

**TABLE R1**  
**City of Thousand Oaks**  
**Hill Canyon Wastewater Treatment Plant**  
**(CA0056294, CI#4917)**

CTR#	DATE	Units	CV	MEC	CTR CRITERIA				Basin Plan	REASONABLE POTENTIAL ANALYSIS (RPA)							HUMAN HEALTH CALCULATIONS		
					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											
1	Antimony	µg/L	0.5	1.5	NONE	NONE	14	4300	6	6	NO	Go to Tier 2	1.3	No	NO	NO			
2	Arsenic	µg/L	0.6	3.1	340	150	NONE	NONE	50	50	NO	Go to Tier 2	3	No	NO				
3	Beryllium	µg/L	0.6	<0.2	NONE	NONE	Narrative	Narrative	4	4	NO	NO	<0.02	No	No				
4	Cadmium*	µg/L	1.1	0.87	22	7.3	Narrative	Narrative	5	5	NO	Go to Tier 2	0.3	No	NO	NO			
5a	Chromium III*	µg/L	0.9	8	5405	644	Narrative	Narrative		644	NO	Tier 2	3	No	NO	NO			
5b	Chromium VI	µg/L	0.6	10	16.293279	11.434511	Narrative	Narrative	50	11	NO	Go to Tier 2	10	No	NO	NO			
6	Copper*	µg/L	1.7	80	52	31	1300	NONE		31	YES	YES	15						
7	Lead*	µg/L	1.2	5.7	477	19	Narrative	Narrative		19	NO	NO	2.2	No	NO	NO			
8	Mercury	µg/L	2.1	0.1	reserved	reserved	0.05	0.051	2	0.051	YES	YES	0.06	YES			0.051	3.1	
9	Nickel*	µg/L	0.5	9	1515	169	610	4600	100	100	NO	Go to Tier 2	7	No	NO	NO			
10	Selenium	µg/L	0.6	<0.1	Reserved	5	Narrative	Narrative	50	5	NO	Go to Tier 2	4	No	NO	NO			
11	Silver*	µg/L	0.6	6	44	none	NONE	NONE		44	NO	Go to Tier 2		No	NO	NO			
12	Thallium	µg/L	0.6	16	NONE	NONE	1.7	6.3	2	2	YES	YES	3	Yes	Yes				
13	Zinc*	µg/L	0.7	140	387	388	none	NONE		387	NO	Go to Tier 2	180	No	NO				
14	Cyanide	µg/L	0.6	<5	22	5.2	700	220,000	200	5.2	NO	NO	5.5	YES	YES				
15	Asbestos	Fibers/L			NONE	NONE	7,000,000	NONE	7x10^6	7x10^6	NO	Go to Tier 2		No	NO	NO			

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			MDEL hh	ECA acute multiplier (p.7)	Freshwater			Lowest LTA	Freshwater			Lowest AMEL	Lowest MDEL			
					LTA acute	ECA chronic multiplier	LTA chronic		AMEL multiplier (n=4)	AMEL aq.life	MDEL multiplier (n=4)			MDEL aqlife		
1	Antimony	µg/L												6 --		Retain existing limit from Order 96-044, for protection of GWR & Antibacksliding.
2	Arsenic	µg/L												50 --		Retain existing limit from Order 96-044, for protection of GWR & Antibacksliding.
3	Beryllium	µg/L														Interim Monitoring
4	Cadmium*	µg/L												5 --		Retain existing limit from Order 96-044, for protection of GWR & Antibacksliding.
5a	Chromium III*	µg/L														Interim Monitoring
5b	Chromium VI	µg/L												50 --		Retain existing limit from Order 96-044, for protection of GWR & Antibacksliding.
6	Copper*	µg/L		0.131	6.812	0.236	7.316	6.812	2.56	17.43872	7.63	51.9756	17	52		<b>Need limit (Tier 1). Based on CTR Aquatic life.</b>
7	Lead*	µg/L												50 --		Retain existing limit from Order 96-044, for protection of GWR & Antibacksliding.
8	Mercury	µg/L	0.1581											0.051	0.16	<b>Need limit (Tier 1). Based on CTR Human health organisms only.</b>
9	Nickel*	µg/L												100 --		Retain existing limit from Order 96-044, for protection of GWR & Antibacksliding.
10	Selenium	µg/L												50 --		Retain existing limit from Order 96-044, for protection of GWR & Antibacksliding.
11	Silver*	µg/L												50 --		Retain existing limit from Order 96-044, for protection of GWR & Antibacksliding.
12	Thallium	µg/L												2 --		<b>Need limit (Tier 1) RPA to exceed Basin Plan WQO.</b>
13	Zinc*	µg/L												5000 --		Retain existing limit from Order 96-044, for protection of GWR & Antibacksliding.
14	Cyanide	µg/L		0.321	7.062	0.527	2.7404	2.7404	1.55	4.24762	3.11	8.52264	4.2	8.5		<b>Need limit (Tier 2) RPA to exceed CTR Aquatic life criteria</b>
15	Asbestos	Fibers/L														Interim Monitoring - No Limit

