Appendix 6B2 – Sacramento – San Joaquin Delta Modeling, Chloride Results (DSM2-QUAL)

The following results of the DSM2 QUAL model are included for chloride results at key project locations for the following alternatives:

- No Action Alternative 011221
- Alternative 1A 011221
- Alternative 1B 011221
- Alternative 2 011221
- Alternative 3 020121

Section	Output Parameters	Table Numbers	Figure Numbers
Chloride	Contra Costa Pumping Plant Chloride	6B2-1-1a to 6B2-1-4c	6B2-1-1 to 6B2-1-18
Chloride	San Joaquin River at Antioch Chloride	6B2-2-1a to 6B2-2-4c	6B2-2-1 to 6B2-2-18
Chloride	Banks Pumping Plant South Delta Exports Chloride	6B2-3-1a to 6B2-3-4c	6B2-3-1 to 6B2-3-18
Chloride	Jones Pumping Plant South Delta Exports Chloride	6B2-4-1a to 6B2-4-4c	6B2-4-1 to 6B2-4-18
Chloride	North Bay Aqueduct Chloride	6B2-5-1a to 6B2-5-4c	6B2-5-1 to 6B2-5-18

Report formats

- Monthly tables comparing an alternative against the No Action alternative (exceedance values, long-term average, and average by water year type)
- Monthly pattern charts (long-term average and average by water year type) including all alternatives
- Monthly exceedance charts (all months) including all alternatives

Table 6B2-1-1a. Contra Costa Pumping Plant, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	208	197	215	234	105	56	45	31	33	94	140	196
20%	200	171	201	206	87	47	40	29	28	54	112	185
30%	187	158	185	176	65	38	35	28	26	47	96	164
40%	175	146	173	117	58	35	33	27	24	36	87	147
50%	152	122	161	89	50	31	31	26	24	29	69	132
60%	27	63	144	61	39	28	30	26	23	25	40	49
70%	24	51	97	48	35	27	29	25	22	24	30	38
80%	22	40	55	38	29	26	27	24	22	22	27	29
90%	21	27	33	30	28	24	25	22	21	21	23	23
Long Term												
Full Simulation Period[a]	113	110	139	115	58	36	33	28	29	44	72	108
Water Year Types[b]												
Wet (32%)	23	45	109	54	47	37	30	24	22	23	28	31
Above Normal (15%)	24	54	143	113	53	37	33	26	23	24	34	41
Below Normal (17%)	192	153	136	131	47	32	35	28	23	39	92	189
Dry (22%)	181	162	143	143	63	33	34	29	26	60	108	153
Critical (15%)	204	179	200	191	90	43	35	36	61	92	127	180

Table 6B2-1-1b. Contra Costa Pumping Plant, Alternative 1A 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	200	183	222	236	107	58	45	32	33	101	136	192
20%	186	159	199	205	92	48	39	29	29	59	116	170
30%	177	146	187	185	67	38	35	28	26	48	101	158
40%	160	131	174	133	61	35	33	27	24	37	92	145
50%	126	107	165	95	51	32	32	27	24	29	66	129
60%	26	55	142	63	39	29	30	26	23	25	40	45
70%	23	47	95	47	36	27	29	25	22	24	30	36
80%	22	39	60	41	30	26	27	24	22	22	27	28
90%	20	27	33	29	28	24	25	22	21	21	23	23
Long Term												
Full Simulation Period[a]	106	103	140	118	59	37	33	28	29	46	72	103
Water Year Types[b]												
Wet (32%)	22	42	111	54	47	37	30	24	23	23	27	30
Above Normal (15%)	24	53	143	124	54	37	33	26	23	24	33	39
Below Normal (17%)	172	151	137	133	49	32	36	28	23	38	85	165
Dry (22%)	171	157	145	146	64	33	34	29	26	66	116	146
Critical (15%)	194	144	198	193	93	45	36	36	62	96	131	187

Table 6B2-1-1c. Contra Costa Pumping Plant, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-8	-14	7	2	2	2	0	1	0	6	-5	-4
20%	-14	-12	-1	-1	5	1	-1	0	0	5	4	-15
30%	-10	-12	1	8	2	1	0	0	0	1	5	-6
40%	-16	-15	1	16	3	0	0	0	0	1	5	-2
50%	-27	-15	4	5	0	1	0	0	0	0	-3	-3
60%	-1	-8	-3	2	0	0	0	0	0	0	0	-4
70%	-1	-4	-2	-1	1	0	0	0	0	0	-1	-2
80%	-1	-1	6	3	0	0	0	0	0	0	0	-1
90%	0	-1	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-7	-7	1	3	1	0	0	0	0	2	1	-5
Water Year Types[b]												
Wet (32%)	-1	-3	2	0	0	0	0	0	0	0	0	-1
Above Normal (15%)	0	-1	0	11	1	0	0	0	0	0	-1	-2
Below Normal (17%)	-20	-2	2	2	1	0	0	0	0	0	-7	-24
Dry (22%)	-11	-5	1	3	1	0	0	0	0	6	8	-7
Critical (15%)	-9	-34	-2	2	3	2	1	0	1	4	4	7

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-1-2a. Contra Costa Pumping Plant, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	208	197	215	234	105	56	45	31	33	94	140	196
20%	200	171	201	206	87	47	40	29	28	54	112	185
30%	187	158	185	176	65	38	35	28	26	47	96	164
40%	175	146	173	117	58	35	33	27	24	36	87	147
50%	152	122	161	89	50	31	31	26	24	29	69	132
60%	27	63	144	61	39	28	30	26	23	25	40	49
70%	24	51	97	48	35	27	29	25	22	24	30	38
80%	22	40	55	38	29	26	27	24	22	22	27	29
90%	21	27	33	30	28	24	25	22	21	21	23	23
Long Term												
Full Simulation Period[a]	113	110	139	115	58	36	33	28	29	44	72	108
Water Year Types[b]												
Wet (32%)	23	45	109	54	47	37	30	24	22	23	28	31
Above Normal (15%)	24	54	143	113	53	37	33	26	23	24	34	41
Below Normal (17%)	192	153	136	131	47	32	35	28	23	39	92	189
Dry (22%)	181	162	143	143	63	33	34	29	26	60	108	153
Critical (15%)	204	179	200	191	90	43	35	36	61	92	127	180

Table 6B2-1-2b. Contra Costa Pumping Plant, Alternative 1B 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	205	189	217	236	105	55	45	33	33	100	137	192
20%	186	162	200	205	92	48	39	29	29	59	117	170
30%	177	151	188	185	67	38	35	28	26	48	100	157
40%	162	134	175	138	61	36	33	27	25	37	91	146
50%	137	114	165	93	50	31	31	27	24	29	66	123
60%	26	55	146	63	39	28	30	26	23	25	40	46
70%	23	48	93	47	36	27	29	25	22	24	30	36
80%	22	39	60	41	30	26	27	24	22	22	27	28
90%	20	27	32	29	28	24	25	22	21	21	23	23
Long Term												
Full Simulation Period[a]	108	104	141	118	59	37	33	28	29	46	73	103
Water Year Types[b]												
Wet (32%)	22	42	111	55	48	37	30	24	23	23	27	30
Above Normal (15%)	25	54	143	124	54	37	34	26	23	24	33	39
Below Normal (17%)	172	150	136	133	49	32	36	28	23	38	84	164
Dry (22%)	175	162	148	145	64	33	34	29	26	67	117	147
Critical (15%)	202	147	199	194	93	45	36	36	62	97	131	191

Table 6B2-1-2c. Contra Costa Pumping Plant, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3	-8	2	2	0	-1	1	1	0	6	-3	-4
20%	-14	-9	0	-1	5	1	-1	0	0	5	5	-15
30%	-10	-6	3	9	2	1	0	0	0	2	4	-7
40%	-14	-13	2	20	3	0	0	0	0	1	4	-1
50%	-16	-8	4	4	-1	0	0	0	0	0	-3	-9
60%	-1	-8	1	2	0	0	0	0	0	0	0	-4
70%	-1	-3	-4	-1	1	0	0	0	0	0	-1	-2
80%	0	-1	6	3	0	0	0	0	0	0	0	-1
90%	0	-1	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-5	-6	2	3	1	0	0	0	0	2	1	-5
Water Year Types[b]												
Wet (32%)	-1	-3	2	1	0	0	0	0	0	0	0	-1
Above Normal (15%)	0	0	0	11	1	0	1	0	0	0	-1	-1
Below Normal (17%)	-21	-3	0	2	1	0	0	0	0	0	-8	-25
Dry (22%)	-6	0	5	1	1	0	0	0	0	7	8	-6
Critical (15%)	-2	-31	-1	3	2	2	1	0	1	4	4	11

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-1-3a. Contra Costa Pumping Plant, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	208	197	215	234	105	56	45	31	33	94	140	196
20%	200	171	201	206	87	47	40	29	28	54	112	185
30%	187	158	185	176	65	38	35	28	26	47	96	164
40%	175	146	173	117	58	35	33	27	24	36	87	147
50%	152	122	161	89	50	31	31	26	24	29	69	132
60%	27	63	144	61	39	28	30	26	23	25	40	49
70%	24	51	97	48	35	27	29	25	22	24	30	38
80%	22	40	55	38	29	26	27	24	22	22	27	29
90%	21	27	33	30	28	24	25	22	21	21	23	23
Long Term												
Full Simulation Period[a]	113	110	139	115	58	36	33	28	29	44	72	108
Water Year Types[b]												
Wet (32%)	23	45	109	54	47	37	30	24	22	23	28	31
Above Normal (15%)	24	54	143	113	53	37	33	26	23	24	34	41
Below Normal (17%)	192	153	136	131	47	32	35	28	23	39	92	189
Dry (22%)	181	162	143	143	63	33	34	29	26	60	108	153
Critical (15%)	204	179	200	191	90	43	35	36	61	92	127	180

Table 6B2-1-3b. Contra Costa Pumping Plant, Alternative 2 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	199	183	222	236	105	55	45	32	33	101	137	191
20%	187	159	201	205	92	48	40	29	29	58	115	169
30%	178	147	188	184	67	39	35	28	26	48	101	157
40%	162	132	176	144	61	35	33	27	24	37	92	145
50%	126	110	167	95	51	31	32	27	24	29	66	127
60%	26	59	144	63	39	29	30	26	23	25	40	45
70%	23	47	98	47	36	27	29	25	22	24	30	36
80%	22	39	60	41	30	26	27	24	22	22	27	28
90%	20	27	33	29	28	24	25	22	21	21	23	23
Long Term												
Full Simulation Period[a]	106	103	141	119	59	37	33	28	29	46	72	102
Water Year Types[b]												
Wet (32%)	22	43	111	54	47	37	30	24	23	23	27	30
Above Normal (15%)	24	53	143	124	54	37	33	26	23	24	33	39
Below Normal (17%)	170	151	138	136	49	32	36	28	23	38	85	164
Dry (22%)	171	156	149	145	64	33	34	29	26	66	116	146
Critical (15%)	195	146	199	194	93	45	36	36	62	96	130	184

Table 6B2-1-3c. Contra Costa Pumping Plant, Alternative 2 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-10	-14	7	2	0	-1	0	1	0	6	-3	-5
20%	-13	-12	0	-1	6	1	-1	0	0	5	3	-16
30%	-9	-10	3	8	2	1	0	0	0	1	5	-7
40%	-13	-14	2	26	3	0	0	0	0	1	5	-3
50%	-26	-13	6	5	1	0	0	0	0	0	-3	-6
60%	-1	-5	0	2	1	0	0	0	0	0	0	-4
70%	-1	-4	1	-1	1	0	0	0	0	0	-1	-2
80%	-1	-1	6	3	0	0	0	0	0	0	0	-1
90%	0	-1	1	0	0	0	0	0	0	0	0	-1
Long Term												
Full Simulation Period[a]	-8	-7	2	3	1	0	0	0	0	2	1	-6
Water Year Types[b]												
Wet (32%)	-1	-2	3	0	0	0	0	0	0	0	0	-2
Above Normal (15%)	-1	-1	0	11	1	0	0	0	0	0	-1	-2
Below Normal (17%)	-22	-2	2	4	2	0	0	0	0	0	-7	-25
Dry (22%)	-10	-6	5	2	1	0	0	0	0	6	8	-6
Critical (15%)	-9	-32	-2	4	3	2	1	0	1	4	3	4

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-1-4a. Contra Costa Pumping Plant, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	208	197	215	234	105	56	45	31	33	94	140	196
20%	200	171	201	206	87	47	40	29	28	54	112	185
30%	187	158	185	176	65	38	35	28	26	47	96	164
40%	175	146	173	117	58	35	33	27	24	36	87	147
50%	152	122	161	89	50	31	31	26	24	29	69	132
60%	27	63	144	61	39	28	30	26	23	25	40	49
70%	24	51	97	48	35	27	29	25	22	24	30	38
80%	22	40	55	38	29	26	27	24	22	22	27	29
90%	21	27	33	30	28	24	25	22	21	21	23	23
Long Term												
Full Simulation Period[a]	113	110	139	115	58	36	33	28	29	44	72	108
Water Year Types[b]												
Wet (32%)	23	45	109	54	47	37	30	24	22	23	28	31
Above Normal (15%)	24	54	143	113	53	37	33	26	23	24	34	41
Below Normal (17%)	192	153	136	131	47	32	35	28	23	39	92	189
Dry (22%)	181	162	143	143	63	33	34	29	26	60	108	153
Critical (15%)	204	179	200	191	90	43	35	36	61	92	127	180

Table 6B2-1-4b. Contra Costa Pumping Plant, Alternative 3 020121, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	207	186	220	236	105	59	45	32	33	95	137	193
20%	186	162	202	204	92	47	40	29	29	57	113	170
30%	181	146	192	182	69	38	35	28	26	48	103	161
40%	166	135	176	141	60	35	33	27	25	37	87	147
50%	141	120	169	97	52	31	32	27	24	29	66	128
60%	27	56	144	62	39	29	30	26	23	25	39	45
70%	24	47	96	46	36	27	29	25	22	24	30	36
80%	22	40	59	40	30	26	27	24	22	22	27	28
90%	20	27	33	29	28	24	25	23	21	21	23	23
Long Term												
Full Simulation Period[a]	109	104	142	119	59	37	33	28	29	46	73	105
Water Year Types[b]												
Wet (32%)	22	42	111	54	47	37	31	24	23	23	27	30
Above Normal (15%)	25	56	140	123	55	37	33	26	23	24	33	39
Below Normal (17%)	174	155	134	141	50	32	35	28	23	38	84	166
Dry (22%)	173	154	154	144	62	32	34	29	26	66	115	150
Critical (15%)	205	152	200	192	91	45	36	36	63	96	134	194

Table 6B2-1-4c. Contra Costa Pumping Plant, Alternative 3 020121 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1	-11	5	1	0	3	1	0	0	1	-3	-3
20%	-14	-9	2	-2	5	0	-1	0	1	3	1	-15
30%	-5	-11	6	6	3	0	0	0	0	2	7	-3
40%	-9	-12	3	24	2	0	0	0	0	1	0	0
50%	-11	-3	8	7	1	0	0	0	0	0	-4	-5
60%	1	-7	0	1	1	1	0	0	0	0	-1	-4
70%	0	-4	-1	-2	1	0	0	0	0	0	0	-2
80%	0	0	4	2	0	0	0	0	0	0	0	-1
90%	-1	0	0	0	0	0	0	1	0	0	0	0
Long Term												
Full Simulation Period[a]	-5	-6	2	3	1	0	0	0	0	2	1	-3
Water Year Types[b]												
Wet (32%)	-1	-3	3	0	0	0	0	0	0	0	0	-1
Above Normal (15%)	1	2	-3	10	2	0	0	0	0	0	-1	-1
Below Normal (17%)	-18	2	-2	10	2	0	0	0	0	0	-8	-23
Dry (22%)	-8	-8	10	1	-1	0	0	0	0	6	7	-2
Critical (15%)	1	-27	-1	1	1	2	1	0	2	4	7	15

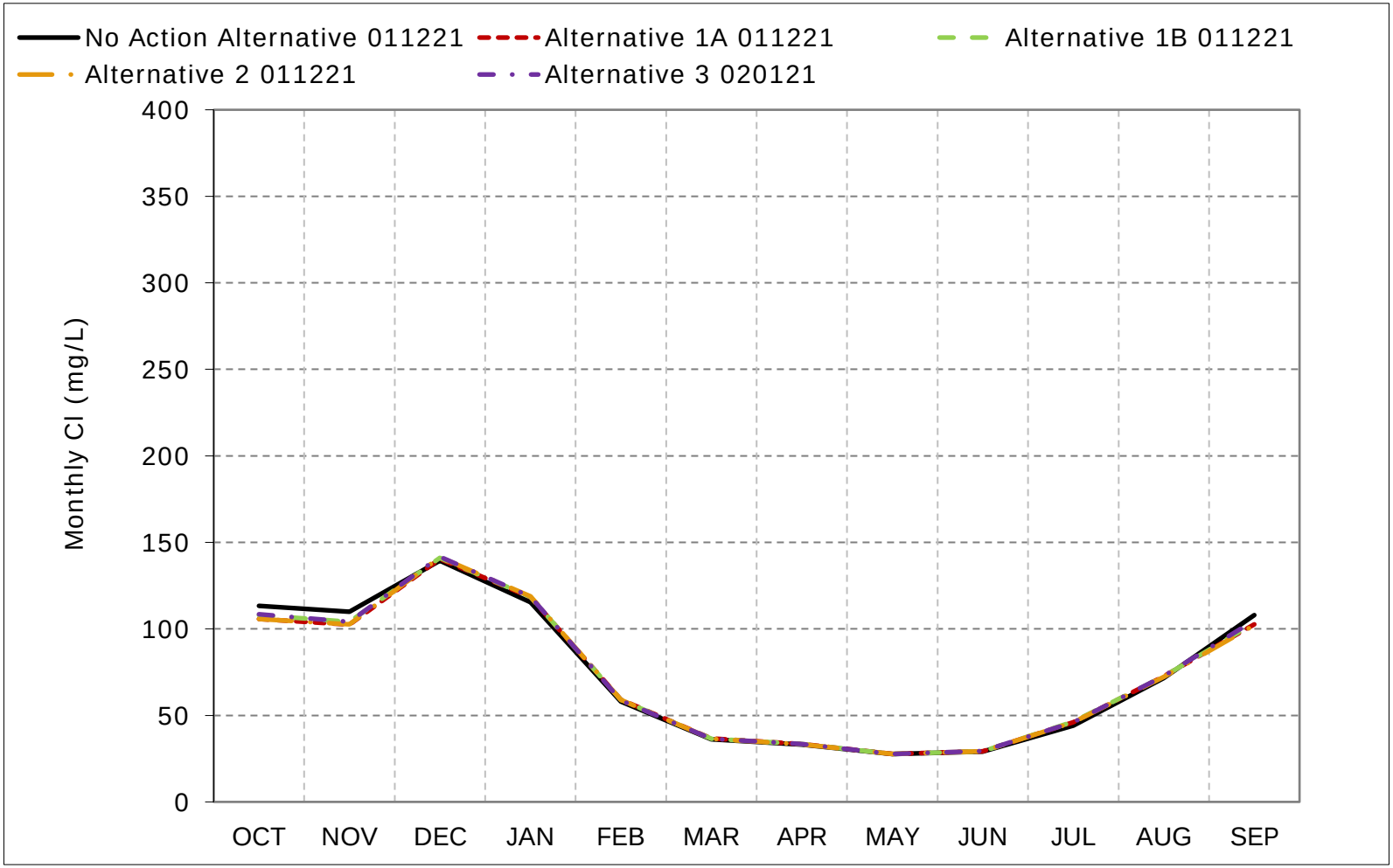
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-1. Contra Costa Pumping Plant, Long-Term Average Cl

