APPENDIX A: CMER PROJECTS, OBJECTIVES, AND TARGETS

Rule Group/ Program / CMER Projects	Status	Task Type	CWA	Direct Measure of FFR Goals: Fish	Amphib	WQ	Direct or Indirect Measurement[1] of Objectives & Targets (D = direct; I = indirect; L = literature; ? = probable if implemented in future): In-Str Temp	Rip/ Wet Shade	Rip/ Wet Stand[2]	In-Str/ Wet LWD	Rip/ Wet Litter	In-Str/ Wet Hab[3]	Strm Bnk ELZ[4]	Mass Wast-ing	Rd Sed Runoff	Peak Flow	Wet-land	Fish Passage	Other Important Issues: Wind-throw	Ground-water	Intermit Flow[5]
Stream Typing Rule Group																					
Stream Typing Program (Rule Tool)																					
Last Fish/Habitat Prediction Model Development	complete	RIT		yes	---	---	---	---	---	---	---	D	---	---	---	---	---	---	---	---	---
Annual/Seasonal Variability	complete	R&D		yes	---	---	---	---	---	---	---	D	---	---	---	---	---	---	---	---	---
Last Fish/Habitat Prediction Model Field Performance	complete	RIT		yes	---	---	---	---	---	---	---	D	---	---	---	---	---	---	---	---	---
Default Physicals Criteria Assessment	in prog	RIT		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fish/Habitat Detection Using Enviornmental DNA (eDNA)	complete	---		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Evaluation of physical features that define fish habitat in forested landscapes (PHB)	in prog	RIT		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Anadromous Fish Floor	in prog	RIT																			
Stream Typing Program (Extensive Status and Trends Monitoring)																					
Recoverable/Restorable Fish Habitat	delayed	EXT		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Type N Riparian Prescriptions Rule Group																					
Type N Delineation Program (Rule Tool)	complete																				
Perennial Initiation Point Survey: Pilot Study	complete	RIT		---	---	---	---	---	---	---	---	D	---	---	---	---	---	---	---	---	D
Sensitive Site Program (Rule Tool)																					
SAA Sensitive Sites Identification Methods	complete	RIT		---	yes	---	---	---	---	---	---	D	---	---	---	---	---	---	---	---	---
SAA Sensitive Sites Characterization	complete	RIT		---	yes	---	---	---	---	---	---	D	---	---	---	---	---	---	---	---	D
Type N Riparian Effectiveness Program																					
Westside Type N Buffer Characteristics, Integrity, and Function (BCIF)	complete	EFF		---	---	---	I	D	D	D	---	I	D	---	---	---	---	---	D	---	---
Type N Exp Buffer Treatment Feasibility Study	complete	R&D	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Type N Exp Buffer Treatment in Hard Rock Lithologies- Phase 1	complete	EFF	1	yes	yes	yes	D	D	D	D	D	D	D	---	D	D	---	---	D	---	D
Type N Exp Buffer Treatment in Hard Rock Lithologies (Extended Monitoring: Amphibian Demographics/Channel Metrics)- Phase 2	complete	EFF	1	yes	yes	yes	D	D	D	D	D	D	D	---	D	D	---	---	D	---	D
Type N Exp Buffer Treatment in Hard Rock Lithologies (Extended Monitoring: Temperature, Sediment, Vegetation, Litterfall)- Phase 2	complete	EFF	1	yes	yes	yes	D	D	D	D	D	D	D	---	D	D	---	---	D	---	D
Type N Exp Buffer Treatment in Hard Rock Lithologies (Extended Monitoring: Amphibian Demographics and responses of interest)- Phase 3	complete	EFF	1	---	yes	---	?	?	?	?	---	?	---	---	---	?	---	---	?	---	---
Type N Exp Buffer Study in Soft Rock Lithologies	complete	EFF	x	---	---	yes	D?	D?	D?	?	?	?	D?	---	D?	D?	---	---	D?	I	I?
Windthrow Frequency, Distribution, and Effects	delayed	EFF		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	D?	---	---
Eastside Type N Buffer Characteristics, Integrity, and Function (BCIF)	delayed	EFF		---	---	yes	D?	D?	D?	D?	---	---	D?	---	---	---	---	---	D?	---	---
Eastside Type N Forest Hydrology	complete	RIT	1	---	yes	yes	I	---	I	---	---	---	---	---	---	---	---	---	---	I	D
