recovery Board. With Clark County as project lead, it will be a cooperative effort of Clark County Public Works and the Lower Columbia Fish Recovery Board.
FP02043: Clark County Public Works Department: Monitoring Coordination and Resource Program: This project will establish a shared monitoring resource program for the varied needs of local agencies, students, and volunteers. The "resource center" will provide training to volunteers and local agency staff; maintain an equipment borrowing facility; coordinate monitoring activities, and establish agreed upon indicators, data management, and reporting systems.
FP02044: Clallam County: Clean Water District Water Quality Monitoring and TMDL Implementation: This proposal requests funds to conduct water quality monitoring in the proposed Clean Water District to: Determine the success of remediation measures for fecal coliform abatement on water quality; Conduct follow-up water quality monitoring in priority streams, and; Inform the public of water quality conditions.
FP02045: Skamania County: Sand Hill Slide: "J" Vanes and Habitat Improvement: Landslides on the Wind River increase turbidity and impact water quality, fish habitat, and human use. The proposed project will address the problem by installing rock vanes at the toe of the slope, creating fish habitat and diverting erosive currents. The project will also move unnatural depositions blocking floodplain access.
FP02046: East Columbia Basin Irrigation District: ECBID Rill to Sprinkler Conversion Program: This rill to sprinkler conversion program is proposed to provide low cost loans to farmers in the East District irrigated service area to finance these conversions. The benefits achieved by reducing the amount of rill irrigated land will be improved water quality through the reduction of sediment loads and the levels of pesticides, nitrogen and other pollutants in District drains and wasteways.
FP02047: Housing Authority of the City of Tacoma: Feasibility Study - Zero/Low Impact Housing: A feasibility study is proposed to redevelop Salishan, a public housing project, following zero/low impact guidelines. The redeveloped 200-acre project would have near zero impact on water and habitat quality in Swan Creek. It would demonstrate that heavily damaged urban streams need not be abandoned, but can be restored through redevelopment.
FP02048: Pacific Conservation District: Willapa River TMDL Issues: The Willapa River, TMDL Study; Data Summary Report and the 1998 Washington State 303 (d) list cited the Willapa River for exceeding state water quality standards for temperature, dissolved oxygen, and fecal coliform. Natural Resource Conservation Service farm plans will be developed and practices implemented to improve water quality in the Willapa River.
FP02049: Chehalis Basin District Alliance: Upper Chehalis Nonpoint Reduction: This grant will be used to provide technical and financial assistance to landowners and occupiers who own livestock that have access to surface waters of the state. District and NRCS personnel will develop conservation plans and work with the landowners and occupiers to design and implement riparian restoration projects.
FP02050: Lewis County Conservation District: Cowlitz River Nonpoint Reduction: This grant will be used to provide technical and financial assistance to landowners and occupiers who own livestock that have access to surface waters of the state. District and NRCS personnel will develop conservation plans and work with the landowners and occupiers to design and implement riparian restoration projects.
FP02051: Centralia, City of: Pump Station, Outfall and Interceptor: This project is construction of the pump station and outfall and pipe materials for the interceptor pipeline to convey wastewater from the existing Centralia wastewater treatment plant to the new wastewater treatment plant at the Flying T site.
FP02052: Clark Conservation District: Salmon Creek Clean Water Grant: Ecology has established a TMDL on Salmon Creek in Clark County for fecal coliform and turbidity. Human disturbance, failing septic systems, and agricultural waste are identified as sources for both parameters. This proposal will address the need in Salmon Creek for water quality programs that assist livestock owners in reducing fecal coliform and sediment entering Salmon Creek from their property and assist the community in identifying and correcting domestic septic system problems.
FP02053: Marysville, City of: Water Quality/Flow Monitoring Program: Development and implementation of a water quality and flow monitoring program to evaluate water quality within the Marysville city limits. Objectives are to measure the effectiveness of proposed nonpoint source BMPs in achieving state surface water quality standards and verification of stream flows for use in calibration of hydrologic models.

**Fiscal Year 2001 Centennial Clean Water Fund, Washington State Water Pollution Control Revolving Fund,
Clean Water Act Section 319 Nonpoint Source Fund: Project Summaries**

Application number: applicant name: project name: Description (from application)
FP02054: Blaine, City of: Blaine General Sewer Plan: Develop a new general sewer plan for the city of Blaine necessitated by stoppage of the wastewater treatment plant upgrade and expansion project, as well as subsequent Historic Register designation of the current treatment plant site. The new plan is likely to include a regional treatment facility.
FP02055: Thurston County Environmental Health Division: Nisqually Reach Pollution Source Identification: Nisqually Reach commercial shellfish areas have been downgraded due to increasing levels of fecal coliform contamination. The main purpose of this project is to determine what and where the major sources of fecal coliform contamination in McAllister Creek are, and take actions to reduce them. This goal will be accomplished through stream segmentation, prioritization of sources, source analysis, technical assistance, survey methodology, education, and compliance action.
FP02056: Lacey, City of: 7th Avenue Stormwater Facility: This proposal involves construction of a stormwater treatment facility to mitigate the stormwater outfall located on 7th Avenue in Lacey. This outfall is the City's last remaining discharge to Woodland Creek. The facility will intercept storm flows that drain from a 13 acre, commercially zoned area of the City.
FP02057: Lacey, City of: Stormwater Pond Maintenance Outreach Project: This outreach effort will provide homeowners with the motivation and training necessary to better maintain their stormwater ponds. Through workshops and work parties, homeowners will learn how to effectively maintain their facilities, ultimately preventing pollution of stormwater at the source and decreasing the incidence of storm pond failure.
FP02058: Tumwater, City of: Deschutes/Percival Habitat & Public Education: This project will protect and enhance water quality and salmon habitat in the Deschutes River main stem through a combination of riparian buffer revegetation, bioengineering and large woody debris placement, and promote proactive watershed stewardship in the Deschutes River and Percival Creek watersheds through the development and installation of educational signs.
FP02059: Brewster, City of: Wastewater Treatment Plant Upgrade: The city of Brewster has received an order to make improvements to its wastewater system to meet conditions of its NPDES permit. This project will accomplish the design and construction of upgrades to replace outdated and marginally functioning components of the plant, bringing the facility into compliance with federal and state water quality standards.
FP02060: Quincy, City of: Quincy Water Reclamation Plan: Upgrade Quincy municipal wastewater treatment plant from an aerated lagoon facility to a Class A reclamation facility to permit continued discharge to ground water by surface percolation, in order to comply with new ground water discharge quality standards. New facilities will include headworks screen, sequencing batch reactor biological treatment (including biological ammonia and nitrate removal), effluent filters and ultraviolet light disinfection facilities.
FP02061: Ferndale, City of: Refinance of Wastewater Treatment Plant Improvements: Improvements included biosolids removal and disposal, conversion of an already existing 1.7 MGD partial-mix aerated lagoon treatment system to a 3.3 MGD dual-powered aerated lagoon treatment system, construction of effluent filters, chlorination/dechlorination system, approximately 2000 feet of 30-inch effluent pipeline and a new outfall discharging to the Nooksack River.
FP02062: Palouse Conservation District: Palouse Pilot TMDL Project: Phase 2: This project comprises Phase 2 of a three-phase Pilot TMDL project in the Palouse Region. Phase 2 will complete a TMDL Implementation Plan for fecal coliform bacteria on the North Fork Palouse River and allow for completion of TMDLs for all other listed parameters (temp. DO, pH) with minimal additional resources.
FP02063: Walla Walla County Water District No. 2: Touchet Sewer Facility Plan: Walla Walla County Water District No. 2 is seeking funding to hire an engineering firm to prepare a "facility plan." The facility plan will evaluate the existing system and determine options to repair and upgrade the sewer treatment system. The options will maximize the use of the existing system.
FP02064: Bellingham, City of: Whatcom Watershed TMDL Study & Stormwater Mapping Project: The Whatcom Watershed Nonpoint Action Plan is an innovative, multifaceted, nonpoint pollution prevention program seeking to improve salmonid habitat, water quality and recreational uses of Whatcom Creek. The project takes a three pronged approach in preventing nonpoint pollution to Whatcom Creek and its tributaries by integrating a TMDL study, mapping of the stormwater system and a public education campaign.
FP02065: Whatcom County: Water Quality Monitoring Implementation: The project will support work being done under the Watershed Planning Act. The project will result in implementation of a long-term comprehensive water quality monitoring program within WRIA 1 that includes: Identifying the nature and extent of water quality concerns; Identifying trends; Evaluating management actions; and Meeting Planning Act goals.
FP02066: Napavine, City of: Napavine Comprehensive Stormwater Management Plan: The proposed project would develop a Comprehensive Stormwater Management Plan to address water quality and quantity problems in the vicinity of the town of Napavine.

