

TABLE R1
Reasonable Potential Analysis
City of Simi Valley
Simi Valley WQCP
(CA0055221, CI#3021)

CTR#	DATE	Units	CV	MEC	CTR CRITERIA				Basin Plan	REASONABLE POTENTIAL ANALYSIS (RPA)							HUMAN HEALTH CALC		
					Freshwater		Human Health			Title 22 GWR	Lowest C	MEC >= Lowest C	Tier 1 - Need limit?	B	B>C	Tier 2 - Need limit?	Tier 3 - need limit?	AMELhh = ECA = C hh O	MDEL/ AMEL multiplier
					C acute = CMC tot	C chronic = CCC tot	Not applic-able C hh W&O	C hh O											
1	Antimony	µg/L	0.6	110	NONE	NONE	14	4300	6	6	YES	YES	6.5	YES	YES				
2	Arsenic	µg/L	1.6	4.1	340	150	NONE	NONE	50	50	NO	Go to Tier 2	6	No	NO				
3	Beryllium	µg/L	0.6	2.2	NONE	NONE	Narrative	Narrative	4	4	NO	NO	2.2	No	No				
4	Cadmium*	µg/L	2.2	69	22	7.3	Narrative	Narrative	5	5	YES	YES	1.2	No	NO	NO			
5a	Chromium III*	µg/L	0.4	5.3	5405	644	Narrative	Narrative		644	NO	Go to Tier 2	3	No	NO	NO			
5b	Chromium VI	µg/L	0.6	6.9	16.293279	11.43451	Narrative	Narrative	50	11	NO	Go to Tier 2	6.9	No	NO	NO			
6	Copper*	µg/L	0.6	26	52	31	1300	NONE		31	NO	Go to Tier 2	7.4						
7	Lead*	µg/L	0.6	11	477	19	Narrative	Narrative		19	NO	NO	<5	No	NO	NO			
8	Mercury	µg/L	0.6	0.0046	reserved	reserved	0.05	0.051	2	0.051	NO	Go to Tier 2	0.08	NO	NO				
9	Nickel*	µg/L	0.7	7.1	1515	169	610	4600	100	100	NO	Go to Tier 2	4.7	No	NO	NO			
10	Selenium	µg/L	0.6	12	Reserved	5	Narrative	Narrative	50	5	YES	YES	18	YES	YES				
11	Silver*	µg/L	0.6	20	44	none	NONE	NONE		44	NO	Go to Tier 2	4.4	No	NO	NO			
12	Thallium	µg/L	0.6	2.3	NONE	NONE	1.7	6.3	2	2	YES	YES	6.7	YES	YES				

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			MDEL hh	LTA acute	Freshwater			Freshwater				Lowest AMEL	Lowest MDEL			
					ECA acute multiplier (p.7)	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier (n=4)	AMEL aq.life	MDEL multiplier (n=4)			MDEL aq.life		
1	Antimony	µg/L												6		RPA to exceed basin Plan WQO. Also, retain existing limit from Order 96-043, for protection of GWR & Antibacksliding.
2	Arsenic	µg/L												50		Retain existing limit from Order 96-043, for protection of GWR & Antibacksliding.
3	Beryllium	µg/L														Interim Monitoring
4	Cadmium*	µg/L												5		RPA to exceed Basin Plan WQO. Also, retain existing limit from Order 96-043, for protection of GWR & Antibacksliding.
5a	Chromium III*	µg/L														Interim Monitoring
5b	Chromium VI	µg/L												50		Retain existing limit from Order 96-043, for protection of GWR & Antibacksliding.
6	Copper*	µg/L												1000		Retain existing limit from Order 96-043, for protection of GWR & Antibacksliding.
7	Lead*	µg/L												50		Retain existing limit from Order 96-043, for protection of GWR & Antibacksliding.
8	Mercury	µg/L												2		Retain existing limit from Order 96-043, for protection of GWR & Antibacksliding.
9	Nickel*	µg/L												100		Retain existing limit from Order 96-043, for protection of GWR & Antibacksliding.
10	Selenium	µg/L		0.321	#VALUE!	0.527	2.635	2.635	1.55	4.08425	3.11	8.19485	4.1	8.2		Corrected the typographical error.
11	Silver*	µg/L												50		Retain existing limit from Order 96-043, for protection of GWR & Antibacksliding.
12	Thallium	µg/L												2		Need limit (Tier 1) RPA to exceed Basin Plan WQO. New limit

