Castaic Lake Water Agency
Salt and Nutrient Management Plan
Santa Clara River Valley East Subbasin

Table 1a

Summary of Assimilative Capacity Changes for TDS, No Project, Single Project and All Projects

Agency Proponent	Description		Management Zone 1a	Management Zone 1b	Management Zone 2*	Management Zone 3*	Management Zone 4	Management Zone 5	Management Zone 6
2001-2011 Conditions	Water Quality Objective (mg/L)		800	800	700	700	700	1,000	700
	Average (Ambient) Conc. (mg/L)		728	833	-	-	710	727	636
	Current Assimilative Capacity		72	-33	-	-	-10	273	64
No Project** (2012-2035)	"No-Project" Average Conc. (mg/L)	Average Conc. (mg/L)	739	790	978	790	709	728	636
		Assimilative Capacity	61	10	-278	-90	-9	272	64
		Assimilative Capacity Used (Percentage)	-15%	129%	-	-	12%	0%	-1%
SCVSD Treatment Plant Revision (2012-2035)	Single Project Average Conc. (mg/L)	Average Conc. (mg/L)	739	790	978	790	709	728	636
		Assimilative Capacity	61	10	-278	-90	-9	272	64
		Assimilative Capacity Used (Percentage)	-15%	129%	-	-	12%	0%	-1%
SCWD Water Use Efficiency Programs (2014-2020)	Single Project Average Conc. (mg/L)	Average Conc. (mg/L)	720	787	961	784	694	728	636
		Assimilative Capacity	80	13	-261	-84	6	272	64
		Assimilative Capacity Used (Percentage)	10%	141%	-	-	158%	0%	0%
Vista Canyon Water Reclamation Plant (2014-2019)	Single Project Average Conc. (mg/L)	Average Conc. (mg/L)	741	791	978	790	710	728	636
		Assimilative Capacity	59	9	-278	-90	-10	272	64
		Assimilative Capacity Used (Percentage)	-18%	128%	-	-	2%	0%	-1%
CLWA Recycled Water Master Plan (2014-2035)	Single Project Average Conc. (mg/L)	Average Conc. (mg/L)	739	790	978	810	717	728	636
		Assimilative Capacity	61	10	-278	-110	-17	272	64
		Assimilative Capacity Used (Percentage)	-15%	129%	-	-	-67%	0%	-1%
CLWA SCV WUE SP (2012-2035)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	733	789	965	778	702	717	636
		Assimilative Capacity	67	11	-265	-78	-2	283	64
		Assimilative Capacity Used (Percentage)	-7%	133%	-	-	85%	3%	0%
Newhall Water Reclamation Plant (2023-2033)	Single Project Average Conc. (mg/L)	Average Conc. (mg/L)	739	790	978	791	709	729	637
		Assimilative Capacity	61	10	-278	-91	-9	271	63
		Assimilative Capacity Used (Percentage)	-15%	129%	-	-	12%	-1%	-1%
All Projects (2012-2035)	"All-Projects" Average Conc. (mg/L)	Average Conc. (mg/L)	717	786	948	791	703	719	636
		Assimilative Capacity	83	14	-248	-91	-3	281	64
		Assimilative Capacity Used (Percentage)	14%	143%	-	-	70%	3%	-1%

Note: A positive percentage represents an increase in assimilative capacity while a negative percentage indicates a decrease.
*** Due to the limited data available for Management Zones 2 and 3, the values in this table should be considered speculative. The values will be refined in the future when sufficient data is available.**
**** No Project = Land Use Build-Out Condition Only**

Castaic Lake Water Agency
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Table 1b

Summary of Assimilative Capacity Changes for Chloride, No Project, Single Project and All Projects