**Fiscal Year 2001 Centennial Clean Water Fund, Washington State Water Pollution Control Revolving Fund,
Clean Water Act Section 319 Nonpoint Source Fund: Project Summaries**

Application number: applicant name: project name: Description (from application)
FP02067: King County Department of Natural Resources: Ground Water Education Program: Promote commitment, awareness, appreciation, and knowledge of ground water resources through visual and interactive learning activities and public outreach that will create environmentally sustainable lifestyle behaviors and practices that will increase individual participation in ground water protection and conservation.
FP02068: Davenport, City of: Wastewater Facility Rehabilitation Project: Raw sewage pumping improvements include approximately 4100 feet of force main and larger pumps which increase capacity from 875 gpm to 930 gpm. Creek discharge is recommended under stringent conditions and depends on creek flow, quality of lagoon final effluent after UV disinfection. The City would develop and implement a water quality program.
FP02069: Mason Conservation District: Case Inlet Watershed Stewardship Program: The Mason Conservation District, in conjunction with MCDPHS, will work with landowners within the Case Inlet watershed to decrease nonpoint source pollution, resulting from improper agricultural practices and failing or improperly maintained on-site septic systems. This assistance will be in the form of farm planning, best management practices implementation, technical assistance and educational outreach.
FP02070: Skagit Conservation District: No Name Slough Implementation - Phase 1: The No Name Slough basin currently suffers from water quality, quantity, and fish and wildlife habitat impairments, including documented violations of state water quality standards, low flows, and loss of riparian, estuary, and near shore habitat. The proposed project will directly address recommended action items in a targeted priority area. Through a coordinated and comprehensive stakeholder program consisting landowner participation, public outreach, volunteer involvement, watershed characterization, and the development of site-specific implementation projects, the SCD will protect and improve the resources of this area.
FP02071: Whatcom Conservation District: Tenmile Creek Riparian Restoration Pilot: This farmer-led initiative joins with an active regional fish enhancement group and conservation district to meet the needs of salmon, agriculture and community. The water quality problems (fecal coliform, ammonia, temperature, dissolved oxygen, pH) in the Tenmile Creek watershed will be reduced by establishing appropriate riparian buffers along agricultural watercourses.
FP02072: Nooksack Indian Tribe: Fecal Coliform Transport in Shallow Ground Water Discharging to Streams: Assess the transport of fecal coliform bacteria from agricultural operations and septic systems through shallow ground water discharging to surface water. Data on enteric bacteria colony numbers, hydraulic head, and geochemical conditions will be collected from nested piezometer sets installed at three locations and subsurface tile drains. Data analysis will assess the potential for agricultural manure spraying to be providing a source of enteric bacteria to ground water for transport to surface water.
FP02073: Whidbey Island Conservation District: Agricultural BMP and FMP Implementation/Whidbey Island: Goal: Protect and restore (improve) water quality. Decrease the negative impacts to water quality/quantity habitat caused by poor livestock management and forestry practices on Whidbey Island. Provide educational and technical assistance to land owners (residents) of Whidbey Island to help them meet GMA, ESA, and other state and local benchmarks for water quality and habitat protection.
FP02074: Toledo, City of: Sewer System Improvements: To reduce infiltration/inflow into the City's sewer system, the proposed project involves the repair or replacement of approximately 5,500 linear feet of 6-inch to 12-inch diameter concrete gravity sewer main and side sewer on public property with PVC pipe. The project area lies primarily between First, Fifth, Alder, and Cowlitz Streets.
FP02075: Pe Ell Town of: Wastewater Treatment Plant Construction: The town of Pe Ell's wastewater upgrade project consists of the construction of a new oxidation ditch with two secondary clarifiers; headworks including two gravity grit channels, Parshall flume, influent screening, and biological selectors; UV disinfection; effluent pump station; operations building; sludge drying beds; and conversion of the existing oxidation ditch to an aerobic digester.
FP02076: Okanogan, City of: Okanogan Wastewater Facility Plan: Preparation of a wastewater facility plan, including a wastewater treatment plant evaluation, collection system evaluation, infiltration and inflow study, and outfall study. The project will provide long-term planning for the City's wastewater utility, help protect Okanogan River water quality and endangered salmonids, and ensure compliance with the City's NPDES permit.
FP02077: Okanogan, City of: Wastewater Treatment Improvements Design and Construction: Design and construct improvements to the city of Okanogan wastewater treatment facility, including a new influent lift station, additional RBC units, and UV disinfection. Project will improve plant reliability, and allow more stringent effluent limits to be met for residual chlorine to protect water quality in the Okanogan River.
FP02078: North Kitsap School District: Bjorgen Creek Common Learning Center: Comprehensive restoration developed on watershed basis; involving district-wide participation of students by grade levels and youth employment utilizing workbased learning skills. Fully integrated through expanded water quality/marine science studies curriculum at Marine Science Center on Liberty Bay and creation of Community Learning Center on Bjorgen Creek and pond.