Eastside Type N Riparian Effectiveness	in prog	EFF	x	---	yes	yes	D	D	D	D?	D	D	D	---	D?	D?	---	---	D	---	D
Eastside Ns Effectiveness	delayed	EFF		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Literature Review and Synthesis Related to the Salvage of Fire Damaged Timber	complete	---		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sensitive Sites and Amphibian Project	delayed	RIT		---	yes	---	?	?	---	D	---	D	---	---	---	---	---	---	---	D	?
Slash in Type N Streams	delayed	EFF		---	yes	---	?	D	I	D	D	D	---	---	---	---	---	---	I	---	---
Type N Amphibian Response Program (Effectiveness)																					
SAA Detection/Relative Abundance Methodology	complete	R&D		---	yes	---	---	---	---	---	---	D	---	---	---	---	---	---	---	---	D
Type N Exp Buffer Treatment in Hard Rock Lithologies[6]	complete	EFF		yes	yes	yes	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tailed Frog Literature Review	complete	R&D		---	yes	---	L	L	L	L	L	L	L	L	L	L	---	---	L	---	L
Tailed Frog Meta-Analysis	complete	R&D		---	yes	---	---	---	---	---	---	I	---	---	---	---	---	---	---	---	I
Tailed Frogs and Parent Geology	delayed	R&D		---	yes	---	---	---	---	---	---	D?	?	?	?	---	---	---	?	---	?
Dunn's Salamander	complete	R&D		---	yes	---	---	D	D	---	D	---	---	---	---	---	---	---	---	---	---
Buffer Integrity - Shade Effectiveness	complete	EFF	x	---	yes	yes	D	D	---	---	---	D	---	---	---	---	---	---	I	---	---
Amphibian Recovery	complete	EFF		---	yes	yes	D	D	D	D	---	D	I	---	---	---	---	---	D	---	I
Water Temperature and Amphibian use in Type Np Waters with Discontinuous Surface Flow	delayed	R&D	x	---	yes	---	?	?	---	?	---	D?	---	---	---	?	---	---	---	---	D?
Van Dyke's Salamander Literature Review	complete	R&D		---	yes	---	?	?	?	?	?	?	?	?	?	?	?	?	---	---	D?
Van Dyke's Salamander	add	R&D		---	yes	---	?	?	?	?	?	?	?	?	?	?	?	?	---	---	D?
Eastside Amphibian Evaluation	delayed	R&D		---	yes	---	?	?	?	?	?	?	?	?	?	?	?	?	---	---	D?
Type N Hard Rock Phase III Amphibian Demographics	in prog	R&D																			
Type N Hard Rock Phase III Amphibian Demographics	add	R&D																			
Extensive Riparian Status and Trends Monitoring Program																					
Extensive Riparian Status and Trends Monitoring- Temperature, Type F/N Westside	in prog	EXT		---	---	yes	D	D	I	D	---	D	D	---	---	---	---	---	---	---	---
Extensive Riparian Status and Trends Monitoring- Temperature, Type F/N Eastside	in prog	EXT		---	---	yes	D	D	I	D	---	D	D	---	---	---	---	---	---	---	---
Extensive Riparian Status and Trends Monitoring- Vegetation, Type F/N Westside and Eastside	in prog	EXT		---	---	---	?	?	?	---	?	---	---	---	---	---	---	---	?	---	---
Riparian Characteristics and Shade Response Study	in prog	INT		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Wood Recruitment Volume and Source Distances from Riparian Buffers	---	---		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Rule Group/ Program / CMER Projects	Status	Task Type	Direct Measure of FFR Goals: Fish	Amphib	WQ	Direct or Indirect Measurement[1] of Objectives & Targets (D = direct; I = indirect; L = literature; ? = probable if implemented in future): In-Str Temp	Rip/ Wet Shade	Rip/ Wet Stand[2]	In-Str/ Wet LWD	Rip/ Wet Litter	In-Str/ Wet Hab[3]	Strm Bnk ELZ[4]	Mass Wast-ing	Rd Sed Runoff	Peak Flow	Wet-land	Fish Passage	Other Important Issues: Wind-throw	Ground-water	Intermit Flow[5]
Type F Riparian Prescriptions Rule Group																				
DFC Validation Program (Rule Tool)																				
DFC Target Validation	complete	RIT	---	---	---	---	---	D	---	---	---	---	---	---	---	---	---	---	---	---
~~DFC Plot Width Standardization (scoping)~~	withdrawn	R&D	---	---	---	---	---	?	?	---	?	---	---	---	---	---	---	---	---	---