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CTR#	DATE	Units	CV	MEC	CTR CRITERIA				Basin Plan	REASONABLE POTENTIAL ANALYSIS (RPA)							HUMAN HEALTH CALCULATIONS		
					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											
16	2,3,7,8-TCDD (Dioxin)	µg/L				NONE	NONE	1.3E-08	1.4E-08	3x10^-5	1.4E-08	NO			No	No		0.000000014	1.84
17	Acrolein	µg/L	0.6	<5	NONE	NONE	320	780			780	NO	Go to Tier 2		No	NO	NO		
18	Acrylonitrile	µg/L	0.6	<2	NONE	NONE	0.059	0.66			0.66	NO	NO		No	No			
<b>19</b>	<b>Benzene</b>	<b>µg/L</b>	<b>0.6</b>	<b>&lt;0.5</b>	<b>NONE</b>	<b>NONE</b>	<b>1.2</b>	<b>71</b>	<b>1</b>	<b>1</b>	<b>NO</b>	<b>Go to Tier 2</b>		<b>No</b>	<b>NO</b>	<b>NO</b>			
20	Bromoform	µg/L	0.6	6	NONE	NONE	4.3	360			360	NO	Go to Tier 2	<1	No	NO	NO		
21	Carbon Tetrachloride	µg/L	0.6	<0.5	NONE	NONE	0.25	4.4	600		4.4	NO	Go to Tier 2		No	NO	NO		
22	Chlorobenzene	µg/L	0.6	<0.5	NONE	NONE	680	21,000			21,000	NO	Go to Tier 2		No	NO	NO		
<b>23</b>	<b>Dibromochloromethane</b>	<b>µg/L</b>	<b>2.2</b>	<b>39</b>	<b>NONE</b>	<b>NONE</b>	<b>0.401</b>	<b>34</b>			<b>34</b>	<b>YES</b>	<b>YES</b>					<b>34</b>	<b>3.12</b>
24	Chloroethane	µg/L	0.6	<1	NONE	NONE	NONE	NONE			NONE	No Criteria Available	Go to Tier 2		NA	NO	NO		
25	2-chloroethyl vinyl ether	µg/L	0.6	<1	NONE	NONE	NONE	NONE			NONE	No Criteria Available	Go to Tier 2		NA	NO	NO		
26	Chloroform	µg/L	0.5	9.4	NONE	NONE	Reserved	Reserved			Reserved	No Criteria Available	Go to Tier 2		NA	NO	NO		
<b>27</b>	<b>Dichlorobromomethane</b>	<b>µg/L</b>	<b>1.7</b>	<b>51</b>	<b>NONE</b>	<b>NONE</b>	<b>0.56</b>	<b>46</b>			<b>46</b>	<b>YES</b>	<b>YES</b>					<b>46</b>	<b>2.98</b>
28	1,1-Dichloroethane	µg/L	0.6	<0.5	NONE	NONE	NONE	NONE	5		5	NO	Go to Tier 2		No	NO	NO		
29	1,2-dichloroethane		0.6	<0.5	NONE	NONE	0.38	99	0.5		0.5	NO	Go to Tier 2		No	NO	NO		
30	1,1-Dichloroethylene	µg/L	0.6	<0.5	NONE	NONE	0.057	3.2	6		3.2	NO	Go to Tier 2		No	NO	NO		
31	1,2-dichloropropane	µg/L	0.6	<0.5	NONE	NONE	0.52	39	5		5	NO	Go to Tier 2		No	NO	NO		
32	1,3-dichloropropylene	µg/L	0.6	<0.1	NONE	NONE	10	1,700	0.5		0.5	NO	Go to Tier 2		No	NO	NO		
33	Ethylbenzene	µg/L	0.6	<0.1	NONE	NONE	3100	29,000	0.7		0.7	NO	Go to Tier 2		No	NO	NO		
34	Methyl bromide	µg/L	0.6	<1	NONE	NONE	48	4,000			4,000	NO	Go to Tier 2	1	No	NO	NO		
35	Methyl chloride	µg/L	0.6	<0.1	NONE	NONE	Narrative	Narrative			Narrative	No Criteria Available	Go to Tier 2		No data	NO	NO		