**Fiscal Year 2001 Centennial Clean Water Fund, Washington State Water Pollution Control Revolving Fund,
Clean Water Act Section 319 Nonpoint Source Fund: Project Summaries**

Application number: applicant name: project name: Description (from application)
FP02079: Lummi Nation Service Organization: Coal Mine Road Sediment Reduction: This project will storm-proof 3.5 miles of north fork Nooksack forest road on Whatcom County right-of-way. New drainage structures will prevent road initiated slope failures and limit sediment delivery. Specially designed culverts and bridges will be required to meet sediment objectives and restore anadromous fish passage.
FP02080: Lummi Nation Service Organization: South Fork Saxon Instream Structure: This proposal is to install 4-5 historic-scale large woody debris structures in the south fork Nooksack River Saxon/Acme Reach. Structures will restore the complex network of large woody debris necessary to limit bank erosion, provide sediment storage. They will scour and maintain functional salmonid holding and rearing pools for endangered Chinook salmon.
FP02081: Lummi Indian Business Council: TMDL Implementation Monitoring in WRIA 1: Perform water quality monitoring necessary to: implement the Nooksack River and Johnson Creek fecal coliform TMDLs; evaluate impacts of farm plans and associated BMPs on water quality of downgraded and threatened tribal shellfish beds; and support upcoming Drayton Harbor fecal coliform TMDL water quality monitoring. Streamflow and water quality data will be collected and analyzed.
FP02082: Spokane, City of: Refinance Existing Sewer Bond Debt: This project is to refinance existing sewer bond debt. The projects for which the refinancing applies were the CSO Reduction and the Septic Tank Elimination Programs, which were accomplished in the 1980s.
FP02083: Spokane, City of: Cochran Basin I/I Facility Plan: Cochran Basin was separated during the CSO projects of the 1980s. During development of the current wastewater facilities plan, grossly excessive I/I was detected in the Cochran Basin. This project will identify the sources, and has the potential of reducing peak interceptor flows by 13 MGD or more.
FP02084: Spokane, City of: Cowley Creek Diversion: Cowley Creek emerges from ground water springs near Sacred Heart Hospital. It is currently connected to the combined sewer. This project will intercept approximately 400,000 gallons per day, and by using recently abandoned water mains and some new construction, route the flow separately approximately 1 1/3 miles to the Spokane River.
FP02085: PUD No. 1 of Skagit County: Similk Beach Sewer Improvement Project: County and state health departments have documented failing household septic systems that have downgraded the commercial shellfish areas along Similk Beach on Fidalgo Island in western Skagit County. The District is working with Skagit County and the Similk Beach community on a new public sewer system to serve about 70 residences, eliminate the emergent public health problem, and allow the upgrade of the shellfish beds to prior production status....
FP02086: Franklin Conservation District: Water Quality Education Program: This program will educate agricultural producers and the public about the problem of elevated nitrate levels in ground water in Franklin County. In addition, a County-wide environmental education program will be developed. The program will educate K-12 graders by providing in-class instruction about water quality issues. The educational program will be marketed to the public via an interactive web site.
FP02087: Franklin Conservation District: Irrigated Ag Technical Assistance: Reduce agriculture impacts to surface and ground water by providing on-farm technical support for new irrigation systems, and demonstrate continuous soil-moisture monitors that allow a grower greater control on their irrigation and fertilizer systems. Project includes water quality monitoring.
FP02088: Franklin Conservation District: Irrigated Ag Loan Program: Reduce agriculture impacts to surface and ground water by providing low-interest loans to growers to convert inefficient rill and hand- or wheel-line irrigation systems to center pivot or drip systems that prevent surface runoff and reduce ground water leaching.
FP02089: Island County Health Department: On-Site Repair Financial Assistance Program: The program will continue a local loan fund to provide financial assistance to private citizens to repair or replace failing on-site sewage systems. A priority system will be used to identify and fund failing on-site sewage systems with the most critical water quality, public health, and citizen need for low interest funding. A portion of the general fund will be reserved to assure loan repayment. A financial institution will provide loan approvals and contract collection services. Loans will be secured by a Promissory Note and Deed of Trust. Assurances will be obtained for systems installed with local loan funds to be properly designed by a Washington State licensed on-site sewage system designer, installed by an Island County licensed on-site sewage system installer and properly operated and maintained per Island County Code 8.07C.250.
FP02090: Everett, City of: Pumped Effluent to Deepwater Outfall: Construct a 32 mgd (expandable to 54 mgd) pump station and associated piping to remove effluent discharge from the Snohomish River basin by WPCF's of City's of Everett and Marysville. Reduce water consumption by enabling Kimberly Clark to reuse the effluent for cooling water before deepwater discharge into Puget Sound.
FP02091: Adams Conservation District: Fecal Coliform Base Line Project: Establish a baseline for fecal coliform within Adams County to support environmental issues associated with the application of poultry nutrient material to agriculture fields before National Foods objective of producing 1,000,000 eggs daily is reached.

**Fiscal Year 2001 Centennial Clean Water Fund, Washington State Water Pollution Control Revolving Fund,
Clean Water Act Section 319 Nonpoint Source Fund: Project Summaries**

