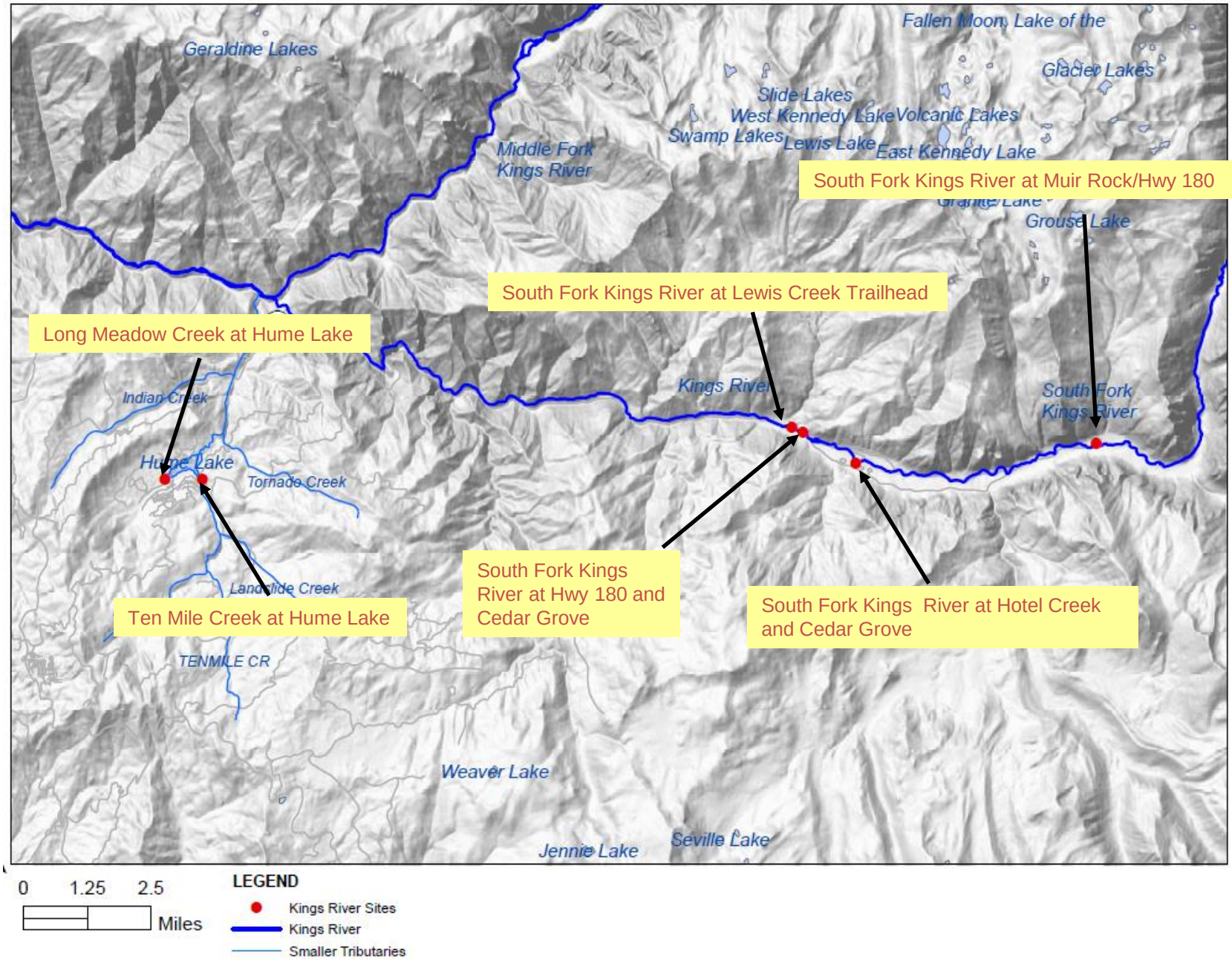
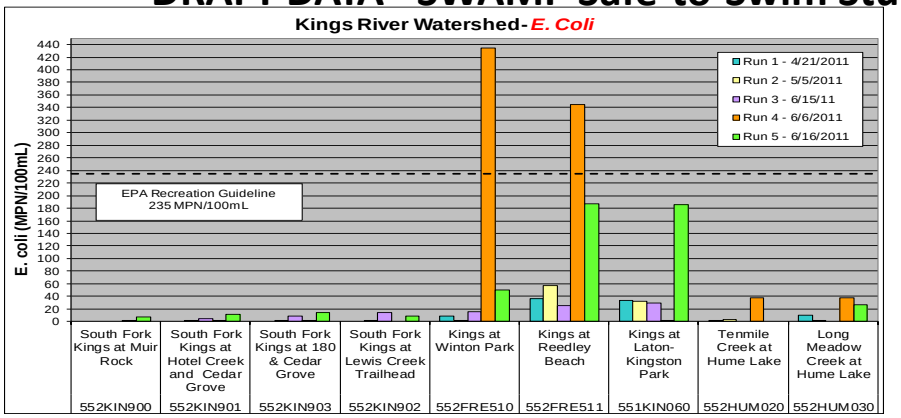
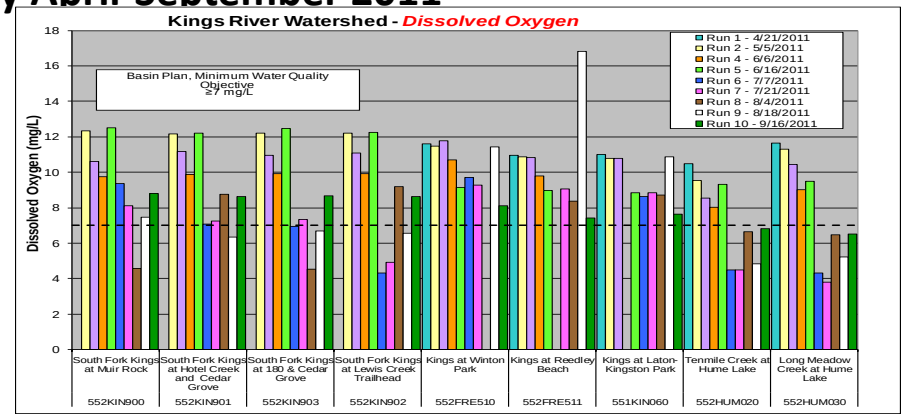
SWAMP Safe-To-Swim Study April-September 2011

