

Anticipated Fieldwork Schedule^{1,2} - February 2012 -

Resource Area	Study Name	Anticipated Field Schedule for Month	Running List of Variances to FERC-Approved Studies	Technical Memorandum Due Date
Geology & Soils	Channel Morphology Upstream of Englebright Reservoir (1.1)	2/7: Data collection in Yuba River above New Colgate Powerhouse 2/8: Data collection in Oregon Creek and Middle Yuba River 2/9: Site selection below New Bullards Bar Dam 2/20 – 2/22: Measurements on Our House Dam and Oregon Creek reaches, if flows remain low	--	September 30, 2012
	Channel Morphology Downstream of Englebright Dam (1.2)	2/23 – 2/29: LWM measurements YCWA, in conformance with FERC's 9/30/11 Study Determination and 12/8/11 Study Modification, modified the study plan and on 1/16/12 distributed it to Forest Service, USFWS, NMFS, SWRCB and CDFG for 30-day review (i.e., written comments due by COB on 2/15). YCWA will file the modified study plan, including evidence of consultation, with FERC by March 8, 2012.	--	September 30, 2012 (date subject to revision based on modification of study plan)
Water Resources	Hydrologic Alteration (2.1)	No fieldwork scheduled this month. YCWA modified the study plan in conformance with FERC's 12/28/11 Resolution of Study Disputes Determination.	--	September 30, 2012
	Water Balance/Operations Model (2.2)	No fieldwork scheduled this month.	--	September 30, 2012
	Water Quality (2.3)	No fieldwork scheduled this month. YCWA modified the study plan in conformance with FERC's September 30, 2011 Study Determination.	--	September 30, 2013
	Bioaccumulation (2.4)	Fieldwork complete.	Variance # 1 ¹	September 30, 2012
	Water Temperature Monitoring (2.5)	2/1 – 12/29: Collect water temperature profiles in New Bullards Bar and Englebright reservoirs and check (e.g., monitor and download) continuous water temperature recorders. YCWA modified the study plan in conformance with FERC's 12/28/11 Resolution of Study Disputes Determination.	--	February 28, 2013
	Water Temperature Model (2.6)	No fieldwork scheduled this month.	--	September 30, 2012

¹ This fieldwork schedule is YCWA's best estimate at this time and is subject to modification by YCWA or HDR|DTA without prior notice. Any Relicensing Participant interested in observing fieldwork listed above should contact Jim Lynch at least one week in advance of the scheduled fieldwork at (916) 564-4214 Extension 581 or james.lynch@hdrinc.com, who will coordinate with the participant to the extent possible.

² There are no flow modifications scheduled this month to accommodate studies.

Anticipated Fieldwork Schedule (continued)