Agency Proponent	Description		Management Zone 1a	Management Zone 1b	Management Zone 2*	Management Zone 3*	Management Zone 4	Management Zone 5	Management Zone 6
2001-2011 Conditions	Water Quality Objective (mg/L)		150	150	100	100	100	150	100
	Average (Ambient) Conc. (mg/L)		89	72	-	-	77	77	28
	Current Assimilative Capacity		61	78	-	-	23	73	72
No Project** (2012-2035)	"No-Project" Average Conc. (mg/L)	Average Conc. (mg/L)	89	72	109	79	93	79	46
		Assimilative Capacity	61	78	-9	21	7	71	54
		Assimilative Capacity Used (Percentage)	0%	0%	-	-	-71%	-3%	-24%
SCVSD Treatment Plant Revision (2012-2035)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	89	72	109	79	90	79	46
		Assimilative Capacity	61	78	-9	21	10	71	54
		Assimilative Capacity Used (Percentage)	0%	0%	-	-	-56%	-3%	-24%
SCWD Water Use Efficiency Programs (2014-2020)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	86	71	107	78	91	79	46
		Assimilative Capacity	64	79	-7	22	9	71	54
		Assimilative Capacity Used (Percentage)	5%	1%	-	-	-61%	-3%	-24%
Vista Canyon Water Reclamation Plant (2014-2019)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	89	72	109	79	93	79	46
		Assimilative Capacity	61	78	-9	21	7	71	54
		Assimilative Capacity Used (Percentage)	0%	0%	-	-	-71%	-3%	-24%
CLWA Recycled Water Master Plan (2014-2035)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	89	72	109	83	95	79	46
		Assimilative Capacity	61	78	-9	17	5	71	54
		Assimilative Capacity Used (Percentage)	0%	0%	-	-	-77%	-3%	-24%
CLWA Recycled Water Master Plan Chloride Sensitivity Analysis (2014-2035)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	89	72	109	84	95	79	46
		Assimilative Capacity	61	78	-9	16	5	71	54
		Assimilative Capacity Used (Percentage)	0%	0%	-	-	-80%	-3%	-24%
CLWA SCV WUE SP (2012-2035)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	88	72	107	77	92	78	46
		Assimilative Capacity	62	78	-7	23	8	72	54
		Assimilative Capacity Used (Percentage)	2%	1%	-	-	-66%	0%	-24%
Newhall Water Reclamation Plant (2023-2033)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	89	72	109	79	93	80	46
		Assimilative Capacity	61	78	-9	21	7	70	54
		Assimilative Capacity Used (Percentage)	0%	0%	-	-	-71%	-4%	-25%
All Projects (2012-2035)	"All-Projects" Average Conc. (mg/L)	Average Conc. (mg/L)	85	71	106	81	88	75	46
		Assimilative Capacity	65	79	-6	19	12	75	54
		Assimilative Capacity Used (Percentage)	6%	1%	-	-	-49%	3%	-25%
All Projects Chloride Sensitivity Analysis (2012-2035)	"All-Projects" Average Conc. (mg/L)	Average Conc. (mg/L)	85	71	106	82	89	75	46
		Assimilative Capacity	65	79	-6	18	11	75	54
		Assimilative Capacity Used (Percentage)	6%	1%	-	-	-52%	3%	-25%

Note: A positive percentage represents an increase in assimilative capacity while a negative percentage indicates a decrease.
*** Due to the limited data available for Management Zones 2 and 3, the values in this table should be considered speculative. The values will be refined in the future when sufficient data is available.**
**** No Project = Land Use Build-Out Condition Only**

Castaic Lake Water Agency
Salt and Nutrient Management Plan
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Table 1c

Summary of Assimilative Capacity Changes for Nitrate, No Project, Single Project and All Projects

Agency Proponent	Description		Management Zone 1a	Management Zone 1b	Management Zone 2*	Management Zone 3*	Management Zone 4	Management Zone 5	Management Zone 6
2001-2011 Conditions	Water Quality Objective (mg/L)		45	45	45	45	45	45	45
	Average (Ambient) Conc. (mg/L)		20	21	-	-	16	8	14
	Current Assimilative Capacity		25	24	-	-	29	37	31
No Project** (2012-2035)	"No-Project" Average Conc. (mg/L)	Average Conc. (mg/L)	19	23	28	19	19	11	19
		Assimilative Capacity	26	22	17	26	26	34	26
		Assimilative Capacity Used (Percentage)	3%	-9%	-	-	-10%	-8%	-17%
SCVSD Treatment Plant Revision (2012-2035)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	19	23	28	19	19	11	19
		Assimilative Capacity	26	22	17	26	26	34	26
		Assimilative Capacity Used (Percentage)	3%	-9%	-	-	-10%	-8%	-17%
SCWD Water Use Efficiency Programs (2014-2020)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	19	23	28	19	19	11	19
		Assimilative Capacity	26	22	17	26	26	34	26
		Assimilative Capacity Used (Percentage)	3%	-9%	-	-	-10%	-8%	-17%
Vista Canyon Water Reclamation Plant (2014-2019)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	19	23	28	19	19	11	19
		Assimilative Capacity	26	22	17	26	26	34	26
		Assimilative Capacity Used (Percentage)	2%	-9%	-	-	-10%	-8%	-17%
CLWA Recycled Water Master Plan (2014-2035)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	19	23	28	20	19	11	19
		Assimilative Capacity	26	22	17	25	26	34	26
		Assimilative Capacity Used (Percentage)	3%	-9%	-	-	-10%	-8%	-17%
CLWA SCV WUE SP (2012-2035)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	19	23	28	19	19	11	19
		Assimilative Capacity	26	22	17	26	26	34	26
		Assimilative Capacity Used (Percentage)	3%	-9%	-	-	-10%	-8%	-17%
Newhall Water Reclamation Plant (2023-2033)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	19	23	28	19	19	11	19
		Assimilative Capacity	26	22	17	26	26	34	26
		Assimilative Capacity Used (Percentage)	3%	-9%	-	-	-10%	-8%	-17%
All Projects (2012-2035)	"All-Projects" Average Conc. (mg/L)	Average Conc. (mg/L)	19	23	28	20	19	11	19
		Assimilative Capacity	26	22	17	25	26	34	26
		Assimilative Capacity Used (Percentage)	2%	-9%	-	-	-11%	-8%	-17%