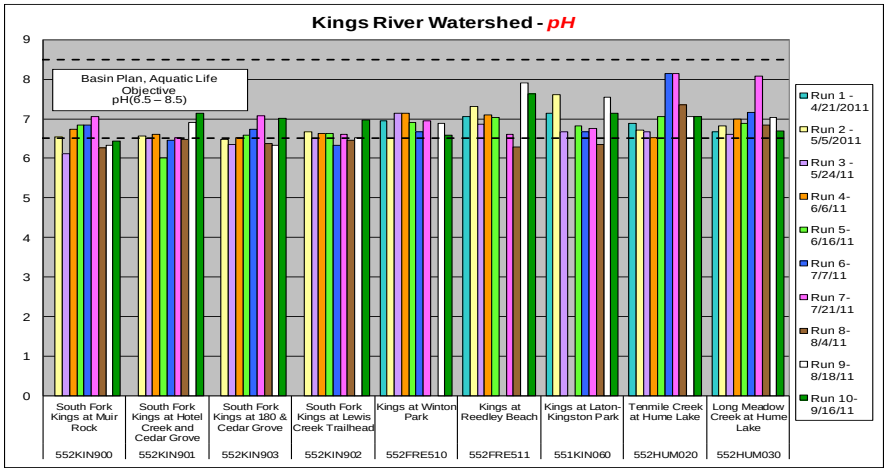
Sample Sites for the Kings River Watershed, South Fork

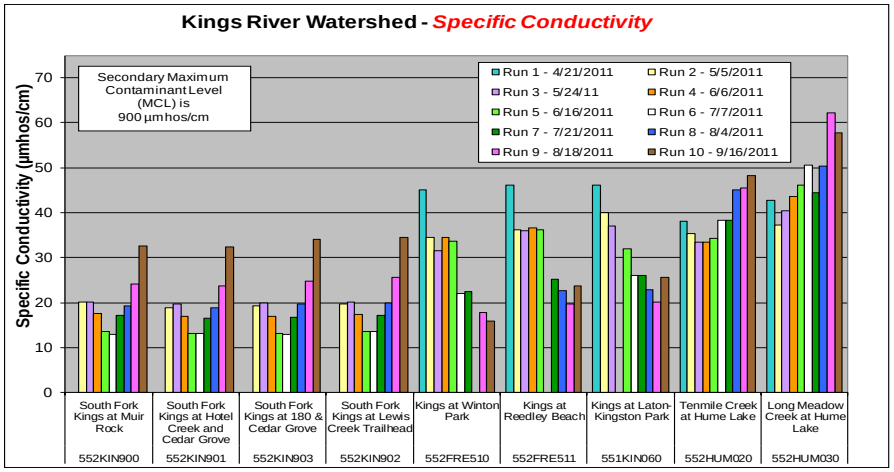


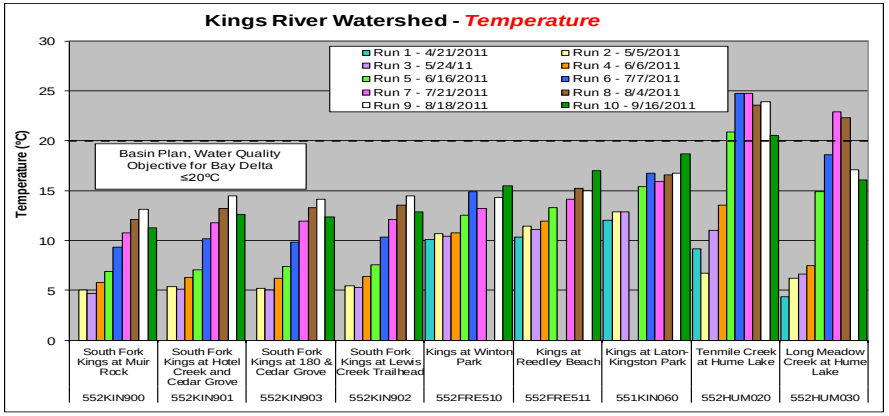
DRAFT DATA –SWAMP Safe-to-Swim Study April-September 2011