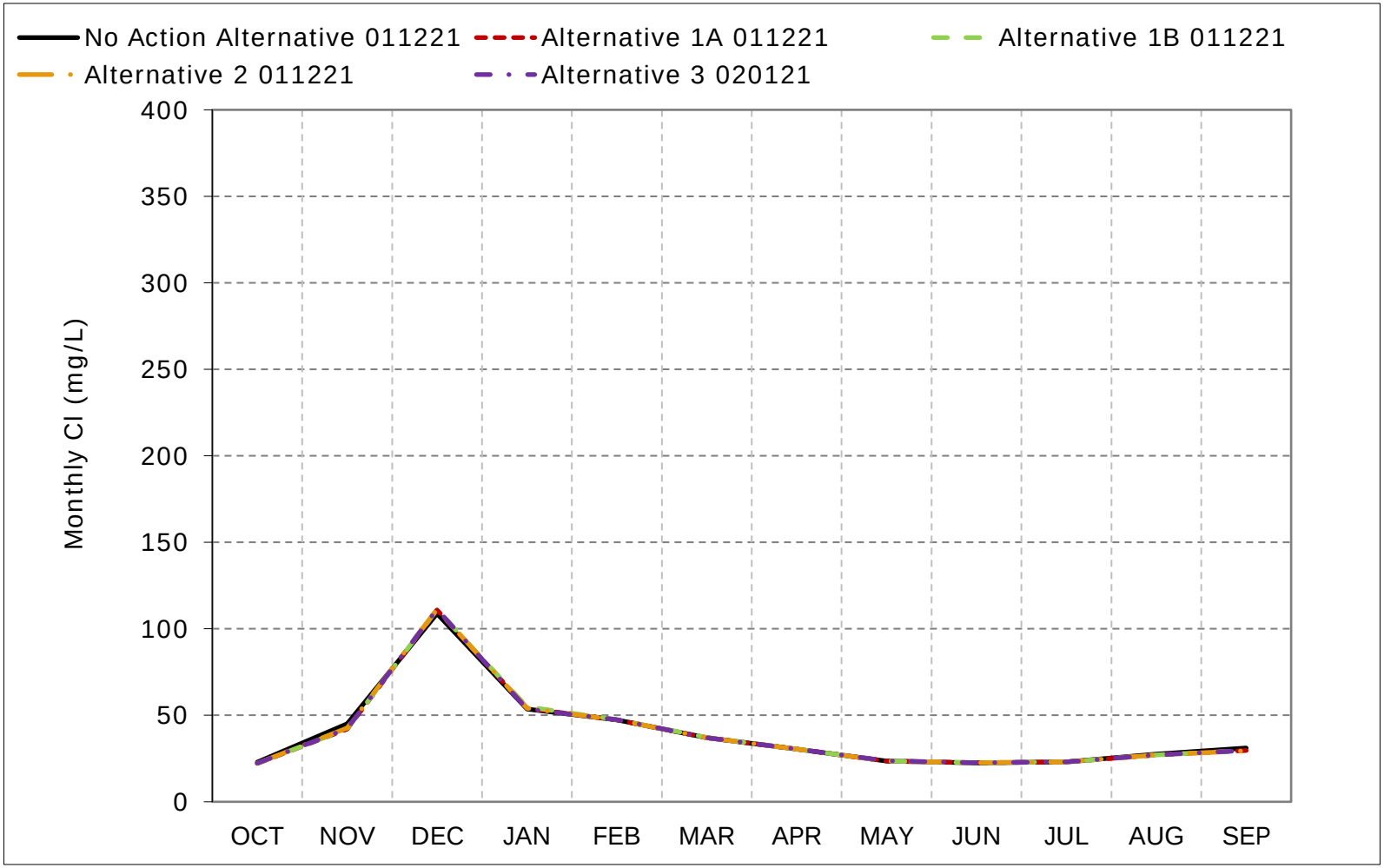


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-2. Contra Costa Pumping Plant, Wet Year Average Cl

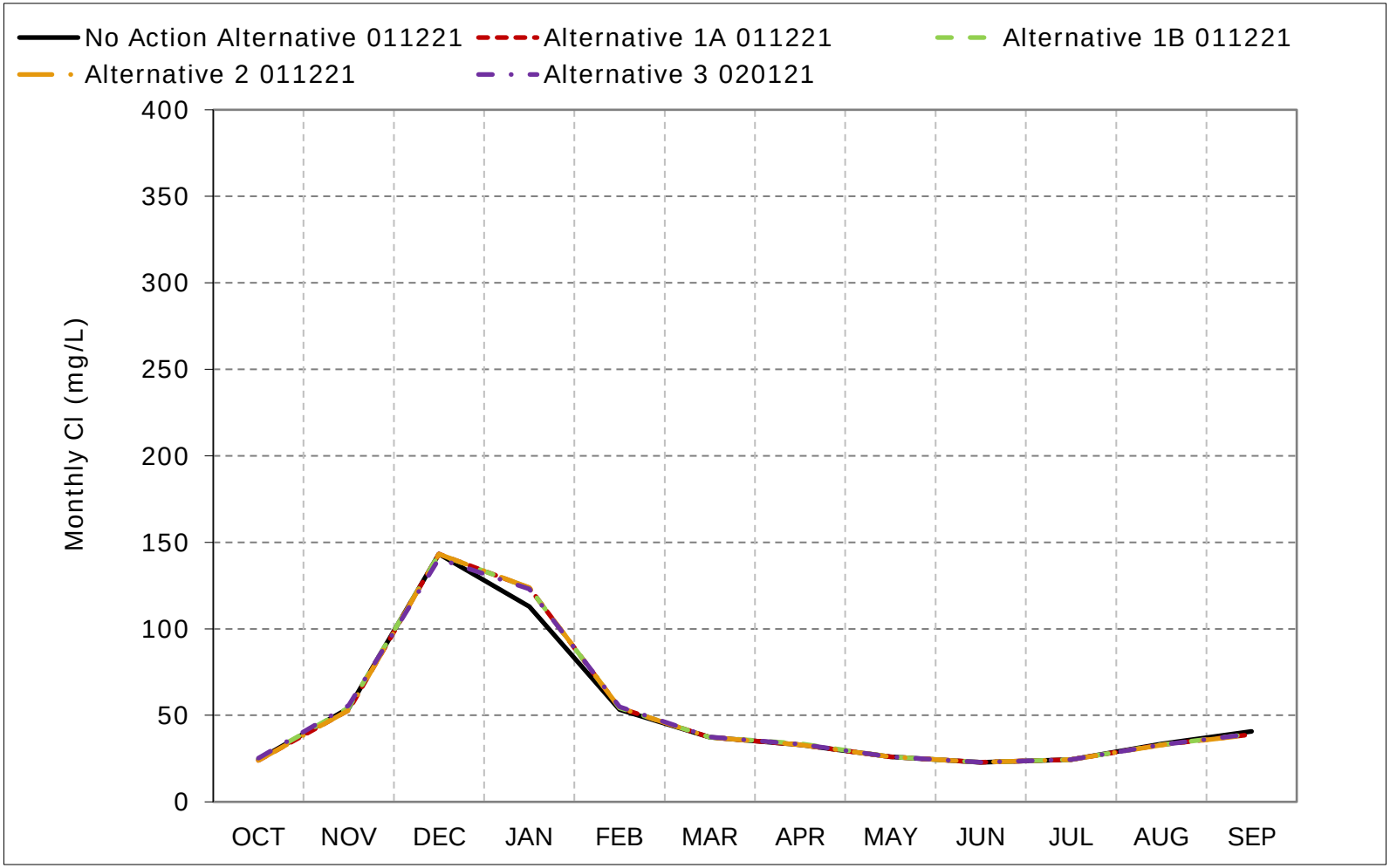


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-3. Contra Costa Pumping Plant, Above Normal Year Average Cl

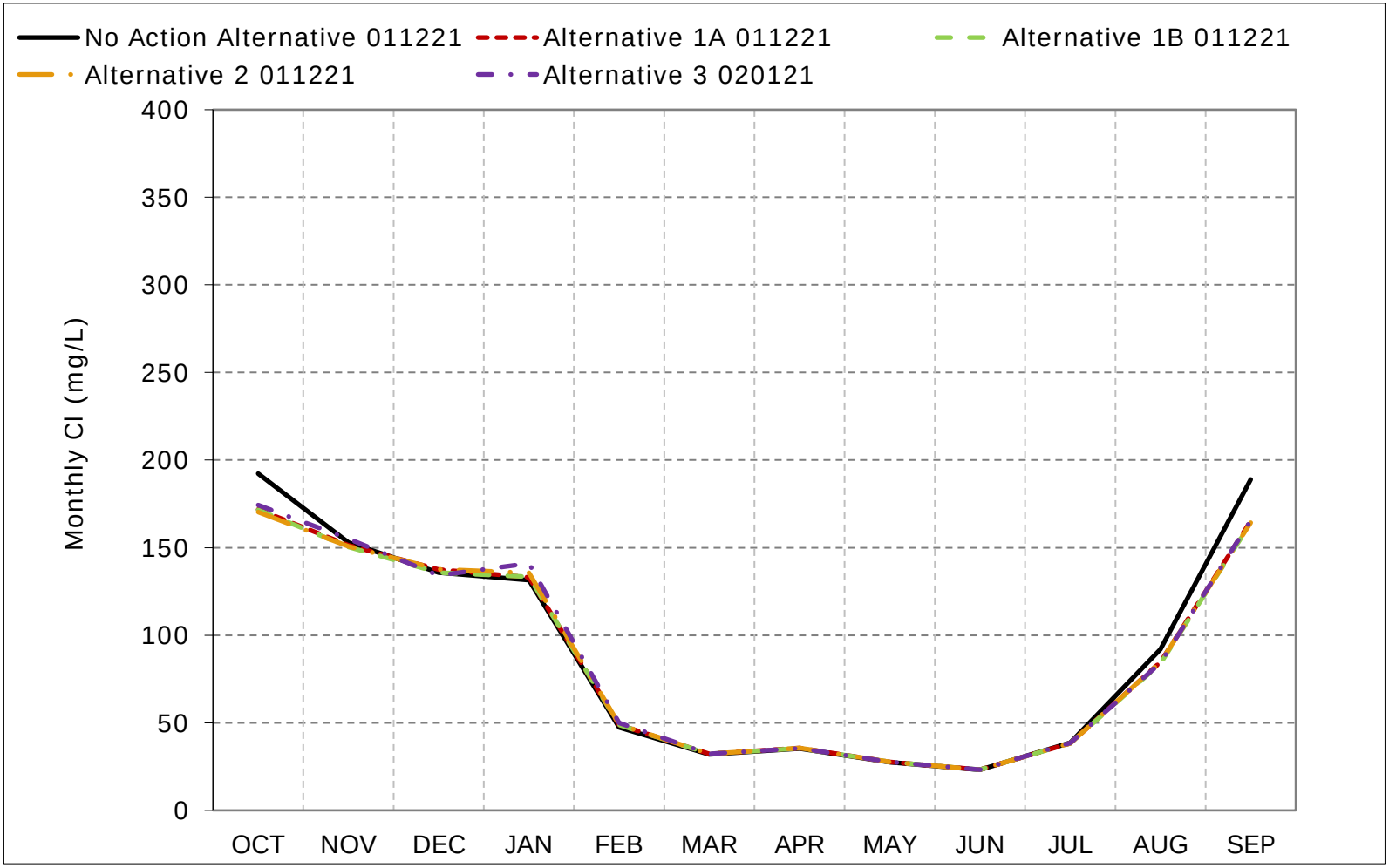


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-4. Contra Costa Pumping Plant, Below Normal Year Average Cl

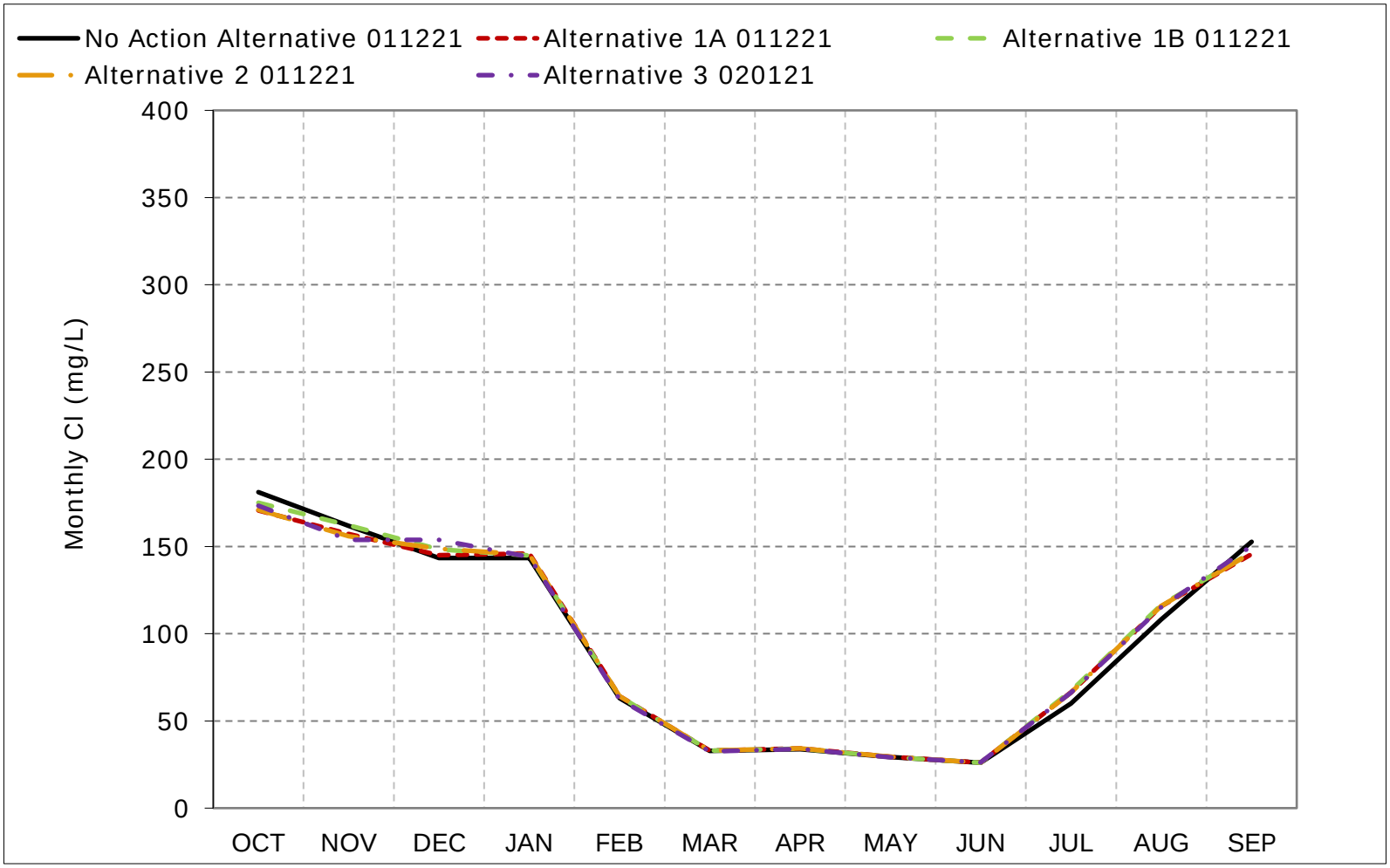


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-5. Contra Costa Pumping Plant, Dry Year Average Cl

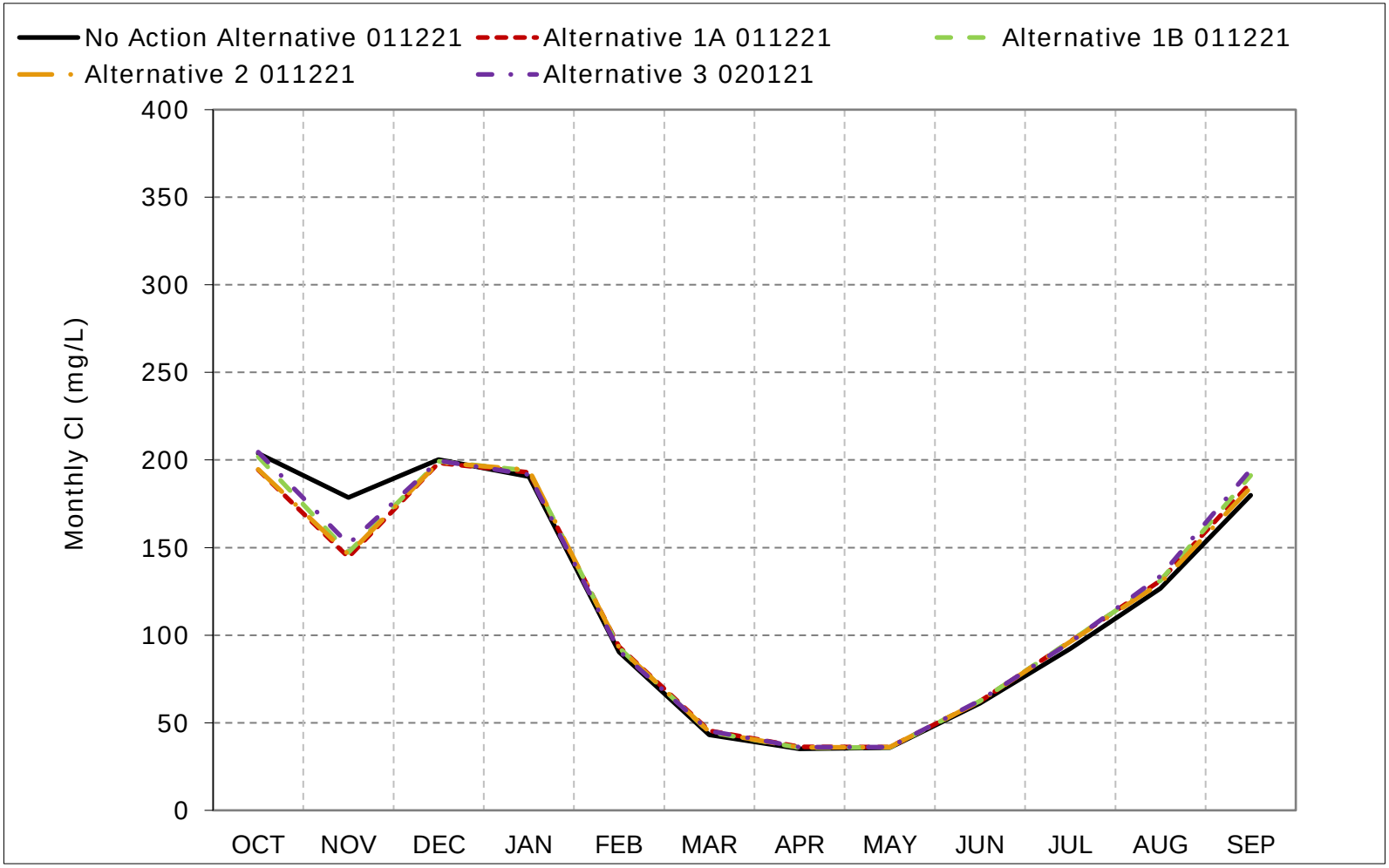


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-6. Contra Costa Pumping Plant, Critical Year Average Cl

