

NOTE: THERE ARE TWO BOUND REPORTS NOT INCLUDED WITH THIS SCANNED DOCUMENT. 1) LOWER CEDAR RIVER BASIN PLAN SUMMARY - AND - 2) PROPOSED LOWER CEDAR RIVER BASIN AND NONPOINT POLLUTION ACTION PLAN. PLEASE CALL KING COUNTY DEPARTMENT OF NATURAL RESOURCES, SURFACE WATER MANAGEMENT DIVISION AT 206/296-6519 FOR COPIES.

April 3, 1997

Introduced By: Larry Phillips

SW:cedarordsub.doc  
Clerk 7/21/97

Proposed No.: 96-420

ORDINANCE NO. **12809**

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AN ORDINANCE adopting the Lower Cedar River Basin and Nonpoint Pollution Action Plan as a functional plan consistent with the King County Comprehensive Plan; adopting surface water management and environmental policies in the plan area; creating a special district overlay zone in part of the plan area; amending Ordinance 10870, Sections 575 and 577, and K.C.C. 21A.38.020 and 21A.38.040; Ordinance 11653, Section 6, and K.C.C. 20.12.017; and adding new sections to K.C.C. 20.14 and K.C.C. 21A.38.

PREAMBLE:

The King County Council has determined that:

1. The lower Cedar River basin is a critical regional resource which supports a threatened salmon run, that produces the largest sockeye salmon run in the lower United States, and supplies almost 50 percent of the fresh water to Lake Washington.
2. Flooding by the Cedar River frequently damages homes and businesses from the City of Renton to Maple Valley.
3. The Lower Cedar River Basin and Nonpoint Pollution Action Plan was prepared in cooperation with the Cities of Renton and Seattle, and state, federal and tribal agencies with management responsibilities in the basin.
4. The Lower Cedar River Basin and Nonpoint Pollution Action Plan provides the policies and management plan to implement the capital improvements, programmatic and regulatory measures that are necessary to:
  - a. Reduce the risk to human life and property from frequent flooding.
  - b. Protect the most valuable remaining aquatic habitat sites in the basin planning area, restore those with the best chance for recovery and ensure long term productivity of Cedar River salmon and steelhead.

1 c. Maintain the Cedar River's high water quality by reducing the impact of  
 2 future development on both surface water and groundwater supplies.  
 3

4 BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

5 NEW SECTION. SECTION 1. There is hereby added to K.C.C. 20.14 a new section  
 6 to read as follows:

7 **Lower Cedar River Basin Plan and Nonpoint Pollution Action Plan.** A. The Watershed  
 8 Management Committee - Proposed Lower Cedar River Basin and Nonpoint Pollution Action  
 9 Plan, as shown in Attachment A and as amended in Attachment B, is adopted to implement the  
 10 surface water management and environmental policies of the King County Comprehensive Plan,  
 11 provided, however, the following conditions shall apply:

- 12
- 13 (1) The Executive shall transmit within thirty days from the Council's adoption of the  
 14 Lower Cedar River Basin and Nonpoint Pollution Action Plan, legislation which  
 15 establishes a detailed work plan and any necessary code changes to implement the  
 16 forest incentive program elements described in Chapter 4; and
  - 17 (2) The Executive shall transmit to Council for review by the Utilities & Natural  
 18 Resources Committee within sixty days of the Council's adoption of the Lower  
 19 Cedar River Basin and Nonpoint Pollution Action Plan, the base line data and the  
 20 methodology for monitoring and evaluating the progress of the forest incentive  
 21 program in the Cedar River Basin consistent with the indicators outlined in Chapter  
 22 4, and shall thereafter submit annual progress reports to Council consistent with that  
 23 established methodology; and
  - 24 (3) The Executive shall transmit to Council for review by the Utilities & Natural  
 25 Resources Committee within sixty days of the Council's adoption of the Lower  
 26 Cedar River Basin and Nonpoint Pollution Action Plan, criteria for prioritizing future  
 27 surface water CIP and bond program projects, and the process for early review by the  
 28 Cedar River Council of projects proposed for funding in the Cedar River Basin.

29 The Watershed Management Committee - Proposed Lower Cedar River Basin and Nonpoint  
 30 Pollution Action Plan constitutes official county policy with regard to surface water  
 31 management in the Cedar River basin and designates Regionally Significant Resource Areas and  
 32 Locally Significant Resource Areas in the basin.

33 B. The water quality and flow control requirements in the Watershed Management  
 34 Committee - Proposed Lower Cedar River Basin and Nonpoint Pollution Action Plan shall

1 supersede requirements in the King County Surface Water Design Manual unless they are  
2 specifically superseded in an update of the manual.

3 SECTION 2. Ordinance 11653, Section 6, as amended, and K.C.C. 20.12.017 are each  
4 hereby amended to read as follows:

5 Adoption of area zoning to implement the 1994 King County Comprehensive Plan and  
6 conversion to K.C.C. Title 21A.

7 A. Ordinance 11653 adopts area zoning to implement the 1994 King County  
8 Comprehensive Plan pursuant to the Washington State Growth Management Act RCW  
9 36.760A. Ordinance 11653 also converts existing zoning in unincorporated King County to the  
10 new zoning classifications in the 1993 Zoning Code, codified in Title 21A, pursuant to the area  
11 zoning conversion guidelines in K.C.C. 21A.01.070. The following are adopted as attachments  
12 to Ordinance 11653:

13 Appendix A: 1994 Zoning Atlas, dated November 1994, as amended December 19,  
14 1994.

15 Appendix B: Amendments to Bear Creek Community Plan P-Suffix Conditions.

16 Appendix C: Amendments to Federal Way Community Plan P-Suffix Conditions.

17 Appendix D: Amendments to Northshore Community Plan P-Suffix Conditions.

18 Appendix E: Amendments to Highline Community Plan P-Suffix Conditions.

19 Appendix F: Amendments to Soos Creek Community Plan P-Suffix Conditions.

20 Appendix G: Amendments to Vashon Community Plan P-Suffix Conditions.

21 Appendix H: Amendments to East Sammamish Community Plan P-Suffix Conditions.

22 Appendix I: Amendments to Snoqualmie Valley Community Plan P-Suffix Conditions.

23 Appendix J: Amendments to Newcastle Community Plan P-Suffix Conditions.

1 Appendix K: Amendments to Tahoma/Raven Heights Community Plan P-Suffix  
2 Conditions.

3 Appendix L: Amendments to Enumclaw Community Plan P-Suffix Conditions.

4 Appendix M: Amendments to West Hill Community Plan P-Suffix Conditions.

5 Appendix N: Amendments to Resource Lands Community Plan P-Suffix Conditions.

6 Appendix O: 1994 Parcel List, as amended December 19, 1994.

7 Appendix P: Amendments considered by the Council January 9, 1995.

8 B. Area zoning adopted by Ordinance 11653, including potential zoning is contained in  
9 Appendices A and O. Amendments to area-wide P-suffix conditions adopted as part of  
10 community plan area zoning are contained in Appendices B through N. Existing P-suffix  
11 conditions whether adopted through reclassifications or community plan area zoning are retained  
12 by Ordinance 11653 except as amended in Appendices B through N.

13 C. The department is hereby directed to correct the official zoning map in accordance  
14 with Appendices A through P of Ordinance 11653.

15 D The 1995 area zoning amendments attached to Ordinance 12061 in Appendix A are  
16 adopted as the official zoning control for those portions of unincorporated King County  
17 defined therein.

18 E. Amendments to the 1994 King County Comprehensive Plan area zoning, Ordinance  
19 11653 Appendices A through P, as contained in Attachment A to ~~((this o))~~ Ordinance 12170  
20 are hereby adopted to comply with the Decision and Order of the Central Puget Sound Growth  
21 Management Hearings Board in Vashon-Maury Island, et al. v. King County, Case No. 95-  
22 0008.

23 F. The special district overlays, as designated on the map attached to Ordinance  
24 in Appendix A, are hereby adopted pursuant to K.C.C. 21A.38.020 and 21A.38.040.

1            SECTION 3. Ordinance 10870 Section 575, and K.C.C. 21A.38.020 are each hereby  
2 amended as follows:

3            A. This chapter authorizes King County to increase development standards or limit uses  
4 on specific properties beyond the general requirements of this title through property-specific  
5 development standards, and to carry out comprehensive ~~((and community))~~ plan policies and  
6 map designations and subarea plan policies through special overlay districts which supplement  
7 or modify standard zones through different uses, design or density standards or review  
8 processes;

9            B. Property-specific development standards shall be applied to specific properties  
10 through either area zoning as provided in K.C.C. 20.12 and 20.16, or reclassifications of  
11 individual properties as provided in K.C.C. 20.24 and 21A.44; and

12            C. Special district overlays shall be applied to specific properties or areas containing  
13 several properties through an area zoning process ~~((adopted in conjunction with community  
14 plans or the Comprehensive Plan))~~ as provided in K.C.C. 20.12 and 20.16.

15            SECTION 4. Ordinance 10870 Section 577, and K.C.C. 21A.38.040 are each hereby  
16 amended as follows:

17            Special district overlay - General provisions. Special district overlays shall be  
18 designated on ~~((community plan maps and indicated on))~~ official area zoning maps or a  
19 notation in the SITUS File, as follows:

20            A. A special district overlay shall be designated ~~((in a community plan, plan update or  
21 plan amendment, or the Comprehensive Plan))~~ through an area zoning process as provided in  
22 K.C.C. 20.12 and 20.16. Designation of an overlay district shall include policies that  
23 prescribe the purposes and location of the overlay;

24            B. A special district overlay shall be applied to land through ~~((the))~~ an area zoning  
25 ~~((adopted in conjunction with the community plan or the Comprehensive Plan))~~ process as  
26 provided in K.C.C. 20.12 and 20.16 and shall be indicated on the zoning map or a notation in

1 the SITUS File, with the suffix "-SO" following the map symbol of the underlying zone or  
2 zones;

3 C. The special district overlays set forth in this chapter are the only overlays  
4 authorized by the code. New or amended overlays to carry out new or different goals or  
5 policies shall be adopted as part of this chapter and be available for use in all appropriate  
6 community planning areas;

7 D. The special district overlays set forth in this chapter may waive, modify and  
8 substitute for the range of permitted uses and development standards established by this title  
9 for any use or underlying zone;

10 E. Unless they are specifically modified by the provisions of this chapter, the standard  
11 requirements of this title and other county ordinances and regulations govern all development  
12 and land uses within special district overlays; and

13 F. A special district overlay on an individual site may be modified by property-  
14 specific development standards as provided in K.C.C. 21A.38.030.

15 NEW SECTION. SECTION 5. There is hereby added to K.C.C. 21A.38 a new  
16 section to read as follows:

17 Special district overlay - wetland management areas. A. The purpose of the wetland  
18 management area special overlay district is to provide a means to designate certain unique and  
19 outstanding wetlands when necessary to protect their functions and values from the impacts  
20 created from geographic and hydrologic isolation and impervious surface.

21 B. The following development standards shall be applied in addition to all applicable  
22 requirements of K.C.C. 21A.24 to development proposals located within a wetland  
23 management area district overlay:

24 1. All subdivisions and short subdivisions in R-1 and RA zones shall have a  
25 maximum impervious surface area of 8 percent of the gross acreage of the plat. Distribution  
26 of the allowable impervious area among the platted lots shall be recorded on the face of the

1 plat. Impervious surface of existing roads need not be counted towards the allowable  
2 impervious area. This condition may be modified by the director for the minimum necessary  
3 to accommodate unusual site access conditions;

4 2. All subdivisions and short subdivisions shall be required to cluster away from  
5 wetlands or the axis of corridors along stream tributaries and identified swales connecting  
6 wetlands in order to minimize land disturbance and maximize distance from these sensitive  
7 features. At least 50 percent of the R-1 zoned portions of the site and at least 65% of the RA-  
8 zoned portions of the site shall be left in native vegetation, preferably forest, and placed in a  
9 permanent open space tract; and

10 3. Clearing and grading activity from October 1 through March 31 shall meet the  
11 provisions of K.C.C. 16.82.150.E.9 wherever not already applicable.