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					Freshwater		Human Health			Title 22 GWR	Lowest C	MEC >= Lowest C	Tier 1 - Need limit?	B	B>C	Tier 2 - Need limit?	Tier 3 - need limit?	AMELhh = ECA = C hh O	MDEL/ AMEL multiplier
					C acute = CMC tot	C chronic = CCC tot	Not applicable C hh W&O	C hh O											
13	Zinc*	µg/L	0.6	75	387	388	none	NONE		387	NO	Go to Tier 2	24	No	NO				
14	Cyanide	µg/L	0.9	6	22	5.2	700	220,000	200	5.2	YES	YES	4						
20	Bromoform	µg/L	0.6	0.2	NONE	NONE	4.3	360		360	NO	Go to Tier 2							
23	Dibromochloromethane	µg/L	2.2	0.8	NONE	NONE	0.401	34		34	NO	Go to Tier 2							
26	Chloroform	µg/L	0.7	4.4	NONE	NONE	Reserved	Reserved		Reserved	No Criteria Available	Go to Tier 2	3.7	NA	NO	NO			
27	Dichlorobromomethane	µg/L	0.6	0.6	NONE	NONE	0.56	46		46	NO	Go to Tier 2	0.6						
36	Methylene chloride (Dichloromethane)	µg/L	0.6	0.7	NONE	NONE	4.7	1,600		1,600	NO	Go to Tier 2	0.7	No	NO	NO			
38	Tetrachloroethylene	µg/L	0.6		NONE	NONE	0.8	8.85	5	5	NO	NO							
39	Toluene	µg/L	0.6	0.5	NONE	NONE	6800	200,000	150	150	NO	Go to Tier 2	0.5	No	NO	NO			
41	1,1,1-Trichloroethane	µg/L	0.6	4.5	NONE	NONE	Narrative	Narrative	200	200	NO	Go to Tier 2		No	NO	NO			
54	Phenol	µg/L	0.6	10	NONE	NONE	21,000	4.6x10^6		4.6x10^6	NO	Go to Tier 2	6	No	NO	NO			
68	Bis(2-Ethylhexyl) Phthalate	µg/L	1.6	2	NONE	NONE	1.8	5.9	4	4	NO	Go to Tier 2	2	NO	NO				
77	1,4-Dichlorobenzene (p-dichlorobenzene)	µg/L	0.6	0.2	NONE	NONE	400	2,600	5	5	NO	Go to Tier 2							
81	Di-n-Butyl Phthalate	µg/L	0.6	0.8	NONE	NONE	2700	12,000		12,000	NO	Go to Tier 2							
105	gamma-BHC (aka Lindane)	µg/L	0.6	0.0092	0.95	NONE	0.019	0.063	0.2	0.063	NO	NO							
109	4,4'-DDE	µg/L	0.6	0.005	NONE	NONE	0.00059	0.00059		0.00059	YES	YES				0.00059	2.01		
115	Endrin	µg/L	0.6	<0.005	0.086	0.036	0.76	0.81		0.036	NO	Go to Tier 2							