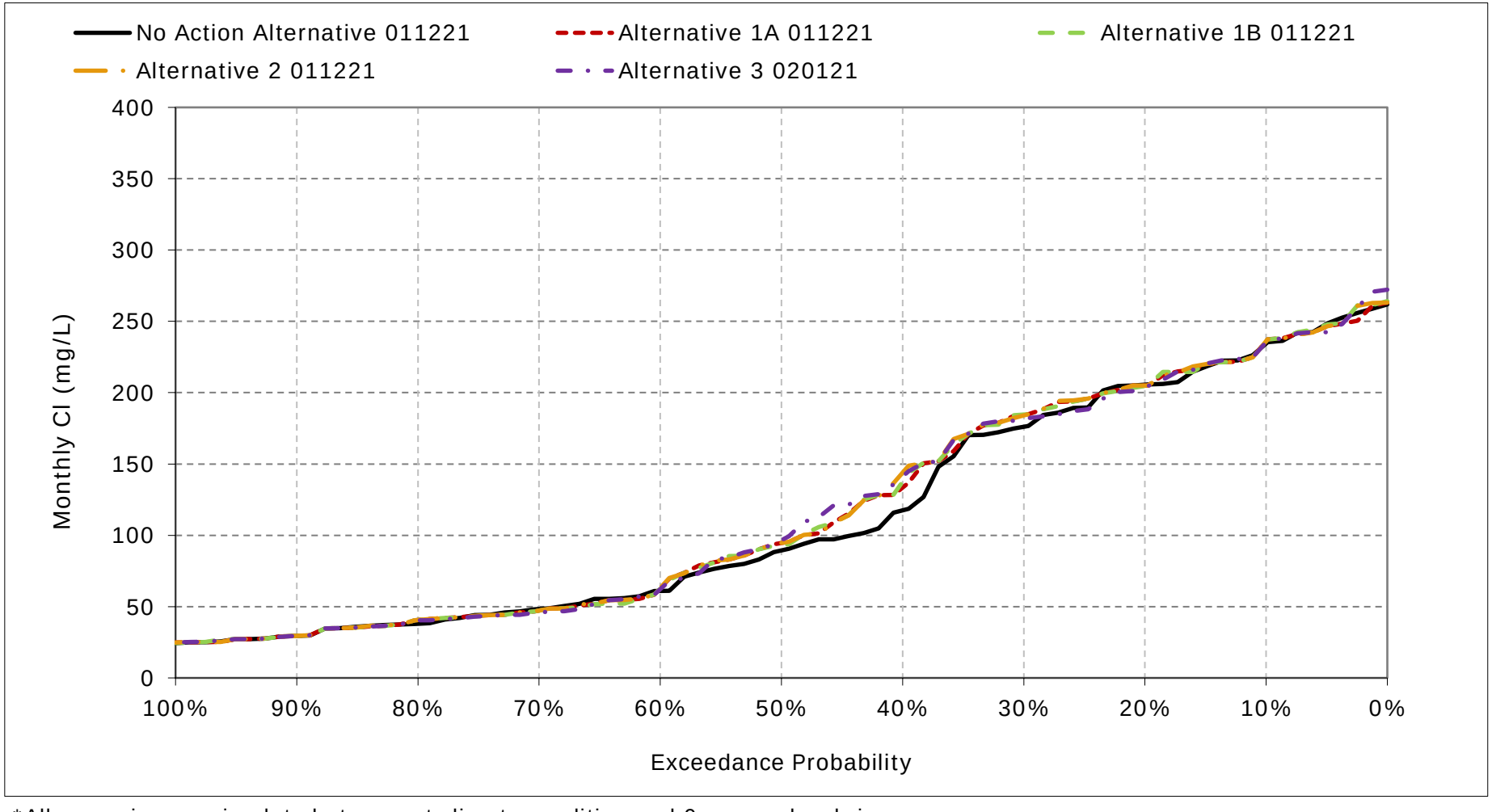


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

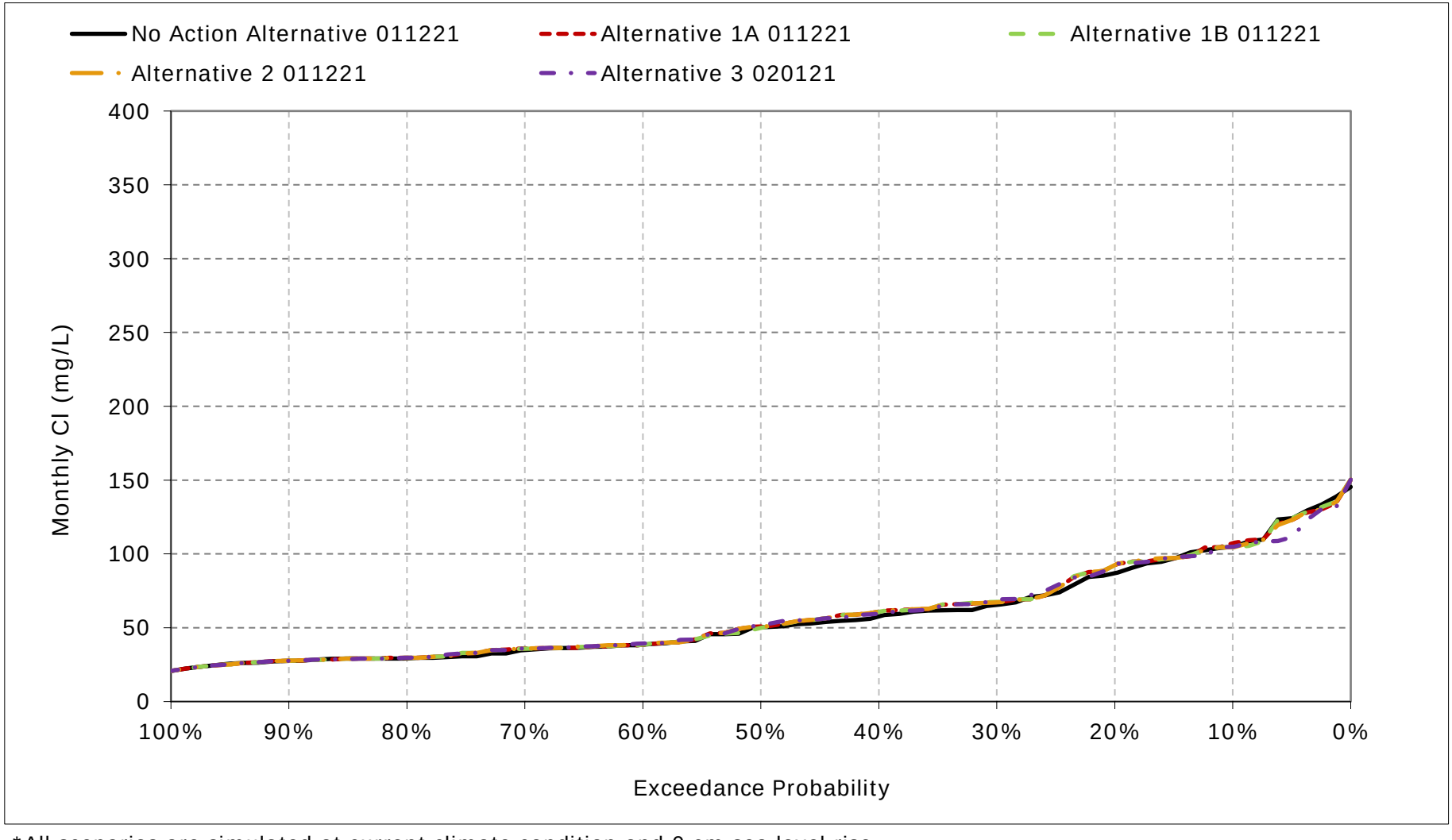
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-7. Contra Costa Pumping Plant Chloride, January Cl



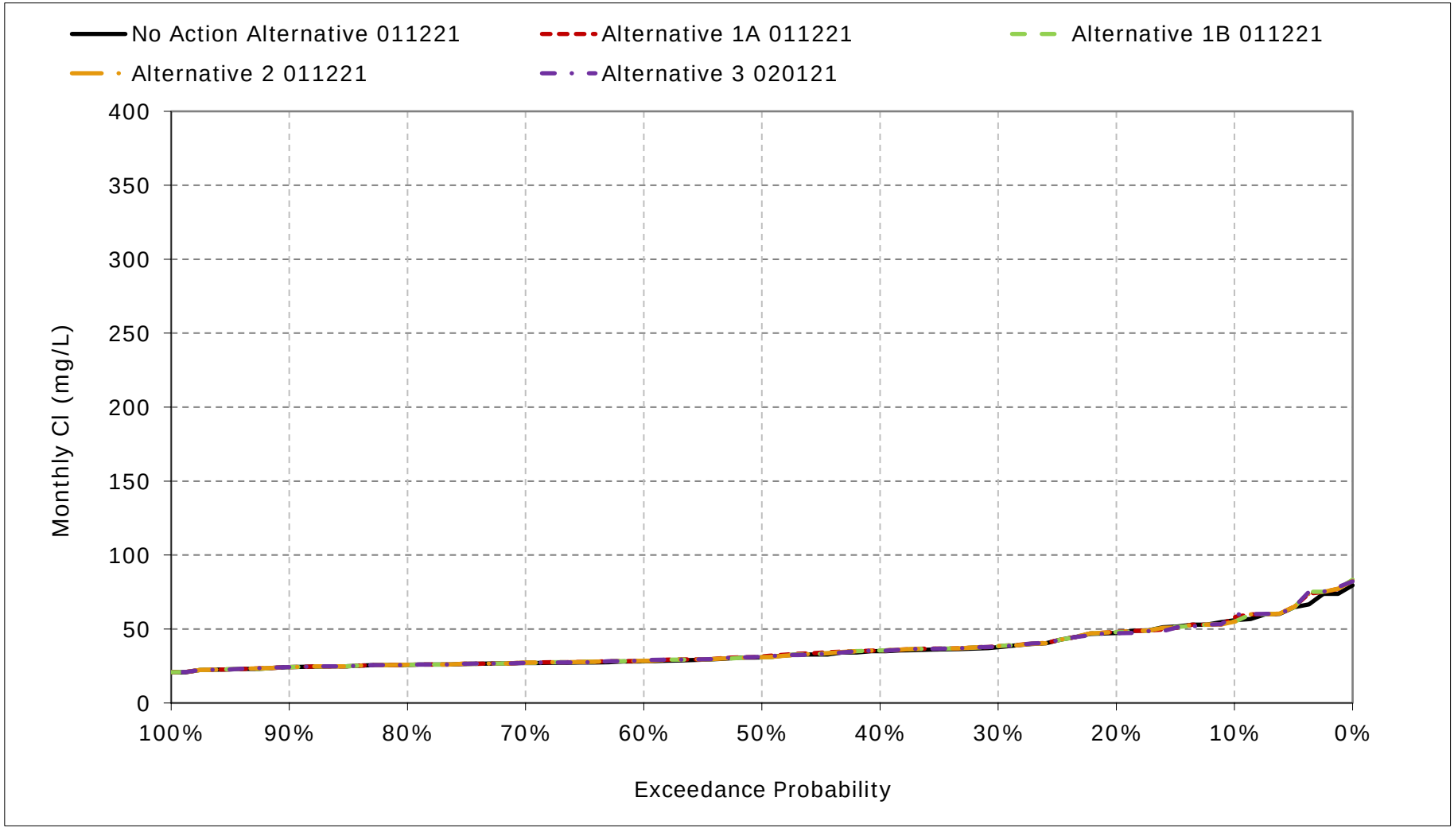
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-8. Contra Costa Pumping Plant Chloride, February Cl



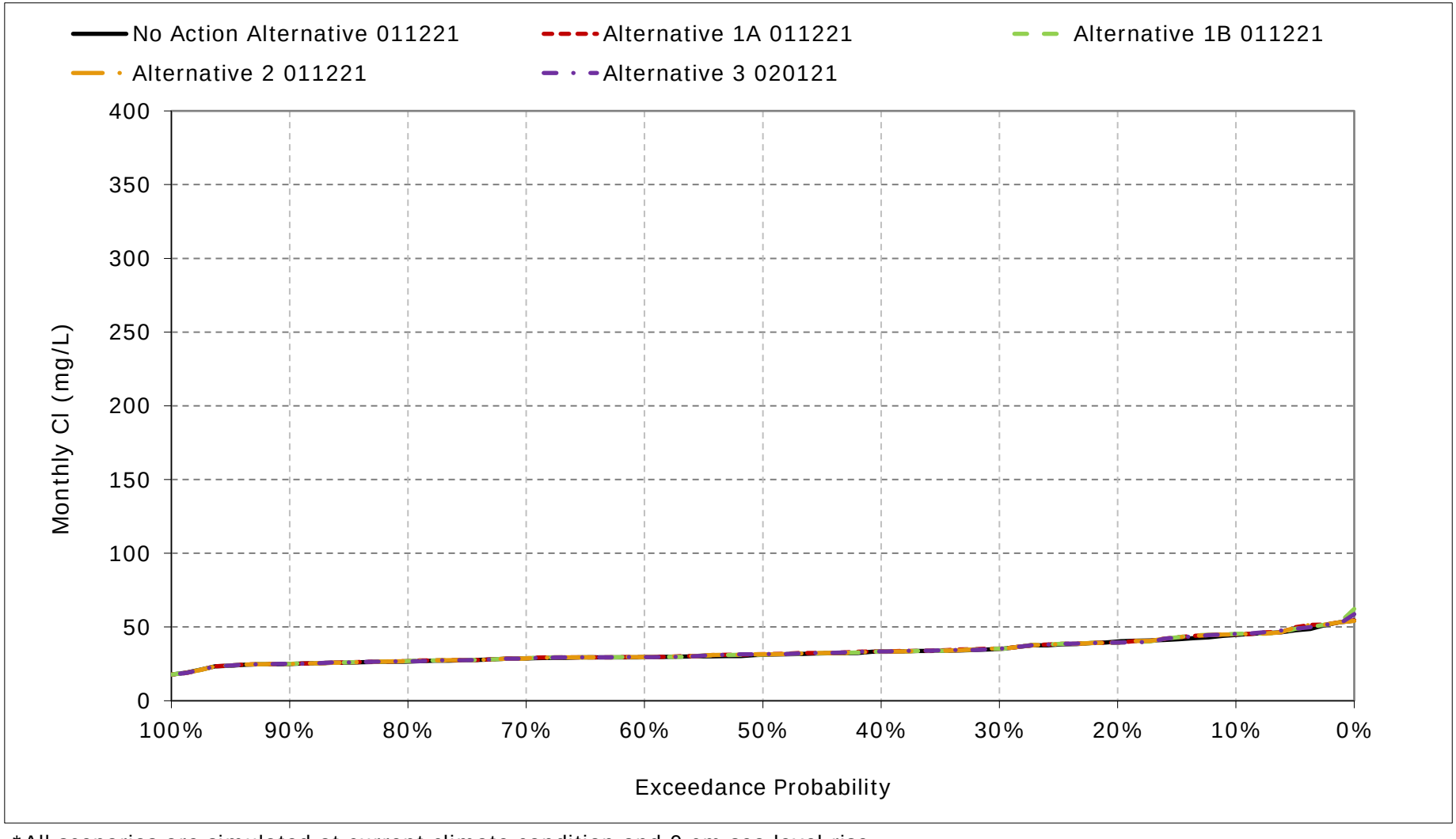
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-9. Contra Costa Pumping Plant Chloride, March Cl



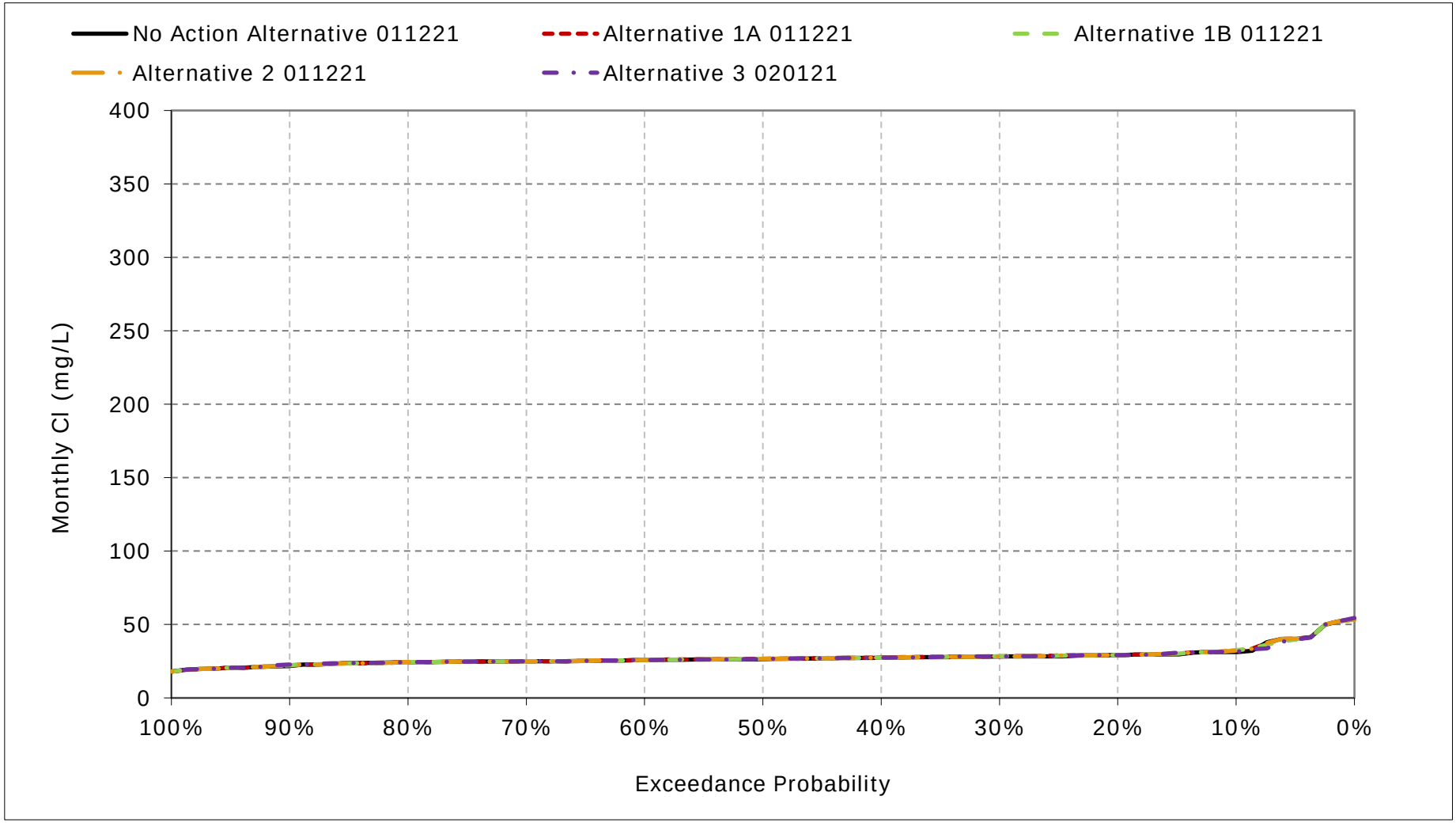
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-10. Contra Costa Pumping Plant Chloride, April Cl