1 SECTION 6. Severability. If any provision of this ordinance or its application to  
2 any person or circumstance is held invalid, the remainder of the ordinance or the application  
3 of the provision to other persons or circumstances is not affected.

4 INTRODUCED AND READ for the first time this 6<sup>TH</sup> day of

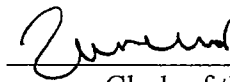
5 May, 1996.

6 PASSED by a vote of 12 to 0 this 21<sup>st</sup> day of July, 1997.

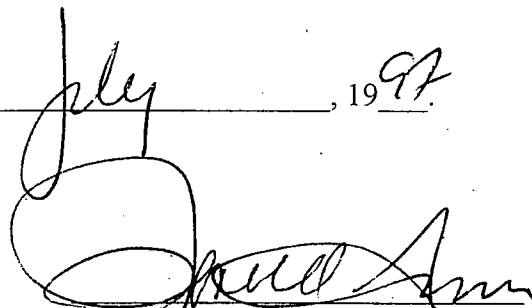
7 KING COUNTY COUNCIL  
8 KING COUNTY, WASHINGTON

9  
10   
11 Chair

12 ATTEST:

13  
14   
15 Clerk of the Council

16 APPROVED this 31 day of July, 1997.

17  
18   
19  
20 King County Executive

21 Attachments:

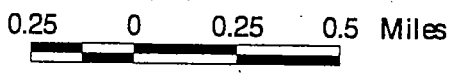
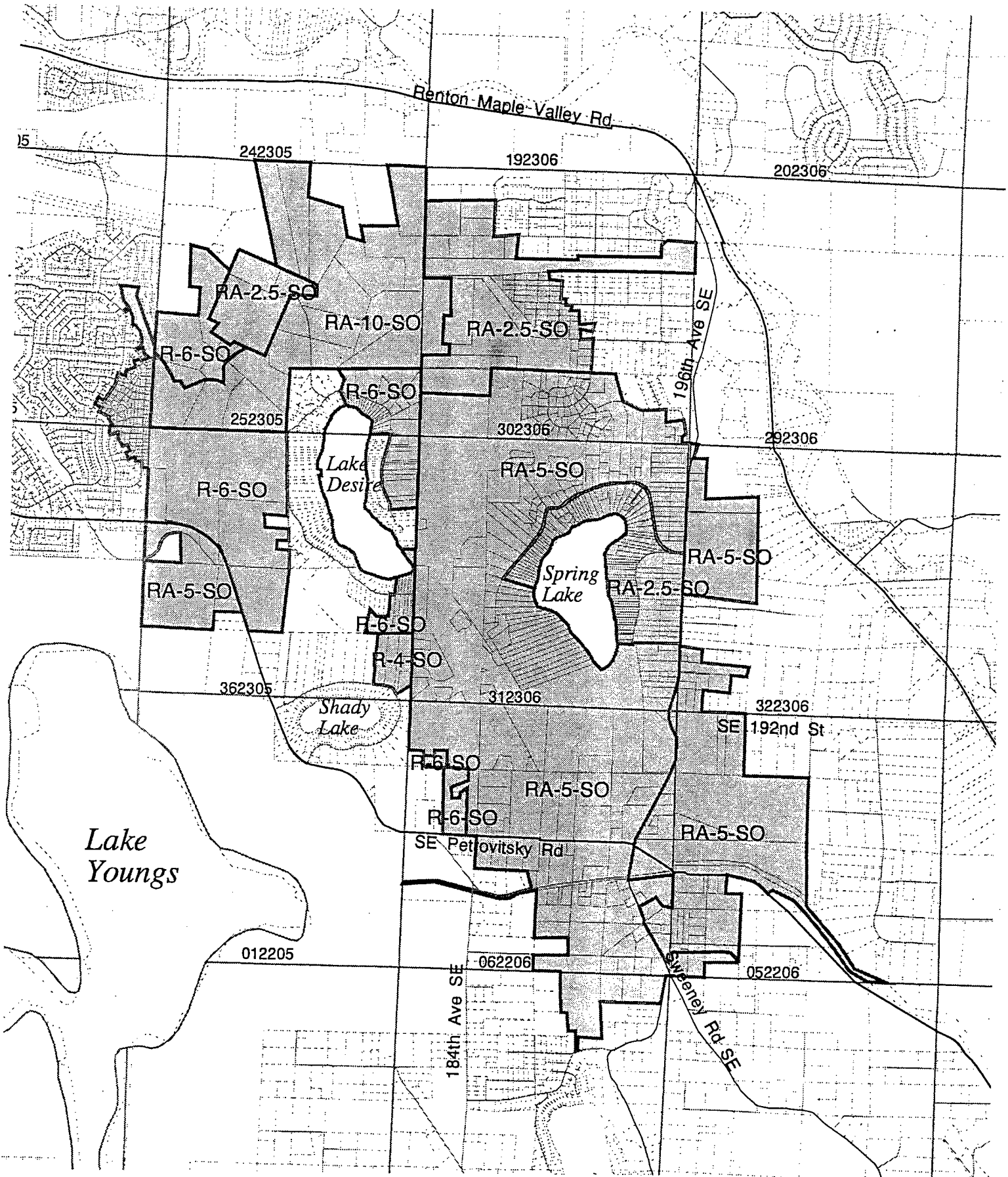
- 22 Appendix A. Special District Overlay Application Map
- 23 Attachment A. WMC-Proposed Lower Cedar River Basin and Nonpoint Pollution
- 24 Action Plan
- 25 Attachment B. Amendments to WMC-Proposed Lower Cedar River Basin and
- 26 Nonpoint Pollution Action Plan dated April 3, 1997



Appendix A to Ordinance \_\_\_\_\_

Special District Overlays (-SO) Application Maps

The attached map designates application of special district overlay zoning. The map designates application the Wetland Management Area Special District Overlay in Section 5 of Ordinance \_\_\_\_\_ by showing the affected area, the underlying zoning and the -SO designation. These maps do not reflect p-suffix designations or potential zoning which may apply within the overlay.