Resource Area	Study Name	Anticipated Field Schedule for Month	Running List of Variances to FERC-Approved Studies	Technical Memorandum Due Date
Aquatic Resources (continued)	Aquatic Macroinvertebrates Upstream of Englebright Reservoir (3.1)	2/9: Site selection below New Bullards Bar Dam	--	September 30, 2012
	Aquatic Macroinvertebrates Downstream of Englebright Dam (3.2)	2/2 - 2/3: BMI site visit downstream of Narrows 2 Powerhouse YCWA modified the study plan in conformance with FERC's September 30, 2011 Study Determination.	--	September 30, 2012
	Special-Status Aquatic Mollusks (3.3)	No fieldwork scheduled this month	--	September 30, 2012
	Special-Status Amphibians – Foothill Yellow-Legged Frog Surveys (3.4)	No fieldwork scheduled this month	--	September 30, 2012
	Special-Status Amphibians – Foothill Yellow-Legged Frog Habitat Modeling (3.5)	No fieldwork scheduled this month.	--	September 30, 2013
	Special-Status Turtles – Western Pond Turtle (3.6)	No fieldwork scheduled this month.	--	September 30, 2012
	Reservoir Fish Populations (3.7)	2/8: Englebright site selection.	--	September 30, 2012
	Stream Fish Populations Upstream of Englebright Reservoir (3.8)	2/9: Site selection below New Bullards Bar Dam	--	September 30, 2013
	Non-ESA-Listed Fish Populations Downstream of Englebright Dam (3.9)	No fieldwork scheduled this month.	--	September 30, 2012
	Instream Flow Upstream of Englebright Reservoir (3.10)	2/7: Transect selection in New Colgate Powerhouse Reach 2/9: Site selection in North Yuba River below New Bullards Bar Dam	--	September 30, 2012
	Fish Entrainment (3.11)	Study on hold. YCWA, in conformance with FERC's September 30, 2011 Study Determination, filed with FERC a modified study plan, including evidence of agency consultation, on December 29, 2011. YCWA will initiate the study when approved by FERC.	--	September 30, 2012 (date subject to revision based on when FERC approves the modified study plan)
Wildlife Resources	New Colgate Powerhouse Ramping (3.12)	Study on hold. YCWA, in conformance with FERC's 9/30/11 Study Determination and 12/8/11 Study Modification, modified the study plan and on 1/23/12 distributed it to Forest Service, USFWS, NMFS, SWRCB and CDFG for 30-day review (i.e., written comments due by COB on 2/24). YCWA will file the modified study plan, including evidence of consultation, with FERC by March 8, 2012.	--	To be Determined
	Special-Status Wildlife – California Wildlife Habitat Relationships (4.1)	No fieldwork scheduled this month.	--	September 30, 2012
	Special-Status Wildlife – Bats (4.2)	No fieldwork scheduled this month.	--	October 30, 2012

Anticipated Fieldwork Schedule (continued)

Resource Area	Study Name	Anticipated Field Schedule for Month	Running List of Variances to FERC-Approved Studies	Technical Memorandum Due Date
Botanical Resources	Special-Status Plants (5.1)	No fieldwork scheduled this month.	--	September 30, 2012
Wetlands, Riparian & Littoral Habitats	Riparian Habitat Upstream of Englebright Reservoir (6.1)	2/9: Site selection in North Yuba River below New Bullards Bar Dam YCWA, in conformance with FERC's 9/30/11 Study Determination and 12/8/11 Study Modification, modified the study plan and on 1/8/12 distributed it to Forest Service, USFWS, NMFS, SWRCB, CDFG and FWN for 30-day review (i.e., written comments due by COB on 2/7). YCWA will file the modified study plan, including evidence of consultation, with FERC by March 8, 2012.	--	September 30, 2012
Wetlands, Riparian & Littoral Habitats (continued)	Riparian Habitat Downstream of Englebright Dam (6.2)	2/23: Training of HDR field staff on LWM data collection. YCWA, in conformance with FERC's 9/30/11 Study Determination and 12/8/11 Study Modification, modified the study plan and on 1/12/12 distributed it to USFWS, NMFS, SWRCB and CDFG for 30-day review (i.e., written comments due by COB on 2/13). YCWA will file the modified study plan, including evidence of consultation, with FERC by March 8, 2012.	--	February 2013 (date subject to revision based on modification of study plan)
	Wetlands (6.3)	No fieldwork scheduled this month.	--	September 30, 2012
Threatened, Endangered & Fully Protected Species	ESA-Listed Plants (7.1)	No fieldwork scheduled this month.	--	September 30, 2012
	Narrows 2 Powerhouse Intake (7.2)	No fieldwork scheduled this month.	--	September 30, 2013
	ESA-Listed Amphibians – California Red-Legged Frog (7.3)	No fieldwork scheduled this month.	--	March 31, 2013 ²
	ESA-Listed Wildlife – Valley Elderberry Longhorn Beetle (7.4)	No fieldwork scheduled this month.	--	September 30, 2012
	CESA-Listed Plants (7.5)	No fieldwork scheduled this month.	--	September 30, 2012
	CESA-Listed and Fully Protected Wildlife – California Wildlife Habitat Relationships (7.6)	No fieldwork scheduled this month.	--	September 30, 2012
	CESA-Listed and Fully Protected Wildlife – Bald Eagle (7.7)	2/14 - 2/15: Third of three wintering surveys at all Project impoundments.	--	September 30, 2012
	ESA/CESA-Listed Salmonids Downstream of Englebright Dam (7.8)	No fieldwork scheduled this month. YCWA modified the study plan in conformance with FERC's 12/28/11 Resolution of Study Disputes Determination.	--	September 30, 2012
	North American Green Sturgeon Downstream of Englebright Dam (7.9)	No fieldwork scheduled this month.	--	September 30, 2012
	Instream Flow Downstream of Englebright Dam (7.10)	No fieldwork scheduled this month. YCWA modified the study plan in conformance with FERC's 9/30/11 Study Determination and 12/28/11 Resolution of Study Disputes Determination.	--	September 30, 2012