Note: A positive percentage represents an increase in assimilative capacity while a negative percentage indicates a decrease.
* Due to the limited data available for Management Zones 2 and 3, the values in this table should be considered speculative. The values will be refined in the future when sufficient data is available.
** No Project = Land Use Build-Out Condition Only

Table 1d

Summary of Assimilative Capacity Changes for Sulfate, No Project, Single Project and All Projects

Agency Proponent	Description		Management Zone 1a	Management Zone 1b	Management Zone 2*	Management Zone 3*	Management Zone 4	Management Zone 5	Management Zone 6
2001-2011 Conditions	Water Quality Objective (mg/L)		150	150	150	200	250	350	-
	Average (Ambient) Conc. (mg/L)		138	269	-	-	189	246	235
	Current Assimilative Capacity		12	-119	-	-	61	104	-
No Project** (2012-2035)	"No-Project" Average Conc. (mg/L)	Average Conc. (mg/L)	150	225	247	245	166	248	251
		Assimilative Capacity	0	-75	-97	-45	84	102	-
		Assimilative Capacity Used (Percentage)	-102%	37%	-	-	39%	-2%	-
SCVSD Treatment Plant Revision (2012-2035)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	150	225	247	245	166	248	251
		Assimilative Capacity	0	-75	-97	-45	84	102	-
		Assimilative Capacity Used (Percentage)	-102%	37%	-	-	39%	-2%	-
SCWD Water Use Efficiency Programs (2014-2020)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	148	225	244	244	163	248	251
		Assimilative Capacity	2	-75	-94	-44	87	102	-
		Assimilative Capacity Used (Percentage)	-80%	37%	-	-	43%	-2%	-
Vista Canyon Water Reclamation Plant (2014-2019)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	150	225	247	245	166	248	251
		Assimilative Capacity	0	-75	-97	-45	84	102	-
		Assimilative Capacity Used (Percentage)	-104%	37%	-	-	39%	-2%	-
CLWA Recycled Water Master Plan (2014-2035)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	150	225	247	249	168	248	251
		Assimilative Capacity	0	-75	-97	-49	82	102	-
		Assimilative Capacity Used (Percentage)	-102%	37%	-	-	36%	-2%	-
CLWA SCV WUE SP (2012-2035)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	149	225	245	243	164	247	251
		Assimilative Capacity	1	-75	-95	-43	86	103	-
		Assimilative Capacity Used (Percentage)	-95%	37%	-	-	41%	-1%	-
Newhall Water Reclamation Plant (2023-2033)	Single Project Average Conc.(mg/L)	Average Conc. (mg/L)	150	225	247	245	166	249	251
		Assimilative Capacity	0	-75	-97	-45	84	101	-
		Assimilative Capacity Used (Percentage)	-102%	37%	-	-	39%	-3%	-
All Projects (2012-2035)	"All-Projects" Average Conc. (mg/L)	Average Conc. (mg/L)	147	225	242	246	164	248	251
		Assimilative Capacity	3	-75	-92	-46	86	102	-
		Assimilative Capacity Used (Percentage)	-76%	37%	-	-	41%	-2%	-

Note: A positive percentage represents an increase in assimilative capacity while a negative percentage indicates a decrease.
*** Due to the limited data available for Management Zones 2 and 3, the values in this table should be considered speculative. The values will be refined in the future when sufficient data is available.**
**** No Project = Land Use Build-Out Condition Only**