Overlay Area

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**Attachment B- Amendments to WMC-Proposed Lower Cedar  
River Basin and Nonpoint Pollution Action Plan  
April 3, 1997**

**I. Amend Page 4-70 to delete language and add new language as follows:**

~~((Level 0 R/D waives on-site R/D requirements subject to certain conditions and requirements if a project can discharge to a regional facility such as a regional R/D or tightline, or directly to a "Receiving Water" as defined in the *Design Manual*. All catchments in Ginger Creek are also recommended for waiver of R/D requirements (Level 0 R/D) based on the following considerations:~~

- ~~1. Potential additional future development in Ginger Creek subbasin is limited such that 2-, 5-, 10-, 25-, and 100-year, unmitigated peak flows will not increase more than 10%;~~
- ~~2. There are no significant flooding problems along the creek or anticipated conveyance problems from future flows;~~
- ~~3. There are no significant erosion and sedimentation problems currently or likely to occur in the future;~~
- ~~4. The creek supports no significant resource areas (SRAs); and~~
- ~~5. Currently, there is no significant R/D storage in the subbasin.~~

~~Based on these considerations, it is concluded that the risk of additional damage from unmitigated future flows in Ginger Creek is small and that the benefits of requiring Level 1 R/D do not justify the costs.))~~

Level 0 R/D drainage areas have been identified where new development may qualify for an R/D exemption. To qualify for this exemption, new development projects in Level-0 areas must demonstrate to the satisfaction of DDES that the exemption will not result in either the aggravation or creation of a significant drainage or water quality problem. If this can not be demonstrated, then level 1 R/D requirements shall be applied to the project. The following level 0 areas have been identified within the Cedar River Basin:

1. Cedar River valley floor areas of the within mainstem catchments 1-17 where direct discharge to a "Receiving Water" may be allowed as provided in the *King County Surface Water Design Manual*.
2. The upper portion (approximately 70 acres) of Summerfield subbasin where new development may be able to connect to an existing King County regional tightline which was designed with sufficient capacity to accommodate future development and non-erosively conduct flows from the plateau to the Cedar River, a "Receiving

Water” as designated in the *Design Manual*.

3. Ginger Creek subbasin. Less than 10% of this highly urbanized 634-acre subbasin is available for future development. Hydrologic analysis indicates that exemption of all future development from R/D requirements will not increase peak flows in the creek by more than 10% over current conditions. This potential increase in peak discharge is not expected to cause any significant flooding or erosion problems in the creek. The creek system does not support any significant resource areas (SRAs).

**II. Amend Page 4-73, Table 4-3 to add language as follows:**

**Table 4-3 Tributary R/D Requirements - Justification by Specific Catchment**

Subbasin and Catchment	Trib #	R/D Level	Justification	Comment
Mainstem Cedar River MS1 through MS15	0299	0*	Insignificant benefit of R/D. Cedar River is a designated receiving water.	Applies to valley floor lands with direct discharge to Cedar River. Otherwise Level 1 applies on valley floor. For plateaus see BW 20.
Mainstem Cedar River MS16, MS17	0299	0*	Insignificant benefit of R/D. Cedar River is a designated receiving water.	Level 0 only with direct discharge to Cedar River, otherwise, Level 1 required.
Ginger Creek B1, B2, B3	0300A	0*	Insignificant benefit of R/D. Limited future development. Less than 10% increase in future peak flows. No significant current R/D in place. No significant current problems. No SRAs present. Ample conveyance capacity.	Require downstream analysis to intersection of Lake Youngs Way SE and Royal Hills Drive SE. Small but nonzero risk of increased channel erosion.
Maplewood Creek MW1, MW2, MW3	0302 0303	2	Avoid future aggravation of significant current erosion problems. Protect recommended \$500,000 channel stabilization/habitat project.	Basin on urban side of UGB. Low projected % future forest cover.
Molasses Creek F1, F2, F3, F4	0304	2	Protect SRA stream habitat. Prevent aggravation of current stream stability problems.	Basin on urban side of UGB. Low projected % future forest cover.
Madsen Creek M1, M2, M3, M4, M5, M6	0305 0306	2	Protect large public investment in stream and sewer line stabilization and LSRA stream habitat and wetland.	History of catastrophic landsliding and sediment transport. Continued risk of future problems.
Orting Hill J1, J2, J3	0307	2	Prevent future public expense from aggravation of current stream stability problems.	History of small problems and drainage projects to stabilize channel and improve habitat. Urban side of UGB. Large future development potential.
Summerfield SU1-upper	0311	0*	Regional tightline serves upper half of subbasin.	Approximately upper 50% of subbasin can be served by existing tightline.
Summerfield SU1-lower	0311	1	SWDM peak flow standard. Adequate given reduction in creek flows resulting from tightline construction.	Tightline intercepts flow from upper half of subbasin.
Cedar Grove CG1, CG2, CG3, CG4, CG5	0308 0309 0310	1	SWDM peak flow standard. No significant problems or SRAs.	Some risk of future channel erosion.
Cedar Hills CH1, CH2, CH3-unmined	0316A	1	SWDM peak flow standard.	
Cedar Hills CH1, CH2, CH3-mined	0316A	4	Special design/Master Drainage Plan for all subdivisions regardless of size.	Master Drainage Plan process recommended for custom design to restore pre-mine water quality and quantity that has been radically degraded by mining.

**\*R/D exemption subject to DDES approval as per Basinwide Level 0 R/D standards.**

**III. Amend Page 4-87, after paragraph ending “and other outside agencies to reduce flood damage in the Cedar River basin.” to add a new sentence as follows:**

A fund should be created to be used as a local match to attract federal and state funding for flood hazard reduction measures.

**IV. Amend Page 4-87, after the sentence which reads “Similar programs are offered by FEMA and the State of Washington” to add a new sentence as follows:**

A local fund for flood hazard reduction programs would help to leverage federal and state grants.