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			MDEL hh	ECA acute multiplier (p.7)	Freshwater			Lowest LTA	Freshwater			Lowest AMEL	Lowest MDEL			
					LTA acute	ECA chronic multiplier	LTA chronic		AMEL multiplier (n=4)	AMEL aq.life	MDEL multiplier (n=4)			MDEL aqlife		
16	2,3,7,8-TCDD (Dioxin)	µg/L	2.576E-08													Interim Quarterly Monitoring - No Limit
17	Acrolein	µg/L														Interim Monitoring - No Limit
18	Acrylonitrile	µg/L														Interim Monitoring - No Limit
19	<b>Benzene</b>	<b>µg/L</b>												<b>1</b> --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
20	Bromoform	µg/L														Interim Monitoring - No Limit
21	Carbon Tetrachloride	µg/L														Interim Monitoring - No Limit
22	Chlorobenzene	µg/L														Interim Monitoring - No Limit
23	<b>Dibromochloromethane</b>	<b>µg/L</b>	<b>106.08</b>											<b>34</b>	<b>106</b>	<b>Need Limit (Tier 1). Based on CTR Human health organisms only.</b>
24	Chloroethane	µg/L														No Limit - No Criteria Available
25	2-chloroethyl vinyl ether	µg/L														No Limit - No Criteria Available
26	Chloroform	µg/L														No Limit - No Criteria Available
27	<b>Dichlorobromomethane</b>	<b>µg/L</b>	<b>137.08</b>											<b>46</b>	<b>137</b>	<b>Need Limit (Tier 1). Based on CTR Human health organisms only.</b>
28	1,1-Dichloroethane	µg/L														Interim Monitoring - No Limit
29	1,2-dichloroethane	µg/L														Interim Monitoring - No Limit
30	1,1-Dichloroethylene	µg/L														Interim Monitoring - No Limit
31	1,2-dichloropropane	µg/L														Interim Monitoring - No Limit
32	1,3-dichloropropylene	µg/L														Interim Monitoring - No Limit
33	Ethylbenzene	µg/L														Interim Monitoring - No Limit
34	Methyl bromide	µg/L														Interim Monitoring - No Limit
35	Methyl chloride	µg/L														No Limit - No Criteria Available

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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											
36	Methylene chloride (Dichloromethane)	µg/L	0.6	<0.1	NONE	NONE	4.7	1,600		1,600	NO	Go to Tier 2		No	NO	NO			
37	1,1,2,2-tetrachloroethane	µg/L	0.6	<0.1	NONE	NONE	0.17	11	1	1	NO	Go to Tier 2		No	NO	NO			
38	Tetrachloroethylene	µg/L	0.6	6	NONE	NONE	0.8	8.85	5	5	YES	YES							
39	Toluene	µg/L	0.6	<0.1	NONE	NONE	6800	200,000	150	150	NO	Go to Tier 2		No	NO	NO			
40	Trans 1,2-Dichloroethylene	µg/L	0.6	<0.1	NONE	NONE	700	140,000	10	10	NO	Go to Tier 2		No	NO	NO			
41	1,1,1-Trichloroethane	µg/L	0.6	<0.1	NONE	NONE	Narrative	Narrative	200	200	NO	Go to Tier 2		No	NO	NO			
42	1,1,2-trichloroethane	µg/L	0.6	<0.1	NONE	NONE	0.6	42	5	5	NO	Go to Tier 2		No	NO	NO			
43	Trichloroethylene	µg/L	0.6	<0.1	NONE	NONE	2.7	81	5	5	NO	Go to Tier 2		No	NO	NO			
44	Vinyl chloride	µg/L	0.6	<0.5	NONE	NONE	2	525	0.5	0.5	NO	Go to Tier 2		No	NO	NO			
45	2-chlorophenol	µg/L	0.6	5.2	NONE	NONE	120	400		400	NO	Go to Tier 2		No	NO	NO			
46	2,4-dichlorophenol	µg/L	0.6	<5	NONE	NONE	93	790		790	NO	Go to Tier 2		No	NO	NO			
47	2,4-dimethylphenol	µg/L	0.6	<2	NONE	NONE	540	2,300		2,300	NO	Go to Tier 2		No	NO	NO			
48	4,6-dinitro-o-resol (aka 2-methyl-4,6-Dinitrophenol)	µg/L	0.6	<5	NONE	NONE	13.4	765		765	NO	Go to Tier 2		No	NO	NO			
49	2,4-dinitrophenol	µg/L	0.6	<10	NONE	NONE	70	14,000		14,000	NO	Go to Tier 2		No	NO	NO			
50	2-nitrophenol	µg/L	0.6	<3	NONE	NONE	NONE	NONE		None	No Criteria Available	Go to Tier 2		No	NO	NO			
51	4-nitrophenol	µg/L	0.6	<3	NONE	NONE	NONE	NONE		None	No Criteria Available	Go to Tier 2		No	NO	NO			
52	3-Methyl-4-Chlorophenol (aka P-chloro-m-resol)	µg/L	0.6	<5	NONE	NONE	NONE	NONE		None	No Criteria Available	Go to Tier 2		No	NO	NO			
53	Pentachlorophenol	µg/L	0.6	<5	29	22	0.28	8.2	1	1	NO	Go to Tier 2		No	NO	NO			