Application number: applicant name: project name: Description (from application)
FP02092: Chelan County Conservation District: Wenatchee TMDL & BMP Implementation Project: Coordinate and implement "early action items" that will assist the planned total maximum daily load (TMDL) process in the Wenatchee River watershed and participate in the Wenatchee WRIA planning. Increase public awareness of water quality issues and provide technical assistance to landowners to improve water quality with best management practices.
FP02093: Pend Oreille Conservation District: Upper Pend Oreille Sub-Watershed Ranking: Collection of baseline data for establishing future BMP implementations and TMDLs for 16 sub-watersheds emptying into the northern portion of the Pend Oreille River; 11 containing Westslope Cutthroat, 5 containing Cutthroat and Bull Trout. Install temperature data loggers in 303(d) Section of Cedar Creek for more complete long-term information.
FP02094: Clallam Conservation District: Dungeness Watershed Farm Plan Implementation: Technical and financial assistance will be provided to Sequim-Dungeness Clean Water District farm operators to develop farm plans and implement best management practices. A farm inventory will be conducted to identify high priority farms.
FP02095: North Bend, City of: North Bend Sewer Infiltration and Inflow Improvements (Phase 2): The city of North Bend conducted an infiltration and inflow (I/I) study that identified unsound sewer lines contributing excessive I/I to the collection system. The I/I study recommended that improvements to the collection system be conducted in two phases. The phase 1 improvements were constructed during the summer of 1998 and replaced approximately 6000 lineal feet of sewer mainlines and associated side sewers from the main to the property lines. The phase 2 project represents a continuation of the overall project to further reduce I/I. Approximately 2700 lineal feet of sewer main and 1100 feet of side sewer will be replaced.
FP02096: Stevens County Conservation District: GIS for WRIA 59: This project will utilize a geographic information system (GIS) in WRIA 59 to build a complete picture of watershed conditions on which to base decisions. The GIS will be used to enhance three concurrent watershed projects: WRIA 59 planning, Colville River Watershed Heath, and Ecology's TMDL study.
FP02097: Moses Lake, City of: Larson Sewage Treatment Plant Upgrade: The project will upgrade the existing wastewater treatment facility. The modifications are reconfiguring the existing south lagoon into a Biolac Treatment Facility, provide mechanical screening of the influent, and UV disinfection of the effluent. The treatment process will include denitrification to reduce nitrate concentration in the ground water.
FP02098: Uniontown Town of: Wastewater Facilities Plan Amendment: The town of Uniontown's wastewater facilities plan was completed in 1977 and is outdated. The Town needs to complete an Addendum to the 1977 plan in order to define their needs, options for improvements, and set goals for future planning.
FP02099: Whatcom County Public Works: Water Quality and Riparian Restoration: A systematic effort for establishment of riparian buffers along lowland Whatcom County streams to improve water quality. A low-cost program utilizing labor from Whatcom County Jail and Washington Conservation Corps to improve water quality and salmon habitat. Partners include Whatcom County, Nooksack Salmon Enhancement Association, Drainage Improvement Districts, and Whatcom Sheriff's Office.
FP02100: Chehalis River Council: Chehalis River Council Resource Library: Partner with agencies and residents on nonpoint pollution solutions. Significantly enhance existing CRC Resource Library for residents of WRIsAs 22, 23. Expand operation to five half-days, offer improved electronic data, including GIS, increase existing publications and references, and implement 24 month program of nonpoint water quality education in local communities.
FP02101: Toppenish, City of: Wastewater System Improvements (Refinance): Refinance USDA-RD loan for design and construction of improvements to wastewater treatment facilities and rehabilitation of a portion of the existing collection system to provide facilities with adequate capacity to treat current and future loadings, and to protect ground water and domestic water sources from contamination due to exfiltration.
FP02102: Mason County: North Bay - Case Inlet Water Reclamation Facility: The complete project consists of construction of a water reclamation facility on property purchased by Mason County one mile west of the town of Allyn; pumping and transmission main facilities; and a sewer collection system serving Allyn, Victor, and Lakeland Village. The components of the reclamation facility includes a headworks, a sequencing batch reactor with a design flow of 0.304 MGD, effluent filters, UV disinfection, storage ponds, and a sprayfield. The facility is designed to produce Class A reclaimed water.
FP02103: Port Townsend, City of: Wastewater Conveyance System Improvements Project: Project implements the recommendations of the City's wastewater facilities plan for elimination of overflows. Proposed improvements include removal of inflow sources, replacement of sections of the City's existing major trunk sewer, and replacement of the City's primary lift station (Gaines Street Pump Station).
FP02104: Port Ludlow Drainage District: Stormwater Comprehensive Management Plan: Develop a stormwater comprehensive management plan to address water quality and quantity problem of the newly formed Drainage District.

**Fiscal Year 2001 Centennial Clean Water Fund, Washington State Water Pollution Control Revolving Fund,
Clean Water Act Section 319 Nonpoint Source Fund: Project Summaries**

Application number: applicant name: project name: Description (from application)
FP02105: Island County Public Works Department: Camano Watershed Program: Camano Island Watersheds were ranked number three for watershed action planning (WAC 400-12). Island County has made a commitment to proactively manage nonpoint pollution by initiating, completing, and implementing action plans on Whidbey Island. This action plan process will complete the County's efforts to develop pollution solutions for WRIA 06.
FP02106: PUD No. 1 of Stevens County: Clayton Sewer System Loan Refinancing: Construct a complete public sewer system for the existing unincorporated community of Clayton. The system consists of a septic tank/effluent pump (STEP) collection system, and recirculating sand (gravel) filter treatment system with a pressure drainfield for final disposal. There was no existing public sewer system. The new system replaced existing on-site sewers.
FP02107: Washington State University: Temperature/Turbidity Relationship Study: The relationship between water temperature and turbidity will be evaluated through a literature review and a laboratory study on temperature variations in turbid water exposed to natural and artificial sunlight. Results will be compiled in a report and other materials for dissemination to interested agencies, entities, and groups.
FP02108: Island County Public Works Department: Water Quality Outfall Monitoring: Expand current water quality outfall monitoring program to monitor and analyze stormwater runoff water quality and sediments at outfalls in Coupeville and Langley, unincorporated urban growth areas, 2-3 agricultural zones on each island, and rural areas of more intensive development. The results will establish a corrective action plan.
FP02109: Whatcom County Water District 10: Lake Louise Road Interceptor: Provide second sewage interceptor between District 10's Sudden Valley and Geneva service areas and Bellingham's Silver Beach Trunk Sewer. Interceptor is required by Ecology as a condition of earlier grant. Interceptor will contain infiltration/inflow and prevent sewage overflows; provide capacity for homebuilding on existing, platted lots; and provide capacity for vested or authorized subdivision applications allowed by Growth Management Act.
FP02110: Lincoln County Conservation District: Crab Creek's Contribution to Moses Lake's TMDL: We propose to verify and quantify existing conditions of ground and surface water of Crab Creek in WRIA 43, and identify sources of high pH, excessive phosphorus, and bacteria. A riparian restoration activity would be implemented to reduce bacteria and/or phosphorus loading. Public outreach through information and education will also be accomplished.
FP02111: Bellingham Port of: Nonpoint Pollution Solutions: This project will address nonpoint pollution from boat owners, hobby farmers, households, and businesses in the Drayton Harbor, Lower Nooksack, and Bellingham Bay watersheds. The project will provide the target audience with comprehensive education and incentives to make behavior changes that protect water quality.
FP02112: Lake Chelan Reclamation District: Water Quality Assessment Manson Lakes: This project is a study of Wapato, Roses, and Dry Lakes near Manson. The lakes collect nutrients and pesticides that impact the Manson area lakes and potentially Lake Chelan. This study will provide baseline data for a Lake Management Plan and TMDLs.
FP02113: Fairfield Town of: Wastewater Treatment Facility Improvements: The current treatment facility consists of two facultative lagoons, and has been labeled "non-compliant" by Ecology. This is a facility construction project, which includes: purchase of 15 acres of land; new aerated lagoon; constructed wetlands; flow equalization; influent screening; effluent disinfection; two lift stations; and site piping, fencing, roads, and landscaping.
FP02114: Ferndale, City of: Comprehensive Stormwater Plan: Prepare a comprehensive stormwater plan for the city of Ferndale.
FP02115: Stevens County Conservation District: Mill Creek Watershed Plan Implementation: In December 2000, a watershed management plan was developed by a watershed management committee for the 108,400 acre Mill Creek Watershed, a tributary of the Colville River. This project would implement some of the recommendations contained in that plan to enhance, maintain, and protect surface water quality.
FP02116: Stevens County Conservation District: Onion Creek Watershed Plan Implementation: In September 2000, a watershed management plan was developed by a watershed management committee for the 46,500 acre Onion Creek Watershed, a tributary of the Columbia River. This project would implement some of the recommendations contained in that plan to enhance, maintain, and protect surface water quality.
FP02117: Sequim, City of: Valley Surface Water Management Plan: The consultant will prepare a surface water management plan for the Bell Creek watershed, including irrigation systems and related connections. This plan will provide ideas for regional stormwater management and water quality and aquatic habitat protection through correction of existing stormwater problems and prevention of the degradation of water quality.
FP02118: Lower Columbia Fish Recovery Board: Watershed Assessment of the Kalama River: This proposal is to conduct a watershed assessment of the Kalama River basin where there is limited habitat data relative to other lower Columbia watersheds. It is key to ensuring that fisheries protection address the factors limiting recovery using best available science. It will allow the sponsor to develop a prioritized and logically sequenced list of restoration efforts to bring about recovery.

