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GLOSSARY

Acre-foot - the volume of water required to cover 1 acre of land (43,560 square feet) to a depth of 1 foot; this is equivalent to 325,851 gallons.

Adjudicated water right - a water right for which the defining parameters required by law have been determined and decreed by a court of law.

Alluvium - soil material, such as sand, silt and clay that has been deposited on land surface by water.

Alteration - any activity that obstructs, diminishes, destroys, alters, modifies, relocates, or changes the natural existing shape of the stream channel within or below the mean high water mark. It includes removal of material from the stream channel and emplacement of material or structures in or across the stream channel where the material or structure has the potential to affect flow in the channel as determined by the director.

Annual sustained yield - a term typically used in forestry which means the yield harvested in a given year is equivalent to the replacement during that same time period.

Anadromous - fish species, such as salmon, that are born in fresh water, spend most of their adult life in the ocean, and return to fresh water to spawn.

Appropriate or appropriation - to obtain the right to divert and use the public waters of the state of Idaho.

Beneficial use - a set of water uses which are considered a legitimate basis for a water right.

Best management practices (BMP) - the state-of-the-art practices that are efficient and effective, practical, economical, and environmentally sound to minimize soil erosion.

Board - Idaho Water Resource Board.

Bull trout - common name for *Salvelinus confluentus*, a char native to the Pacific Northwest and Canada.

Bypass reach - a reach of a stream with lowered water flow as the result of diversion and conveyance of water outside the channel. Typically water is returned to the channel after beneficial use is made of it.

Commercial water use - Commercial water is used by hotels, motels, restaurants, office buildings, retail sales, stores, educational institutions, churches, hospitals, and government and military facilities.

Comprehensive state water plan - the plan adopted by the board pursuant to Section 42-1734A of the Idaho Code, or a component of such plan developed for a particular water resource, waterway, or waterways and approved by the legislature.

Conservation - increasing the efficiency of energy or water use, production, or distribution.

Consumptive use - The portion of the annual volume of water diverted under a water right that is transpired by growing vegetation, evaporated from soils, converted to non-recoverable water vapor, incorporated into products, or otherwise does not return to the waters of the state. Consumptive use does not include any water that falls as precipitation directly on the place of use unless precipitation is captured, controlled, and used under an appurtenant water right [Idaho Code 42-202B(1)].

Confluence - the flowing together of two or more bodies of water.

Cubic feet per second - a unit of measure for the rate of discharge of water. One cubic foot per second is the rate of flow of a stream with a cross section of one square foot which is flowing at mean velocity of one foot per second. It is equal to 448.8 gallons per minute, or 1.98 acre-foot per day.

Domestic water uses - the use of water for homes, organization camps, public campgrounds, livestock, and for any other purposes in connection with these, including irrigation of up to one-half acre of land if the total use does not exceed 13,000 gallons per day. It includes other uses if the total diversion rate does not exceed 0.04 cubic feet per second and a diversion volume of 2,500 gallons per day [Idaho Code 42-111].

Ecosystem - a complex system composed of a community of flora and fauna, taking into account the chemical and physical environment with which the system is interrelated.

Endangered species - any species or subspecies which is in danger of extinction throughout all or a significant portion of its range, (other than a species of the Class Insecta determined by the Secretary of Interior to constitute a pest whose protection under the provisions of the Endangered Species Act would present an overwhelming and overriding risk to man).

Endangered Species Act - Section 7 of this federal statute, [16 U.S.C. §1536], requires that the government take no action which may jeopardize the continued existence of any endangered or threatened species or adversely modify its critical habitat. Where the federal government is involved in a water project (either by building it or issuing a permit or license), the Endangered Species Act may prohibit the government from proceeding if the loss of water will be harmful to such species.

Evapotranspiration - the loss of moisture by evaporation from land and water surfaces and transpiration from plants.

Focal habitat - In reference to bull trout - Critical areas supporting a mosaic of high quality habitats that sustain a diverse or unusually productive complement of native species (Batt, 1996).