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			MDEL hh	ECA acute multiplier (p.7)	Freshwater			Lowest LTA	Freshwater			Lowest AMEL	Lowest MDEL			
					LTA acute	ECA chronic multiplier	LTA chronic		AMEL multiplier (n=4)	AMEL aq.life	MDEL multiplier (n=4)			MDEL aqlife		
36	Methylene chloride (Dichloromethane)	µg/L												5 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
37	1,1,2,2-tetrachloroethane	µg/L														Interim Monitoring - No Limit
38	Tetrachloroethylene	µg/L												5 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
39	Toluene	µg/L												150 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
40	Trans 1,2-Dichloroethylene	µg/L														Interim Monitoring - No Limit
41	1,1,1-Trichloroethane	µg/L														Interim Monitoring - No Limit
42	1,1,2-trichloroethane	µg/L														Interim Monitoring - No Limit
43	Trichloroethylene	µg/L														Interim Monitoring - No Limit
44	Vinyl chloride	µg/L														Interim Monitoring - No Limit
45	2-chlorophenol	µg/L														Interim Monitoring - No Limit
46	2,4-dichlorophenol	µg/L												93 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
47	2,4-dimethylphenol	µg/L														Interim Monitoring - No Limit
48	4,6-dinitro-o-resol (aka 2-methyl-4,6-Dinitrophenol)	µg/L														Interim Monitoring - No Limit
49	2,4-dinitrophenol	µg/L														Interim Monitoring - No Limit
50	2-nitrophenol	µg/L														No Criteria Available
51	4-nitrophenol	µg/L														No Criteria Available
52	3-Methyl-4-Chlorophenol (aka P-chloro-m-resol)	µg/L												300 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
53	Pentachlorophenol	µg/L												1 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.

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					C acute = CMC tot	C chronic = CCC tot	Not applicable C hh W&O	C hh O											
54	Phenol	µg/L	0.6	<2	NONE	NONE	21,000	4.6x10^6		4.6x10^6	NO	Go to Tier 2			No	NO	NO		
55	2,4,6-trihlorophenol	µg/L	0.6	<3	NONE	NONE	2.1	6.5		6.5	NO	Go to Tier 2			No	NO	NO		
56	Acenaphthene	µg/L	0.6	<2	NONE	NONE	1200	2,700		2,700	NO	Go to Tier 2			No	NO	NO		
57	Acenaphthylene	µg/L	0.6	<2	NONE	NONE	NONE	NONE		NONE	No Criteria Available	Go to Tier 2			No	NO	NO		
58	Anthracene	µg/L	0.6	<2	NONE	NONE	9600	110,000		110,000	NO	Go to Tier 2			No	NO	NO		
59	Benzidine	µg/L	0.6	<4	NONE	NONE	0.00012	0.00054		0.00054	ND>C	Go to Tier 2			No	NO	NO		
60	Benzo(a)Anthracene	µg/L	0.6	<2	NONE	NONE	0.0044	0.049		0.049	ND>C	Go to Tier 2			No	NO	NO		
61	Benzo(a)Pyrene	µg/L	0.6	<2	NONE	NONE	0.0044	0.049		0.049	NO	Go to Tier 2			No	NO	NO		
62	Benzo(b)Fluoranthene	µg/L	0.6	<2	NONE	NONE	0.0044	0.049		0.049	NO	Go to Tier 2			No	NO	NO		
63	Benzo(ghi)Perylene	µg/L	0.6	<2	NONE	NONE	NONE	NONE		NONE	No Criteria Available	Go to Tier 2			No	NO	NO		
64	Benzo(k)Fluoranthene	µg/L	0.6	<2	NONE	NONE	0.0044	0.049		0.049	NO	Go to Tier 2			No	NO	NO		
65	Bis(2-Chloroethoxy) methane	µg/L	0.6	<2	NONE	NONE	NONE	NONE		NONE	No Criteria Available	Go to Tier 2			No	NO	NO		
66	Bis(2-Chloroethyl)Ether	µg/L	0.6	<2	NONE	NONE	0.031	1.4		1.4	NO	Go to Tier 2			No	NO	NO		
67	Bis(2-Chloroisopropyl) Ether	µg/L	0.6	<2	NONE	NONE	1400	170,000		170,000	NO	Go to Tier 2			No	NO	NO		
68	Bis(2-Ethylhexyl) Phthalate	µg/L	0.6	1300	NONE	NONE	1.8	5.9	4	4	YES	YES	5	YES	YES				
69	4-Bromophenyl Phenyl Ether	µg/L	0.6	<2	NONE	NONE	NONE	NONE		NONE	No Criteria Available	Go to Tier 2			No	NO	NO		
70	Butylbenzyl Phthalate	µg/L	0.6	<2	NONE	NONE	3000	5,200		5,200	NO	Go to Tier 2			No	NO	NO		
71	2-Chloronaphthalene	µg/L	0.6	<2	NONE	NONE	1700	4,300		4,300	NO	Go to Tier 2			No	NO	NO		
72	4-Chlorophenyl Phenyl Ether	µg/L	0.6	<2	NONE	NONE	NONE	NONE		NONE	No Criteria Available	Go to Tier 2			No	NO	NO		
73	Chrysene	µg/L	0.6	<2	NONE	NONE	0.0044	0.049		0.049	NO	Go to Tier 2			No	NO	NO		