**Fiscal Year 2001 Centennial Clean Water Fund, Washington State Water Pollution Control Revolving Fund,
Clean Water Act Section 319 Nonpoint Source Fund: Project Summaries**

Application number: applicant name: project name: Description (from application)
FP02119: Island County Public Works Department: Freeland Water Quality Improvement Report: Prepare an engineering feasibility report that sets forth specific recommendations to control water quality and enhance water quality in the Freeland Business District, including: improving wetland habitat, enhancing riparian area, public education/recreation kiosk and trail, and providing sites for detention wet ponds.
FP02120: Kittitas Reclamation District: Kittitas TMDL Support and Monitoring: Assist Ecology's Upper Yakima Total Suspended Sediment and Pesticide TMDL efforts to: monitor TMDL effects on water quality; coordinate early TMDL implementation actions; conduct outreach and technical assistance to water purveyors and water users; and support local water quality and habitat improvement through the KCWP.
FP02121: Kitsap County Department of Community Development: Chico Creek Watershed Resources Protection: Kitsap County DCD and the Bremerton Kitsap Health District will complete a resource protection project on the Chico Creek Watershed. Health will implement shellfish protection in Chico Bay, and pollution control in Kitsap Lake. DCD will complete a demonstration model watershed plan with the U.S. EPA for "Smart Growth/Alternative Futures".
FP02122: Loon Lake Property Owners Association: Loon Lake Wetlands/Watershed Protection: Continued degradation and development of the drainage basin discharge areas threaten the future existence of Loon Lake. These meadows are the primary source of recharge to the lake. The proposed project will purchase, protect, and restore wetlands on 15 acres of meadow at the southwest end of Loon Lake.
FP02123: Mason County Department of Health Services: Lower Hood Canal O&M Program: An on-site septic system operation and maintenance education and homeowner inspection and reporting program will be developed and implemented in the Lower Hood Canal Watershed. The purpose of this project is to continue the restoration and prevent further degradation of the marine and freshwater water quality in the watershed.
FP01006-02: Dayton, City of: Dayton Sewer Bond Defeasance: The City has issued several million dollars in revenue bonds to help pay for a sewer plant rehabilitation at about 5 percent average interest. A low-interest loan would allow us to defeasance these bonds and consequently charge a much lower utility rate to a low-income community.
FP01022-02: Granite Falls, City of: Wastewater Treatment Plant Design & Construction: The city of Granite Falls is upgrading and expanding its wastewater treatment facility. The project includes the addition of submersible mixers and a clarifier to increase the operational efficiency of the facility and conversion from chlorine to ultraviolet disinfection in order to comply with the City's new NPDES permit.
FP01026-02: Granger, Town of: Wastewater Treatment Improvements Design and Construction: Design and construct improvements to the town of Granger wastewater treatment facility, including new oxidation ditch aeration equipment, a new emergency generator, and UV disinfection. Projects will improve plant reliability and allow more stringent effluent limits to be met for residual chlorine and ammonia to protect water quality in the Yakima River.
FP01034-02: Clark Public Utilities: La Center Sanitary Sewer System Infiltration & Inflow Study: Clark Public Utilities owns and operates the La Center sanitary sewer system. CPU proposes to conduct a study of the wastewater collection system to determine the locations at which extraneous water (also termed infiltration and inflow - I/I) enters the system, the amount of I/I entering the system at these locations, and the methods that might be used to control I/I. Lower Columbia River Estuary Program: Action Item 33: Reduce the bacterial contamination sometimes found in the Columbia River and its tributaries to limit human exposure to contaminated water. Action Item 34: Develop maximum pollutant loads for streams that do not meet water quality standards.
FP01048-02: Colfax, City of: Colfax I/I Removal - Phase 2: The project is located in an area identified in the City's Comprehensive Sewer Plan/Wastewater Facilities Plan as being a major contributor of I/I to the City's Sanitary Sewage Collection System. The City has identified the following approach to eliminating the I/I in this area. Video tape the existing line - this will allow the City to quantify the effectiveness of the repairs. Replace/repair existing failing manholes which contribute to the I/I in the area. Install a PVC liner inside the existing sanitary sewer line.
FP01062-02: Mansfield, Town of: Refinancing of Sewer Line Replacement: This proposal involves the refinancing of an existing Rural Development loan which the Town secured as partial funding for improvements on their sewage collection system. The project replaced over 18,000 linear feet of collection line using a pipe bursting technique. The old concrete pipe was replaced with high-density polyethylene.
FP01063-02: Okanogan County: Conconully Lakes Wastewater System Refinance: This project is complete. Funding is necessary to refinance high-interest General Obligation Bonds used to construct a STEP sewer system. The interest savings will save the project \$8,000 per year and directly benefit the rate payers. The original project was required to meet the requirements of a Federal Order and to remove an identified health hazard caused by untreated household sewage entering the waters of the Conconully Lakes.