**V. Amend Page 4-88, after “Estimated Cost: \$66,000 for staff support over 5 years” to add language as follows:**

\$2,000,000 for local flood disaster assistance fund

**VI. Amend Page 5-4, after paragraph ending “stewardship of the basin’s resources” and before heading “Sharing Implementation Roles” to add language as follows:**

The success of implementing the Lower Cedar River Basin and Nonpoint Pollution Action Plan is dependent upon the predictable funding of on-going programmatic activities which address critical flood control, water quality, and habitat protection in the basin. These programs, should be funded annually from the Surface Water Management fund, along with contributions from the Roads CIP, Parks CIP, Wastewater Treatment funds, and other relevant funding sources, including regional funding sources. The programs which address the highest priority needs for the basin include as follows:

- Open Space Acquisitions
- Small Scale Watershed Restoration and Enhancement
- Lake Washington Studies
- Basin Plan Monitoring and Evaluation
- Cedar River Council
- Basin Steward
- Forest Incentive Program
- Local matching funds for State and Federal Funding for Flood Hazard Reduction
- Mainstem Habitat Restoration and Enhancement
- Tributary 0338 (Rock Creek) Low Flow Restoration
- Aquifer Protection and Baseflow Maintenance

These programs should be funded at a base level of \$1.3 million annually, with additional contributions appropriated to enhance acquisition and restoration efforts.

**12809**

**VII. Amend Pages 5-14 through 5-20 , Table 5-1 to add language as follows:**

Table 5-1 Cedar River Basin Plan Recommendations

No.	Recommendation (In Priority Order)	Issues Addressed	Cost Estimate (K\$)	Potential SWM Partners (Contributors of Funds, Technical Expertise, Labor, Materials, Equipment, etc.) see back inside cover for key to acronyms
<b>CORE PLAN CAPITAL IMPROVEMENT PROJECT RECOMMENDATIONS</b>				
3108	Rainbow Bend Flood Damage Reduction/Floodplain Restoration	F/H	\$7,200	COE, FEMA, MIT, MSE, TU, WDFW
3102	Dorre Don Flood Damage Reduction/Floodplain Restoration	F/H	\$4,900	COE, FEMA, MIT, MSE, TU, WDFW
3140	Maxwell Road SE Flood Abatement and Taylor Creek Restoration	F/H	\$850	GMVAC, Immediate Neighborhood, KC Roads, MIT, MSE, TU, WDFW
3111	Elliot Bridge Lower Jones Road Flood Damage Reduction	F/H	\$8,700	COE, FEMA, KC Roads, MIT, Renton Public Works, WDFW
3120	Puget Colony Homes Drainage Improvements	FWQ	\$800	KC Roads, MIT, Renton PW, SKCDPH
3127	Retrofit Retention/Defention Ponds	WQ	\$500	Renton PW
3150	Wetland 14 Protection and Restoration	H	\$400	WCC, WFFA, Wetland Neighbors
3109	Ricardi Flood Damage Reduction/Floodplain Restoration	F/H	\$600	COE, FEMA, MIT, MSE, TU, WDFW
3130	Fairlane Woods Detention Pond Discharge Improvements (Alternate)	F/H	\$2	Fairlane Woods Neighborhood, MIT
3107	Byers Bend/Cedar Grove Road Flood Damage Reduction	F/H	\$12,400	COE, FEMA, MIT
3122	Maplewood Ravine Stabilization	F/H	\$150	Renton PW
3137	Lower Madsen Creek Sediment Pond Outlet Improvements	H/WQ	\$10	WDFW, MIT
3103	Dorre Don Court Flood Damage Reduction/Floodplain Restoration	F/H	\$800	COE, FEMA
3126	Tributary 0316A and Wetland 32 Restoration	H	\$35	DDES, KCD, MIT, MSE, WCC, WDFW, WFFA
3142	Trib 0321 Habitat Enhancement	H/F	\$30	GMVAC, Immediate Neighborhood, KCD, MIT, WCC, WFFA
3153	Lower Peterson Creek Habitat Restoration	H	\$50	MSE, MIT, WCC, WDFW, WFFA
3141	Taylor Creek Habitat Restoration	H	\$45	GMVAC, Immediate Neighborhood, MIT, MSE, WCC, WDFW, WFFA
3134	Molasses Creek LSRA Restoration	H	\$35	DDES(lead), KCPA, MIT, MSE, Person Gravel Pit, WDFW
<b>CORE PLAN CIP SUBTOTAL</b>			<b>= \$37,507</b>	(K\$)