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					LTA acute	ECA chronic multiplier	LTA chronic		AMEL multiplier (n=4)	AMEL aq.life	MDEL multiplier (n=4)			MDEL aqlife		
54	Phenol	µg/L												300 --		Retain existing limit from Order 96-044, for protection of GWR & Antibacksliding.
55	2,4,6-trihlorophenol	µg/L												2.1 --		Retain existing limit from Order 96-044, for protection of GWR & Antibacksliding.
56	Acenaphthene	µg/L														Interim Monitoring - No Limit
57	Acenaphthylene	µg/L														No Criteria Available
58	Anthracene	µg/L														Interim Monitoring - No Limit
59	Benzidine	µg/L														Interim Monitoring - No Limit
60	Benzo(a)Anthracene	µg/L														Interim Monitoring - No Limit
61	Benzo(a)Pyrene	µg/L														Interim Monitoring - No Limit
62	Benzo(b)Fluoranthene	µg/L														Interim Monitoring - No Limit
63	Benzo(ghi)Perylene	µg/L														No Criteria Available
64	Benzo(k)Fluoranthene	µg/L														Interim Monitoring - No Limit
65	Bis(2-Chloroethoxy) methane	µg/L														No Criteria Available
66	Bis(2-Chloroethyl)Ether	µg/L														Interim Monitoring - No Limit
67	Bis(2-Chloroisopropyl) Ether	µg/L														Interim Monitoring - No Limit
68	Bis(2-Ethylhexyl) Phthalate	µg/L												4 --		<b>Need limit (Tier2) RPA to exceed Basin Plan water quality objective</b>
69	4-Bromophenyl Phenyl Ether	µg/L														No Criteria Available
70	Butylbenzyl Phthalate	µg/L														Interim Monitoring - No Limit
71	2-Chloronaphthalene	µg/L														Interim Monitoring - No Limit
72	4-Chlorophenyl Phenyl Ether	µg/L														No Criteria Available
73	Chrysene	µg/L														Interim Monitoring - No Limit



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**(CA0056294, CI#4917)**

CTR#	DATE	Units	CV	MEC	CTR CRITERIA				Basin Plan	REASONABLE POTENTIAL ANALYSIS (RPA)							HUMAN HEALTH CALCULATIONS		
					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											
74	Dibenzo(a,h)Anthracene	µg/L	0.6	<2	NONE	NONE	0.0044	0.049		0.049	NO	Go to Tier 2		No	NO	NO			
75	1,2-Dichlorobenzene	µg/L	0.6	<0.1	NONE	NONE	2700	17,000	600	600	NO	Go to Tier 2		No	NO	NO			
76	1,3-Dichlorobenzene	µg/L	0.6	<0.1	NONE	NONE	400	2,600		2,600	NO	Go to Tier 2		No	NO	NO			
77	1,4-Dichlorobenzene	µg/L	0.6	<0.1	NONE	NONE	400	2,600	5	5	NO	Go to Tier 2		No	NO	NO			
78	3,3'-Dichlorobenzidine	µg/L	0.6	<10	NONE	NONE	0.04	0.077		0.077	ND>C	Go to Tier 2		No	NO	NO			
79	Diethyl Phthalate	µg/L	0.6	9.6	NONE	NONE	23000	120,000		120,000	NO	Go to Tier 2		No	NO	NO			
80	Dimethyl Phthalate	µg/L	0.6	<2	NONE	NONE	313000	2,900,000		2.9x10^6	NO	Go to Tier 2		No	NO	NO			
81	Di-n-Butyl Phthalate	µg/L	0.6	<2	NONE	NONE	2700	12,000		12,000	NO	Go to Tier 2	0.51	No	NO	NO			
82	2,4-Dinitrotoluene	µg/L	0.6	<2	NONE	NONE	0.11	9.1		9.1	NO	Go to Tier 2		No	NO	NO			
83	2,6-Dinitrotoluene	µg/L	0.6	<2	NONE	NONE	NONE	NONE		NONE	No Criteria Available	Go to Tier 2		No	NO	NO			
84	Di-n-Octyl Phthalate	µg/L	0.6	<2	NONE	NONE	NONE	NONE		NONE	No Criteria Available	Go to Tier 2		No	NO	NO			
85	1,2-Diphenylhydrazine	µg/L	0.6	<2	NONE	NONE	0.04	0.54		0.54	NO	Go to Tier 2			NO	NO			
86	Fluoranthene	µg/L	0.6	<2	NONE	NONE	300	370		370	NO	Go to Tier 2		No	NO	NO			
87	Fluorene	µg/L	0.6	<10	NONE	NONE	1300	14,000		14,000	NO	Go to Tier 2		No	NO	NO			
88	Hexachlorobenzene	µg/L	0.6	<2	NONE	NONE	0.00075	0.00077		0.00077	ND>C	Go to Tier 2		No	NO	NO			
89	Hexachlorobutadiene	µg/L	0.6	<1	NONE	NONE	0.44	50		50	NO	Go to Tier 2		No	NO	NO			
90	Hexachlorocyclopentadiene	µg/L	0.6	<5	NONE	NONE	240	17,000		17,000	NO	Go to Tier 2		No	NO	NO			
91	Hexachloroethane	µg/L	0.6	<2	NONE	NONE	1.9	8.9		8.9	NO	Go to Tier 2		No	NO	NO			
92	Indeno(1,2,3-cd)Pyrene	µg/L	0.6	<2	NONE	NONE	0.0044	0.049		0.049	NO	Go to Tier 2		No	NO	NO			
93	Isophorone	µg/L	0.6	<2	NONE	NONE	8.4	600		600	NO	Go to Tier 2		No	NO	NO			

