

Pend Oreille Tributary Working Group

October 26, 2006



Agenda for Today

- Introduction to Working Group Process
 - Pend Oreille River Watershed Advisory Group
 - Tributary focus in Idaho
- IDEQ process for identifying impaired waters
 - How waters are identified as impaired
 - Beneficial Uses we are protecting
- Summary of Impaired Waters
 - Identifying “unknown” pollutants
- Sediment Model Methodology
- Next Steps

Water Quality Planning (“TMDL”) Overview

1. Idaho DEQ stream monitoring program (“BURP”) identifies a waterbody as not fully supporting beneficial uses based on state-wide indices
 - Fish
 - Habitat
 - Macroinvertebrates
2. The water body is listed as impaired in Idaho’s Integrated Report (formerly “303(d) list”)



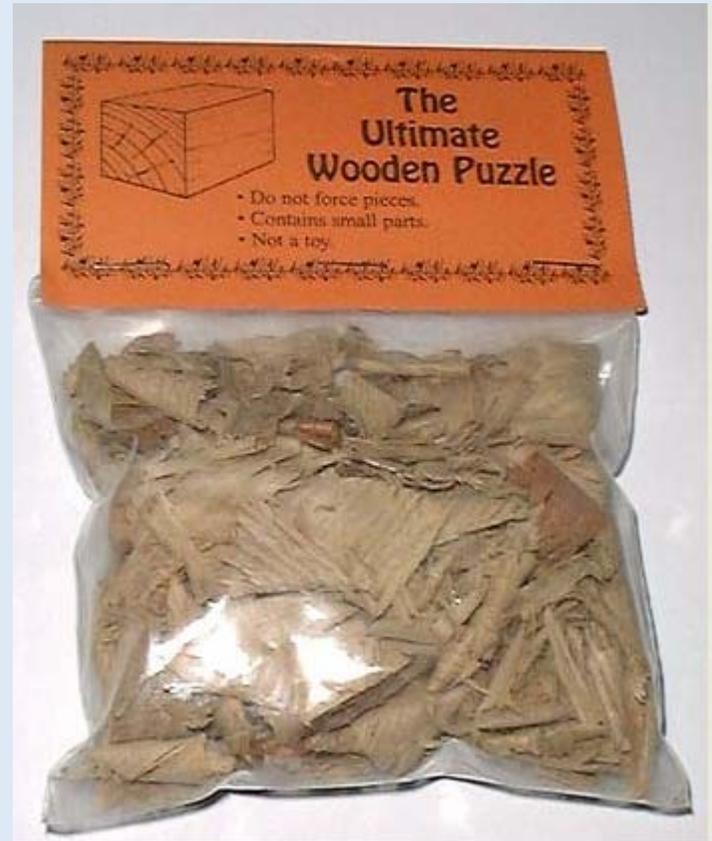
Water Quality Planning (“TMDL”) Overview

3. TMDLs are developed to reduce pollutant loads to impaired waters
4. Watershed Advisory Groups are formed to provide input, expertise and review of TMDLs



What is a TMDL?

- Total Maximum Daily Load
- Pollutant Budget
- Federal Clean Water Act Requirement for Impaired Streams
- Prepared by Idaho DEQ
- Approved by US EPA
- In Partnership with local Watershed Advisory Group
- Implementation Plan
- Implementation
 - Funding
 - Point Source vs. Non Point Source