Table 5-1 Cedar River Basin Plan Recommendations Continued

No.	Recommendation (In Priority Order)	Issues Addressed	Cost Estimate (K\$)	Potential SWM Partners (Contributors of Funds, Technical Expertise, Labor, Materials, Equipment, etc.) see back inside cover for key to acronyms
<b>NON CORE CAPITAL IMPROVEMENT PROJECT RECOMMENDATIONS</b>				
3136	Upper Madsen Creek Detention and Ravine Stabilization	H/F	\$1,000	Cedar River Water and Sewer District, Fairwood Golf & Country Club, Fairwood Homeowners Assn., KCWPC, MIT
3151	Lake Desire Flood Damage Reduction	F	\$35	LDCC, MIT
	<u>Lake Desire - flood control and water quality projects</u>	<u>F, WQ</u>	<u>\$125</u>	<u>LDCC, MIT</u>
3121	Trib 0303A Culvert Replacement and Rechanneling	F	\$150	KC Roads, MIT, Renton PW
3104	Lower Bain Road and Royal Arch Flood Damage Reduction/Floodplain Restoration	F/H	\$1,950	COE, FEMA, MIT
3112	Maplewood Flood Damage Reduction Alternative	F	\$1,500	COE, FEMA, MIT, Renton PW
3135	Wetland 16 Buffer Revegetation	H	\$5	MIT, WCC, WFFA, Wetland Neighbors
3106	Jan Road Flood Damage Reduction/Habitat Restoration	F/H	\$4,800	COE, FEMA, MIT, MSE, TU, WDFW
3110	Riverbend Mobile Home Park Revetment Modification	H/F	\$2,700	COE, FEMA, MIT, MSE, TU, WDFW
3124	Orting Hill Tributary (0307) Realignment	H	\$400	KC Roads, Renton PW, MIT
3101	Dorre Don Way SE Elevation (Orchard Grove)	F/H	\$200	COE, MIT
3123	Maplewood Golf Course Reach Improvements	F/H	\$350	MIT, Renton (Lead)
3152	Peterson Lake Outlet Channel Restoration	H	\$30	MIT, SWD, WCC, WFFA, WDFW
3133	Fairwood Park Division 11 Detention Pond Retrofit	F	\$250	Fairwood Home Owners Assn., MIT, SWD
3105	Getchman Levee Modifications	F/H	\$1,500	COE, FEMA, MIT
3131	Elevation of 140th Ave SE at Wetland 22	F	\$150	KC Roads (lead), MIT, Renton
3100	Arcadia/Noble Flood and Erosion Damage Reduction	F/H	\$1,200	COE, MIT
3113	Person Revetment Modification	H/F	\$800	COE, DDES (lead), FEMA, KCPA, MIT, Renton
3160	Wetland 64 Restoration	H	\$2	MIT, WCC, Wetland Neighborhood, WFFA
3161	Walsh Lake Diversion Ditch Habitat Improvements	H	\$50	MIT, WDFW
3125	Wetland 36 (Francis Lake) Restoration	H	\$5	DDES, WCC, WFFA Wetland Area Residents
<b>NON CORE CIP SUBTOTAL</b>			<b>\$17,202</b>	(K\$)
<b>FULL PLAN CIP TOTAL</b>			<b>\$54,709</b>	(K\$)

Table 5-1 Cedar River Basin Plan Recommendations Continued

No.	Recommendation	Issues Addressed	One Time Costs (K\$)	10 Year Administrative Costs (K\$)	Potential SWM Partners (Contributors of Funds, Technical Expertise, Labor, Materials, Equipment, etc.) see back inside cover for key to acronyms
<b>CORE PLAN PROGRAMMATIC RECOMMENDATIONS</b>					
BW 3	Wetland Management Areas	H/WQ	N/A	\$118	DDES (lead)
BW 4	Priorities for Open Space Acquisitions	H	\$13,700	\$85	CRWC, KGNRD
BW 5	Small Scale Watershed Restoration and Enhancement	H/WQ		\$0	COE, DDES, KCD, MIT, MSE, TU, WCC, WDFW, WFFA
BW 6	Aquatic Resource Mitigation Bank Sites	H	N/A	\$296	DDES (lead), CRWC
BW 8	Lake Washington Studies	H/WQ	\$500	\$66	WDFW (lead), Bellevue, COE, Kirkland, KCWPC, Mercer Island, MIT, SWD, Renton PW, TU, USF&WS, UW, WPC
BW 9	Improve Water Quality from Roads and Urban Areas	WQ	N/A	\$296	KC Roads, KCSWD, Renton PW, SKCDPH, WSDOT
BW 10	On-Site Septic System Pollution	WQ	N/A	\$332	SKCDPH (lead), LDCC, Renton PW, SLCC
BW 11	Livestock Keeping Practices	H/WQ	N/A	\$118	CES, GMVAC, KCD, KCSWD, MIT
BW 12	Water Quality Treatment Standards	WQ	N/A	\$0	DDES (lead), LDCC, Renton PW, SKCDPH,
BW 13	Basin Plan Evaluation	H/WQ/F	N/A	\$296	MIT, Renton PW, SWD, USGS, WDFW
BW 14	Water Resources Education and Public Involvement	F/H/WQ	N/A	\$212	Basin Interest Groups, CRWC, KCSWD, KCWPC, MIT, MSE, SCS, SWD, TU, USGS, WDFW, WCC, WFFA, WSDOE, Private Industry
BW 15	Cedar River Watershed Council	F/H/WQ	N/A	\$850	Basin Interest Groups, COE, KCD, KGNRD, MIT, MSE, Private Industry, Renton, SWD, TU, USF&WS, WDFW
BW 16	Basin Steward	F/H/WQ	N/A	\$850	COE, CRWC, Community Interest Groups, DDES, KCD, KGNRD, MIT, MSE, Renton, SWD, TU, USF&WS, WDFW, Private Industry
BW 17	Aquifer Protection and Baseflow Maintenance	H/WQ	N/A	\$100	Renton and King County (leads), Kent, WSDOE, MIT, USGS, WDFW, SWD
BW 20	Retention/Retention Standards	F/H	N/A	\$59	DDES (lead)
BW 23	Forest Incentive Program	H	N/A	\$2,124	KCDNR, WSDNR, DDES, WFFA
MS 1	Masonry Dam Operation Study	F/H	N/A	\$66	SWD (Lead), COE, MIT, Renton, USF&WS, WDFW
MS 2	Renton Reach Capacity 205 Study	F	N/A	\$66	Renton (lead), COE, CRWC, FEMA, MIT, SWD, WDFW, DDES
MS 3	Seek State and Federal Funding for Flood Hazard Reduction Measures Using Local Disaster Assistance Funds	F, WQ	\$2,000	\$66	COE, CRWC, FEMA, MIT, SWD, WDFW, DDES, Wash State Emergency Management
MS 4	Mainstem Habitat Restoration and Enhancement	H/F	\$10,000	\$332	COE, CRWC, FEMA, MIT, SWD, WDFW, DDES