Fishery enhancement structure - structures deliberately placed within the waterway, under proper authority, to improve fish habitat.

Floodplain - the land that may be submerged by flood waters. The plain built up by stream deposition. The 100-year floodplain identifies the

land in the floodplain subject to a 1 percent or greater chance of flooding in any given year.

Floodway - the channel of the stream, plus any adjacent floodplain areas, that must be kept free of encroachment so that the 100-year flood can be carried without substantial increases in flood heights.

Geothermal resource - the natural heat energy of the earth; the energy, in whatever form, which may be found in any position and at any depth below the surface of the earth present in, resulting from, or created by, or which may be extracted from such natural heat, and all minerals in solution or products obtained from the material medium of any geothermal resource. Ground water having a temperature of 212 degrees Fahrenheit or more in the bottom of a well [Idaho Code 42-4002].

Ground water - all water under the surface of the ground whatever may be the geological structure in which it is standing or moving [Idaho Code 42-230].

Habitat - the place or type of natural site where a plant or animal normally lives and grows.

Head - the elevational difference between the surfaces of water; usually upstream and downstream of a turbine or pump.

High water mark - the line that separates aquatic vegetation from terrestrial vegetation. The line which the water impresses on the soil by covering it for sufficient periods of time to deprive the soil of its terrestrial vegetation and destroy its value for commonly accepted agricultural purposes.

Hydropower project - any development which uses a flow of water as a source of electrical or mechanical power, or which regulates the flow of water for the purpose of generating electrical or mechanical power. A hydropower project development includes all powerhouses, dams, water conduits, transmission lines, water impoundments, roads, and other appurtenant works and structures [Idaho Code 42-1731(5)].

Idaho batholith - the body of intrusive igneous (volcanic) rock in central Idaho about 250 miles long and a maximum of 100 miles wide. It is approximately 100 million years old.

Idaho Code - the Idaho laws, especially those pertaining to water issues.

Idaho Water Resource Board - a constitutional water agency within the Idaho Department of Water Resources consisting of eight appointed members pursuant to the provisions of Article 15, Section 7 of the Idaho Constitution [Idaho Code 42-1732].

Industrial water use - water used to manufacture products. Places of industrial use include meat packing, dairies, cheese factories, other food processing enterprises, gravel washing, and ready-mix concrete operations.

Irrigation - water used for irrigation of cropland. Residential lawn and garden uses are not included.

Interim protected river - a waterway designated pursuant to Idaho Code 42-1734D or 42-1734-H as protected for up to two (2) years while a component of the comprehensive state water plan is prepared for that waterway.

Kilowatt (kw) - a unit of electric power equal to 1,000 watts, or about 1.34 horsepower.

Main stem - the main channel of a river. In this plan it is referring to the Payette River from Middle Fork confluence to its mouth.

Mean high water mark - a water level corresponding to the natural or ordinary high water mark. The line which the water impresses on the soil by covering it for sufficient periods of time to deprive the soil of its terrestrial vegetation and destroy its value for commonly accepted agricultural purposes [Idaho Code 42-3802(h)].

Megawatt (MW) - a unit of electrical power equal to 1,000,000 watts, or about 1,340 horsepower.

Minimum stream (instream) flow - water that is not diverted and used, but remains for wildlife habitat, recreation, navigation, and aesthetic beauty. The minimum flow of water in cubic feet per second of time, or minimum lake level in feet above mean sea level, required to protect fish and wildlife habitat, aquatic life, recreation, scenic beauty, navigation, transportation, or water quality of a waterway in the public interest [Idaho Code 42-1502(f)].

Municipal water use - water for residential, commercial, industrial, irrigation of parks and open space, and related purposes, excluding use of water from geothermal sources for heating, which a municipal provider is entitled or obliged to supply to all those users within a service area, including those located outside the boundaries of a municipality served by a municipal provider [Idaho Code 42-202B(3)].