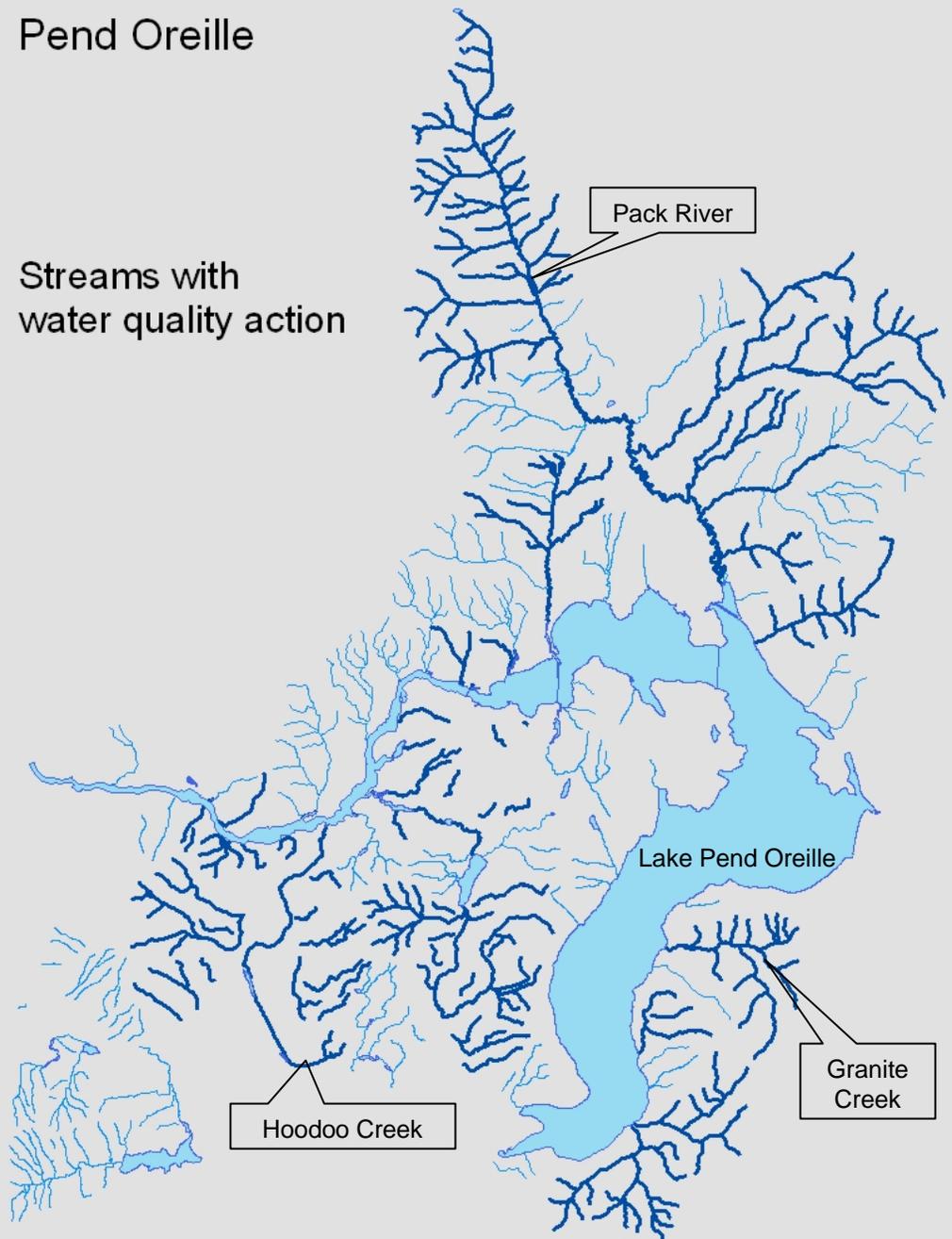


Waterbodies Identified as Impaired in the Pend Oreille

- 2001 sediment TMDLs completed in several tributaries
 - Will be reviewed in 2009
- Additional temperature, sediment and “unknown” impairments identified since 2001
 - TMDLs to be completed by the end of 2007