Table 5-1 Cedar River Basin Plan Recommendations Continued

No.	Recommendation	Issues Addressed	One Time Costs (K\$)	10 Year Administrative Costs (K\$)	Potential SWM Partners (Contributors of Funds, Technical Expertise, Labor, Materials, Equipment, etc.) see back inside cover for key to acronyms
MS 6	Channel Migration Hazard Areas	F	N/A	\$37	DDES (lead), FEMA
MS 7	Flood Plain Mapping Analysis, Revision, and Distribution	F/H	\$250	\$73	COE, DDES, FEMA, Renton PW, SWD, USGS
MS 8	Flood Education	F	\$35	\$31	KCOEM, KC Roads, Renton PW, SWD
MS 10	Stormwater Quality in Industrial/Commercial Areas	WQ	N/A	\$0	Renton (lead), Area Businesses, WSDOE
MS 12	Debris Flow Protection For Mobile Home Park	F	N/A	\$37	Mobile Home Park Owner, KCPA
RC 1	Trib. 0338 Low Flow Restoration	H	N/A	\$66	KENT
	Groundwater flooding analysis- identify strategies to address both existing and potential groundwater flooding	F, WQ	\$500	N/A	KC Roads
RC 3	Rock Creek Community Involvement and Education	H/WQ	N/A	\$15	SWM (lead), Neighborhood, Tahoma School District
CORE PLAN PROGRAMMATIC ONE TIME COSTS =					\$26,985
CORE PLAN PROGRAMMATIC ADMINISTRATIVE COSTS =					\$6,594
CORE PLAN PROGRAMMATIC SUBTOTAL =					\$33,579

(K\$)

Table 5-1 Cedar River Basin Plan Recommendations Continued

No.	Recommendation	Issues Addressed	One Time Costs (K\$)	10 Year Administrative Costs (K\$)	Potential SWM Partners (Contributors of Funds, Technical Expertise, Labor, Materials, Equipment, etc.) see back inside cover for key to acronyms
<b>NON-CORE PROGRAMMATIC RECOMMENDATIONS</b>					
BW 1	Remove Qualifying Structures from Hazardous Areas	F/H/WQ	N/A	\$118	COE, CRWC, FEMA, DDES, MIT, SWD, WDFW
BW 2	Reduce Less Hazardous Flood Damage	F/H/WQ	N/A	\$118	COE, CRWC, FEMA, DDES, MIT, SWD, WDFW
BW 7	Artificial Salmonid Production Measures	H	N/A	\$118	COE, MIT, MSE, SWD, TU, USF&WS, WDFW
BW 18	Urban Stormwater Management Initiative	H	N/A	\$296	DDES, Renton (leads)
BW 20	Ravine Protection Standard	F/WQ/H	N/A	\$0	DDES (lead)
BW 21	Infiltration as a Stormwater Mitigation Treatment	F/WQ/H	N/A	\$0	DDES
BW 22	Erosion and Sedimentation Control Standards	F/H/WQ	N/A	\$0	DDES (lead)
MS 5	Modify Levees and Revetments	F/H/WQ	N/A	\$118	COE, CRWC, FEMA, DDES, MIT, SWD, WDFW
MS 9	NPDES Industrial Stormwater Permits for Boeing Commercial Airplane Group and Renton Municipal Airport	WQ/F	N/A	\$0	WSDOE, Renton PW
MS 11	Stormwater Treatment of I-405 and SR-169	WQ		\$0	WSDOT (lead), WSDOE, Renton PW
NT 1	Stoneway Concrete Company Stormwater Management			\$0	WSDOE
ST 1	Madsen Creek Water Quality	WQ	N/A	\$29	KCWPC, KC Roads, Fairwood Golf and Country Club, Fairwood Homeowners Association
PC 1	Lake Desire Outlet Channel	F	N/A	\$15	KC Roads, LDCC, WDFW, KCNRD, KCPCR
PC 2	Wetland 42 Reclassification	H	N/A	\$0	DDES (lead)
PC 3	Shadow Ridge Drainage Study	WQ/F	N/A	\$37	Neighborhood
RC 2	Wetland 92 Reclassification	H/WQ	N/A	\$0	DDES (lead)
<b>NON CORE PROGRAMMATIC ONE TIME COSTS = \$0</b>					
<b>NON CORE PROGRAMMATIC ADMINISTRATIVE COSTS = \$850 (K\$)</b>					
<b>NON CORE PROGRAMMATIC SUBTOTAL = \$850</b>					
<b>FULL PLAN PROGRAMMATIC ONE TIME COSTS = \$26,985</b>					
<b>FULL PLAN PROGRAMMATIC ADMINISTRATIVE COSTS = \$7,443 (K\$)</b>					
<b>FULL PLAN PROGRAMMATIC TOTAL = \$34,428</b>					
<b>COMBINED CIP AND PROGRAMMATIC COST SUMMARY</b>					

Table 5-1 Cedar River Basin Plan Recommendations Continued

No.	Recommendation	Issues Addressed	One Time Costs (K\$)	10 Year Administrative Costs (K\$)	Potential SWM Partners (Contributors of Funds, Technical Expertise, Labor, Materials, Equipment, etc.) see back inside cover for key to acronyms
FULL PLAN TOTAL COST = \$89,137					
CORE PLAN TOTAL COST= \$71,086					
NON CORE TOTAL COST = \$18,052					

(K\$)

12809

VIII. Amend A-32 to add language as follows:

APPENDIX E: SIGNIFICANT RESOURCE AREA MAP, DEFINITIONS, AND LIST

## DEFINITIONS

# 12809

**Regionally Significant Resource Areas (RSRAs)** contribute to the resource base of the entire southern Puget Sound region by virtue of exceptional species and habitat diversity and abundance, when compared to aquatic and terrestrial systems of similar size and structure elsewhere in the region. RSRAs may also support rare, threatened, or endangered species or communities.

Although typically found together, any of the following criteria are sufficient to recognize RSRAs in the watersheds of King County:

1. Watershed functions are not appreciably altered from predevelopment conditions, as measured by corridor integrity, hydrologic regime, sediment movement, and water quality, or
2. The diversity and abundance of aquatic or terrestrial habitats are of consistently high quality and are well dispersed throughout the system, or
3. Aquatic and terrestrial life, particularly salmonids, exhibit abundance and diversity consistent with undisturbed habitats and make a significant contribution to the regional resources of Puget Sound.

**Locally Significant Resource Areas (LSRAs)** also contribute to the resource base of the region, but at a lower level of both abundance and diversity compared to RSRAs. LSRAs are, however, significant within a particular basin, providing habitat that is important for plants and animals.

