

Pend Oreille Mainstem

Idaho Water Quality Standards - Beneficial Uses

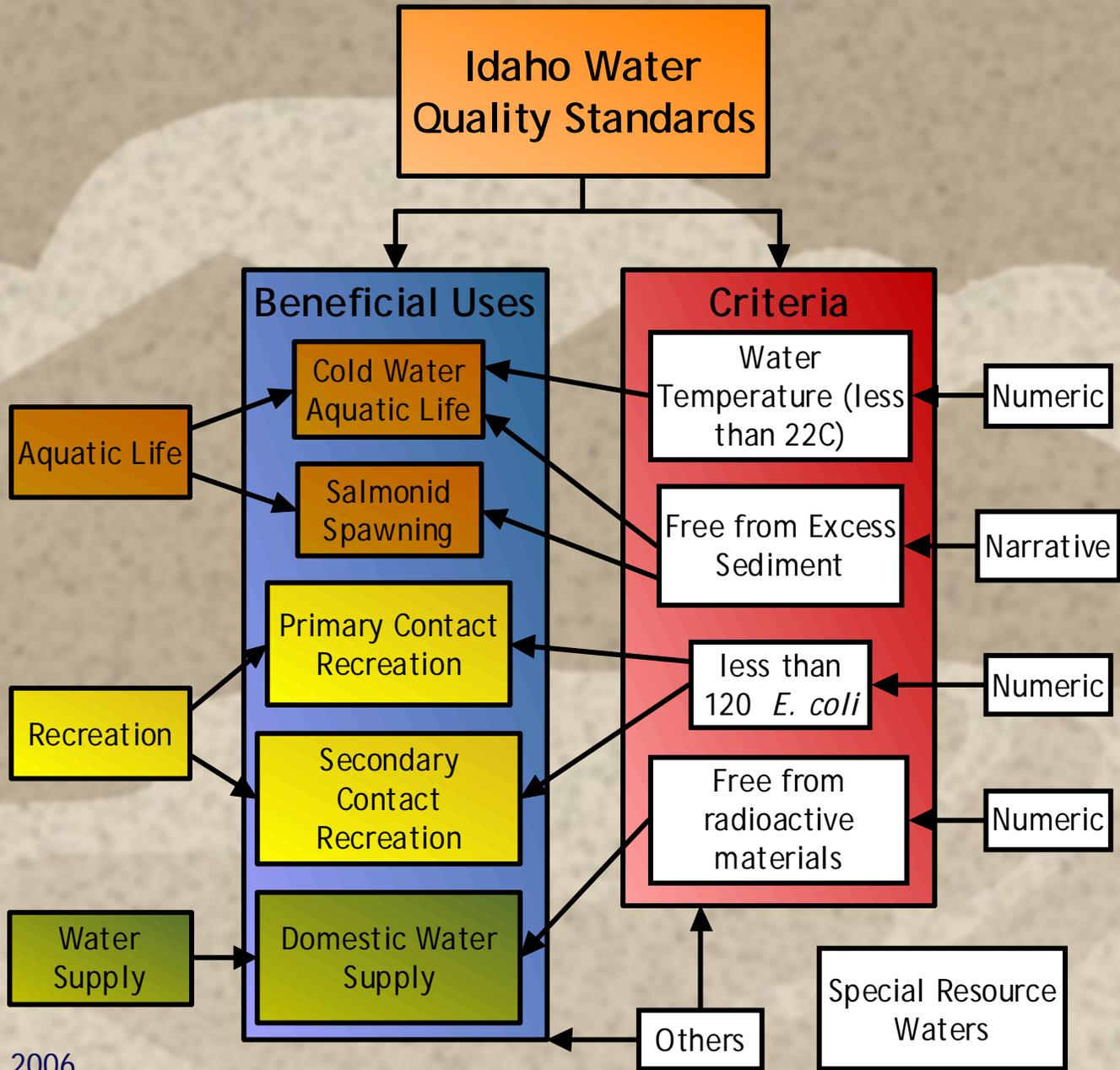


presented at Pend Oreille
River WAG Meeting
Thursday October 26

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Idaho Water Quality Standards

- US Clean Water Act
- Idaho DEQ Primacy
- Idaho Legislature Adopted
- EPA Approved
- <http://adm.idaho.gov/adminrules/rules/idapa58/0102.pdf>