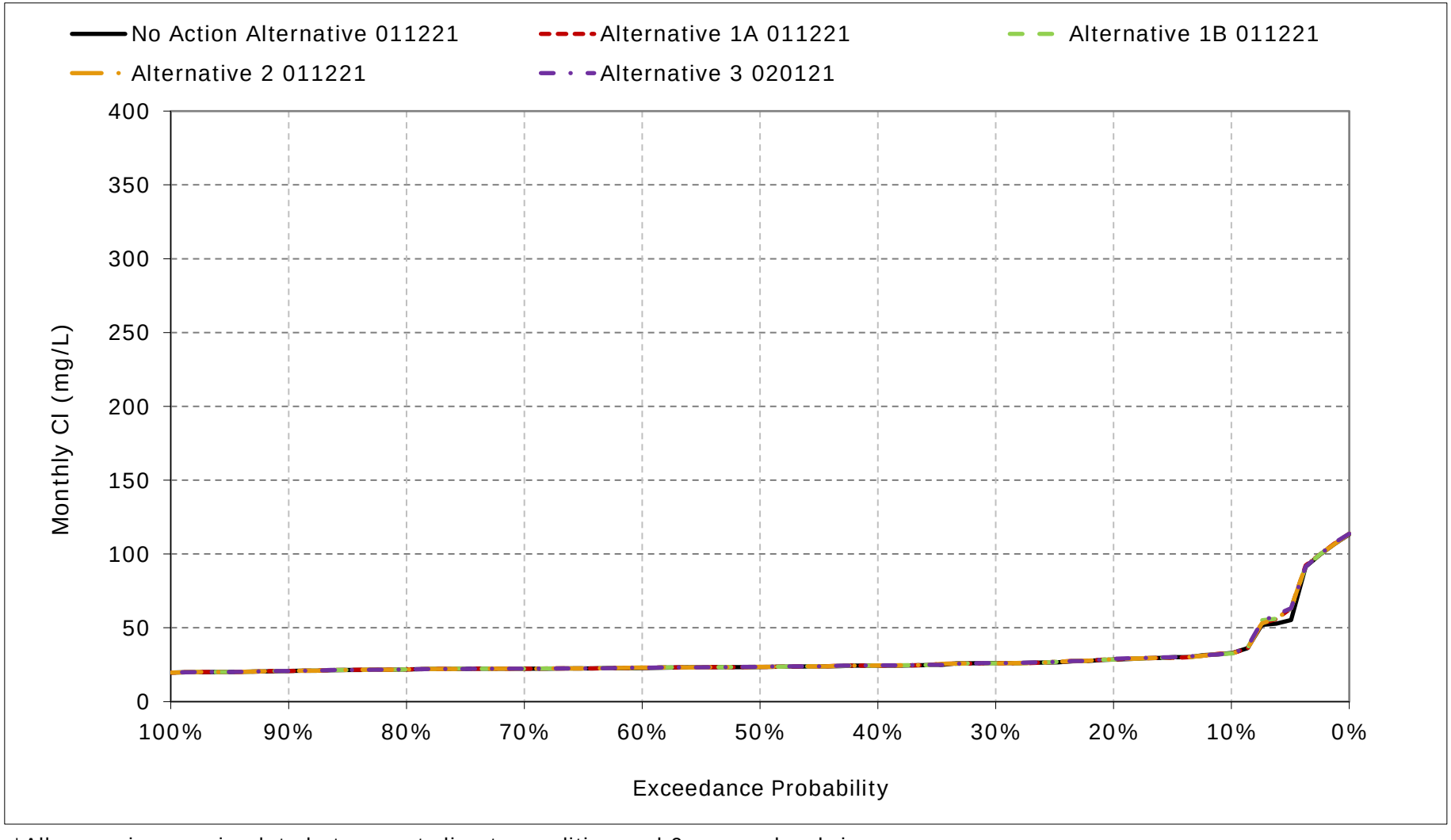
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-11. Contra Costa Pumping Plant Chloride, May Cl



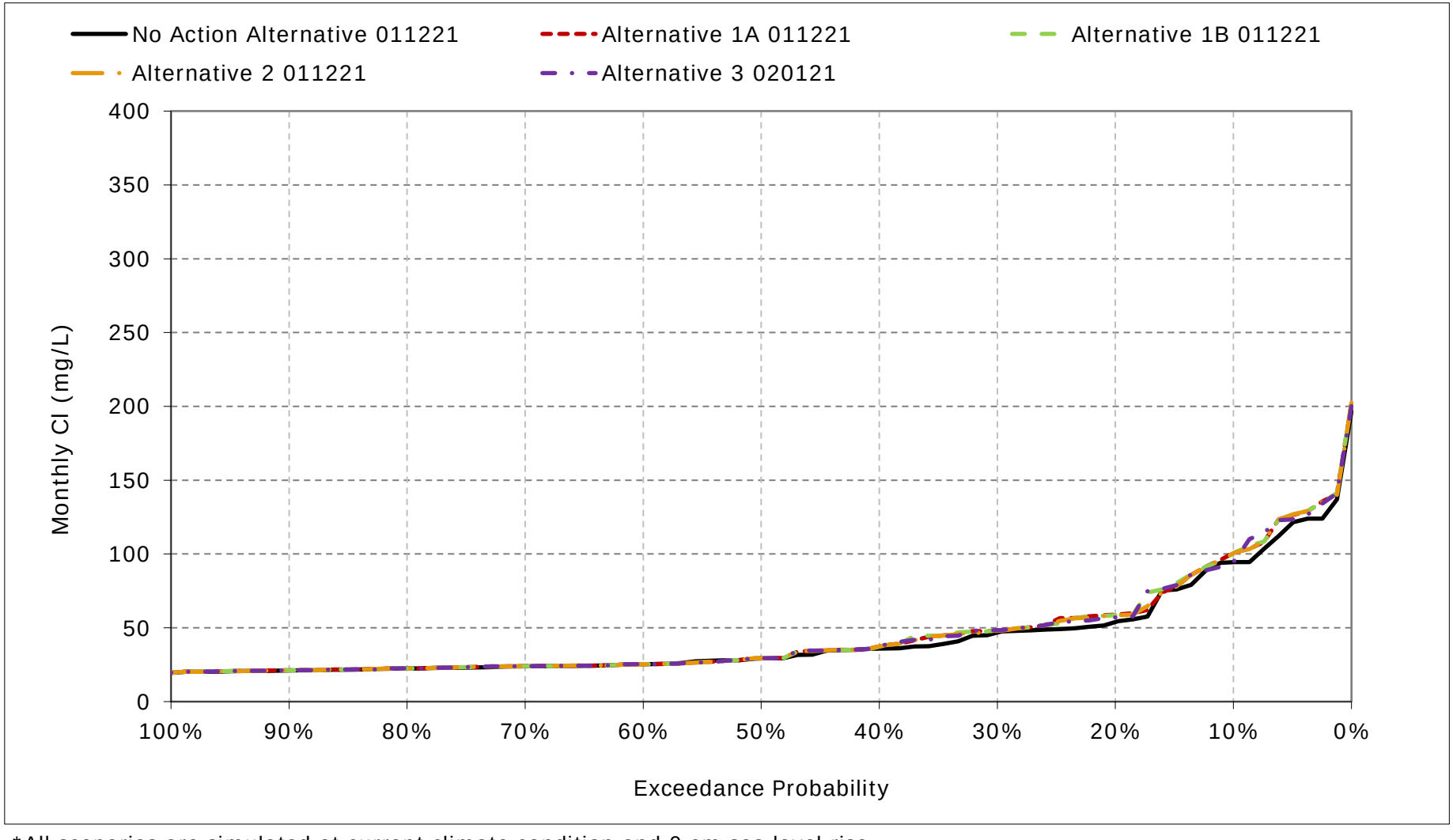
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-12. Contra Costa Pumping Plant Chloride, June Cl



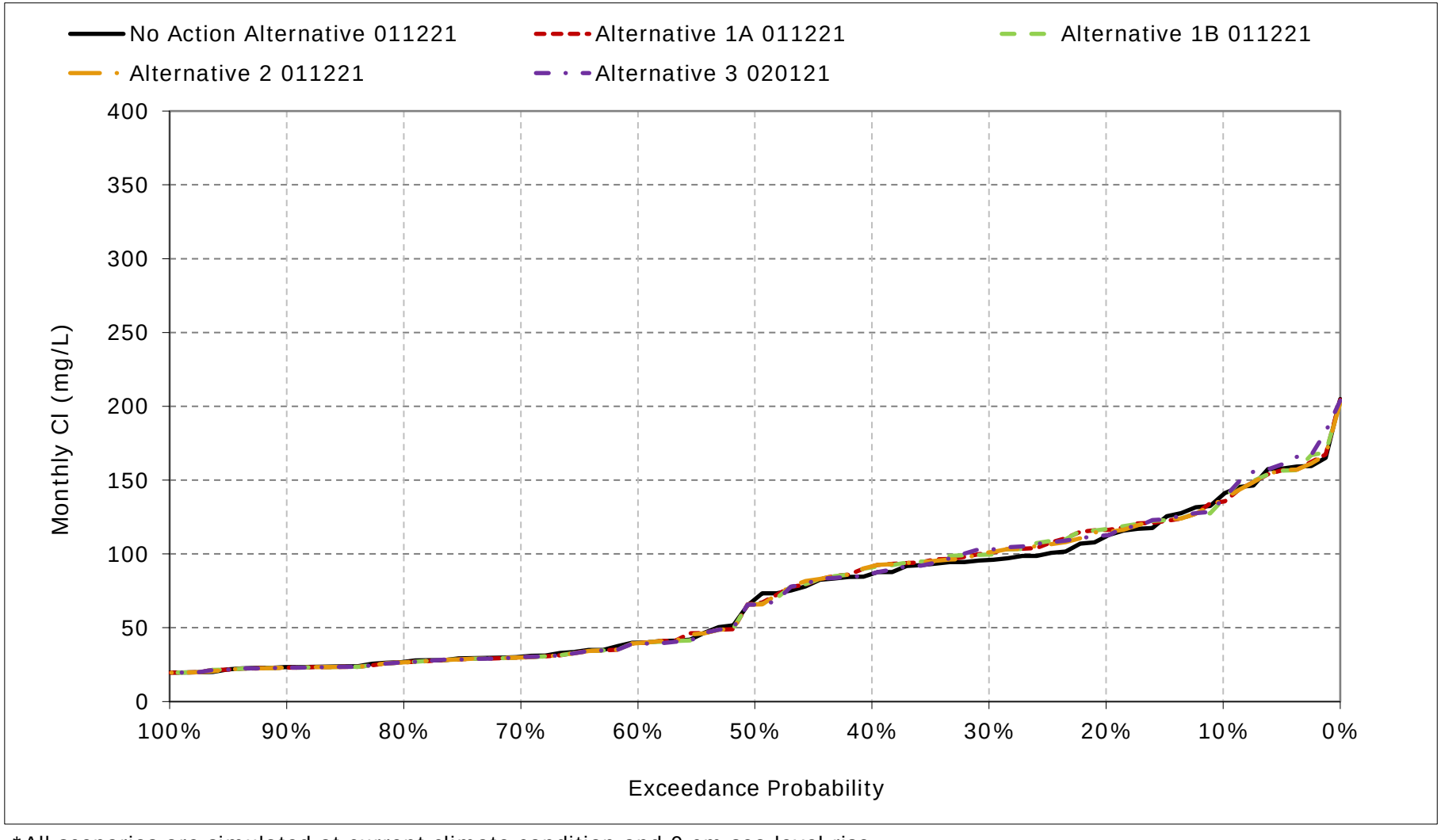
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-13. Contra Costa Pumping Plant Chloride, July Cl



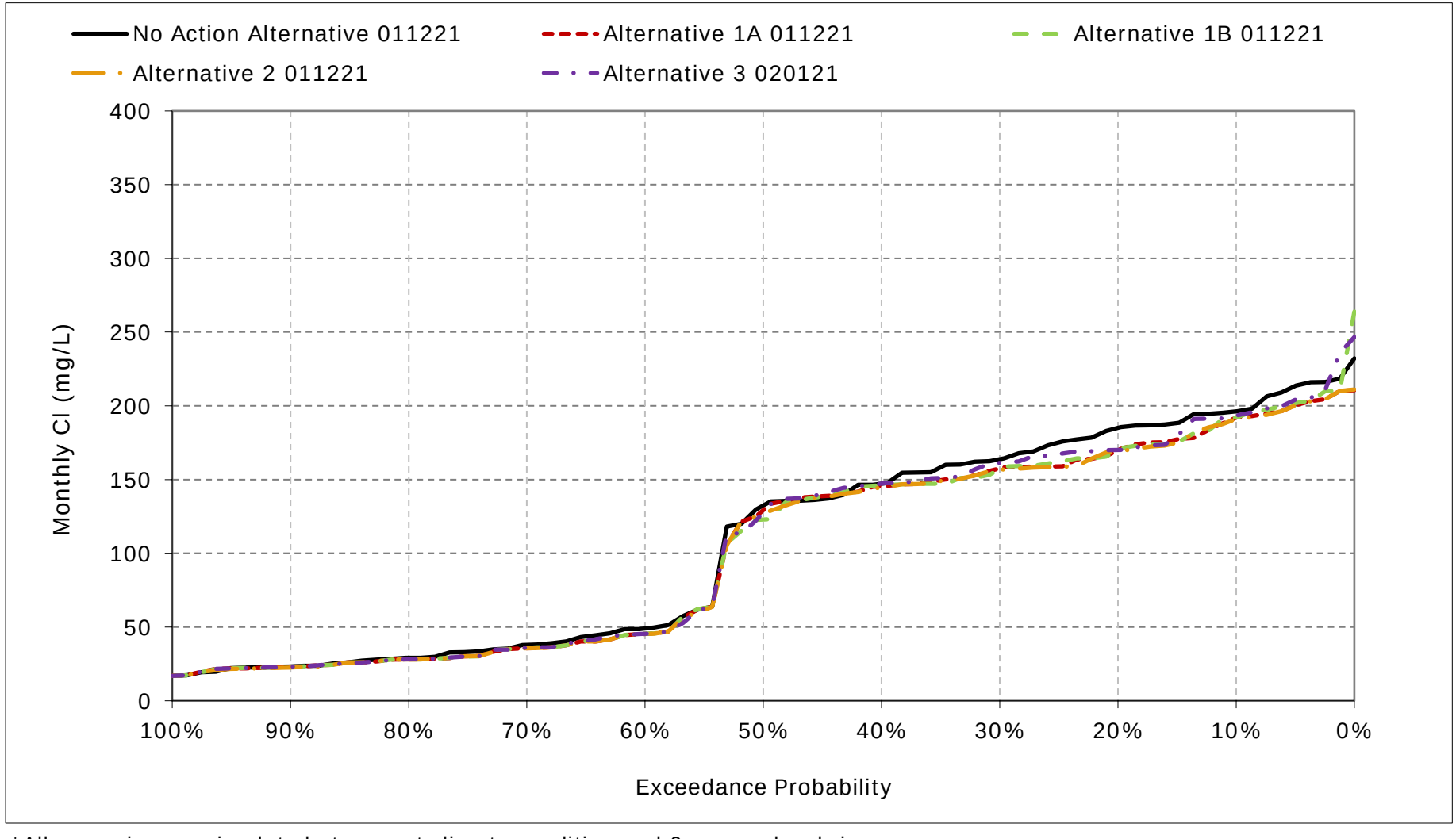
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-14. Contra Costa Pumping Plant Chloride, August Cl



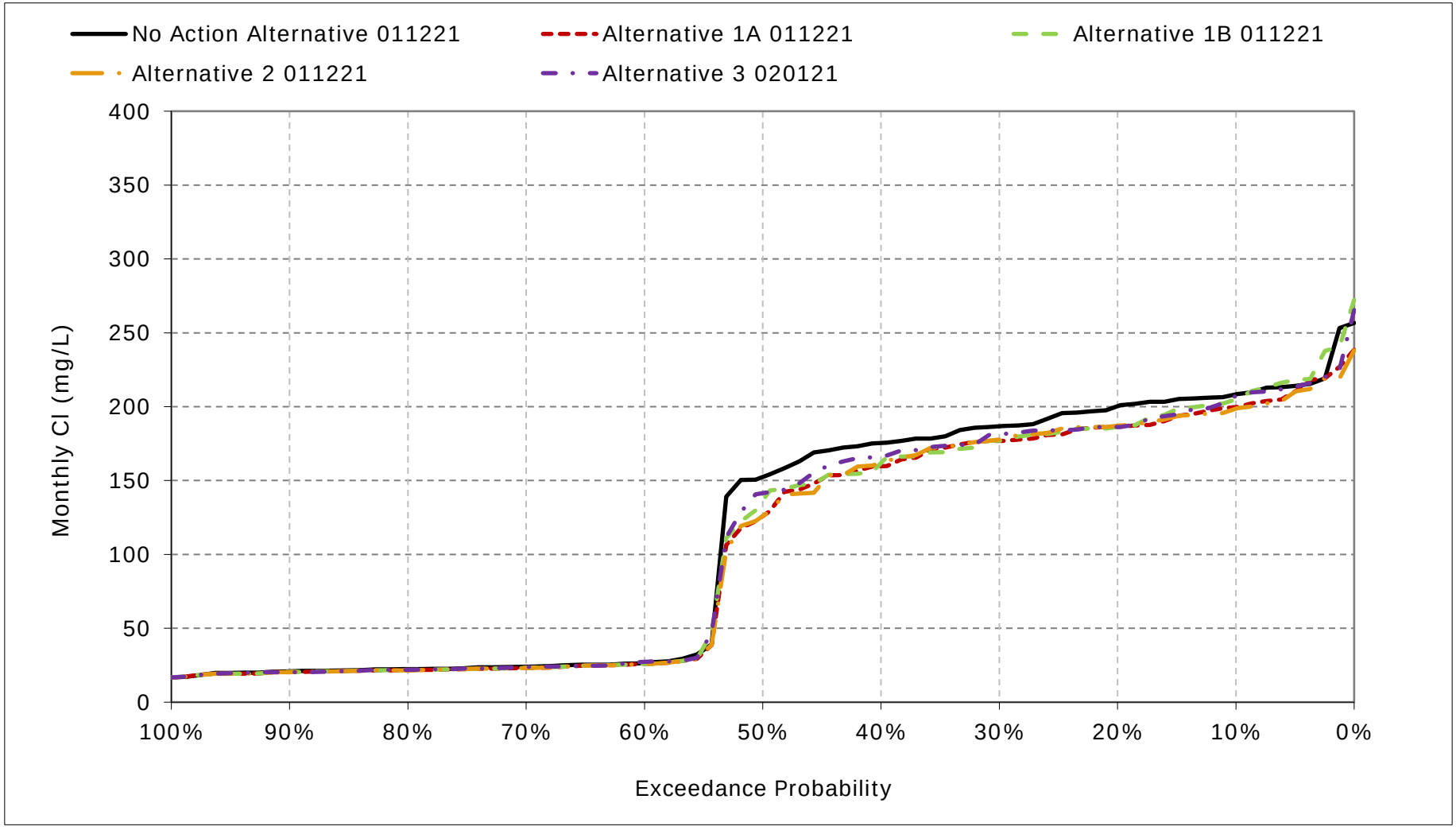
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-15. Contra Costa Pumping Plant Chloride, September Cl