FPA Desktop Analysis (includes field analysis)	complete	RIT	---	---	---	---	---	D	---	---	---	---	---	---	---	---	---	---	---	---
DFC Site Class Map Validation (scoping)	delayed	RIT	---	---	---	---	---	?	---	---	---	---	---	---	---	---	---	---	---	---
DFC Trajectory Model Validation	delayed	R&D	---	---	---	---	---	?	?	---	---	---	---	---	---	---	---	---	---	---
DFC Aquatic Habitat	delayed	R&D	---	---	---	---	---	?	?	---	?	---	---	---	---	---	---	---	---	---
Pathways of Riparian Stand Development to Maturity	delayed	R&D	---	---	---	---	---	?	---	---	---	---	---	---	---	---	---	---	---	---
Red Alder Growth and Yield Model (coop. contribution)	complete	R&D	---	---	---	---	---	D	---	---	---	---	---	---	---	---	---	---	---	---
Eastside Type F Riparian Rule Tool Program																				
Eastside Disturbance Regime Literature Review	complete	R&D	---	---	---	---	L	L	L	L	---	---	L	---	---	---	---	---	L	---	---
Eastside LWD Literature Review	complete	R&D	---	---	---	---	L	L	L	L	L	---	---	---	---	---	---	---	L	---	---
Eastside Temperature Nomograph	incomplete	RIT	---	---	yes	D	D	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Eastern WA Riparian Assessment (EWRAP)	complete	R&D	1	---	---	---	D	D	D	D	D	---	---	---	---	---	---	---	D	---	---
Eastside Modeling Evaluation (EMEP)	complete	RIT		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Eastside Timber Habitat Evaluation (ETHEP)	in prog	RIT		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Eastside Type F Channel Wood Characterization	delayed	R&D		---	---	---	---	D	I	D	I	D	---	---	---	---	---	---	D	---	---
Bull Trout Habitat Identification Program (Rule Tool)																				
Bull Trout Presence/Absence Protocols	complete	RIT		yes	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bull Trout Habitat Prediction Models	complete	RIT		yes	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Yakima River Radiotelemetry	complete	R&D		yes	---	---	---	---	---	---	---	D	---	---	---	---	---	---	---	---	---
Westside Type F Riparian Effectiveness Program																				
Westside Type F Riparian Prescription Monitoring	in prog	EFF	x	---	---	---	?	?	?	?	---	?	?	---	---	---	---	---	?	---	---
Westside Type F Experimental Buffer Treatment	delayed	EFF	x	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Type F Performance Target Validation	delayed	EFF		---	---	---	---	---	?	?	---	?	?	---	---	---	---	---	---	---	---
Eastside Type F Riparian Effectiveness Program																				
BTO Temperature (Eastside Riparian Shade/Temperature)	complete	EFF	x	---	---	yes	D	D	D	---	---	---	---	---	---	---	---	---	---	---	D
Solar Radiation/Effective Shade	complete	EFF	x	---	---	---	I	D	---	---	---	---	---	---	---	---	---	---	---	---	---
Eastside Type F Riparian Effectiveness Monitoring (BTO add-on)	in prog	EFF	1	---	---	---	---	---	D	D	---	I	D	---	---	---	---	---	D	---	---
~~Groundwater Conceptual Model~~	withdrawn	R&D		---	---	---	I	---	---	---	---	---	---	---	---	---	---	---	---	I	---
Hardwood Conversion Program (Effectiveness)																				
Riparian Hardwood Conversion	complete	EFF	1	---	---	---	---	---	D	---	---	---	---	---	---	---	---	---	?	---	---
Riparian Hardwood Conversion - Temperature Component	complete	EFF	x	---	---	yes	D	D	---	---	---	I	---	---	---	---	---	---	---	---	---
~~Annotated Bibliography: Riparian Hardwood Conversion~~	withdrawn	R&D		---	---	---	?	---	L	---	---	---	---	---	---	---	---	---	---	---	---
WDOE Water Temperature Modeling	complete	R&D		---	---	---	I	I	I	---	---	---	---	---	---	---	---	---	---	---	---
Intensive Monitoring/Cumulative Effects Program: No projects yet identified.																					