Because aquatic systems require adequate functioning of all elements to contribute significantly to system productivity, all of the following criteria are necessary to recognize LSRAs in the watersheds of King County:

1. Watershed functions have been altered from clearing and filling, but corridor integrity, hydrologic regime, sediment movement, and water quality are adequate for spawning and rearing of salmonids or for maintenance of other plant and animal species, **and**
2. The diversity and abundance of aquatic and riparian habitats are good but not exceptional; instability, damage and stream alterations are evident but confined to localized sites, **and**
3. Aquatic and terrestrial life, particularly salmonids, are supported at one or more species and life stages at population levels that may be low but are sustainable.

For a list of specific stream and wetland significant resource areas refer to section 7.8.

**SIGNIFICANT RESOURCE AREAS (SRAs)**

Areas identified as RSRA and LSRA in the Cedar River Basin below the Landsburg Diversion Dam, based on criteria outlined in section 7.5 of this chapter, are listed below. Cedar River mainstem habitat from the mouth to the Landsburg Dam (RM 0.0 to RM 21.7) contributes to the River's status as a fishery resource of regional significance. However, it is withheld from this list pending a designation by the WMC that reflects both its productivity and highly managed state.

**Tributary Reaches****RSRA**

Rock Creek(Tributary 0338): RM 0.0 to 2.5

Peterson Creek (Tributary 0328): RM 0.0 to 2.6 (part of RSRA Wetlands 28, 42)

Peterson Creek Tributary 0328B: RM 0.0 to 2.2 (part of RSRA Wetlands 14, 15, 28)

Taylor Creek Tributary 0321: RM 0.2 to 0.8



**LSRA**

Maplewood Creek (Tributary 0302): RM 0.5 to 1.1  
 Maplewood Creek Tributary 0303: 0.0 to 0.2  
 Molasses Creek (Tributary 0304): 0.2 to 0.8  
 Madsen Creek (Tributary 0305): 0.8 to 2.15  
 Madsen Creek Tributary 0306: 0.0 to 0.25  
 Tributary 0316: 0.0 to 0.3 (part of LSRA Wetland 105)  
 Tributary 0316A: 0.0 to 0.45  
 Taylor Creek (Tributary 0320): RM 1.2 to 3.2 (Note: Taylor Creek below Maxwell Road RM 0.4 is part of Cedar River RSRA Wetland-132)  
 Taylor Creek Tributary 0326: RM 0.0 to 0.7  
 Walsh Lake Diversion Ditch (Tributary 0441): 0.0 to 4.0

**Valley-Floor Stream Habitats****RSRA**

<sup>2</sup>RB Percolation Side Channel at RM 4.7 to 4.8  
 LB Percolation Side Channel at RM 4.6 to 4.8  
 LB Percolation Side Channel at RM 7.5 (part of RSRA Wetland 103)  
 RB Percolation Side Channel at RM 9.5  
 RB Percolation Side Channel at RM 10.1  
 LB Wall-base Tributary (McDaniel's Side Channel) at RM 11.5  
 RB percolation Side Channel at 13.4 (adjacent to RSRA Wetland 132)  
 LB Wall-base Tributary at RM 14.9  
 LB Percolation Side Channel at RM 15.9  
 LB High-flow Side Channel at RM 17.2 to 17.4  
 LB Percolation Side Channel at RM 17.7  
 LB Side Channel at RM 19.0  
 LB Percolation Side Channel at RM 19.7  
 RB Percolation Side Channel at RM 20.0 (adjacent to RSRA Wetland 70)

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<sup>2</sup>All right and left bank designations are made assuming the observer is facing downstream.

**LSRA**

- RB Wall-base Tributary at RM 12.5
- RB Side Channel at RM 15.7 to 15.9
- LB Wall-base Tributary at RM 16.2
- LB Wall-base Tributary at RM 18.3

**Wetlands**

**Class 1 Wetlands:** Consistent with past basin plans, many of the Class 1 rated (i.e., "unique and outstanding") wetlands, including all bogs and fens, are categorized as RSRA's. The rest of the Class 1 wetland systems are categorized as LSRA's due to past land-use impacts.

In accordance with the SRA criteria, fourteen of the basin's fifteen Class 1 wetlands are designated as SRA's. Wetland 25, a Class 1 system in the upper headwaters of Madsen Creek, has been subjected to complete buffer removal and partial filling. It also serves as an R/D facility. As a result of these alterations, it no longer meets the SRA criteria.

**Class 2 Wetlands:** A number of Class 2 wetlands are within stream corridor SRA's. As such, they are assigned the same SRA designations as the adjoining streams. Their protection is critical in maintaining fish and wildlife habitat, water quality, and stormflow attenuation in these systems.

**RSRA**

- Cedar River Mainstem: Wetlands 69, 70, 132, 37, 103, and \*6
- Peterson Creek Subbasin: Wetlands \*14<sup>B</sup>, \*15<sup>F</sup> (and Lake Desire), \*28<sup>F</sup> (encompasses Spring Lake), and 42 (encompasses Peterson Lake)
- Madsen Creek Subbasin: Wetland 16<sup>B\*</sup>
- Webster Lake Subbasin: Wetland \*33<sup>B</sup> (encompasses Webster Lake)
- Taylor Creek Subbasin: Wetland 132 (also adjoins Cedar River mainstem)
- Walsh Lake Subbasin: Walsh Lake
- Middle Cedar River Subbasins: Walsh Lake and surrounding uninventoried wetlands, and Wetland \*83<sup>B</sup>

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LSRA

Cedar River Mainstem: Wetlands 118 and 105

Molasses Creek Subbasin: Wetlands \*22, \*23, 2

Cedar Grove Subbasin: Wetland \*13

Webster Lake Subbasin: Wetland \*36 (encompasses Francis Lake)

Walsh Lake Subbasin: Wetland \*64

Taylor Creek Subbasin: Wetland 58

Rock Creek Subbasin: Wetland \*82 (Hidden Lake); Wetlands 91 (encompasses Lake No. 12), 92<sup>F</sup>, 93, and 94

Middle Cedar River Subbasin: Wetland \*77

\* = Class 1 wetland

<sup>B</sup> = Bog

<sup>F</sup> = Fen