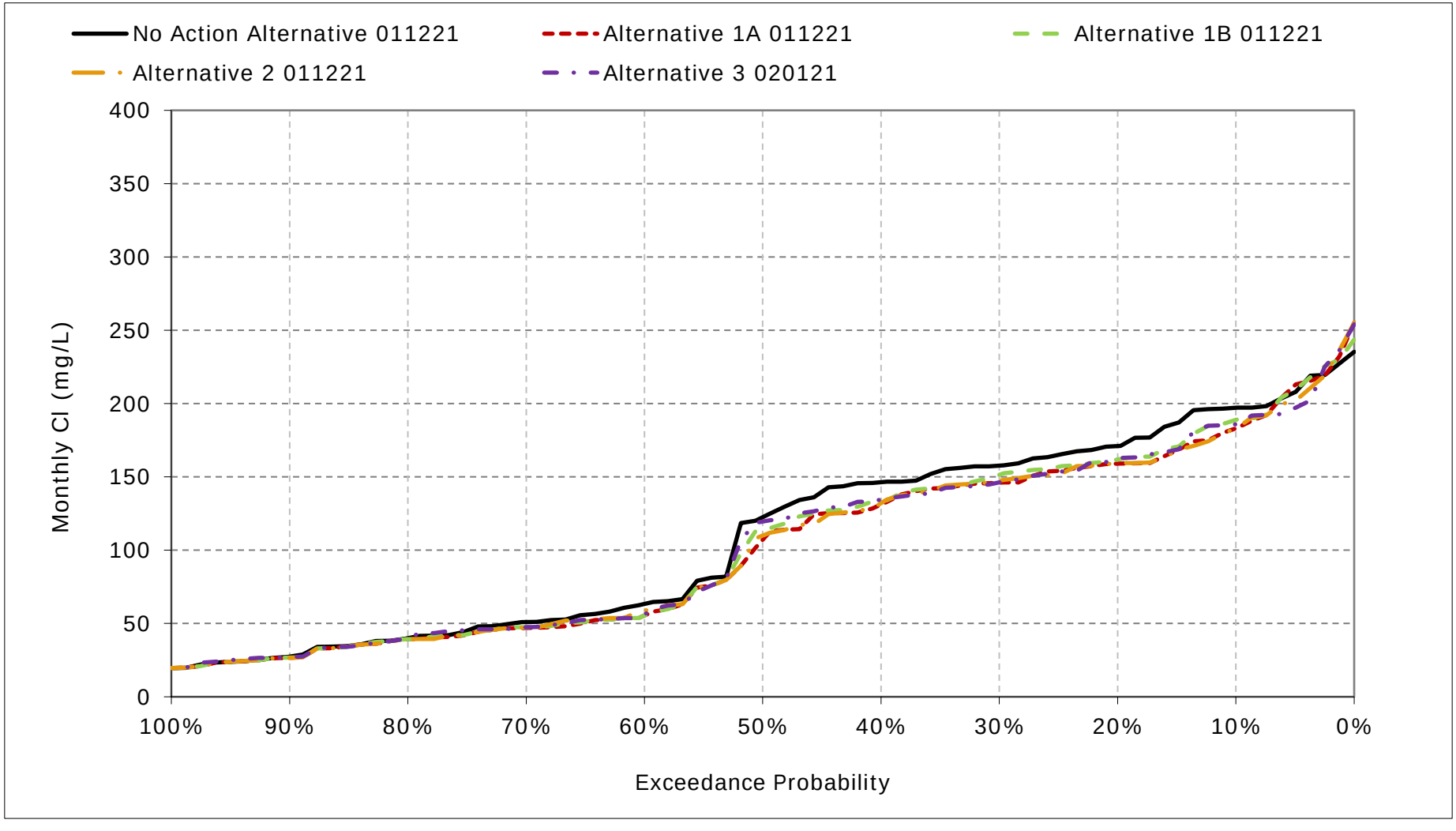
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-16. Contra Costa Pumping Plant Chloride, October Cl



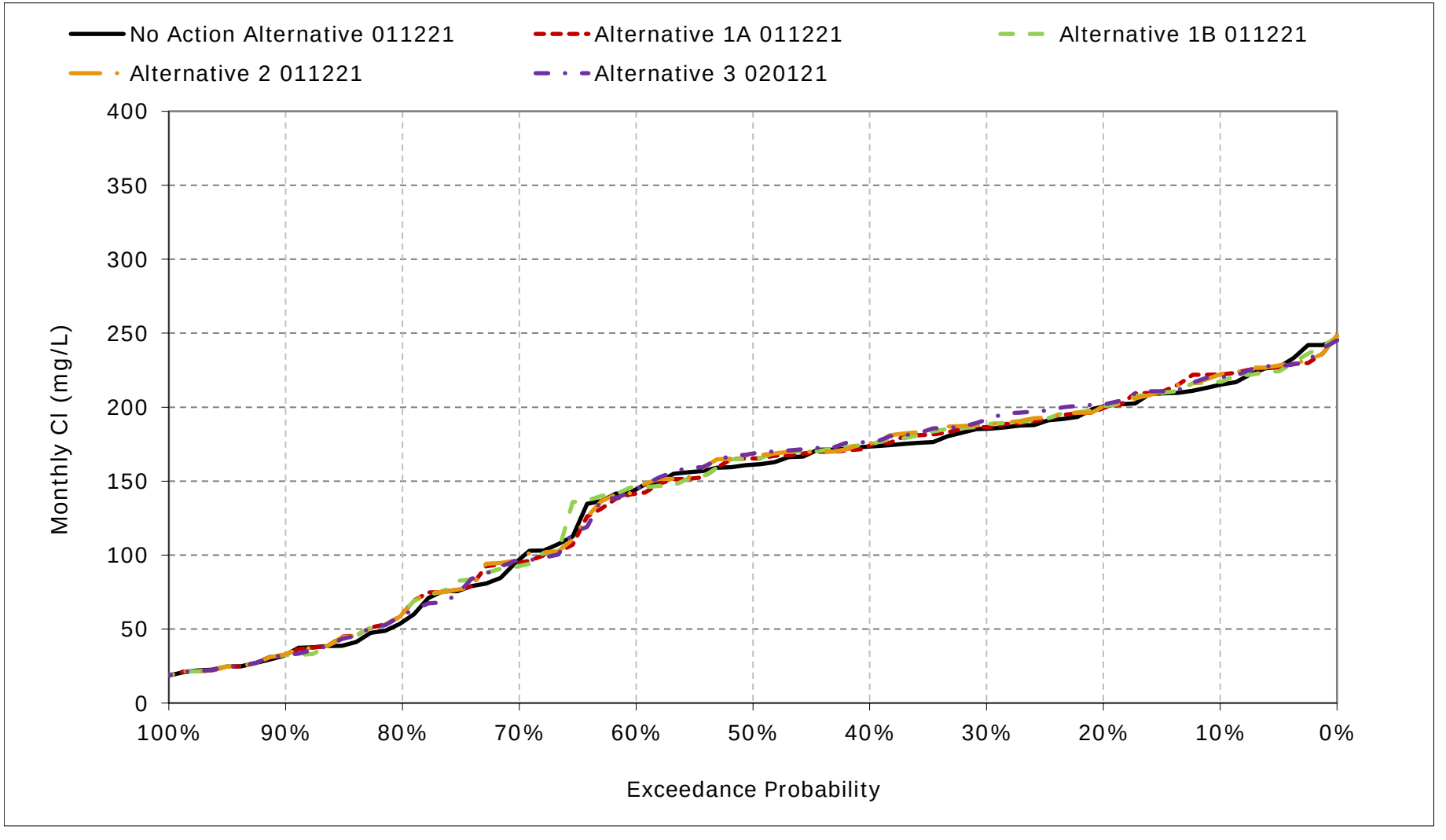
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-17. Contra Costa Pumping Plant Chloride, November Cl



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-1-18. Contra Costa Pumping Plant Chloride, December Cl



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-2-1a. San Joaquin River at Antioch, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,965	1,864	1,753	1,091	309	282	304	485	599	1,009	1,521	1,910
20%	1,891	1,784	1,398	822	188	100	102	324	543	899	1,371	1,818
30%	1,840	1,688	1,243	593	101	30	40	204	455	817	1,292	1,776
40%	1,757	1,445	1,079	330	58	27	28	69	316	574	1,152	1,706
50%	1,519	843	802	199	32	24	24	34	239	471	1,005	1,536
60%	390	793	642	76	27	22	21	24	140	328	682	453
70%	364	745	227	33	24	21	20	20	96	274	623	428
80%	337	598	131	24	21	20	19	18	27	225	574	403
90%	301	289	34	20	20	18	19	17	18	134	503	338
Long Term												
Full Simulation Period[a]	1,120	1,116	831	387	126	78	84	176	337	567	963	1,129
Water Year Types[b]												
Wet (32%)	315	561	609	57	25	21	20	28	68	186	514	356
Above Normal (15%)	373	735	703	230	40	22	21	27	158	281	612	421
Below Normal (17%)	1,602	1,197	791	391	62	39	39	92	266	516	1,061	1,640
Dry (22%)	1,874	1,564	922	603	201	93	94	224	474	865	1,328	1,778
Critical (15%)	1,918	1,934	1,349	931	395	279	324	669	976	1,291	1,627	1,939

Table 6B2-2-1b. San Joaquin River at Antioch, Alternative 1A 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,834	1,753	1,717	1,056	367	293	297	471	610	1,024	1,523	1,890
20%	1,770	1,684	1,414	887	195	103	102	326	533	895	1,288	1,731
30%	1,682	1,581	1,269	651	106	38	41	203	467	826	1,205	1,626
40%	1,564	1,388	1,119	334	60	27	28	70	327	566	1,034	1,500
50%	1,369	815	905	202	33	25	24	35	245	444	924	1,378
60%	349	778	615	83	28	23	21	24	142	328	653	423
70%	340	739	213	34	24	21	20	21	96	282	591	394
80%	307	663	139	24	22	21	19	18	32	230	548	371
90%	287	276	37	20	20	18	19	17	18	134	474	325
Long Term												
Full Simulation Period[a]	1,032	1,066	842	400	131	81	85	176	340	568	917	1,058
Water Year Types[b]												
Wet (32%)	291	565	632	58	25	21	20	28	69	187	495	335
Above Normal (15%)	352	726	721	251	41	22	21	27	161	282	590	394
Below Normal (17%)	1,495	1,153	784	399	65	43	39	93	272	509	968	1,483
Dry (22%)	1,748	1,469	905	621	205	96	94	222	474	868	1,246	1,635
Critical (15%)	1,701	1,790	1,394	957	414	291	327	674	985	1,298	1,605	1,927

Table 6B2-2-1c. San Joaquin River at Antioch, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-131	-111	-36	-35	58	11	-7	-14	11	15	3	-21
20%	-121	-100	15	65	7	3	0	2	-10	-5	-84	-87
30%	-158	-107	26	57	5	8	0	-1	12	9	-88	-150
40%	-193	-56	40	4	3	0	0	1	11	-8	-118	-206
50%	-150	-28	103	3	1	1	0	1	6	-27	-81	-158
60%	-40	-16	-27	7	0	1	0	0	3	0	-29	-30
70%	-24	-6	-13	0	0	0	0	0	0	8	-32	-34
80%	-29	66	8	0	0	0	0	0	5	4	-26	-32
90%	-15	-13	3	0	0	0	0	0	0	0	-28	-13
Long Term												
Full Simulation Period[a]	-88	-50	12	12	5	3	1	0	3	1	-46	-71
Water Year Types[b]												
Wet (32%)	-24	4	23	1	0	0	0	0	1	1	-19	-21
Above Normal (15%)	-21	-10	18	20	1	0	0	0	3	1	-22	-27
Below Normal (17%)	-107	-44	-7	8	3	4	0	0	5	-7	-93	-157
Dry (22%)	-126	-95	-17	18	5	2	0	-2	0	3	-82	-143
Critical (15%)	-217	-144	45	26	19	12	4	5	10	7	-22	-12

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-2-2a. San Joaquin River at Antioch, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,965	1,864	1,753	1,091	309	282	304	485	599	1,009	1,521	1,910
20%	1,891	1,784	1,398	822	188	100	102	324	543	899	1,371	1,818
30%	1,840	1,688	1,243	593	101	30	40	204	455	817	1,292	1,776
40%	1,757	1,445	1,079	330	58	27	28	69	316	574	1,152	1,706
50%	1,519	843	802	199	32	24	24	34	239	471	1,005	1,536
60%	390	793	642	76	27	22	21	24	140	328	682	453
70%	364	745	227	33	24	21	20	20	96	274	623	428
80%	337	598	131	24	21	20	19	18	27	225	574	403
90%	301	289	34	20	20	18	19	17	18	134	503	338
Long Term												
Full Simulation Period[a]	1,120	1,116	831	387	126	78	84	176	337	567	963	1,129
Water Year Types[b]												
Wet (32%)	315	561	609	57	25	21	20	28	68	186	514	356
Above Normal (15%)	373	735	703	230	40	22	21	27	158	281	612	421
Below Normal (17%)	1,602	1,197	791	391	62	39	39	92	266	516	1,061	1,640
Dry (22%)	1,874	1,564	922	603	201	93	94	224	474	865	1,328	1,778
Critical (15%)	1,918	1,934	1,349	931	395	279	324	669	976	1,291	1,627	1,939

Table 6B2-2-2b. San Joaquin River at Antioch, Alternative 1B 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,855	1,764	1,716	1,045	368	293	298	481	607	1,023	1,524	1,888
20%	1,771	1,679	1,415	886	194	103	102	325	534	900	1,291	1,730
30%	1,682	1,585	1,268	629	103	38	41	211	474	826	1,198	1,627
40%	1,608	1,396	1,135	329	60	27	28	69	327	567	1,034	1,497
50%	1,371	819	901	201	33	25	24	36	246	444	922	1,374
60%	352	777	584	82	28	23	21	24	143	327	653	433
70%	340	745	210	33	24	21	20	21	96	282	593	394
80%	308	663	139	24	22	21	19	18	32	230	548	372
90%	287	278	37	20	20	18	19	17	18	134	474	325
Long Term												
Full Simulation Period[a]	1,038	1,071	840	398	130	81	85	177	341	568	916	1,058
Water Year Types[b]												
Wet (32%)	292	566	631	58	25	21	20	28	69	187	495	335
Above Normal (15%)	357	728	717	250	41	22	21	27	161	282	590	398
Below Normal (17%)	1,490	1,137	778	398	65	43	39	92	272	507	962	1,475
Dry (22%)	1,768	1,492	903	617	204	95	94	224	478	869	1,247	1,646
Critical (15%)	1,715	1,797	1,392	951	411	291	328	675	987	1,298	1,603	1,919

Table 6B2-2-2c. San Joaquin River at Antioch, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-110	-100	-37	-46	59	11	-5	-4	7	14	3	-22
20%	-120	-105	16	64	6	3	0	1	-8	0	-80	-88
30%	-159	-103	25	35	2	8	1	7	19	9	-94	-149
40%	-149	-49	57	-1	3	0	0	0	11	-7	-118	-209
50%	-148	-24	99	3	1	1	0	1	6	-27	-84	-162
60%	-38	-16	-58	6	0	1	0	0	3	-1	-29	-20
70%	-23	-1	-16	0	0	0	0	0	0	8	-30	-34
80%	-29	66	8	0	0	0	0	0	5	4	-26	-31
90%	-15	-11	3	0	0	0	0	0	0	0	-29	-13
Long Term												
Full Simulation Period[a]	-82	-45	9	10	4	3	1	1	4	1	-47	-70
Water Year Types[b]												
Wet (32%)	-24	5	22	1	0	0	0	0	1	1	-19	-22
Above Normal (15%)	-16	-7	14	20	1	0	0	1	3	1	-22	-23
Below Normal (17%)	-112	-60	-13	8	3	4	0	0	5	-9	-100	-164
Dry (22%)	-106	-72	-19	13	4	2	1	0	4	4	-81	-133
Critical (15%)	-203	-136	43	20	16	12	4	6	11	7	-24	-20

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-2-3a. San Joaquin River at Antioch, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,965	1,864	1,753	1,091	309	282	304	485	599	1,009	1,521	1,910
20%	1,891	1,784	1,398	822	188	100	102	324	543	899	1,371	1,818
30%	1,840	1,688	1,243	593	101	30	40	204	455	817	1,292	1,776
40%	1,757	1,445	1,079	330	58	27	28	69	316	574	1,152	1,706
50%	1,519	843	802	199	32	24	24	34	239	471	1,005	1,536
60%	390	793	642	76	27	22	21	24	140	328	682	453
70%	364	745	227	33	24	21	20	20	96	274	623	428
80%	337	598	131	24	21	20	19	18	27	225	574	403
90%	301	289	34	20	20	18	19	17	18	134	503	338
Long Term												
Full Simulation Period[a]	1,120	1,116	831	387	126	78	84	176	337	567	963	1,129
Water Year Types[b]												
Wet (32%)	315	561	609	57	25	21	20	28	68	186	514	356
Above Normal (15%)	373	735	703	230	40	22	21	27	158	281	612	421
Below Normal (17%)	1,602	1,197	791	391	62	39	39	92	266	516	1,061	1,640
Dry (22%)	1,874	1,564	922	603	201	93	94	224	474	865	1,328	1,778
Critical (15%)	1,918	1,934	1,349	931	395	279	324	669	976	1,291	1,627	1,939