**TABLE R1**  
**City of Thousand Oaks**  
**Hill Canyon Wastewater Treatment Plant**  
**(CA0056294, CI#4917)**

CTR#	DATE	Units	RELATIONS		AQUATIC LIFE CALCULATIONS					AQUATIC LIFE CALCULATIONS				PROPOSED LIMITS		Recommendation
			MDEL hh	ECA acute multiplier (p.7)	Freshwater			Lowest LTA	Freshwater			Lowest AMEL	Lowest MDEL			
					LTA acute	ECA chronic multiplier	LTA chronic		AMEL multiplier (n=4)	AMEL aq.life	MDEL multiplier (n=4)			MDEL aqlife		
74	Dibenzo(a,h)Anthracene	µg/L														Interim Monitoring - No Limit
75	1,2-Dichlorobenzene	µg/L												600 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
76	1,3-Dichlorobenzene	µg/L												600 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
77	1,4-Dichlorobenzene	µg/L												5 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
78	3,3'-Dichlorobenzidine	µg/L														Interim Monitoring - No Limit
79	Diethyl Phthalate	µg/L														Interim Monitoring - No Limit
80	Dimethyl Phthalate	µg/L														Interim Monitoring - No Limit
81	Di-n-Butyl Phthalate	µg/L														Interim Monitoring - No Limit
82	2,4-Dinitrotoluene	µg/L														Interim Monitoring - No Limit
83	2,6-Dinitrotoluene	µg/L														No Criteria Available
84	Di-n-Octyl Phthalate	µg/L														No Criteria Available
85	1,2-Diphenylhydrazine	µg/L														Interim Monitoring - No Limit
86	Fluoranthene	µg/L												300 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
87	Fluorene	µg/L														Interim Monitoring - No Limit
88	Hexachlorobenzene	µg/L														Interim Monitoring - No Limit
89	Hexachlorobutadiene	µg/L														Interim Monitoring - No Limit
90	Hexachlorocyclopentadiene	µg/L														Interim Monitoring - No Limit
91	Hexachloroethane	µg/L														Interim Monitoring - No Limit
92	Indeno(1,2,3-cd)Pyrene	µg/L														Interim Monitoring - No Limit
93	Isophorone	µg/L														Interim Monitoring - No Limit

**TABLE R1**  
**City of Thousand Oaks**  
**Hill Canyon Wastewater Treatment Plant**  
**(CA0056294, CI#4917)**

CTR#	DATE	Units	CV	MEC	CTR CRITERIA				Basin Plan	REASONABLE POTENTIAL ANALYSIS (RPA)							HUMAN HEALTH CALCULATIONS		
					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											
94	Napthalene	µg/L	0.6	<2	NONE	NONE	NONE	NONE		NONE	No Criteria Available	Go to Tier 2		No	NO	NO			
95	Nitrobenzene	µg/L	0.6	<2	NONE	NONE	17	1,900		1,900	NO	Go to Tier 2		No	NO	NO			
96	N-Nitrosodimethylamine	µg/L	0.6	<1	NONE	NONE	0.00069	8.1		8.1	NO	Go to Tier 2		No	NO	NO			
97	N-Nitrosodi-n-Propylamine	µg/L	0.6	<1	NONE	NONE	0.005	1.4		1.4	NO	Go to Tier 2		No	NO	NO			
98	N-Nitrosodiphenylamine	µg/L	0.6	<1	NONE	NONE	5	16		16	NO	Go to Tier 2		No	NO	NO			
99	Phenanthrene	µg/L	0.6	<2	NONE	NONE	NONE	NONE		NONE	No Criteria Available	Go to Tier 2		NA	NO	NO			
100	Pyrene	µg/L	0.6	<2	NONE	NONE	960	11,000		11,000	NO	Go to Tier 2		No	NO	NO			
101	1,2,4-Trichlorobenzene	µg/L	0.6	<2	NONE	NONE	NONE	NONE		NONE	No Criteria Available	Go to Tier 2		NA	NO	NO			
102	Aldrin	µg/L		<0.001		3	NONE	0.00013	0.00014		0.00014	ND>C	Go to Tier 2		No	NO	NO		
103	alpha-BHC	µg/L		<0.01	NONE	NONE	0.0039	0.013		0.013	NO	Go to Tier 2		No	NO	NO			
104	beta-BHC	µg/L		<0.003	NONE	NONE	0.014	0.046		0.046	NO	Go to Tier 2		No	NO	NO			
105	gamma-BHC (aka Lindane)	µg/L	0.6	0.0128	0.95	NONE	0.019	0.063	0.2	0.063	NO	Go to Tier 2		No	NO	NO			
106	delta-BHC	µg/L	0.6	<0.001	NONE	NONE	NONE	NONE		NONE	No Criteria Available	Go to Tier 2		No	NO	NO			
107	Chlordane	µg/L	0.6	<0.01		2.4	0.0043	0.00057	0.00059		0.00059	ND>C	Go to Tier 2		No	NO	NO		
108	4,4'-DDT	µg/L	0.6	<0.001		1.1	0.001	0.00059	0.00059		0.00059	ND>C	Go to Tier 2		No	NO	NO		
109	4,4'-DDE	µg/L	0.6	0.26	NONE	NONE	0.00059	0.00059		0.00059	YES	YES					0.00059	2.01	
110	4,4'-DDD	µg/L	0.6	0.02	NONE	NONE	0.00083	0.00084		0.00084	YES	YES					0.00084	2.01	