Natural river - a designation made by the Idaho Water Resource Board in comprehensive state water plans. It defines a waterway which possesses outstanding fish and wildlife, recreation, geologic, or aesthetic values, which is free of substantial existing man-made impoundments, dams, or other structures, and of which the riparian areas are largely undeveloped although accessible in places by trails and roads [Idaho Code 42-1731(7)].

Placer or dredge mining - any dredge or other operation to recover minerals with the use of a dredge boat or sluice washing plant whether fed by bucket line or separate dragline or any other method. This could include, but is not limited to, suction dredges which are capable of moving more than 2 cubic yards per hour of earth material [Idaho Code 42-1731(4)].

Preliminary permit - a Federal Energy Regulatory Commission authorization granting priority right to file a license application and authorizing the permittee to conduct studies and analyses necessary to prepare a complete license application. A preliminary permit does not permit any construction.

Public interest (local) - with regards to water appropriations encompasses the affairs of the people of the area directly affected by the proposed use [Idaho Code 42-203A(5)].

Recreational dredge mining - operation of vacuum or suction dredges and power sluice equipment in which the nozzle is 5 inches or less, and the equipment rated at 15 horsepower or less, and capable of moving 2 cubic yards per hour or less.

Recreational river - a designation made by the Idaho Water Resource Board in comprehensive state water plans. It defines a waterway which possesses outstanding fish and wildlife, recreation, geologic or

aesthetic values, and which might include some man-made development within the waterway or within the riparian area of the waterway [Idaho Code 42-1731(9)].

Rental pool - a market for exchange of stored water operated by a local committee. The committee is appointed by the Board.

Riparian area - that area within 100 feet of the mean high water mark of a waterway [Idaho Code 42-1731(10)].

Riparian vegetation - vegetation that is associated with aquatic (streams, rivers, lakes) habitats.

River basin - total drainage or catchment area of a stream (i.e., the watershed).

River corridor - the area of varying width along both sides of a study river that may affect the management alternatives for that river.

River reach - a continuous section of a river from one point to another; i.e., a stretch of the river.

Scrub vegetation - vegetation dominated by shrubs, typically found at elevations below montane (mountain) vegetation.

State agency - any board, commission, department, or executive agency of the state of Idaho.

Stream bed - a natural water course of perceptible extent with definite bed and banks, which confines and conducts the water of a waterway which lies below and between the ordinary highwater mark on either side of that waterway [Idaho Code 42-1731 (12)].

Threatened species - a species, as determined by the U.S. Fish and Wildlife Service, that is likely to become endangered within the foreseeable future throughout all or a significant portion of their range.

Total Maximum Daily Load (TMDL) - is the sum of all pollutants in a waterway. Pollutant levels established through TMDL standards must be at or below the level established for the waterway to abide by water quality standards.

Unappropriated water - water which is not subject to diversion and use under prior existing water rights established by diversion and application to a beneficial use or by application, permit, or license on file or issued by the Director of Idaho Department of Water Resources [Idaho Code 42-1502(g)].

Vegetation types - any of several different plant communities that are found in the region of study.

Vested Rights - those rights that are fixed and not contingent upon any future actions, for example water right licenses and decrees or mining claims. A protected river designation cannot interfere with vested property rights existing on the date a waterway is designated. Non-vested rights include, but are not limited to, pending applications for appropriation of water.

Water right - the legal right, however acquired, to the use of water for beneficial purposes [Idaho Code 42-230(e)].

Water right application - an application filed by any person, association, or corporation with the Department of Water Resources, intending to acquire the right to the beneficial use of the waters of any natural streams, springs, or seepage waters, lakes or ground water, or other public waters of the state of Idaho [Idaho Code 42-202].

Waterway - a river, stream, creek, lake, or spring, or a portion thereof.

Water table - the highest part of the soil or underlying rock material that is wholly saturated with water. On some places an upper, or perched water table, may be separated from a lower one by a dry zone.

Wetlands - lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. Wetlands must have the following three attributes: (1) at least periodically, the land supports predominately hydrophytes; (2) the substrate is predominately undrained hydric soil; and (3) the substrate is on soil and is saturated with water or covered by shallow water at some time during the growing season of each year.