Instructions for June 2006 Draft PRE-TREATMENT checklist FB - FISH PASSAGE IMPROVEMENT at BARRIERS

To be used for fish passage improvement anywhere other than a stream crossing but, includes grade control or backflooding weirs/structures associated with stream crossings.

- $\underline{\mathbf{Y}}$ = Yes, the question applies and the answer is yes, comment if needed. $\underline{\mathbf{P}}$ = Partially, the question cannot be answered definitively yes or no, comment suggested. \mathbf{N} = No, the question applies and the answer is no, comment if needed.
- $\underline{\mathbf{D}}$ = Don't know, the answer is unknown and cannot be found; preferable to blank. $\underline{\mathbf{A}}$ = Not applicable, the question or sub-question does not apply to the feature.

See Manual Part IX and VII for guidance. See below for 3-letter code key; see glossary for definitions.

THE FEATURE LOCATION MUST BE DESCRIBED USING THE PROTOCOL FOR DOCUMENTING THE LOCATION OF HABITAT RESTORATION FEATURES. IT IS ESSENTIAL THAT SOMEONE CONDUCTING POST-TREATMENT MONITORING BE ABLE TO RELOCATE THE SAME SECTION OF STREAM WHERE THE FOLLOWING DATA WERE COLLECTED.

CHANNEL questions should be answered regardless of goals.

- 1. Refers to aggradation at the barrier and caused by the barrier, not at a stream or reach level.
- 2. Refers to scour, incision and/or head-cutting resulting from the barrier, not at a stream or reach level.
- 3. Refers to other localized undesirable channel conditions such as braiding, flow obstructions, grade controls, undesirable lateral migration, narrowing, straightening, widening, etc. near the barrier, not at a stream or reach level.
- 4. A specific goal stated in the contract, proposal or verbalized by project proponent or contract manager.

BANK questions should be answered regardless of goals.

- 5. Stream bank erosion or apparent instability caused or affected by the barrier.
 - a. Location of erosion or instability relative to the proposed structure or barrier modification. Record location as upstream of, downstream of and/or within the barrier AND left and/or right bank determined looking downstream (e.g. DNS LBK, RBK $\,$ UPS LBK $\,$ WIN LBK). Use comment space if needed.
 - b. Determine using visual evidence and knowledge of land use and erosion processes.
- 6. A specific goal stated in the contract, proposal or verbalized by project proponent or contract manager.

FISH PASSAGE questions 7 & 8 pertain to adult fish. FISH PASSAGE questions 9 & 10 pertain to juvenile fish.

- 7/9. A specific goal stated in the contract, proposal or verbalized by project proponent or contract manager.
 - a. List species, by code from Manual Appendix E, for which passage improvement is aimed.
- 8/10. Answer based on quantitative data or visual evidence using best professional judgment.
 - a. Barrier category that exists pre-treatment, enter only one. See DFG Restoration Manual page IX-1.
 - b. Barrier category the treatment intends to achieve, enter only one. See DFG Restoration Manual page IX-1.

Barrier Category Definitions: Temporal – Impassable to all fish at certain flow conditions. Partial – Impassable to some fish species, during part or all life stages at all flows. Total – Impassable to all fish at all flows.

- c. Conditions that are blocking fish passage, enter all that apply. See Manual page IX-3.
- d. List conditions to be addressed by the fish passage project, enter all that apply.

Movement of watershed PRODUCTS questions should be answered regardless of goals.

- 11. Refers to a current accumulation or a chronic occurrence of debris, substrate, or water behind the barrier.
 - a. Enter all that apply debris (e.g. LDA), substrate (e.g. grade control) or water (e.g. at a dam or tide gate).
- 12. A specific goal stated in the contract, proposal or verbalized by project proponent or contract manager.

Code definitions							
BAR	Lack of stabilizing	EMG	Emergent	NRP	No resting pool	UND	Undercut or
	vegetation, bare		groundwater	OTH	Other		Undermined
CHIN	Chinook salmon	FJH	Fish jump height	PAR	Partial barrier	UPS	Upstream
CNR	Concentrated runoff	GRZ	Grazing/grazing	RBK	Right bank	USG	Unstable
COHO	Coho salmon		animal	SH	Steelhead trout		geology/soils
CT	Cutthroat trout	HYD	Hydrologic processes	SUB	Substrate	WTD	Water depth
DBR	Debris	LBK	Left bank	TEM	Temporal barrier	WTR	Water
DNS	Downstream	NON	None	TOT	Total barrier	WTV	Water velocity