Pend Oreille

Streams with
water quality action



Pack River

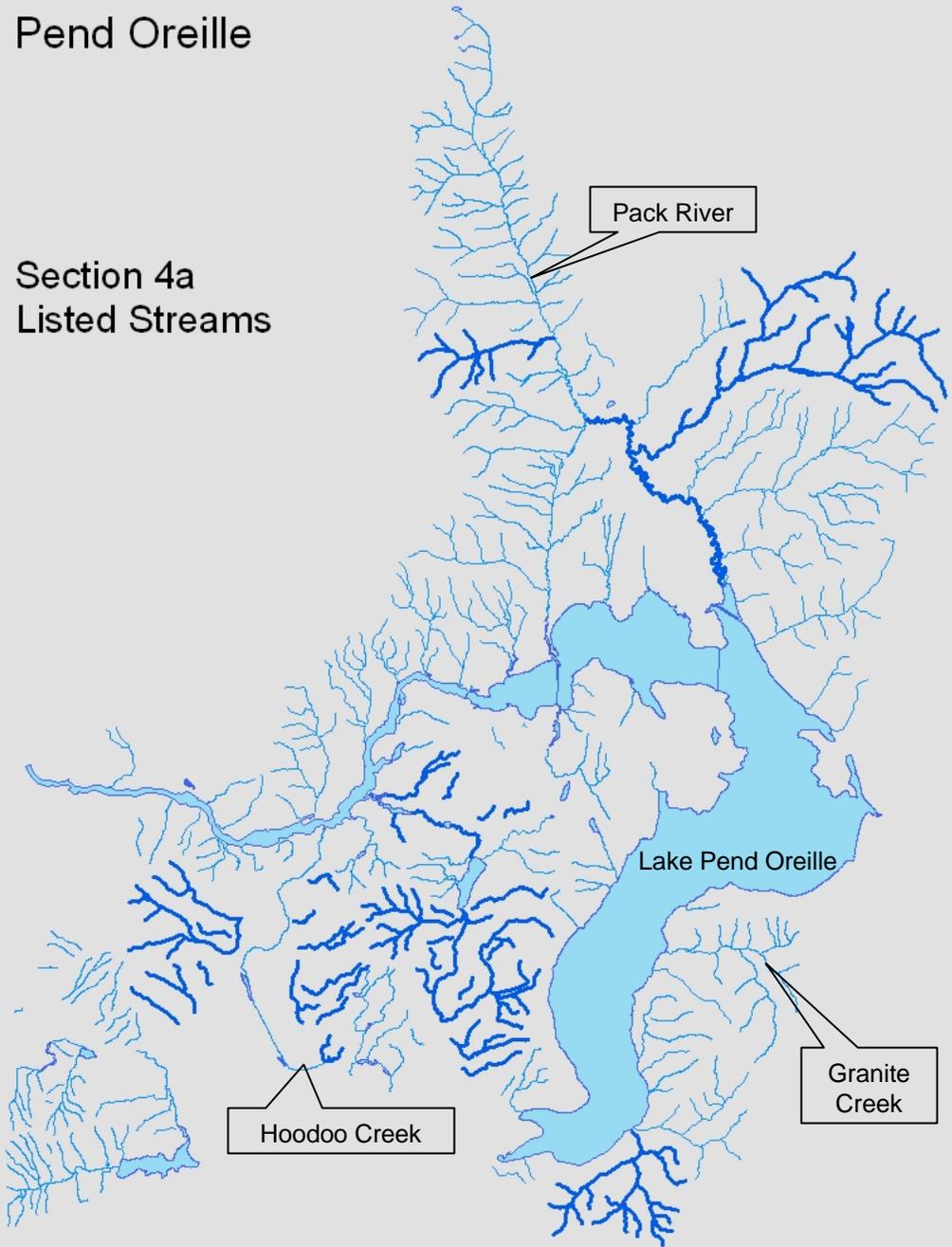
Lake Pend Oreille

Hoodoo Creek

Granite
Creek

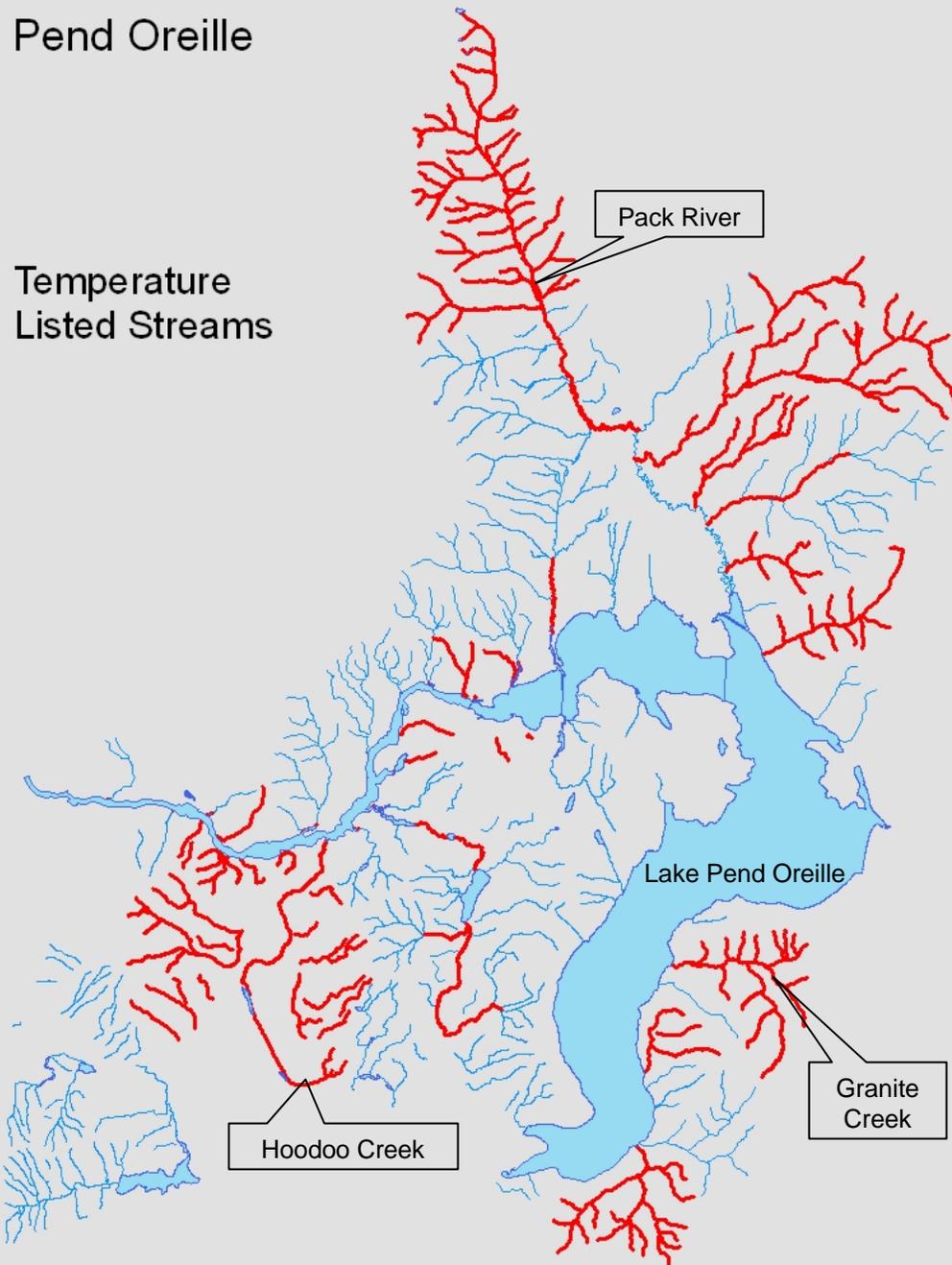
Pend Oreille

Section 4a Listed Streams



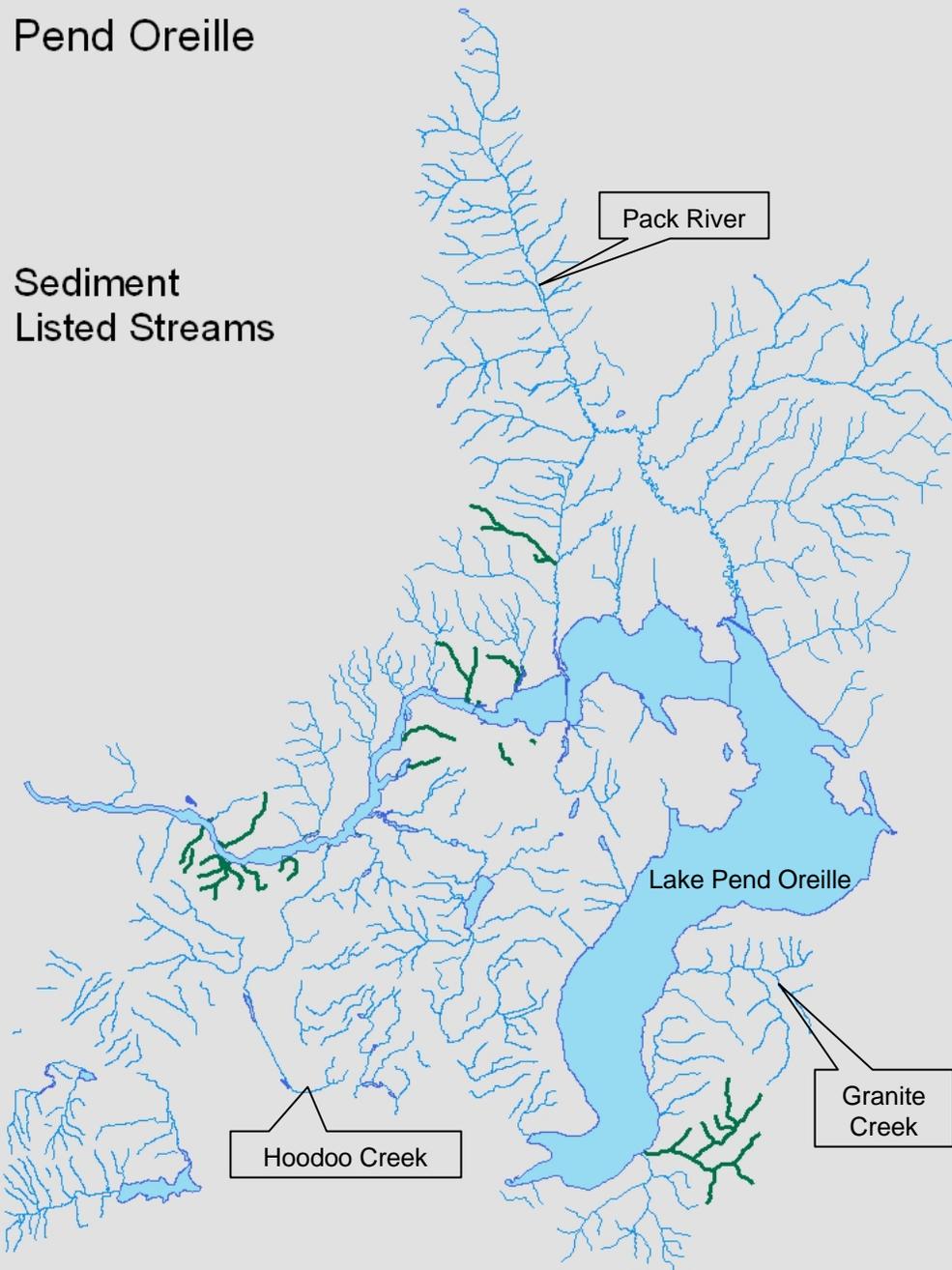
Pend Oreille

Temperature
Listed Streams



Pend Oreille

Sediment
Listed Streams



Pack River

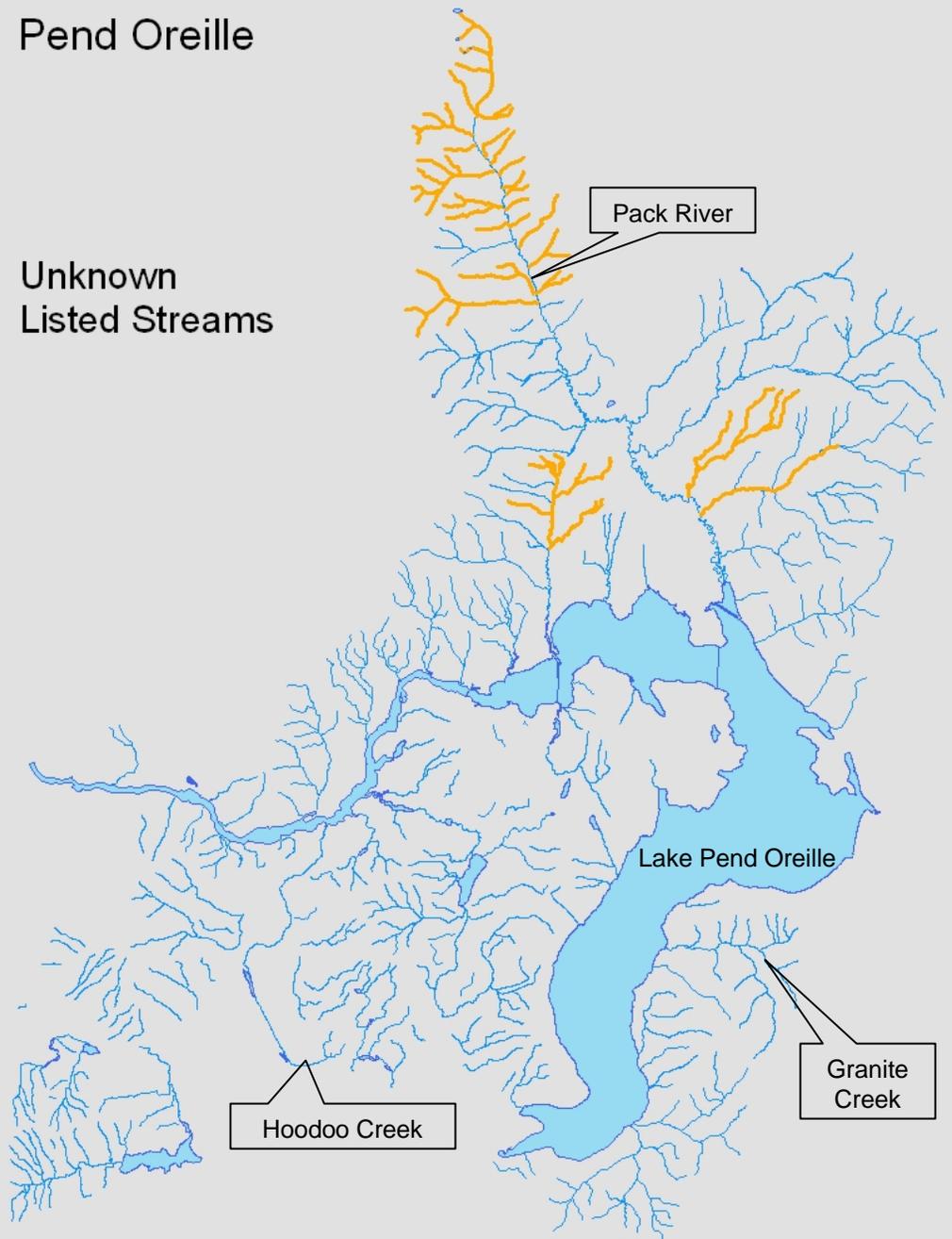
Hoodoo Creek

Granite
Creek

Lake Pend Oreille

Pend Oreille

Unknown
Listed Streams



Pack River

Lake Pend Oreille

Hoodoo Creek

Granite
Creek

Pend Oreille Tributaries