**TABLE R1**  
**City of Thousand Oaks**  
**Hill Canyon Wastewater Treatment Plant**  
**(CA0056294, CI#4917)**

CTR#	DATE	Units	RELATIONS		AQUATIC LIFE CALCULATIONS					AQUATIC LIFE CALCULATIONS				PROPOSED LIMITS		Recommendation
			MDEL hh	ECA acute multiplier (p.7)	Freshwater			Lowest LTA	Freshwater			Lowest AMEL	Lowest MDEL			
					LTA acute	ECA chronic multiplier	LTA chronic		AMEL multiplier (n=4)	AMEL aq.life	MDEL multiplier (n=4)			MDEL aqlife		
94	Napthalene	µg/L														No Criteria Available
95	Nitrobenzene	µg/L														Interim Monitoring - No Limit
96	N-Nitrosodimethylamine	µg/L														Interim Monitoring - No Limit
97	N-Nitrosodi-n-Propylamine	µg/L														Interim Monitoring - No Limit
98	N-Nitrosodiphenylamine	µg/L														Interim Monitoring - No Limit
99	Phenanthrene	µg/L														Interim Monitoring - No Limit
100	Pyrene	µg/L														Interim Monitoring - No Limit
101	1,2,4-Trichlorobenzene	µg/L														Interim Monitoring - No Limit
102	Aldrin	µg/L												3 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
103	alpha-BHC	µg/L												0.7 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
104	beta-BHC	µg/L												0.3 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
105	gamma-BHC (aka Lindane)	µg/L												0.2 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
106	delta-BHC	µg/L														Interim Monitoring - No Limit
107	Chlordane	µg/L												0.1 --		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
108	4,4'-DDT	µg/L														Interim Monitoring - No Limit
109	4,4' -DDE	µg/L	0.0011859											0.00059	0.0012	<b>Need limit (Tier1). Based on CTR Human health organisms only.</b>
110	4,4' -DDD	µg/L	0.0016884											0.00084	0.0017	<b>Need limit (Tier1). Based on CTR Human health organisms only.</b>

**TABLE R1**  
**City of Thousand Oaks**  
**Hill Canyon Wastewater Treatment Plant**  
**(CA0056294, CI#4917)**

CTR#	DATE	Units	CV	MEC	CTR CRITERIA				Basin Plan	REASONABLE POTENTIAL ANALYSIS (RPA)							HUMAN HEALTH CALCULATIONS		
					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											
111	Dieldrin	µg/L	0.6	<0.001	0.24	0.056	0.00014	0.00014		0.00014	ND>C	Go to Tier 2		No	NO	NO			
112	alpha-Endosulfan	µg/L	0.6	<0.001	0.22	0.056	110	240		0.056	NO	Go to Tier 2		No	NO	NO			
113	beta-Endosulfan	µg/L	0.6	<0.001	0.22	0.056	110	240		0.056	NO	Go to Tier 2		No	NO	NO			
114	Endosulfan Sulfate	µg/L	0.6	0.05	NONE	NONE	110	240		240	NO	Go to Tier 2		No	NO	NO			
115	Endrin	µg/L	0.6	<0.005	0.086	0.036	0.76	0.81		0.036	NO	Go to Tier 2		No	NO	NO			
116	Endrin Aldehyde	µg/L	0.6	<0.01	NONE	NONE	0.76	0.81		0.81	NO	Go to Tier 2		No	NO	NO			
117	Heptachlor	µg/L	0.6	<0.001	0.52	0.0038	0.00021	0.00021		0.00021	ND>C	Go to Tier 2		No	NO	NO			
118	Heptachlor Epoxide	µg/L	0.6	<0.01	0.52	0.0038	0.0001	0.00011		0.00011	ND>C	Go to Tier 2		No	NO	NO			
	Polychlorinated biphenyls (PCBs)	µg/L													NO	NO			
119	Aroclor 1016	µg/L	0.6	<0.1	NONE	0.014	0.00017	0.00017		0.00017	ND>C	Go to Tier 2		No	NO	NO			
120	Aroclor 1221	µg/L	0.6	<0.1	NONE	0.014	0.00017	0.00017		0.00017	ND>C	Go to Tier 2		No	NO	NO			
121	Aroclor 1232	µg/L	0.6	<0.1	NONE	0.014	0.00017	0.00017		0.00017	ND>C	Go to Tier 2		No	NO	NO			
122	Aroclor 1242	µg/L	0.6	<0.1	NONE	0.014	0.00017	0.00017		0.00017	ND>C	Go to Tier 2		No	NO	NO			
123	Aroclor 1248	µg/L	0.6	<0.1	NONE	0.014	0.00017	0.00017		0.00017	ND>C	Go to Tier 2		No	NO	NO			
124	Aroclor 1254	µg/L	0.6	<0.1	NONE	0.014	0.00017	0.00017		0.00017	NO	NO							
125	Aroclor 1260	µg/L	0.6	<1	NONE	0.014	0.00017	0.00017		0.00017	ND>C	Go to Tier 2		No	NO	NO			
126	Toxaphene	µg/L	0.6	<0.01	0.73	0.0002	0.0073	0.00075		0.00075	ND>C	Go to Tier 2		No	NO	NO			
	Barium	µg/L							1000										
	Iron	µg/L							300										