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			MDEL hh	MDEL	Freshwater			Freshwater				PROPOSED LIMITS						
					ECA acute multiplier (p.7)	LTA acute	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier (n=4)	AMEL aq.life	MDEL multiplier (n=4)	MDEL aq.life		Lowest AMEL	Lowest MDEL		
13	Zinc*	µg/L													5000	—	Retain existing limit from Order 96-043, for protection of GWR & Antibracksliding.	
14	Cyanide	µg/L			0.224	4.928	0.404	2.1008	2.1008	1.85	3.88648	4.46	9.36957	3.9	9.4		Need limit (Tier 2) RPA to exceed CTR Aquatic life criteria	
20	Bromoform	µg/L															Interim Monitoring - No Limit	
23	Dibromochloromethane	µg/L															Interim Monitoring - No Limit	
26	Chloroform	µg/L															No Limit - No Criteria Available	
27	Dichlorobromomethane	µg/L															Interim Monitoring - No Limit	
36	Methylene chloride (Dichloromethane)	µg/L															Interim Monitoring - No Limit	
38	Tetrachloroethylene	µg/L														5	—	Retain existing limit from Order 96-043, for protection of GWR & Antibracksliding.
39	Toluene	µg/L															Interim Monitoring - No Limit	
41	1,1,1-Trichloroethane	µg/L															Interim Monitoring - No Limit	
54	Phenol	µg/L																
68	Bis(2-Ethylhexyl) Phthalate	µg/L															Interim Monitoring - No Limit	
77	1,4-Dichlorobenzene (p-dichlorobenzene)	µg/L														5	—	Retain existing limit from Order 96-043, for protection of GWR & Antibracksliding.
81	Di-n-Butyl Phthalate	µg/L															Interim Monitoring - No Limit	
105	gamma-BHC (aka Lindane)	µg/L														0.2	—	Retain existing limit from Order 96-043, for protection of GWR & Antibracksliding.
109	4,4'-DDE	µg/L	0.0011859													0.00059	0.0012	Need limit (Tier1). Based on CTR Human health organisms only.
115	Endrin	µg/L														2	—	Retain existing limit from Order 96-043, for protection of GWR & Antibracksliding.

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					Freshwater		Human Health			Title 22 GWR	Lowest C	MEC >= Lowest C	Tier 1 - Need limit?	B	B>C	Tier 2 - Need limit?	Tier 3 - need limit?	Organisms O	
					C acute = CMC tot	C chronic = CCC tot	Not applic- able C hh W&O	C hh O										AMELhh = ECA = C hh O	MDEL/ AMEL multiplier
126	Toxaphene	µg/L	0.6	<0.01	0.73	0.0002	0.0073	0.00075		0.00075	ND>C	Go to Tier 2	<0.5	No	NO	NO			
	Barium	µg/L							1000										
	Iron	µg/L							300										
	Methoxychlor	µg/L							40										
	2,4-D	µg/L							100										
	2,4,5-TP (Silvex)	µg/L							10										
	Halomethanes	µg/L							80										
FOOTNOTE:																			
*	These metals are hardness dependent. CTR criteria was calculated using an average receiving water hardness of 400 mg/L, upstream of the discharge point. Eventhough the receiving water hardness was greater than 400, the CTR does not allow adjustment of the metals criteria with a hardness greater than 400 mg/L.																		
	Priority pollutants not listed did not have reasonable potential.																		

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			MDEL	hh	Freshwater					Freshwater				Lowest AMEL	Lowest MDEL	
					ECA acute multiplier (p.7)	LTA acute	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier (n=4)	AMEL aq.life	MDEL multiplier (n=4)	MDEL aq.life			
126	Toxaphene	µg/L													3 ---	Retain existing limit from Order 96-043, for protection of GWR & Antibracksliding.
	Barium	µg/L													1000 ---	Retain existing limit from Order 96-043, for protection of GWR & Antibracksliding.
	Iron	µg/L													300 ---	Retain existing limit from Order 96-043, for protection of GWR & Antibracksliding.
	Methoxychlor	µg/L													40 ---	Retain existing limit from Order 96-043, for protection of GWR & Antibracksliding.
	2,4-D	µg/L													70 ---	Retain existing limit from Order 96-043, for protection of GWR & Antibracksliding.
	2,4,5-TP (Silvex)	µg/L													10 ---	Retain existing limit from Order 96-043, for protection of GWR & Antibracksliding.
	Halomethanes	µg/L													80 ---	Retain need for an MCL-based limit for the protection of GWR. The MCL was updated from 100 to 80 mg/L by the Dept. Of Health Services.
FOOTNOTE:																
	These metals are hardness dependent. CTR criteria was calculated using an average receiving water hardness of 400 mg/L, upstream of the discharge point. Eventhough the receiving water hardness was greater than 400, the CTR does not allow adjustment of the metals criteria with a hardness greater than 400 mg/L.															
	Priority pollutants not listed did not have reasonable potential.															