Beneficial Uses

- Aquatic Life
 - Cold Water Aquatic Life
 - Salmonid Spawning
 - Seasonal Cold Water Aquatic Life
 - Warm Water Aquatic Life
 - Modified Aquatic Life
- Recreation
 - Primary Contact Recreation
 - Secondary Contact Recreation
- Water Supply
 - Domestic Water Supply
 - Agricultural Water Supply
 - Industrial Water Supply
- Wildlife Habitats
- Aesthetics
- Special Resource Waters

Designated/Existing/Presumed Uses

05. Pend Oreille Lake Subbasin. The Pend Oreille Lake Subbasin, HUC 17010214, is comprised of sixty-one (61) water body units.

Unit	Waters	Aquatic Life	Recreation	Other
P-1	Pend Oreille River - Priest River to Albeni Falls Dam	COLD	PCR	DWS
P-2	Pend Oreille River - Pend Oreille Lake to Priest River	COLD	PCR	DWS
P-3	Hoodoo Creek - source to mouth			
P-4	Kelso Lake and outlet	COLD SS	PCR	DWS
P-5	Granite Lake			
P-6	Beaver Lake			
P-7	Spirit Creek - source to mouth			
P-8	Blanchard Lake			
P-9	Spirit Lake	COLD SS	PCR	DWS SRW
P-10	Brickel Creek - Idaho/Washington border to mouth			
P-11	Jewell Lake			
P-12	Cocolalla Creek - Cocolalla Lake to mouth	COLD	PCR	DWS SRW
P-13	Cocolalla Lake	COLD	PCR	DWS SRW
P-14	Cocolalla Creek - source to Cocolalla Lake			
P-15	Fish Creek - source to mouth			
P-16	Fry Creek - source to mouth			

General Criteria

- **Narrative**
 - Hazardous
 - Toxic
 - Deleterious
 - Radioactive
 - Excess Nutrients
 - Oxygen Demanding Materials
 - Sediment
- **Numeric**
 - pH (6.5 - 9.0)
 - TDG (110% saturation)

Numeric Criteria for Toxic Substances

A		B Aquatic life		Human health for consumption of:				
(Number) Compound	^a CAS Number	^b CMC (µg/L)	^b CCC (µg/L)	Water & organisms (µg/L)	Organisms only (µg/L)			
		B1	B2	C1	C2			
1	Antimony	7440360		5.6	c	640	c	
2	Arsenic	7440382	340 e	150 e	50	d	50	d
3	Beryllium	7440417				h		h
4	Cadmium	7440439	1.3 i	0.6 i		h		h
5a	Chromium III	16065831	570 i	74 i		h		h
5b	Chromium VI	18540299	16 e	11 e		h		h
6	Copper	7440508	17 i	11 i				
7	Lead	7439921	65 i	2.5 i		h		h
8a	Mercury	7439976		g				
8b	Methylmercury	22967926					0.3 mg/kg	p
9	Nickel	7440020	470 i	52 i	610	c	4600	c
10	Selenium	7782492	20 f	5 f	170		4200	
11	Silver	7440224	3.4 i					
12	Thallium	7440280			0.24	c	0.47	c
13	Zinc	7440666	120 i	120 i	7400		26000	
14	Cyanide	57125	22 j	5.2 j	140	c	140	c
15	Asbestos	1332214			7,000,000 fibers/L	k		
16	2, 3, 7, 8-TCDD Dioxin	1746016			0.000000005	l	0.0000000051	l

Use Specific Criteria

- Cold Water Aquatic Life
 - Dissolved Oxygen > 6.0 mg/L
 - Max temp 22C(71.6F) or less
 - Avg temp 19C(66.2F) or less
 - Ammonia
- Salmonid Spawning
 - Intergravel Dissolved Oxygen
 - Max temp 13C(55.4F) or less
 - Avg temp 9C(48.2F) or less

Natural Conditions Provision

- Temperature only
- Pre-human disturbance condition

Pend Oreille River

- Designated
 - Cold Water Aquatic Life
 - Primary Contact Recreation
 - Domestic Water Supply
- Criteria
 - Free From - Nutrients/Sediment
 - Temperature
 - Dissolved Oxygen
 - Total Dissolved Gas
 - Toxics - Metals