**Fiscal Year 2001 Centennial Clean Water Fund, Washington State Water Pollution Control Revolving Fund,
Clean Water Act Section 319 Nonpoint Source Fund: Project Summaries**

Application number: applicant name: project name: Description (from application)
FP01077-02: Brewster, City of: Wastewater Treatment Plant Design: The City needs to replace outdated and marginally functioning components of Brewster's wastewater treatment plant, bringing the system into compliance with state and federal water quality regulations. The project is preparation of approved, construction-ready engineering design and related documents for improvements to the headworks, oxidation ditch, clarifier, chlorination system, and biosolids management. The intent of the project is to prepare the City for Step 3 in Ecology's Step system.
FP01079-02: Spokane County: Refinancing of Spokane County Septic Tank Elimination Projects: Loan proceeds will be used to repay LTGO bonds sold in 1998 and 1999. These bonds cover the cost to design and construct sewer projects to remove septic systems from above the Spokane-Rathdrum sole source aquifer. The projects were constructed in 1996 through 2000 and are part of the Extended Payment Grant Agreement with DOE. Nonpoint Source Plan: Urban Activities 15: Expand the use of Memoranda of Agreement with local governments to address the needs for expansion of sewer services to areas of actual or projected high population density.
FP01090-02: Snohomish, City of: Amendment to CSO Reduction Plan: This project is an Amendment to the City's adopted and approved 1993 CSO Reduction Plan, as required in the 1999 draft NPDES Permit for the Snohomish WWTF. The facilities will consist of a trunk line to intercept two combined sewer overflows and treat the flows in the former wastewater treatment lagoon.
FP01105-02: Stanwood, City of: Wastewater Facilities Design: To address existing deficiencies and accommodate anticipated growth, capital improvement projects were identified in the Facilities Plan for the wastewater collection system and the treatment plant. This project consists of increasing the size of various gravity trunk mains and upgrading the existing lagoon facility to an activated sludge process.
FP01113-02: King County Department of Natural Resources: Denny Way/Lake Union CSO Control Project: The Denny Way/Lake Union CSO Control Project is a joint effort of King County and the city of Seattle to control combined sewer overflows to Lake Union and Elliott Bay, including the Denny Way CSO, which is the largest CSO in the King County system. The project will control Lake Union and Denny Way CSOs by 1) storing CSO flows during moderate storms and transferring them to the West Point Treatment Plant after the storm subsides; and 2) providing at-site treatment at the Elliott West site, with discharge of treated flows through a new outfall during heavy rain conditions.
FP01150-02: Bremerton, City of: Private Sewer System Rehabilitation Activities: This program will provide home and business owners of Bremerton with a low-interest loan option for funding separation of stormwater from their sanitary sewer services. Offering this loan as part of the Combined Sewer Overflow Reduction Program will encourage participation in our effort and help ensure its success. Nonpoint Source Plan: On-site revolving loans, see page 171 of the nonpoint plan.
FP01151-02: Bremerton, City of: Pine Road CSO Reduction Project: This project develops a facility plan for Pine Road Basin and designs a wastewater treatment plant to treat CSO flows in East Bremerton that would otherwise overflow. The CSO treatment facility will reduce CSO events as required by state regulations, court orders, and the improvement of Puget Sound water quality. \$650,000 of this request is for new financing and \$100,000 is for refinancing.
FP01153-02: Bremerton, City of: Anderson Cove CSO Reduction Facilities: This project is facility planning, design, and construction of Anderson Cove CSO separation facilities. The facilities constructed in this project will reduce CSO events as required for compliance with state regulations, court orders, and improvement of Puget Sound water quality. This project will construct all facilities within Anderson Cove, except upgrading pump station CW-4 and the associated flow diversion.
FP01154-02: Bremerton, City of: East Bremerton Inflow/Infiltration Study: The project measures the wet-weather hydraulic system by establishing the rainfall to inflow and infiltration (I/I) relationship. Analyses will calculate rain dependent I/I contributors of I/I for capital improvement consideration. Reduction of I/I reduces the potential for combined sewer overflows to occur.
FP01156-02: King County Department of Natural Resources: Renton Enlargement 3 - Construction (Refinance): The objective of the East Section Reclamation Plant in Renton (ESRP), Enlargement 3 program was to increase average wet-weather flow capacity from 76 mgd. Improvements were made to both liquid and solids stream treatment facilities and to effluent transfer capacity, as well as improving odor control, enhancing site aesthetics, and implementing water reclamation.
FP01157-02: King County Department of Natural Resources: Denny Way/Lake Union CSO Control Project – Construction: The Denny Way/Lake Union CSO Control Project will control Lake Union and Denny Way CSOs by 1) storing CSO flows during moderate storms and transferring them to the West Point Treatment Plant after the storm subsides; and 2) providing at-site treatment at the Elliott West site, with discharge of treated flows through a new outfall during heavy rain conditions.
FP01165-02: Monroe, City of: Eastside Interceptor: Installation of a 24-inch gravity sanitary sewer interceptor to serve the developing north-central area of the City and relieving pressure on the existing 179th Avenue pump station.

**Fiscal Year 2001 Centennial Clean Water Fund, Washington State Water Pollution Control Revolving Fund,
Clean Water Act Section 319 Nonpoint Source Fund: Project Summaries**

Application number: applicant name: project name: Description (from application)
FP01167-02: Yelm, City of: Yelm Sewer Project Loan Refinance: Yelm requests a \$1,763,002 SRF loan to refinance the balance remaining of our 1994 Revenue Bond with U.S. Rural Development, saving \$1,400,000 over the life of the loan. Completed in 1993, the project consisted of a septic tank effluent pump collection system and an aerated lagoon treatment facility.
FP01171-02: Ridgefield, City of: Wastewater Treatment Plant Expansion: Increase funding for project funded in FY 98. Funds are needed because the facility will be built on a contaminated site, complicating construction, which has been delayed by protracted land negotiations. The FY 98 costs were based on using an existing tank, which has been removed as part of contamination cleanup. Lower Columbia River Estuary Plan: Action Item 36: Require all permitted discharges to surface water to use alternatives to chlorine, to protect aquatic life where such alternatives provide equivalent removal and treatment of bacteria. Present costs are based on final construction plans, which include features not provided in FY 98.
FP01186-02: Thurston County: Grand Mound Sewer Facilities Construction: The Grand Mound wastewater facilities replaced the existing Maple Lane Institution's raw-sewage lagoon, in the Chehalis flood plain, on-site system for two DOT Rest Areas and other commercial, industrial and high density residential development within the Urban Growth Area. All future development is required to use the sewer system.
FP01213-02: Shelton, City of: Goldsborough Creek Sanitary-Sewer Crossing: The proposed project will evaluate alternatives for removing a gravity-sanitary-sewer pipeline and force main from Goldsborough Creek, or for protecting the pipeline and force main if removal is not feasible. The City is under mandate from the Department of Fish and Wildlife to remove the gravity sewer pipelines from the creek by 2003.

**DIRECT IMPLEMENTATION FUND
FINAL OFFER LIST**

FY 2002

Direct Implementation Fund (DIF)

This year, Ecology reserved \$400,000 in FY 2002 Section 319 funds for interagency agreements between Ecology and other state of Washington agencies for high priority projects to implement *Washington's Water Quality Management Plan to Control Nonpoint Source Pollution, April 2000*.