Idaho Water Quality Standards - Beneficial Uses

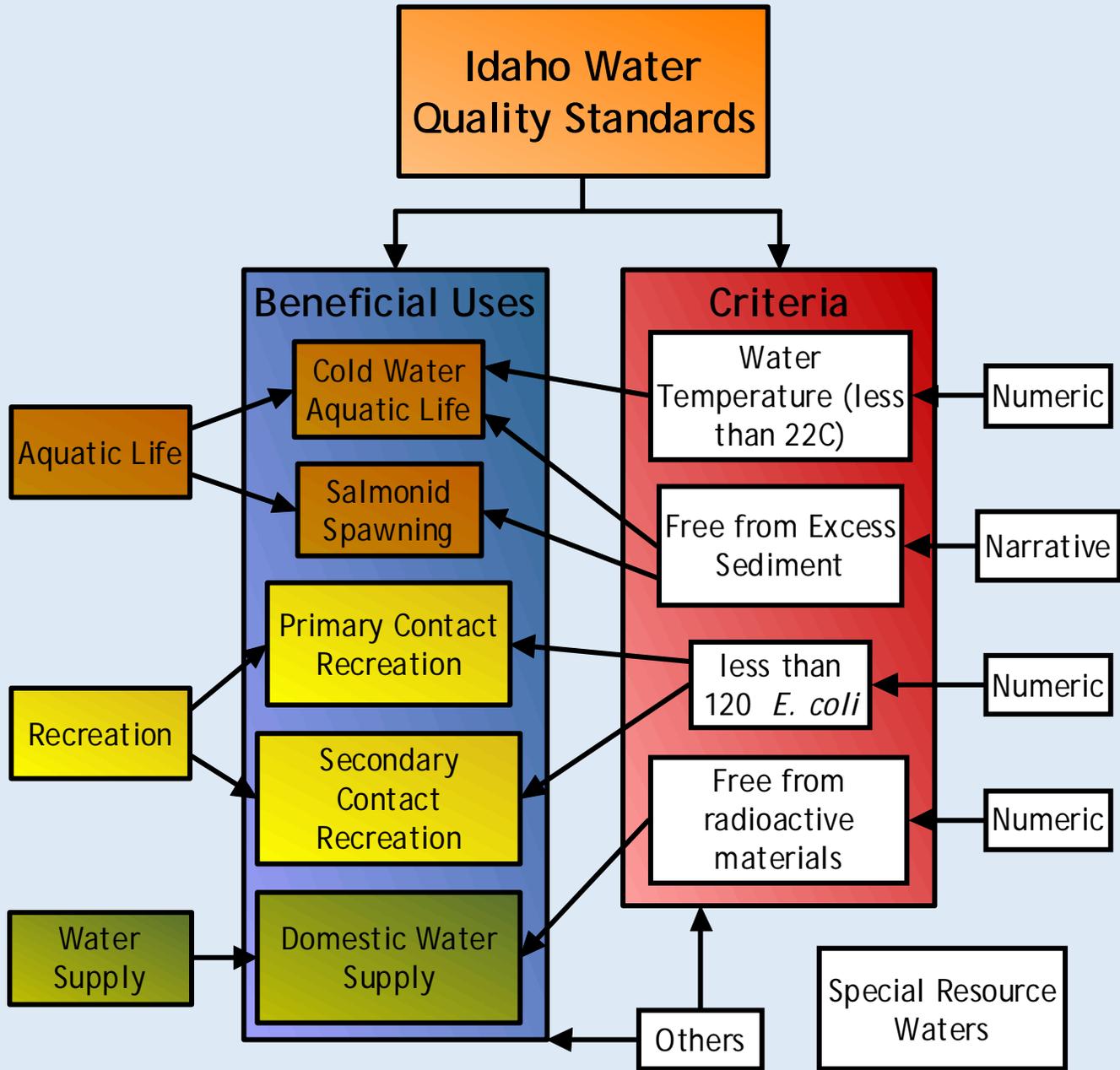


**presented at Tributary
Working Group Meeting
Thursday October 26**

Robert Steed

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 | 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

Break Time



Next Steps and Participation

- Identify Additional Participants
- Public Participation and Comment Opportunities
 - Next Meeting in January 2007
- Use the DEQ web-page to track meeting presentations and draft documents

Pend Oreille: One stop information Shop

Sign-up
for
Updates