				Direct Measure of FFR Goals: Fish	Amphib	WQ	Direct or Indirect Measurement[1] of Objectives & Targets (D = direct; I = indirect; L = literature; ? = probable if implemented in future): In-Str Temp	Rip/ Wet Shade	Rip/ Wet Stand[2]	In-Str/ Wet LWD	Rip/ Wet Litter	In-Str/ Wet Hab[3]	Strm Bnk ELZ[4]	Mass Wast-ing	Rd Sed Runoff	Peak Flow	Wet-land	Fish Passage	Other Important Issues: Wind-throw	Ground-water	Intermit Flow[5]

Rule Group/ Program	CMER Projects	Status	Task Type		Direct Measure of FFR Goals: Fish	Amphib	WQ	Direct or Indirect Measurement[1] of Objectives & Targets (D = direct; I = indirect; L = literature; ? = probable if implemented in future): In-Str Temp	Rip/ Wet Shade	Rip/ Wet Stand[2]	In-Str/ Wet LWD	Rip/ Wet Litter	In-Str/ Wet Hab[3]	Strm Bnk ELZ[4]	Mass Wast-ing	Rd Sed Runoff	Peak Flow	Wet-land	Fish Passage	Other Important Issues: Wind-throw	Ground-water	Intermit Flow[5]
Channel Migration Zone Rule Group																						
CMZ Delineation Program																						
	~~CMZ Screen and Aerial Photo Catalog and CMZ Boundary Identification Criteria~~	withdrawn	RIT		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Consistency and Accuracy of CMZ Boundary Delineations	delayed	RIT		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
CMZ Validation Program: No projects yet identified.																						
Unstable Slopes Rule Group				x																		
Unstable Landform Identification Program (Rule Tool)																						
	Shallow Rapid Landslide Screen for GIS (Westside)	complete	RIT		---	---	---	---	---	---	---	---	---	---	I	---	---	---	---	---	---	---
	Shallow Rapid Landslide Screen for GIS (Eastside)	delayed	RIT		---	---	---	---	---	---	---	---	---	---	I?	---	---	---	---	---	---	---
	Technical Guidelines for Geotechnical Reports	complete	RIT		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Regional Unstable Landforms Identification (Deep-Seated Screen)	complete	RIT		---	---	---	---	---	---	---	---	---	---	I	---	---	---	---	---	---	---
	Landform Hazard Classification System and Mapping Protocols	complete	R&D		---	---	---	---	---	---	---	---	---	---	I	---	---	---	---	---	---	---
	Landslide Hazard Zonation (priority 1 and 2 watersheds)	complete	RIT		---	---	---	---	---	---	---	---	---	---	D	---	---	---	---	---	---	---
	~~Landslide Hazard Zonation (priority 3 watersheds)~~	withdrawn	RIT		---	---	---	---	---	---	---	---	---	---	D	---	---	---	---	---	---	---
Glacial Deep-Seated Landslides Program (Rule Tool)																						
	Model Evapo-Transpiration in Deep-Seated Landslide Recharge Areas	complete	RIT		---	---	---	---	---	---	---	---	---	I	I	---	---	---	---	---	I	---
	Evapo-Transpiration Model Refinement	delayed	R&D		---	---	---	---	---	---	---	---	---	---	I?	---	---	---	---	---	---	---
	Glacial Deep-Seated Landslides and Groundwater Recharge Literature Synthesis	complete	RIT		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	L	---
	Groundwater Recharge Modeling	delayed	R&D		---	---	---	---	---	---	---	---	---	---	I?	---	---	---	---	---	D	---
	Glacial Deep-Seated Landslide Map	in prog	RIT		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Landslide Classification	in prog	RIT		---	---	---	---	---	---	---	---	---	---	I?	---	---	---	---	---	I	---
	Board Manual Revision	complete	RIT		---	---	---	---	---	---	---	---	---	---	I?	---	---	---	---	---	I	---
Mass Wasting Effectiveness Monitoring Program																						
	Unstable Slopes Criteria	in prog	---	x	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Non-Glacial Deep-Seated Landslides and Groundwater Recharge Literature Synthesis	complete	---		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Deep-Seated Landslide Research Strategy	in prog	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Mass Wasting Effectiveness Monitoring (aka Post-Mortem)	complete	EFF	2	---	---	---	---	---	---	D	---	I	I	D	D	I	---	---	---	---	---