This reserve is referred to as the Direct Implementation Fund or "DIF." The DIF was created by Ecology to assist state agencies with addressing nonpoint source pollution problems identified in the Plan. Chapter 9 of the Plan outlines specific implementation responsibilities for these agencies. Ecology accepted applications for DIF consideration until March 30, 2001 and funding consideration was limited to a maximum of \$50,000 per project.

To facilitate the selection of projects, the Nonpoint Source Workgroup was used. This workgroup is a committee comprised of representatives of the 12 state of Washington agencies with specific responsibilities called for in the Plan. Representatives are selected by agency directors and the purpose of the workgroup is to coordinate nonpoint source control efforts and to refine respective agency workplans to implement the statewide nonpoint management plan. State of Washington agencies represented on the workgroup are:

1. Department of Agriculture
2. Conservation Commission
3. Office of Community Development
4. Cooperative Extension
5. Department of Ecology
6. Department of Fish and Wildlife
7. Department of Health
8. Interagency Committee for Outdoor Recreation
9. Department of Natural Resources
10. Parks and Recreation Commission
11. Puget Sound Action Team
12. Department of Transportation

Members of the Nonpoint Source Workgroup, numerically rated all 27 project proposals submitted according to the following criteria:

- Water quality benefit
- Readiness to proceed
- Cost efficiency and effectiveness
- Innovative nature of the project
- Leveraging of project costs

Projects were ranked based on the total scores received, the workgroup met to confirm the project ranking, and it selected the nine (9) highest priority projects to be offered funding.

A ranked ordered list and project summaries of all project proposals submitted follows.

Direct Implementation Fund Ranked Ordered List

State Agency	Rank	Project Name	Amount Requested	Amount Offered
Governor's Council on Environmental Education	1	WA Monitoring Month	\$38,500	\$38,500
Office of Community Development	2	Critical Area Model Ordinance	\$50,000	\$50,000
Puget Sound Water Quality Action Team	3	Horses for Clean Water	\$47,500	\$47,500
Department of Health	4	Optical Storage for Onsite Sewage Records	\$49,972	\$49,972
Department of Health	5	Correcting Failing Onsite Sewage Systems in Shellfish Areas	\$50,000	\$50,000
Department of Natural Resources	6	Forest Road Plans Effectiveness Monitoring	\$41,000	\$41,000
Department of Agriculture	7	Our Water, Our World	\$32,300	\$32,300
Puget Sound Water Quality Action Team	8	Urban Sprawl and Impervious Surfaces	\$50,000	\$50,000
WSU Cooperative Extension	9	Water Quality Education for Small Farmers	\$50,000	\$40,728
Department of Health	10	Quilceda/Allen O & M	\$39,000	
Department of Health	11	Public and Practitioner Input for a Statewide Monitoring and Maintenance Program	\$48,500	
Interagency Committee for Outdoor Recreation	12	Impacts of Land-based Recreation on Water Quality	\$13,000	
Department of Health	13	Operation and Maintenance Specialist for Clallam County	\$50,000	
WSU Cooperative Extension	14	Building the Watershed Stewards Program	\$50,000	
Conservation Commission	15	Tidal Agricultural BMPs: removing clay colloids from v-ditch water	\$50,000	
Department of Transportation	16	Introduction to Stormwater Requirements	\$50,000	
Puget Sound Water Quality Action Team	17	Workshop on "Tools and Techniques for Shellfish Protection in Puget Sound"	\$4,000	
Department of Health	17	Operation and Maintenance Administrative Support Staff for Clallam County	\$38,906	
Department of Health	18	Onsite Sewage System Record Electronic Imaging and Retrieval System for Island County	\$50,000	

Direct Implementation Fund Ranked Ordered Project List

State Agency	Rank	Project Name	Amount Requested	Amount Offered
Department of Transportation	19	Development of Stormwater Modeling Capabilities—Phase I	\$50,000	
Department of Transportation	20	Development of Stormwater Modeling Capabilities—Phase II	\$50,000	
Department of Health	21	Mason Co O & M	\$50,000	
Department of Transportation	22	Development of Stormwater Modeling Capabilities—Phase III	\$20,000	
Department of Transportation	23	Retrofit of Revised Requirements into Current Projects	\$50,000	
Department of Health	24	Electronic Update and Integration of Skagit County Health Department Septic System Data	\$50,000	
Department of Transportation	25	Continued Stormwater Modeling Program Technical Assistance	\$50,000	
Department of Health	26	Equipment Purchase to Enhance Onsite Training Programs	\$10,500	

**DIRECT IMPLEMENTATION FUND
SUMMARY OF PROJECTS**

FY 2002

Direct Implementation Fund Ranked Ordered Project List, Project Summaries

Application number: applicant name: project name: Description
1: WSU Cooperative Extension: Building the Watershed Stewards Program: This program would serve a statewide need by facilitating program expansion into areas not currently served by Watershed Stewards, which are primarily north central and eastern portions of the state. Current program coordinators and faculty will provide considerable staff time to assist in the development of materials and training programs that will serve the rest of the state.
2: Department of Health: On-Site Sewage System Record Electronic Imaging and Retrieval System for Island County: System records are currently stored in a variety of different modes such as microfiche and hard copy. The retrieval of records is currently a laborious task and the comparison or evaluation of system types and effectiveness is virtually impossible. The proposed database will utilize existing information that will be scanned into the system and retrieved electronically.
3: Department of Health: Mason County O&M Project: This project would implement the upgrade of Mason County's existing Tidemark database to allow it to generate time O&M reminder letters for specific septic systems. The project would also allow for the entry of archived records—in this case all of those before 1992.
4: Department of Health: On-site Sewage Records Electronic Scanning, and Optical Storage and Retrieval: Bremerton—Kitsap County Health District is near the final planning stages of a major effort to convert all existing and new on-site sewage related records into electronic format the optical storage for easier, more effective processing, tracking, recall, and assessment. Hardcopy records will be scanned into electronic format, and indexed by street address and tax parcel number.
5: Department of Health: Quilceda/Allen O&M Project: To educate users of new and existing onsite sewage systems, Snohomish Health District (SHD) found plentiful supplies of O&M information so SHD decided to focus on a system that could track current ownership and specific property data, specific onsite system information, and produce a copy of the as-built image of the existing system.
6: Department of Health: Operation and Maintenance Specialist: A grant for this project would provide initial/seed resources to support an operation and maintenance specialist position for Clallam County. The county is currently looking at a long term funding solution for this position.
7: Department of Health: Operation and Maintenance Administrative Support Staff: The Operation and Maintenance Administrative Support Staff position would assist the O&M Specialist through data entry, develop and implement a process to notify system owners of the need for routine maintenance, research and data entry septic information for parcels located in areas of concern, and help O&M Specialist prioritize inspections/surveys based on information contained in the files.
8: Department of Health: Electronic Update and Integration of Skagit County Health Department Septic System Data: The Operations, Monitoring, and Maintenance Program for Skagit County's onsite sewage systems was started in February 2000. Currently, a database program is under development, and a very rudimentary Excel program has been started. No attempt to archive electronically the data since 1958 has been possible due to staff limitations.
9: Conservation Commission: Tidal Agricultural BMPs: removing clay colloids from v-ditch water: Clay colloids in ditch water from surface runoff of cropland in a water quality issue in Northwest Washington. Additional research is necessary before a set of BMPs can be firmly developed to address the issues. This project is a pilot to test management strategies to address the water quality concerns.