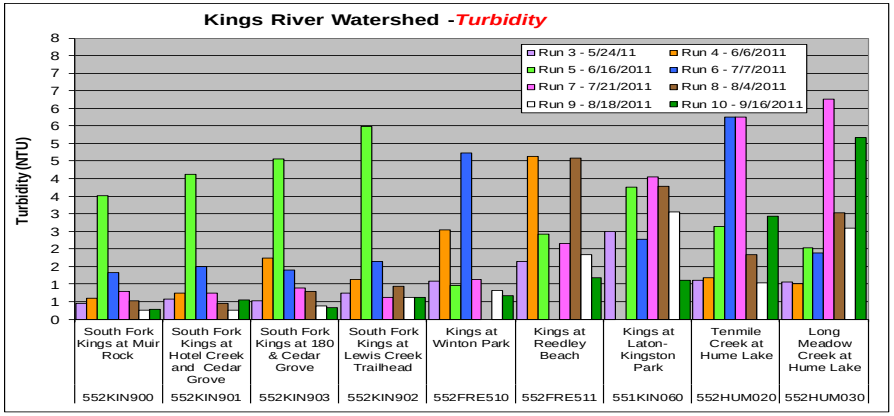












Unit measurements:

MPN/100mL = *Most Probable Number per 100 milliliters* mg/L = *milligrams per Liter* µmhos/cm = *micromhos per centimeter* ºC = *degrees Celcius* NTU = *Nephelometric Turbidity Units*

DRAFT DATA – SWAMP Safe-to-Swim Study April-September 2011

Constituent	Water Quality Guideline	Sample Date	Kings River Watershed					
			Long Meadow Creek at Hume Lake	Tenmile Creek at Hume Lake	South Fork Kings River at 180 & Cedar Grove	South Fork Kings River at Hotel Creek and Cedar Grove	South Fork Kings River at Lewis Creek Trailhead	South Fork Kings River at Muir Rock
Total Coliform (MPN/100mL)	N/A	8/31/2006	1119.9	>2419.6	165.8	122.3	866.4	88.2
		9/14/2006	1986.3	488.4	166.4	151.5	261.3	123.6
		9/28/2006	>2419.6	292.4	195.6	209.8	248.1	224.7
E. coli (MPN/100mL)	<235 MPN/100mL (USEPA Contact Recreation Guideline)	8/31/2006	14.8	3.1	4.1	2	5.2	<1
		9/14/2006	5.2	<1	4.1	1	2	1
		9/28/2006	2	<1	1	4.1	4.1	6.3
Dissolved Oxygen (mg/L)	≥7 mg/L (Basin Plan Objective)[2]	8/31/2006	6.73	6.32	8.32	8.36	8.4	8.15
		9/14/2006	6.87	8.31	10.39	9.86	10.04	10.23
		9/28/2006	6.91	7.89	9.43	8.96	9.37	9.49
pH	6.5-8.5 (Basin Plan Objective)[2]	8/31/2006	6.43	7.52	7.69	7.57	7.5	7.52
		9/14/2006	6.9	7.58	7.84	7.63	7.32	7.72
		9/28/2006	7.31	7.1	7.75	7.71	7.66	7.73
Specific Conductivity (µmhos/cm)	≤900 µmhos/cm (Secondary Maximum Contaminant Level)[1]	8/31/2006	49.6	39.3	39.9	38.2	41.8	39.1
		9/14/2006	81.2	40.4	44.7	40	46.2	43.6
		9/28/2006	32.1	39.6	47.5	46.9	49.6	44.2
Temperature (° Celsius)	≤20 °C (Basin Plan Objective for Bay-Delta)[2]	8/31/2006	18.4	21.4	12.6	12.2	11.9	11.3
		9/14/2006	15.3	18.6	10.6	11.6	11.5	10.1
		9/28/2006	15.4	18	12.4	12.6	12.9	11.5
Turbidity (NTU)	N/A	8/31/2006	1.95	1.98	0.15	0.15	0.30	0.15
		9/14/2006	1.66	2.62	0.14	0.12	0.16	0.13
		9/28/2006	5.77	2.90	0.24	0.17	0.21	0.12

Shaded cell = Does not meet Water Quality Guideline 1 - Drinking Water 2- Aquatic Life