

Appendix A6. Project design standards for surveys, assessments, and monitoring activities.

General Requirements

1. Knowledgeable and trained personnel (*e.g.*, educational instructors, wildlife or fisheries biologist or hydrologist) must be involved in the design and implementation of surveys, assessments, and monitoring activities.
2. Survey, assessment, and monitoring activities requiring the physical capture and handling of federally listed species must only be conducted by qualified biologist(s) covered under a current 10(a)(1)(A) permit or other valid ESA coverage.

Techniques and Materials

1. Project personnel must stay out of a stream channel as much as possible and avoid disturbing spawning areas and redds when entering the stream.
2. In the event that federally listed fish species are accidentally captured during surveys, assessments, or monitoring activities, they must be released immediately at the capture location.
3. Macroinvertebrate or other instream sampling should be completed during the Oregon guidelines for the timing of in-water work to the extent possible.
4. Project personnel working in a stream must not cause a significant increase in the turbidity from the suspension of fine sediments.
5. Project personnel must avoid conducting activities within a stream channel when federally listed fish or other aquatic species are actively spawning.
6. Equipment and materials use during surveys, assessments, and monitoring activities must not be toxic to terrestrial or aquatic species.
7. Project personnel should coordinate with Federal, State, and local agencies and organizations to avoid the duplication of survey, assessment, and monitoring activities. Obtain all required permits from appropriate agencies before completing these activities.
8. Make survey, assessment, and monitoring data and results available to other interested parties, to the extent possible, by publishing and distributing reports or providing the information on an Internet web site.