Direct Implementation Fund Ranked Ordered Project List, Project Summaries

Application number: applicant name: project name: Description
10: Department of Natural Resources: Forest Road Maintenance and Abandonment Plan Effectiveness Monitoring: As part of the “Forests and Fish” forest practice rules, forest landowners are required to develop Road Maintenance and Abandonment Plans that address and correct sediment, hydrologic, and fish passage problems on forest roads. This project will develop an effectiveness monitoring plan while integrating the landowner, DNR, CMER roles into a single, comprehensive road management strategy.
11: Department of Agriculture: “Our Water, Our World” Pesticide Education Campaign: Originally known as the Home to Ocean Campaign, the Our Water, Our World Campaign is a successful pesticide education program that promotes Integrated Pest Management (IPM) and the use of less toxic pesticides at the point-of-purchase where IPM messages are likely to have the most impact.
12: Office of Community Development: Critical Area Ordinance Models: OCD proposes to research and develop five model critical area ordinances (for wetlands, frequently flooded areas, fish and wildlife conservation areas, aquifer recharge areas, and geologically unstable areas) that address the designation and protection of critical area functions from adverse land use management decisions.
13: Department of Health: Identifying and Correcting Failing Onsite Sewage Systems in Downgraded or Threatened Shellfish Growing Areas: In preparation for this proposal, Department of Health surveyed local health jurisdictions to gain an understanding of local priorities for nonpoint pollution control in shellfish growing areas. The predominant priority received from local health was conducting onsite sewage system inspections to correct failing systems.
14: Puget Sound Water Quality Action Team: Horses for Clean Water: This program teaches and promotes horse-keeping practices such as pasture, manure, and mud management to reduce pollution that can threaten water quality. This project would provide funding to hold two courses in Western Washington.
15: Puget Sound Water Quality Action Team: Workshop on “Tools and Techniques for Shellfish Protection in Puget Sound”: This project would fund a one day workshop for 100 to 125 people in fall or winter 2001 to discuss key issues, tools, and techniques for protecting and restoring water quality in shellfish areas in Puget Sound.
16: WSU Cooperative Extension: Water Quality Education for Small Farmers: The statewide WSU Small Farms Program is requesting funds to help establish a Small Farms Research and Demonstration site at WSU-Puyallup. This six-acre, small farms demonstration project will be one component of a larger demonstration area that will model best management practices for the Clark Creek Watershed.
17: Puget Sound Water Quality Action Team: Urban Sprawl and Impervious Surfaces: This project will raise awareness about urban sprawl and impervious surfaces and show how communities can develop in ways that protect Puget Sound. All interested agencies on the State Agency Nonpoint Workgroup will be invited to collaborate in development and implementation of the project.
18: Department of Health: Public and Practitioner Input for a Statewide Monitoring and Maintenance Program: Washington currently has requirements for local health jurisdictions to develop and implement plans to initiate periodic monitoring of on-site sewage systems. However, in most counties nothing has been implemented yet. In no county has it been fully implemented. This project will consist of conducting two series of 9-10 public meetings throughout the state to describe how implementation of the state requirement creates a “win-win” for everybody and to obtain input on how the monitoring requirements can be best implemented.

Direct Implementation Fund Ranked Ordered Project List, Project Summaries

Application number: applicant name: project name: Description
19: Department of Health: Equipment Purchase to Enhance Training Programs: Equipment that is purchased (laptop, LCD project, a travel case, spare bulbs, Powerpoint, a portable screen, and remote control mechanisms) will be used to enhance our training programs conducted throughout the state of Washington, from our central training center at the Washington State University Research and Extension center in Puyallup.
20: Governor’s Council on Environmental Education: Washington Monitoring Month: Washington Monitoring Month will start in the Yakima watershed, with training and support for 25 adult volunteers and 25 teachers and their students on macro invertebrate and stream temperature monitoring. All will monitor streams in September or early October. The objective is to enable learners to conduct high quality monitoring of water quality, to establish baseline information for future studies, and to increase technical skills and knowledge of stream water quality.
21: Interagency Committee for Outdoor Recreation: The Impact of Land-based Recreation on Water Quality: IAC will sponsor a one-and-a-half day workshop at a central location in the state to bring together land managers and recreation specialists to discuss their experience and research regarding water quality impacts of non-urban, land based recreation activities such as hiking, mountain biking, packstock/equistrian activities, all-terrain/off road vehicles, etc.
22: Department of Transportation: An Introduction to Current Stormwater Requirements: This project will develop a variety of educational tools to inform local agencies on the recent revisions to Ecology’s stormwater manual and the associated impacts of those changes to local agency’s transportation projects.
23: Department of Transportation: Development of Stormwater Modeling Capabilities—Phase I: This proposed project is Phase I in a three phase project what will develop a modeling program for local agencies use in fulfilling Ecology’s stormwater manuals revised requirement to conduct stormwater analysis on a continuous flow basis. Phase I provides a comprehensive analysis and description of modeling/analytical software.
24: Department of Transportation: Development of Stormwater Modeling Capabilities—Phase II: This proposed project is Phase I in a three phase project what will develop a modeling program for local agencies use in fulfilling Ecology’s stormwater manuals revised requirement to conduct stormwater analysis on a continuous flow basis. Phase II consists of the development of the necessary software for a simplified, uniform modeling program.
25: Department of Transportation: Development of Stormwater Modeling Capabilities—Phase III: This proposed project is Phase I in a three phase project what will develop a modeling program for local agencies use in fulfilling Ecology’s stormwater manuals revised requirement to conduct stormwater analysis on a continuous flow basis. Phase III provides local agencies the necessary education on the use and implementation of the model.
26: Department of Transportation: Continued Stormwater Modeling Program Technical Assistance: This project proposes to make available on-going technical assistance for the implementation and use of modeling software, which is necessary to ensure compliance with Ecology’s stormwater manual’s revised requirement to conduct stormwater analysis on a continuous flow basis.
27: Department of Transportation: Retrofit of Revised Requirements into Current Projects: This proposed project would provide match funding to local agencies to retrofit existing projects currently submitted for review to the various resource agencies.