Table 6B2-2-3b. San Joaquin River at Antioch, Alternative 2 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,859	1,772	1,719	1,059	367	293	297	471	609	1,022	1,522	1,878
20%	1,767	1,707	1,415	886	195	103	102	326	534	895	1,303	1,743
30%	1,709	1,601	1,269	651	106	38	41	203	468	826	1,197	1,639
40%	1,572	1,396	1,128	334	60	27	28	70	327	567	1,042	1,484
50%	1,368	850	906	202	33	25	24	35	245	444	925	1,378
60%	352	777	616	83	28	23	21	24	142	328	653	419
70%	340	739	222	34	24	21	20	21	96	282	591	394
80%	306	663	138	24	22	21	19	18	32	230	548	371
90%	284	276	37	20	20	18	19	17	18	134	474	310
Long Term												
Full Simulation Period[a]	1,035	1,077	847	399	130	81	85	176	340	568	915	1,057
Water Year Types[b]												
Wet (32%)	294	569	632	58	25	21	20	28	69	187	490	330
Above Normal (15%)	352	725	721	251	41	22	21	27	161	282	588	393
Below Normal (17%)	1,483	1,149	783	404	65	43	39	93	271	509	966	1,475
Dry (22%)	1,754	1,507	930	620	205	96	94	222	474	868	1,248	1,644
Critical (15%)	1,721	1,800	1,388	952	411	290	328	675	985	1,297	1,601	1,926

Table 6B2-2-3c. San Joaquin River at Antioch, Alternative 2 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-106	-92	-33	-32	58	11	-7	-14	10	14	2	-33
20%	-124	-77	17	64	7	3	0	2	-8	-5	-68	-75
30%	-131	-86	26	57	5	8	0	-1	12	9	-95	-137
40%	-185	-49	49	4	3	0	0	1	11	-7	-111	-222
50%	-151	7	103	3	1	1	0	1	6	-27	-81	-158
60%	-38	-16	-27	7	0	1	0	0	3	0	-30	-34
70%	-24	-7	-4	0	0	0	0	0	0	8	-32	-34
80%	-31	65	8	1	0	0	0	0	5	4	-26	-32
90%	-17	-13	3	0	0	0	0	0	0	0	-28	-29
Long Term												
Full Simulation Period[a]	-85	-39	16	12	4	3	1	0	3	1	-48	-72
Water Year Types[b]												
Wet (32%)	-21	8	23	1	0	0	0	0	1	1	-23	-26
Above Normal (15%)	-21	-10	18	20	1	0	0	0	3	1	-24	-28
Below Normal (17%)	-119	-48	-7	13	3	4	0	0	5	-7	-95	-165
Dry (22%)	-120	-58	8	17	5	2	0	-2	0	3	-80	-134
Critical (15%)	-197	-134	39	21	15	11	4	5	10	6	-26	-13

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-2-4a. San Joaquin River at Antioch, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,965	1,864	1,753	1,091	309	282	304	485	599	1,009	1,521	1,910
20%	1,891	1,784	1,398	822	188	100	102	324	543	899	1,371	1,818
30%	1,840	1,688	1,243	593	101	30	40	204	455	817	1,292	1,776
40%	1,757	1,445	1,079	330	58	27	28	69	316	574	1,152	1,706
50%	1,519	843	802	199	32	24	24	34	239	471	1,005	1,536
60%	390	793	642	76	27	22	21	24	140	328	682	453
70%	364	745	227	33	24	21	20	20	96	274	623	428
80%	337	598	131	24	21	20	19	18	27	225	574	403
90%	301	289	34	20	20	18	19	17	18	134	503	338
Long Term												
Full Simulation Period[a]	1,120	1,116	831	387	126	78	84	176	337	567	963	1,129
Water Year Types[b]												
Wet (32%)	315	561	609	57	25	21	20	28	68	186	514	356
Above Normal (15%)	373	735	703	230	40	22	21	27	158	281	612	421
Below Normal (17%)	1,602	1,197	791	391	62	39	39	92	266	516	1,061	1,640
Dry (22%)	1,874	1,564	922	603	201	93	94	224	474	865	1,328	1,778
Critical (15%)	1,918	1,934	1,349	931	395	279	324	669	976	1,291	1,627	1,939

Table 6B2-2-4b. San Joaquin River at Antioch, Alternative 3 020121, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,879	1,811	1,735	1,049	360	291	294	479	613	1,020	1,547	1,912
20%	1,791	1,725	1,419	885	191	104	102	340	544	907	1,317	1,793
30%	1,735	1,628	1,272	604	107	38	42	212	475	812	1,204	1,675
40%	1,606	1,389	1,139	345	65	27	28	68	328	566	1,043	1,503
50%	1,325	829	869	199	33	25	24	35	246	440	917	1,362
60%	360	769	606	78	27	23	21	24	144	320	653	429
70%	341	739	225	31	24	21	20	21	97	282	590	394
80%	310	643	129	24	22	21	19	18	32	230	547	377
90%	289	277	38	20	20	18	19	17	18	134	473	325
Long Term												
Full Simulation Period[a]	1,049	1,078	843	397	129	81	85	179	343	567	922	1,072
Water Year Types[b]												
Wet (32%)	293	566	631	57	25	21	20	28	69	187	494	336
Above Normal (15%)	366	726	705	250	40	22	21	27	162	280	590	398
Below Normal (17%)	1,476	1,125	761	420	66	43	39	92	273	506	964	1,475
Dry (22%)	1,791	1,524	938	603	196	94	94	230	483	862	1,259	1,689
Critical (15%)	1,760	1,819	1,391	945	415	292	327	679	991	1,303	1,626	1,949

Table 6B2-2-4c. San Joaquin River at Antioch, Alternative 3 020121 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-86	-53	-18	-42	51	10	-9	-6	14	11	26	1
20%	-100	-60	20	63	3	4	0	16	2	8	-54	-25
30%	-105	-60	29	10	6	8	1	8	20	-5	-88	-101
40%	-151	-56	60	15	8	0	0	-1	12	-8	-109	-204
50%	-194	-14	67	1	1	1	0	1	7	-31	-88	-174
60%	-30	-24	-37	2	0	1	0	0	5	-8	-29	-24
70%	-23	-6	-1	-3	0	0	0	0	1	8	-33	-34
80%	-26	46	-1	0	0	0	0	0	5	4	-27	-25
90%	-12	-13	4	0	0	0	0	0	0	0	-30	-14
Long Term												
Full Simulation Period[a]	-71	-38	12	10	3	3	1	3	6	0	-41	-56
Water Year Types[b]												
Wet (32%)	-22	5	22	0	0	0	0	0	1	1	-20	-21
Above Normal (15%)	-7	-10	1	20	1	0	0	1	3	-1	-22	-23
Below Normal (17%)	-126	-72	-29	30	4	4	0	0	6	-10	-97	-165
Dry (22%)	-83	-40	16	-1	-4	0	0	7	9	-3	-69	-89
Critical (15%)	-158	-115	42	13	19	13	4	9	15	12	-1	10

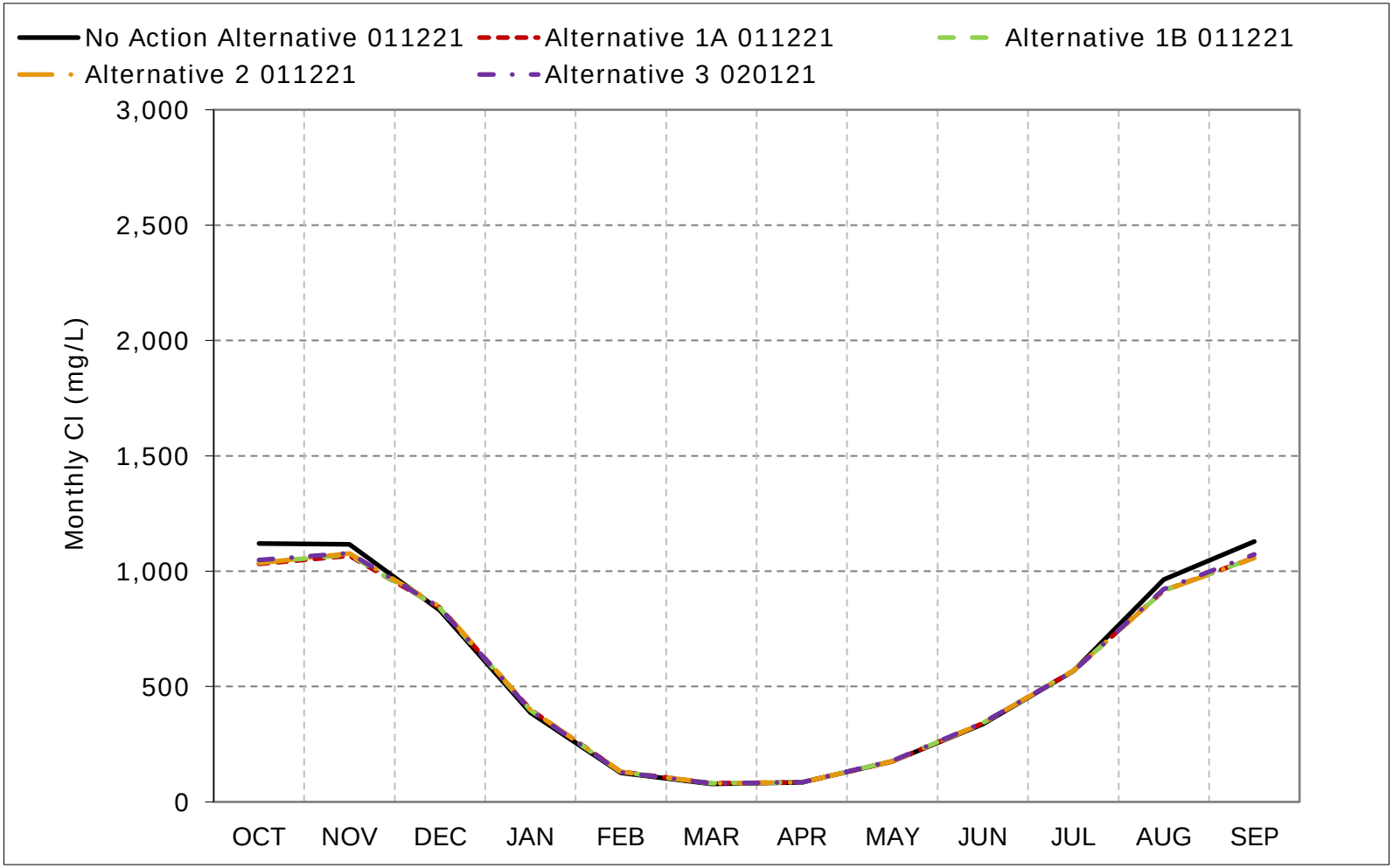
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-1. San Joaquin River at Antioch, Long-Term Average Cl

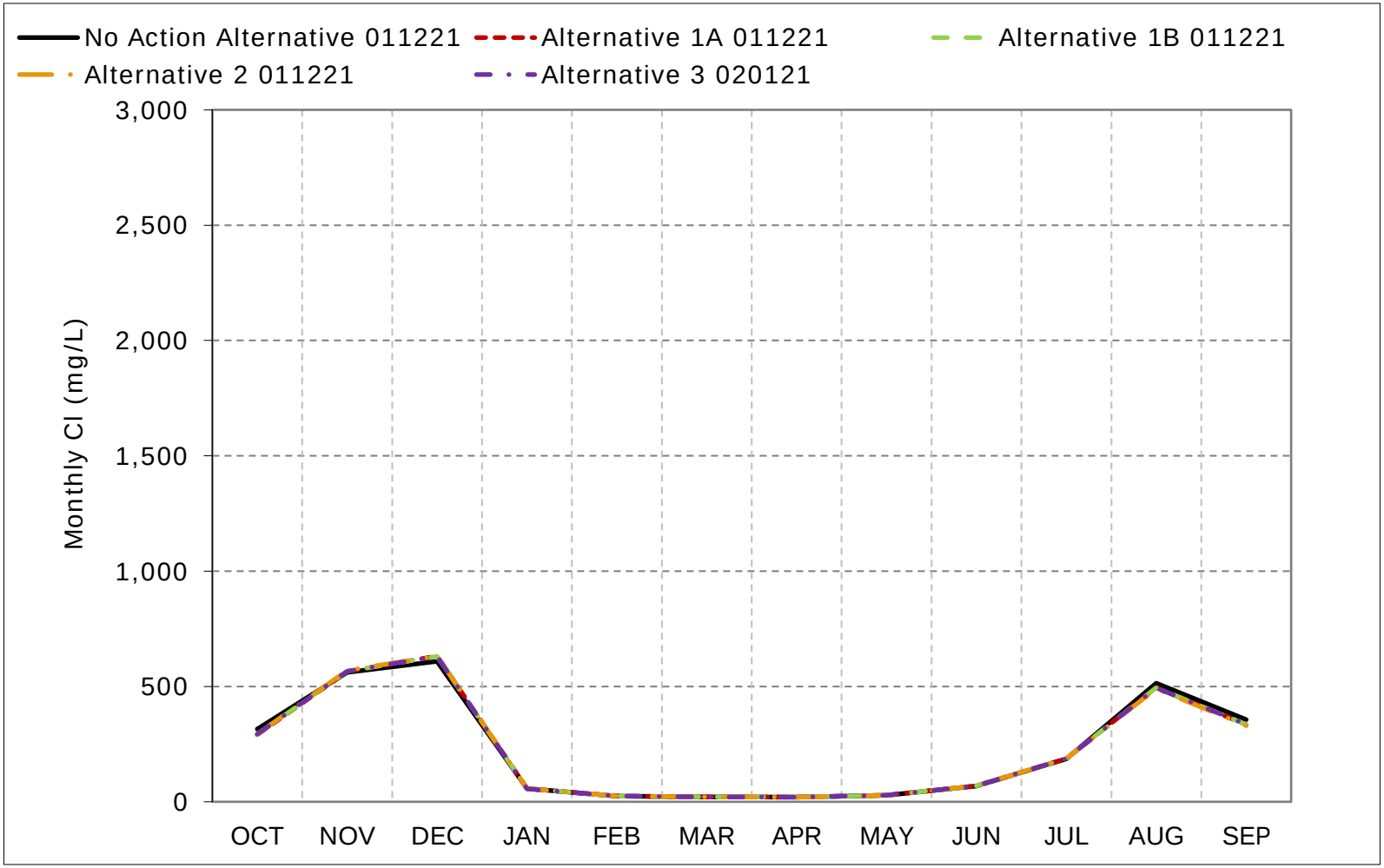


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-2. San Joaquin River at Antioch, Wet Year Average Cl

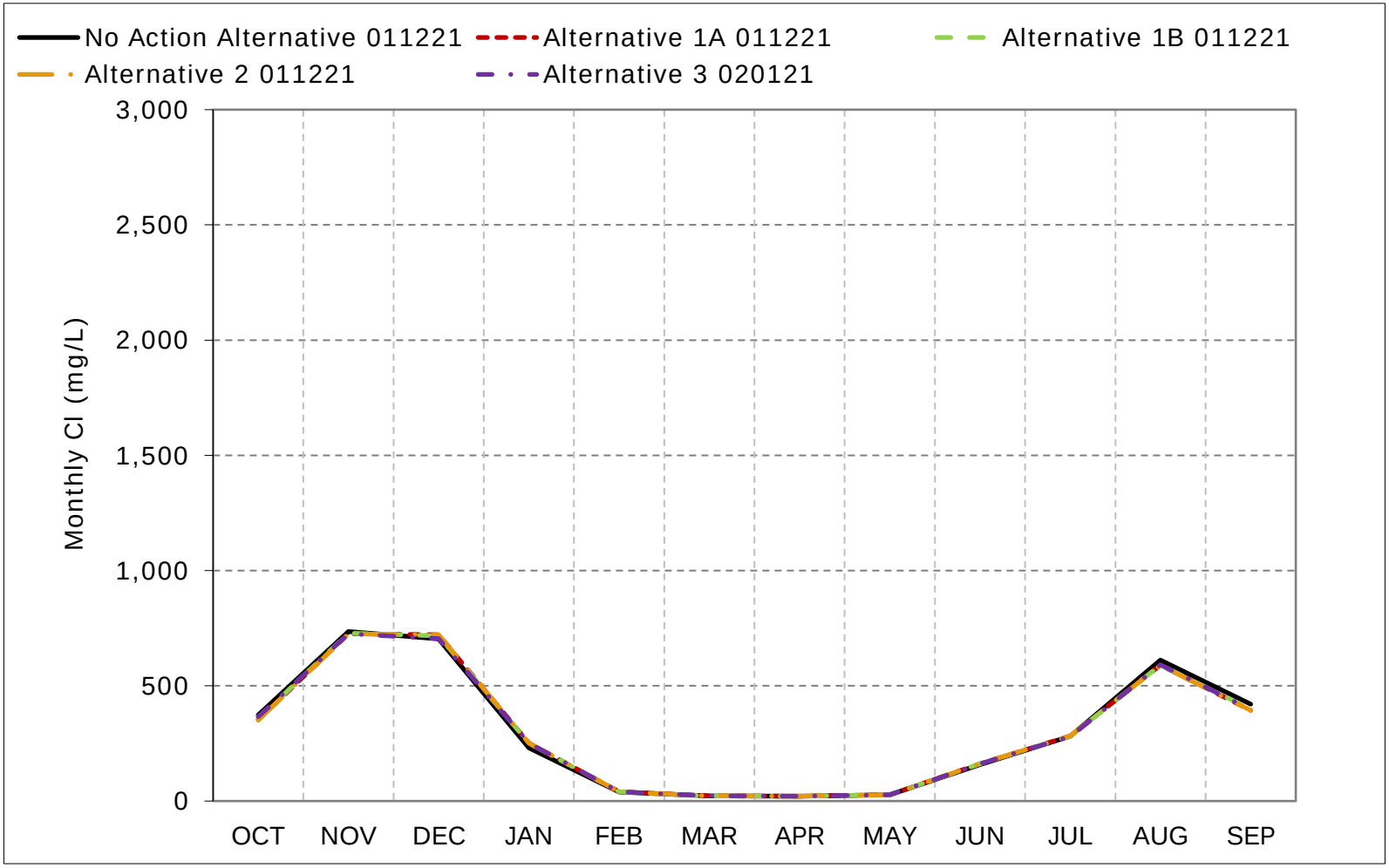


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-3. San Joaquin River at Antioch, Above Normal Year Average Cl