**TABLE R1**  
**City of Thousand Oaks**  
**Hill Canyon Wastewater Treatment Plant**  
**(CA0056294, CI#4917)**

CTR#	DATE	Units	RELATIONS		AQUATIC LIFE CALCULATIONS					AQUATIC LIFE CALCULATIONS				PROPOSED LIMITS		Recommendation
			MDEL hh	ECA acute multiplier (p.7)	Freshwater			Lowest LTA	Freshwater			Lowest AMEL	Lowest MDEL			
					LTA acute	ECA chronic multiplier	LTA chronic		AMEL multiplier (n=4)	AMEL aq.life	MDEL multiplier (n=4)			MDEL aqlife		
111	Dieldrin	µg/L												2.5	--	Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
112	alpha-Endosulfan	µg/L														Interim Monitoring - No Limit
113	beta-Endosulfan	µg/L														Interim Monitoring - No Limit
114	Endosulfan Sulfate	µg/L														Interim Monitoring - No Limit
115	Endrin	µg/L												2	---	Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
116	Endrin Aldehyde	µg/L														Interim Monitoring - No Limit
117	Heptachlor	µg/L												0.01	--	Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
118	Heptachlor Epoxide	µg/L												0.01	--	Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
	Polychlorinated biphenyls (PCBs)	µg/L														Interim Monitoring - No Limit
119	Aroclor 1016	µg/L														Interim Monitoring - No Limit
120	Aroclor 1221	µg/L														Interim Monitoring - No Limit
121	Aroclor 1232	µg/L														Interim Monitoring - No Limit
122	Aroclor 1242	µg/L														Interim Monitoring - No Limit
123	Aroclor 1248	µg/L														Interim Monitoring - No Limit
124	Aroclor 1254	µg/L														Interim Monitoring - No Limit
125	Aroclor 1260	µg/L														Interim Monitoring - No Limit
126	Toxaphene	µg/L												3	---	Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
	Barium	µg/L												1000	---	Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
	Iron	µg/L												300	---	Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.

**TABLE R1**  
**City of Thousand Oaks**  
**Hill Canyon Wastewater Treatment Plant**  
**(CA0056294, CI#4917)**

CTR#	DATE	Units	CV	MEC	CTR CRITERIA				Basin Plan	REASONABLE POTENTIAL ANALYSIS (RPA)							HUMAN HEALTH CALCULATIONS		
					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 applicable C hh W&O	C hh O										AMELhh = ECA = C hh O	MDEL/ AMEL multiplier
	Methoxychlor	µg/L							40										
	2,4-D	µg/L							100										
	2,4,5-TP (Silvex)	µg/L							10										
	Aluminum	µg/L																	
	Manganese	µg/L																	
	Tributyltin	µg/L																	
	Halomethanes	µg/L							80										
FOOTNOTE:																			
*	<p>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.</p>																		

**TABLE R1**  
**City of Thousand Oaks**  
**Hill Canyon Wastewater Treatment Plant**  
**(CA0056294, CI#4917)**

CTR#	DATE	Units	CALCULATIONS		AQUATIC LIFE CALCULATIONS					AQUATIC LIFE CALCULATIONS				PROPOSED LIMITS		Recommendation
			MDEL hh	ECA acute multiplier (p.7)	Freshwater			Lowest LTA	Freshwater			Lowest AMEL	Lowest MDEL			
					LTA acute	ECA chronic multiplier	LTA chronic		AMEL multiplier (n=4)	AMEL aq.life	MDEL multiplier (n=4)			MDEL aqlife		
	Methoxychlor	µg/L												40 ---		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
	2,4-D	µg/L												70 ---		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
	2,4,5-TP (Silvex)	µg/L												50 ---		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
	Aluminum	µg/L												1000 ---		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
	Manganese	µg/L												50 ---		Retain existing limit from Order 96-044, for protection of GWR & Antibracksliding.
	Tributyltin	µg/L												0.026 ---		Retain existing limit from Order 96-044, 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.															