

VCSNS Unit 2 and 3 COL Environmental Surveys  
 Status as of October 1, 2008

Survey Type	Description	References	Performed By	Completed	Planned	Notes
Aquatic Ecology	Fish in the Monticello and Parr Reservoirs	ESRP 2.4.2 ER 2.4.2.1.1 and 2.4.2.1.2	Normandeau Associates	Fall 2006 , Spring 2007, Summer 2008 sampling events	January/February 2009 (Winter)	References refer to 2006 & 2007 sampling events
Aquatic Ecology	Fish in the Monticello and Parr Reservoirs	ESRP 2.4.2	SCANA Services	2007-2008	Not Applicable	Additional transect in Parr Reservoir
Aquatic Ecology	Fish and freshwater mussels in Mayo Creek	ESRP 2.4.2 ER 2.4.2.2 (TtNUS 2007)	TtNUS	July 2006 (Summer), November 2006 (Autumn), and April 2007	Winter 2008/2009 and Spring 2009	1) No mussels or clams were observed in Mayo Creek. 2) Not all locations were sampled during all periods.
Aquatic Ecology	Benthic Macroinvertebrates in the Monticello and Parr Reservoirs	ESRP 2.4.2	SCANA Services/Carnegey Biological Services	June and September 2008 events	Winter 2008/2009 - Spring 2009  Impacted and control locations	June report submitted to NRC.
Aquatic Ecology	Macroinvertebrates in Mayo Creek	ESRP 2.4.2	Carnegey Biological Services/SCANA Services	July 2008 and Fall 2008 events	Fall 2008, Winter 2008/2009, Spring 2009	July report submitted to NRC

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Aquatic Ecology	Ichthyoplankton (fish eggs, larvae) in Monticello Reservoir directly in front of the Summer Station Cooling Water Intake Structure	ESRP 2.4.2	Normandeau Associates	September 2008 sampling event	October 2008 through August 2009 to be sampled once or twice a month depending upon the season.	Report expected in fall 2009 – quarterly status reports will be provided
Aquatic Ecology	Submerged aquatic vegetation survey of Parr and Monticello Reservoirs	ESRP 2.4.2	SCANA Services	October 30, 2008 (Parr Reservoir)	Fall 2008 survey (Monticello Reservoir)	
Aquatic Ecology	Fish and macro-invertebrate (mussels) in the Broad River at ten (10) sampling locations from Gaston Shoals (in Cherokee County, near the North Carolina state line) to Bookman Island	ER 2.4.2.1.1 (Bettingler, Crane, and Bulak 2003)	SCDNR	Between October 2000 and September 2002 (Mussels were surveyed during Summer 2002)	Not Applicable	Broad River Comprehensive Entrainment Mitigation and Fisheries Resource Enhancement Program
Aquatic Ecology	Hydraulic zone of influence study for cooling water intake for VCSNS Unit 1	ER 5.3.1.1 (Geosyntec 2005)	Geosyntec Consultants	April 2005	Not Applicable	

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Aquatic Ecology	Impingement mortality study for cooling water intake for VCSNS Unit 1	ER 5.3.1.2 (Geosyntec 2006)	Geosyntec Consultants	July 2005 – June 2006	Not Applicable	

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Aquatic Ecology	Fish (Largemouth Bass) in Parr Reservoir	ER 2.4.2.1.1 (Hayes 1999)	SCDNR	1992-1993	Not Applicable	Management Plan Parr Shoals Reservoir Freshwater Fisheries District III
Aquatic Ecology	Fish in Monticello Reservoir	ER 2.4.2.1.2 (Nash, Christie, Stroud 1990)	SCDNR	Winter 1987 through Spring 1990	Not Applicable	Fisheries Investigations in Lakes and Streams District IV
Aquatic Ecology	Fish in Monticello Reservoir	ER 2.4.2.1.2 (Christie, Stroud 1996)	SCDNR	July 1995 through June 1996	Not Applicable	Fisheries Investigations in Lakes and Streams District IV
Aquatic Ecology	Fish in Monticello Reservoir	ER 2.4.2.1.2 (Christie, Stroud 1997)	SCDNR	July 1996 through June 1997	Not Applicable	Fisheries Investigations in Lakes and Streams District IV
Aquatic Ecology	Fish in Monticello Reservoir	ER 2.4.2.1.2 (Christie, Stroud 1998)	SCDNR	July 1997 through June 1998	Not Applicable	Fisheries Investigations in Lakes and Streams District IV

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Aquatic Ecology	Fish in Monticello Reservoir	ER 2.4.2.1.2 (Christie, Stroud 1999)	SCDNR	July 1998 through June 1999	Not Applicable	Fisheries Investigations in Lakes and Streams District IV
Aquatic Ecology	Mussel recolonization in Broad River - study related to fish passage structure at Columbia Canal	ESRP 2.4.2	SCDNR, J. Price and J. Bulak	None	Study on-going through 2008	Progress report (2007) available
Aquatic and Terrestrial Ecology	Aquatic and terrestrial biota in Monticello and Parr Reservoirs, and Broad River	ER 2.4.1.1 and 2.4.2.1 (Dames & Moore 1985)	SCE&G	January 1983 through December 1984	Not Applicable	Environmental Monitoring Report January 1983-December 1984 for VCSNS for SCDHEC and NRC

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Terrestrial Ecology	Threatened and endangered plant species within the area designated for the new nuclear facility	ESRP 2.4.1 ER 2.4.1 (Nelson 2006) 25242-103-V24-HY00-00021-001 (See Notes)	Dr. John B. Nelson	June 2006 (Summer), September 2006 (Autumn), and October 2007 - Additional areas (Autumn)	Not Applicable	Additional areas were surveyed during October 2007. This report was not available in time for ER submittal. Contains descriptions of plant communities located in the survey areas.
Terrestrial Ecology	Threatened and endangered plant and animal species within the area of the V. C. Summer Nuclear Station and associated transmission corridors (For Unit 1 license renewal application)	Threatened and Endangered Species Field Survey V. C. Summer Nuclear Station, November 2002 (SCE&G 2002b)	SCE&G	May, June, July, August 2002	Not Applicable	Contains descriptions of plant communities located in the survey areas.
Terrestrial Ecology	Small mammal survey	ESRP 2.4.1	Tetra Tech NUS	October 31, 2008	March/April 2009	Expanded to include spring survey