Anticipated Fieldwork Schedule (continued)

Resource Area	Study Name	Anticipated Field Schedule for Month	Running List of Variances to FERC-Approved Studies	Technical Memorandum Due Date
	Fish Behavior and Hydraulics Near Narrows 2 Powerhouse (7.11)	2/14: Methods feasibility testing in the vicinity of Narrows 2 Powerhouse. YCWA developing a new study plan in conformance with FERC's December 28, 2011 Resolution of Study Disputes Determination and will file the new study plan, including evidence of agency consultation, with FERC by March 27, 2012.	--	To be Determined
Threatened, Endangered & Fully Protected Species (continued)	Evaluation of Project Effects on Daguerre Point Dam and Hallwood-Cordua Fish Facilities (7.12)	Study on hold. YCWA, in conformance with FERC's 9/30/11 Study Determination and 12/8/11 Study Modification, modified the study plan and on 1/19/12 distributed it to Forest Service, USFWS, NMFS, SWRCB and CDFG for 30-day review (i.e., written comments due by COB on 2/20). YCWA will file the modified study plan, including evidence of consultation, with FERC by March 8, 2012.	--	To be Determined
Recreation Resources	Recreation Use and Visitor Surveys (8.1)	2/2, 2/5, 2/18 & 2/21: Recreational use and visitor surveys at New Bullards Bar Reservoir	--	March 31, 2013
	Recreational Flow (8.2)	No fieldwork scheduled this month.	--	September 30, 2013
Land Use	Primary Project Roads and Trails (9.1)	No fieldwork scheduled this month.	--	September 30, 2012
Aesthetic Resources	Visual Quality (10.1)	No fieldwork scheduled this month.	--	September 30, 2012
Cultural Resources	Historic Properties Study (12.1)	No fieldwork scheduled this month.	--	September 30, 2012
Tribal Interests	Native American Traditional Cultural Properties (12.2)	No fieldwork scheduled this month.	--	September 30, 2012

¹ YCWA's proposed Bioaccumulation Study (Study 2.4) required, among other things, that YCWA collect 9 brown trout and 9 rainbow trout from each of Our House and Log Cabin diversion dam impoundments and analyze each for methylmercury bioaccumulation. CDFG's Moss Landing lab visited the impoundments during the week of September 19, 2011 and collected the target number of rainbow trout at each impoundment, but did not find any brown trout, and suggested an additional effort would not be worthwhile. YCWA consulted with SWRCB on September 26, 2011 and it was agreed an additional effort was not needed, but if YCWA collected brown trout in the impoundments during the relicensing Fish Populations Upstream of Englebright Reservoir Study (Study 3.8), up to 9 brown trout from each reservoir would be preserved and analyzed for methylmercury bioaccumulation and the results included in the Bioaccumulation Technical Memorandum.

² Site Assessment Report is scheduled for completion in June 2012. A supplemental report will be completed in October 2014 if Step 2 of study is warranted.