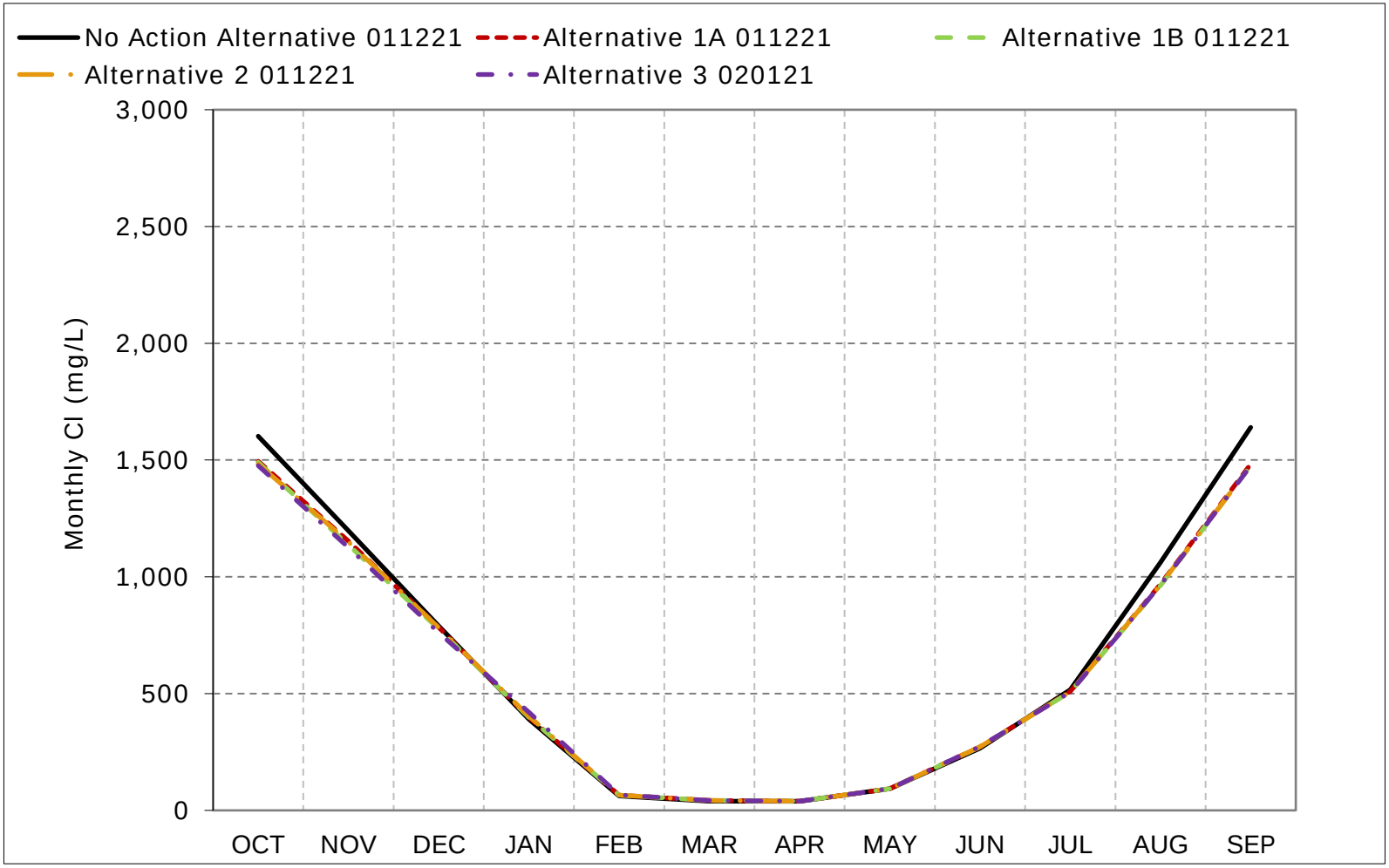


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-4. San Joaquin River at Antioch, Below Normal Year Average Cl

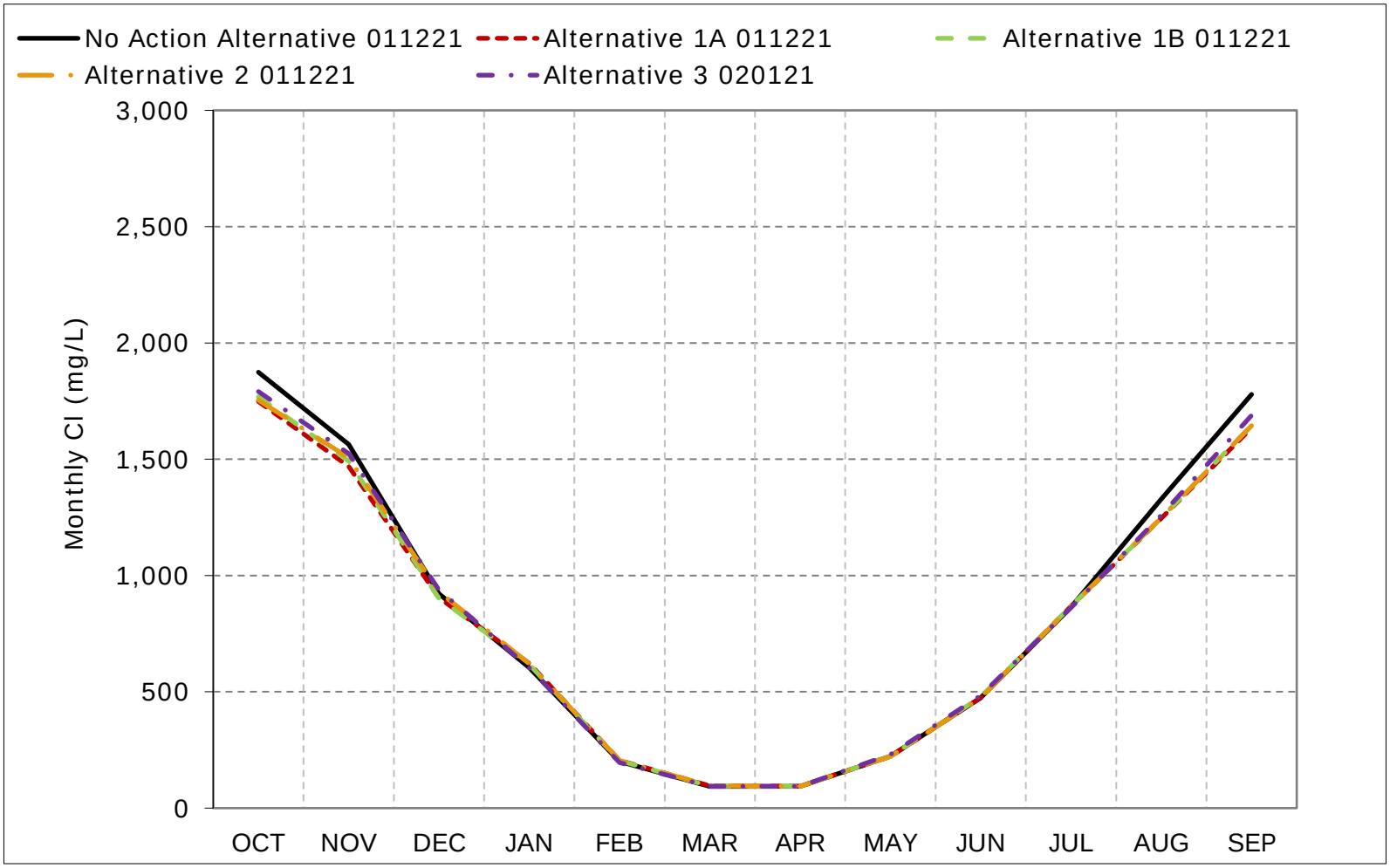


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-5. San Joaquin River at Antioch, Dry Year Average Cl

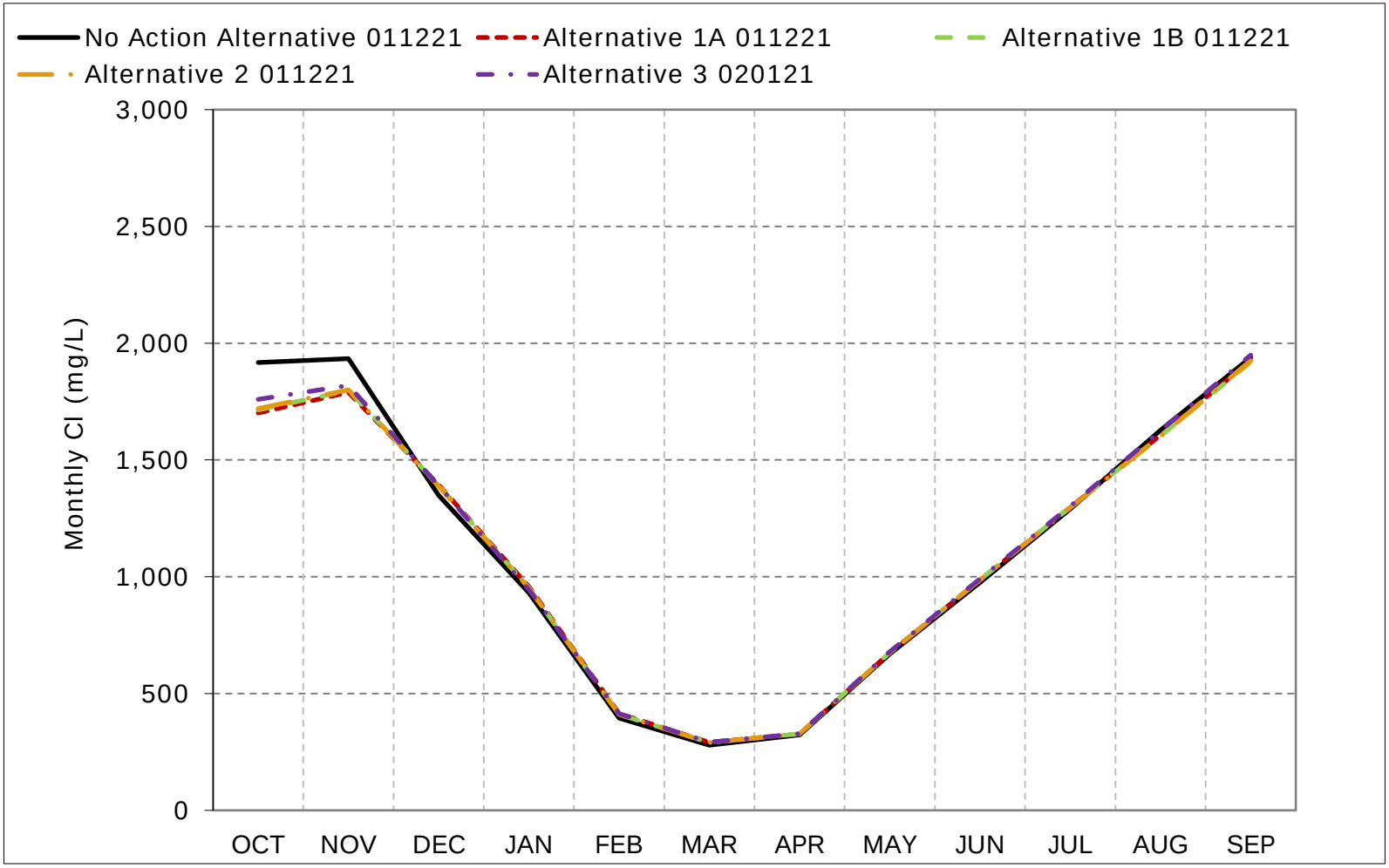


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-6. San Joaquin River at Antioch, Critical Year Average Cl

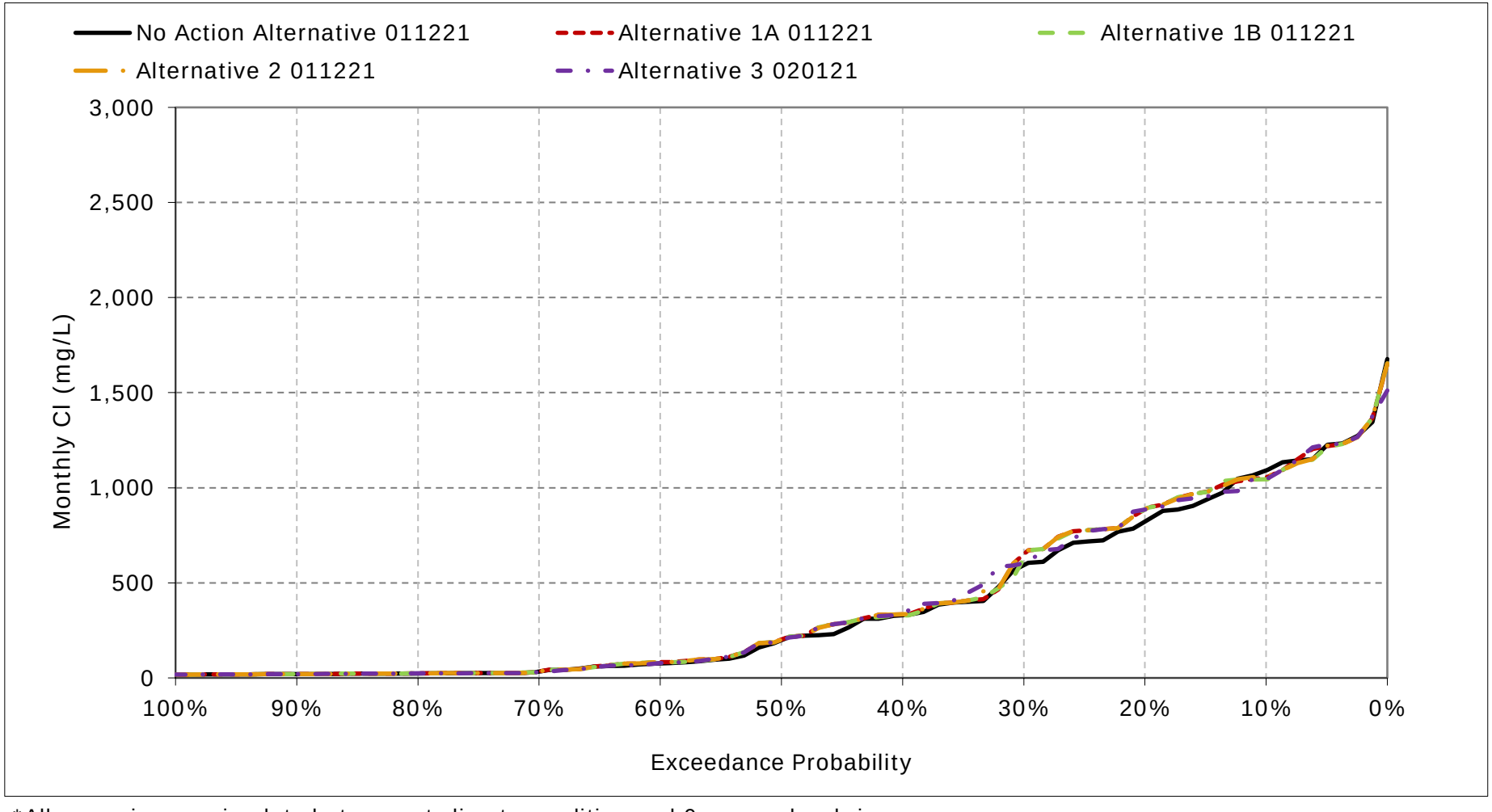


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

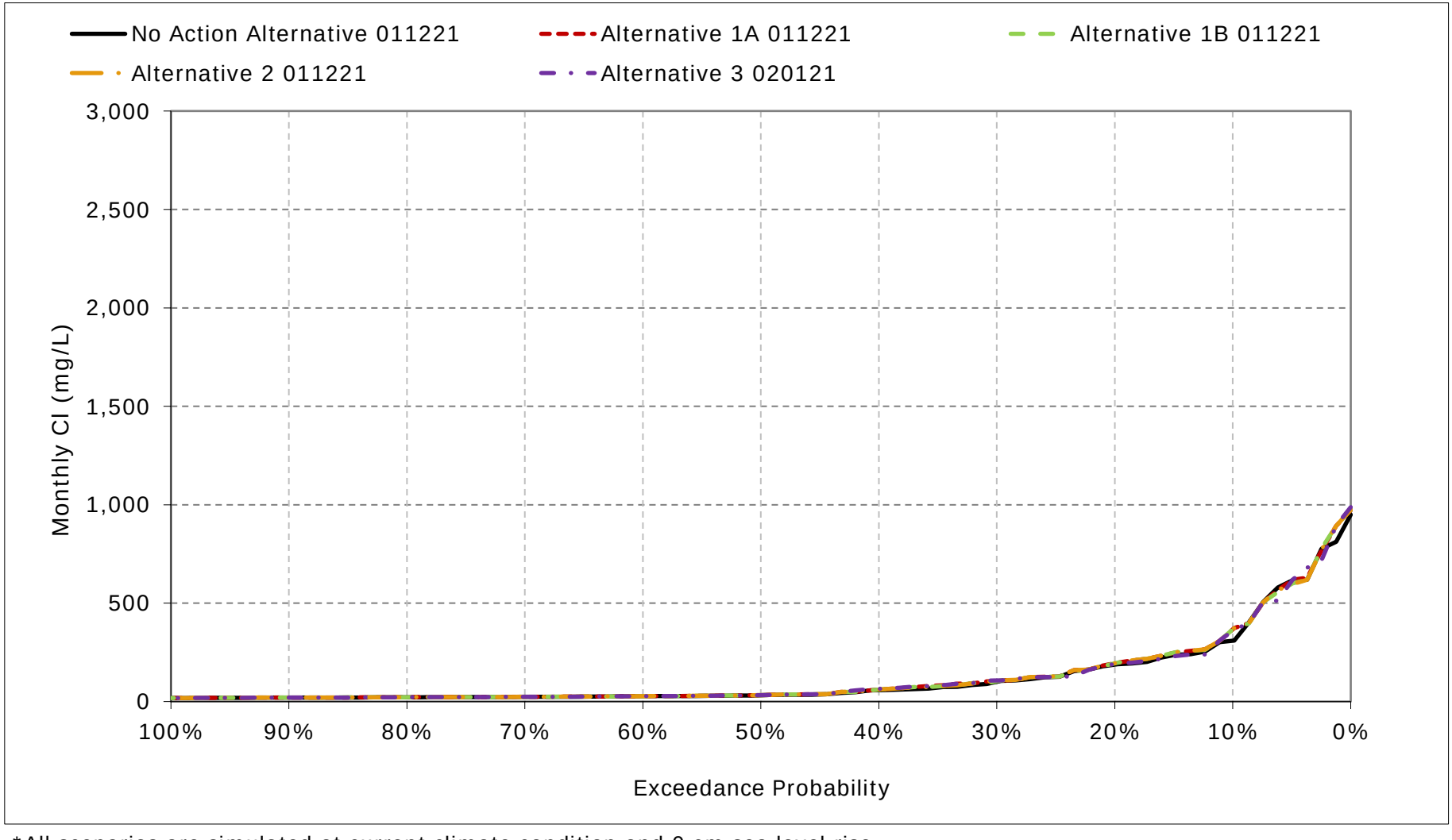
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-7. San Joaquin River at Antioch Chloride, January Cl



