PROPOSED YEAR II MONITORING
Sacramento River Watershed Program

Sampling Station	Water Chemistry: Hg (Tot)	Cu (Tot and Dis)	Cd (Tot and Dis)	Zn (Tot and Dis)	As (Tot and Dis)	Pb (Tot and Dis)	Cr, Se, Ag, Ni (Tot)	TSS	Hardness	Turbidity	Alkalinity	TOC	DOC	TDS	DO,T,pH, EC	Nutrients (a)	General Minerals (b)	OP pesticides	carbamate pesticides	triazines	Phenoxy herbs, 2,4-D	Pathogens: Giardia/Crypto	Total and Fecal Coliforms	WQ Sampling Annual Costs	Aquatic Toxicity: Ceriodaphnia	Pimephales	WC Tox Followup (c)	Sediment: Toxicity (Cerio and Hyalella)	Metals	Organic compounds	Annual Sampling Cost	Fish Tissue: Mercury	PCBs & chlor. pest. (d)	Sampling	Bioassessment (e): Benthic inverts, wadable	Benthic inverts, nonwadable	Algae	Sampling and Physical Habitat	Special Tributary Monitoring
Pit R above Shasta								6	6	6	6	6	6	6	6									1368	6														
McCloud R above Shasta								6	6	6	6	6	6	6	6									1368	6										3 (g)			3 (g)	
Sac R above Shasta							6 (Ni t,d)	6	6	6	6	6	6	6	6									1368	6														
Spring Ck PP Disch to Keswick	6							6	6	6	6	6	6	6	6									2124	6														
Sac R below Keswick	6	6	6	6	6	6	6	6	6	12	12	12	12	12	12								12	9040	12							1	1	1					
Sac R @ Bend Br	12	12	12	12				12		12		12	12		12	12	12					12	12	13536	12			2	2	2	267	1	1	1					
Mill Creek																																			6 (h)			6 (h)	12
Deer Creek																																			10 (i)			10 (i)	12
Big Chico Creek																																			12 (j)			12 (j)	12
Sac R near Hamilton City	12	12	12	12				12		12		12	12		12	12	12	12				12	12	13536	12			2	2	2	267	2	2	2		1	1	1	
Sac R @ Colusa	NAQ	NAQ	NAQ	NAQ	NAQ	NAQ	NAQ	NAQ	NAQ	12		NAQ	NAQ	12	NAQ	NAQ	NAQ	NAQ	NAQ	NAQ		12	12	7728	12			2	2	2	267	2	2	2		1	1	1	
Butte Creek																									6										6 (k)			6 (k)	12
Sacramento Slough	12	12						12				12	12		12	12	12	12						5184	9			2	2	2	267	1	1	1					
Colusa Basin Dr	12	12						12				12	12		12	12	12	12	12					5184	9			2	2	2	267	1	1	1					
Yuba R @ Marysville	12							12				12	12		12	12	12							5184				2	2	2	267					1	1	1	
Feather R near Nicolaus	12							12		12		12	12		12	12	12	6				12	12	10080	12			2	2	2	267	1	1	1		1	1	1	
Sac R @ Verona																																							
Sac R @ Veterans Br	AMP	AMP	AMP	AMP	AMP (total)	AMP	AMP (Cr, Ni)	AMP	AMP	12		AMP	AMP		AMP	12	12	12				12	AMP	AMP	12			2	2	2	267	1	1	1					
Arcade Creek	12	12						12				12	12		12	12	12	12	12	12				5184	12											1	1	1	
Natomas Main Drain																																1	1	1					
Amer R @ J St.																																1	1	1		1	1	1	
Amer R @ Discovery Pk	AMP	AMP	AMP	AMP	AMP (total)	AMP	AMP (Cr, Ni)	AMP	AMP						AMP	12	12						AMP	AMP	12			2	2	2	267	1	1	1					
Sac R @ Freeport	NAQ	NAQ	NAQ	NAQ	NAQ	NAQ	NAQ	NAQ	AMP	12		NAQ	NAQ	12	NAQ	NAQ	NAQ	NAQ	NAQ	NAQ	NAQ	4	AMP	AMP	12			2	2	2	267								
Sac R @ RM44	AMP	AMP	AMP	AMP	AMP (total)	AMP	AMP (Cr, Ni)	AMP	AMP	12	12	12	12	12	AMP	12							AMP	AMP								4	4	4					
Cache Slough near Ryers Ferry	6	6	6	6	6	6	6	6	6	6		6	6	6	6		6					6	6	5040	6							1	1	1					
Cost per Analysis	70	80	80	80	80	80	160	19	13	13	12	40	47	19	25	131	169	300	300	300	200	575	40	varies	175	200	(d)	1100	662	2171	133	75	787	1270	800	600	1000	579	
Number of Sites	15	12	9	9	8	7	8	18	12	14	6	18	18	10	18	12	13	8	4	3	1	8	11	18	17	0	(d)	10	10	10	10	13	13	13	6	6	6	11	
Number of Regular Analyses	104	74	36	36	14	14	20	122	36	126	48	138	138	76	126	120	114	66	24	12	0	70	66		162	0	(d)	20	20	20	20	18	18	18	37	6	6	43	
Additional QC Analyses	24	18	12	12	6	6	12	12	8	12	10	24	24	12	0	12	12	18	6	3	0	12	12		26	0	(d)	0	0	0	0	2	2	0	0	0	0	0	
Sampling & Analytical Costs	8,960	7,360	4,000	4,000	1,600	1,600	4,640	2,546	598	1,794	696	6,480	7,614	1,710	3,150	17,332	21,294	25,200	9,000	4,500	0	47,150	3,120	85,924	42,774	0	60,000	22,000	toxic samples only		2,667	1,500	15,740	22,860	22,200	3,600	6,000	24,897	66,500
Other Costs (Identify)																								32,356	Chemistry (10%)		29,630		13,240	43,420	(max)	SFEI admin, etc.		9,149						
Sub Totals	32,160							63,214										38,700				50,270		118,280	132,403			81,327			(max)	49,249			56,697				66,500

Total	$588,900
Contingency	$40,000
Grand Total	$728,800

Table Notes: Shaded regions indicate Current Year I Sampling Program
(a) Nutrients include nitrogen compounds (nitrite, nitrate, ammonia, organic) and phosphorus compounds (orthophosphate, total).
(b) General minerals include alkalinity, chloride, iron, manganese, calcium, magnesium, silica, sodium, sulfate and potassium
(c) Toxicity follow-up consists of TIE testing that has no fixed frequency.
(d) Assumes same fish used for Hg and organic analytes
(e) Bioassessment monitoring includes both physical habitat and biological assessments
(f) Refer to Special Tributary Sampling Plan for monitoring details
(g) Bioassessment monitoring will be performed at 3 reaches (one event each) on McCloud River.
(h) Bioassessment monitoring will be performed at 6 reaches (one event each) on Mill Creek
(i) Bioassessment monitoring will be performed at 10 reaches (one event each) on Deer Creek
(j) Bioassessment monitoring will be performed at 12 reaches (one event each) on Big Chico Creek
(k) Bioassessment monitoring will be performed at 6 reaches (one event each) on Butte Creek

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