	~~Mass Wasting Landscape-Scale Extensive Monitoring~~	withdrawn	EFF		---	---	---	---	---	---	---	---	---	---	D?	---	---	---	---	---	---	---
	~~Mass Wasting Buffer Integrity and Windthrow Assessment~~	withdrawn	EFF		---	---	---	---	---	---	---	---	---	---	D?	---	---	---	---	---	D?	---
Mass Wasting Validation Program (Intensive): No projects yet identified.																						
Roads Rule Group																						
Road Sub-Basin-Scale Effectiveness Monitoring Program																						
	Road Sub-Basin-Scale Effectiveness Monitoring (Phase 1)	complete	EFF	x	---	---	I	---	---	---	---	---	---	---	---	D	I	---	I	---	---	---
	Road Surface Erosion Model Update	complete	RIT		---	---	---	---	---	---	---	---	---	---	---	D	---	---	---	---	---	---
	Road Surface Erosion Model Validation/Refinement	delayed	R&D		---	---	---	---	---	---	---	---	---	---	---	D?	---	---	---	---	---	---
Road Prescription-Scale Effectiveness Monitoring Program				x																		
	Effectiveness of RMAP Fixes	delayed	EFF		---	---	---	---	---	---	---	---	---	---	---	D?	D?	---	D?	---	---	---
	Road Prescription-Scale Effectiveness Monitoring	in prog	EFF		---	---	---	---	---	---	---	---	---	---	D	D	I	---	---	---	---	---
Roads Validation Program and Cumulative Sediment Effects																						
	Intensive Watershed-Scale Monitoring to Assess Cumulative Effects	delayed	INT	x	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fish Passage Rule Group																						
~~Fish Passage Effectiveness/Validation Monitoring Program: No projects yet identified~~.		withdrawn																				
Extensive Fish Passage Monitoring Program																						
	Extensive Fish Passage Trends Monitoring (Design)	complete	EXT		---	---	---	---	---	---	---	---	---	---	---	---	---	---	I	---	---	---
Pesticides Rule Group																						
Forest Chemicals Program (Effectiveness and Validation): No projects yet identified.																						
Wetlands Protection Rule Group																						
Forested Wetlands Effectiveness Program																						
	Forested Wetlands Effectiveness	in prog	EFF	x	---	---	yes	D?	D	D	D?	---	D	---	---	---	---	D	---	---	D?	D?
	Forest Practices and Wetlands Systematic Literature Review	complete	R&D	x	yes	yes	yes	L	L	L	L	L	L	---	L	L	L	L	L	L	L	L
	Forested Wetlands Literature Review and Workshop	complete	R&D	x	---	---	---	L	L	L	L	L	L	---	L	L	L	L	L	L	L	L
	Statewide Forested Wetlands Regeneration Pilot	complete	EFF	x	---	---	---	---	---	D	---	---	---	---	---	---	---	D	---	---	---	---
Wetland Management Zone Effectiveness Monitoring Program																						
	Wetland Management Zone Effectiveness Monitoring	scoping	EFF	x	yes	yes	yes	D	D	D	D	D	D	D	D	D	I?	D	D	D	I?	D?
Forest Roads and Wetlands Program																						
	Roads Effects on Wetlands	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	~~Wetlands Mitigation Effectiveness (Pilot Study)~~	withdrawn	EFF		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	~~Wetlands Mitigation Effectiveness (Phase 1)~~	withdrawn	EFF		---	---	yes	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	~~Wetlands Mitigation Effectiveness (Phase 2)~~	withdrawn	EFF		yes	yes	yes	D?	D?	D?	?	?	I?	---	D?	D?	I?	D?	I?	D?	I?	D?
Wetland Intensive Monitoring Program																						
	Wetlands Intensive Monitoring	delayed	INT	x	yes	yes	yes	D?	D?	D?	D?	?	D?	?	D?	D?	D?	D?	D?	D?	D?	?
Wetland Mapping Program																						
	Wetland Intrinsic Potential Tool (WIP)	complete	RIT	x	---	---	I?	---	---	---	---	---	D?	---	---	---	---	D?	---	---	---	I?
Silvicultural Chemicals and Wetlands Program: No projects yet identified.																						
Wildlife Rule Group																						
Wildlife Program																						
	RMZ Resample	complete	EFF		---	yes	---	---	---	D	---	---	---	---	---	---	---	---	---	---	---	---
Intensive Watershed-Scale Monitoring to Assess Cumulative Effects: No projects yet identified.				x																		