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Pend Oreille River and Tributaries Watershed Advisory Group (WAG) - Microsoft Internet Explorer provided by DEQ

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Address http://www.deq.idaho.gov/about/regions/pend_oreille_river_tribs_wag/index.cfm Go Links >>

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Contact Us

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Watershed Coordinator
DEQ Coeur d'Alene
Regional Office
2110 Ironwood Parkway
Coeur d'Alene, ID 83814

**About DEQ's Coeur d'Alene Region:
Pend Oreille River and Tributaries
(to Pend Oreille Lake and River)
Watershed Advisory Group (WAG)**

Content on this page is provided for informational purposes while the Pend Oreille River and Tributaries Watershed Advisory Group (WAG) and DEQ work to develop a water quality improvement plan or "Total Maximum Daily Loads" (TMDLs) for water bodies in the watershed found to be not fully supporting beneficial uses.

Note: All of these documents are considered draft and are subject to change. The goal of providing these documents at WAG meetings and on this web page is to ensure citizens have the opportunity to provide input as the documents are developed.

Upcoming Meeting Date

| Pend Oreille Tributary Subgroup Meeting | Pend Oreille River TMDL Watershed Advisory Group Meeting |
|--|--|
| Thursday, October 26, 2006 9 a.m. - 12 noon Federal Building 1500 Highway 2 Sandpoint, ID > View Agenda (pdf 27 kb, 1 page) | Thursday, October 26, 2006 1 - 4 p.m. Federal Building 1500 Highway 2 Sandpoint, ID > View Agenda (pdf 13 kb, 1 page) |

Done Local intranet

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http://www.deq.idaho.gov/about/regions/pend_oreille_river_tribs_wag/index.cfm