NOTES

Status:

In Progress: Site selection, data collection, analysis, or report writing (in prog)

Complete: Final CMER approved report (complete)

Scoping: Currently being scoped (scoping)

Delayed: Planned, but not yet scoped; or delayed due to funding, prioritization, etc. (delayed)

Add: Projects that are under consideration for adding to the work plan

Withdrawn: Project is not currently a priority for CMER.

Task Type:

Monitoring Type: Effectiveness (EFF); Intensive/Cumulative Effects (INT); Extensive Status and Trends (EXT)

Rule and Project Tools: Rule Implementation Tools (RIT) needed to correctly implement the rules; includes accurately delineating prescription boundaries

Research & Development (R&D) includes literature reviews and development of research protocols

[1] Direct or Indirect Measurement: Direct = actual field measurement; Indirect = modeling/correlations, etc.

[2] Riparian/Wetland Stand Objectives/Targets include windthrow, potential LWD recruitment, DFC basal area targets, and other stand conditions, etc.

[3] In-Stream/Wetland Habitat Objectives/Targets include fish and amphibian habitat ID, substrate, flow, etc.

[4] Stream Bank/Equipment Limitation Zone (ELZ) includes bank erosion, delivery of sediment from the ELZ

[5] "Intermit Flow" refers to spatially intermittent flow below the uppermost point of perennial flow in Type Np streams.

[6] Type N Exp Buffer Treatment in Hard Rock Lithologies: This project is repeated in two programs (Type N Effectiveness and Amphibian Response); however, the designation of functions is shown only once in order to not overdesignate projects that address those functions. The functions are designated under the Type N Effectiveness Program.

CWA:

Clean Water Act related project.