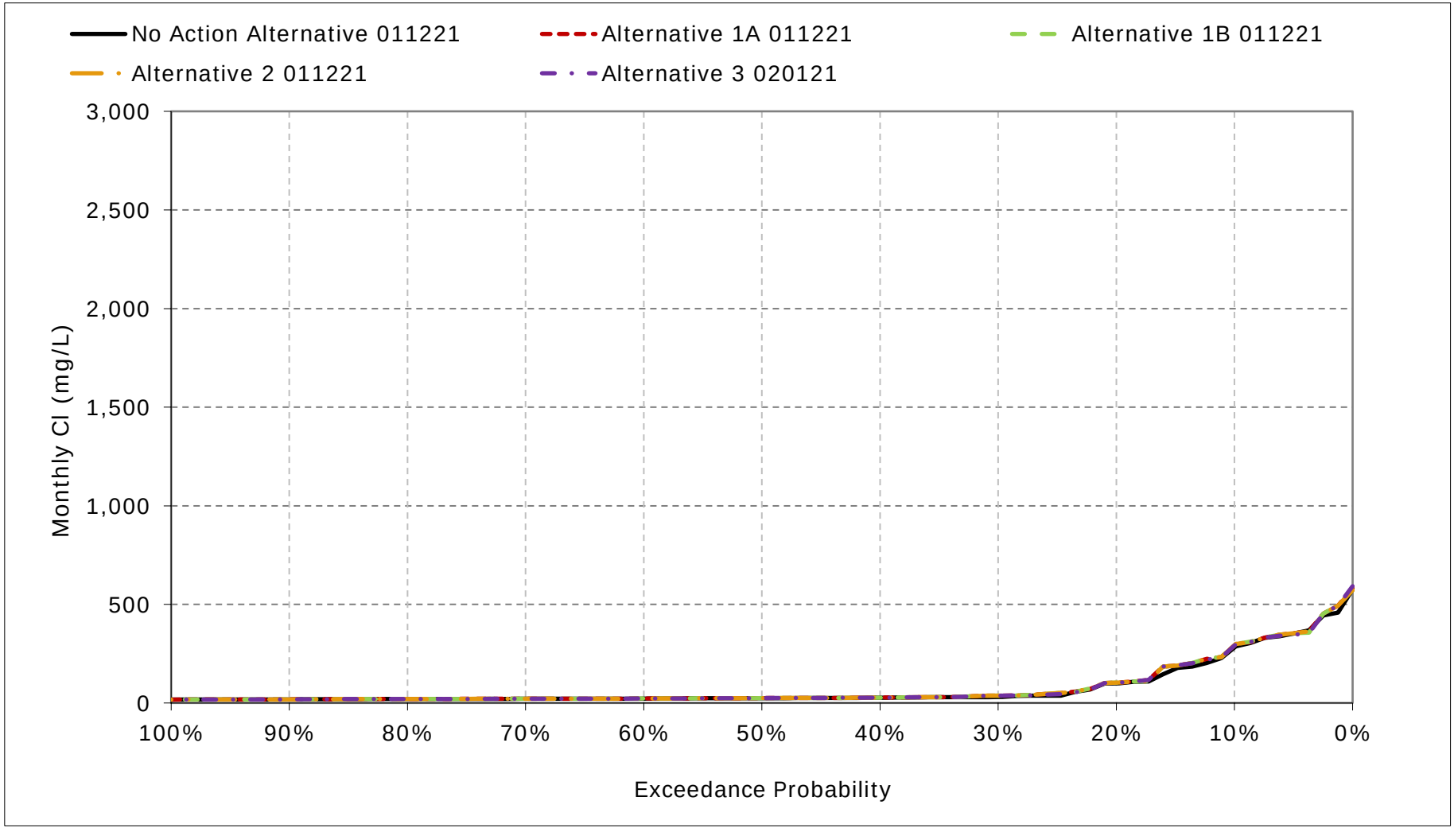
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-8. San Joaquin River at Antioch Chloride, February Cl



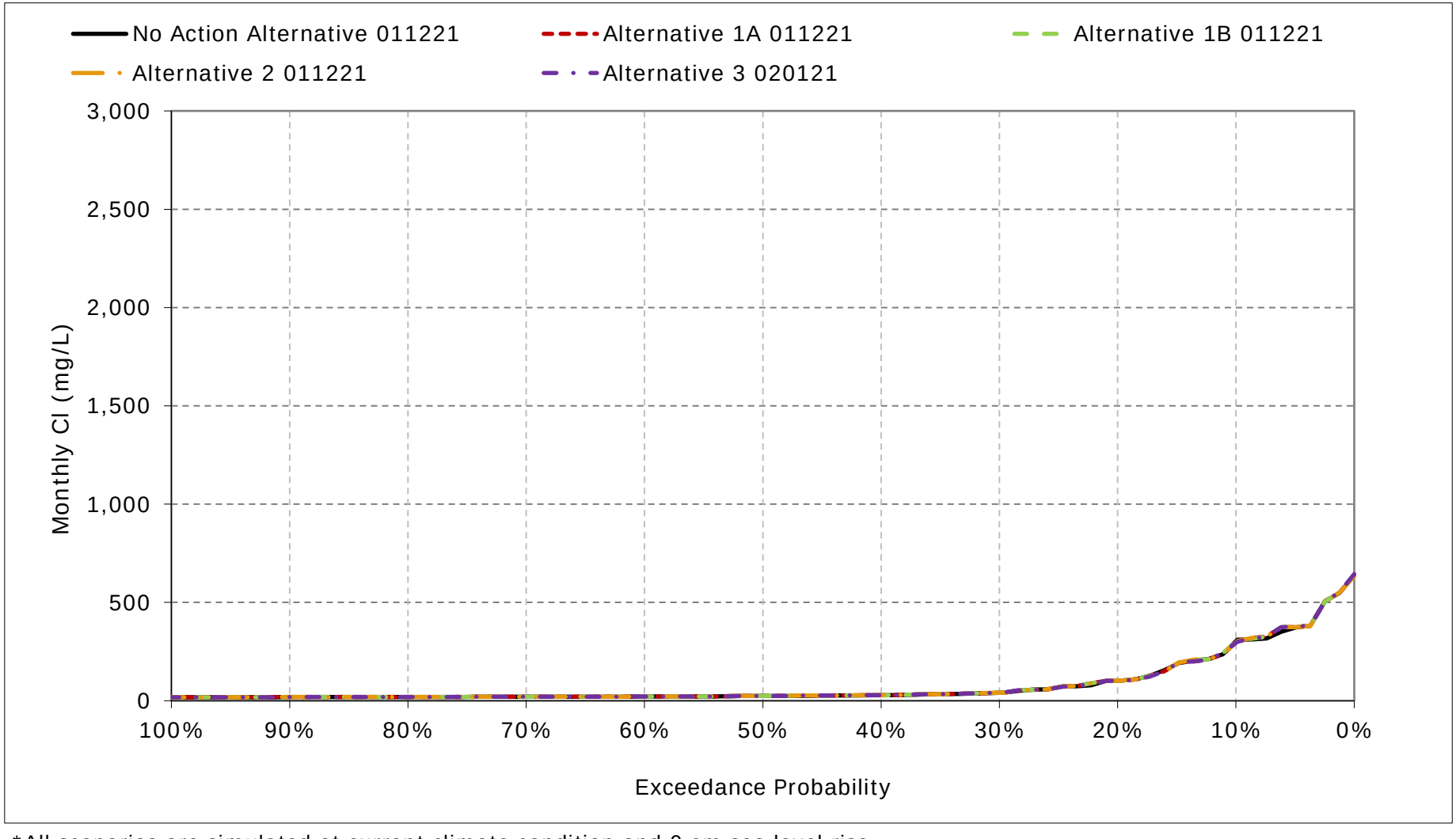
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-9. San Joaquin River at Antioch Chloride, March Cl



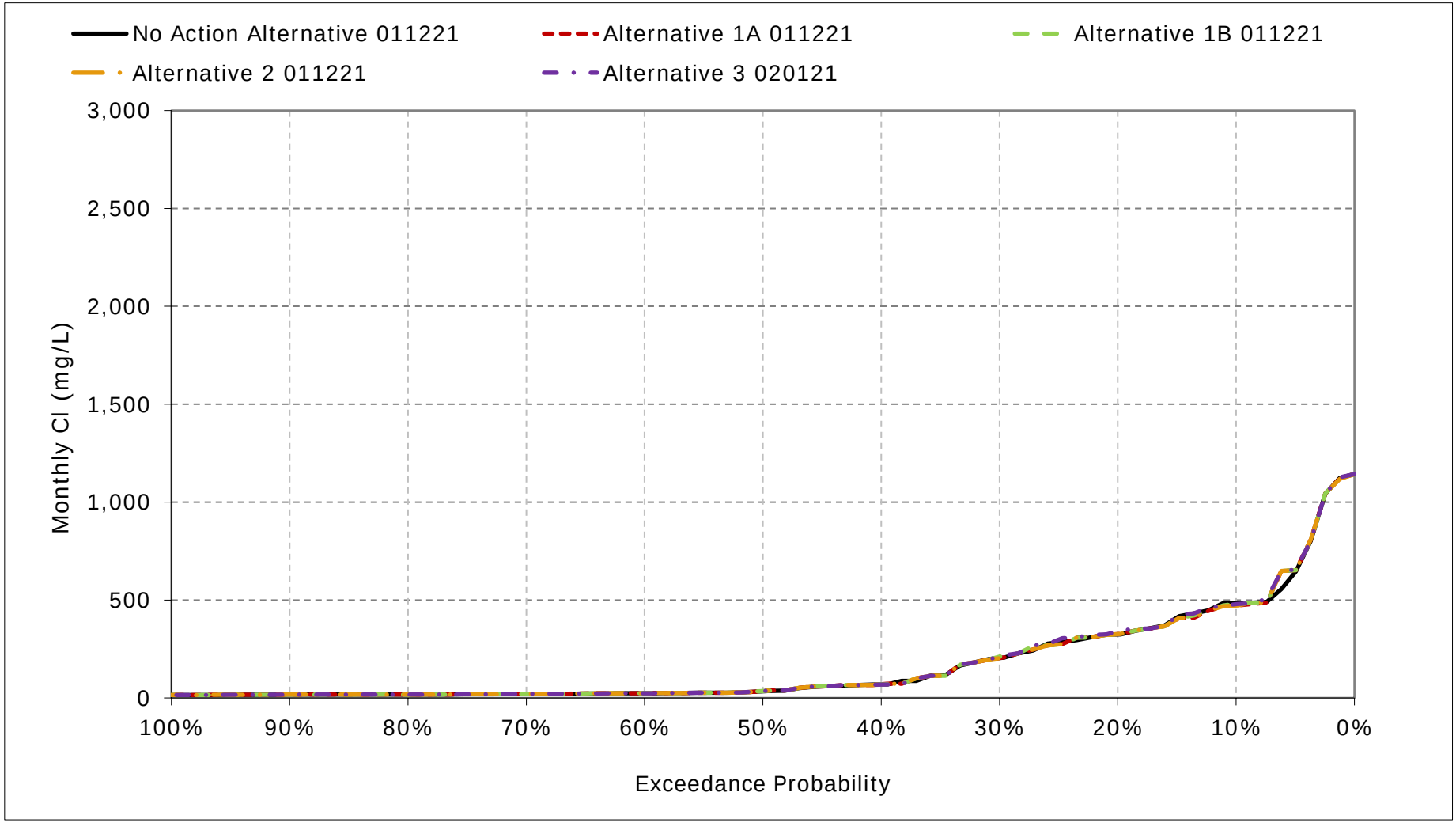
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-10. San Joaquin River at Antioch Chloride, April Cl



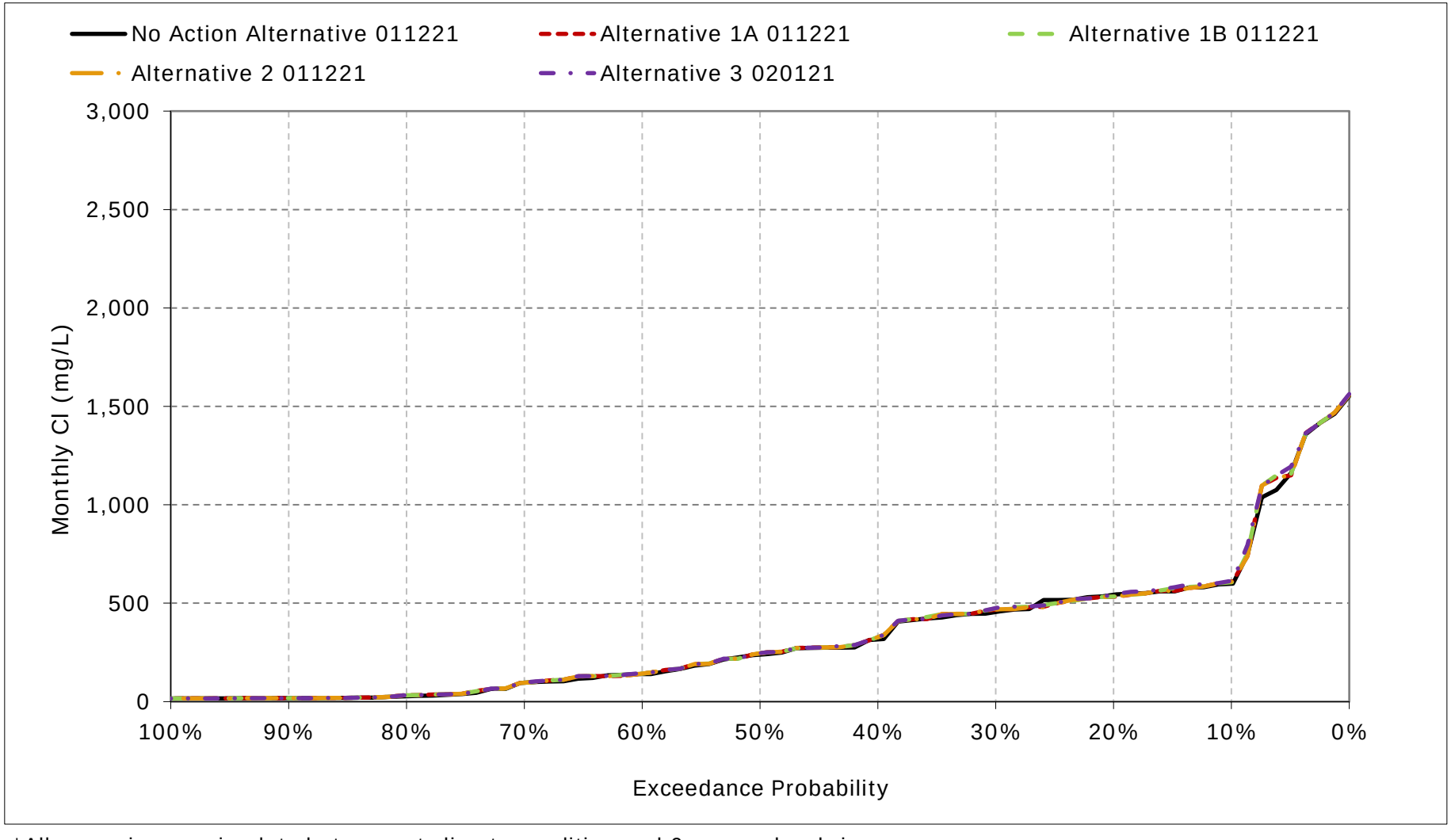
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-11. San Joaquin River at Antioch Chloride, May Cl



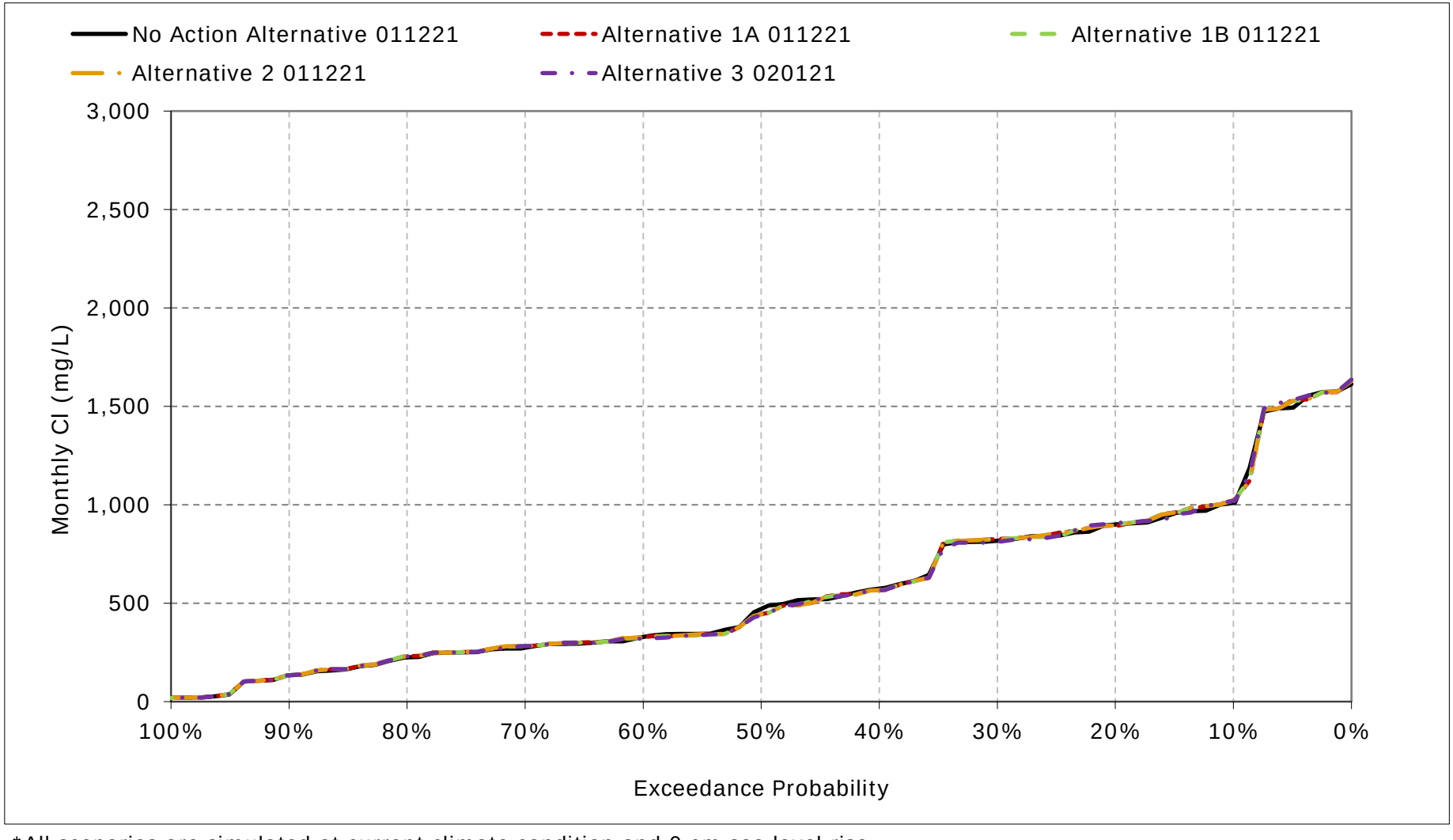
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-12. San Joaquin River at Antioch Chloride, June Cl



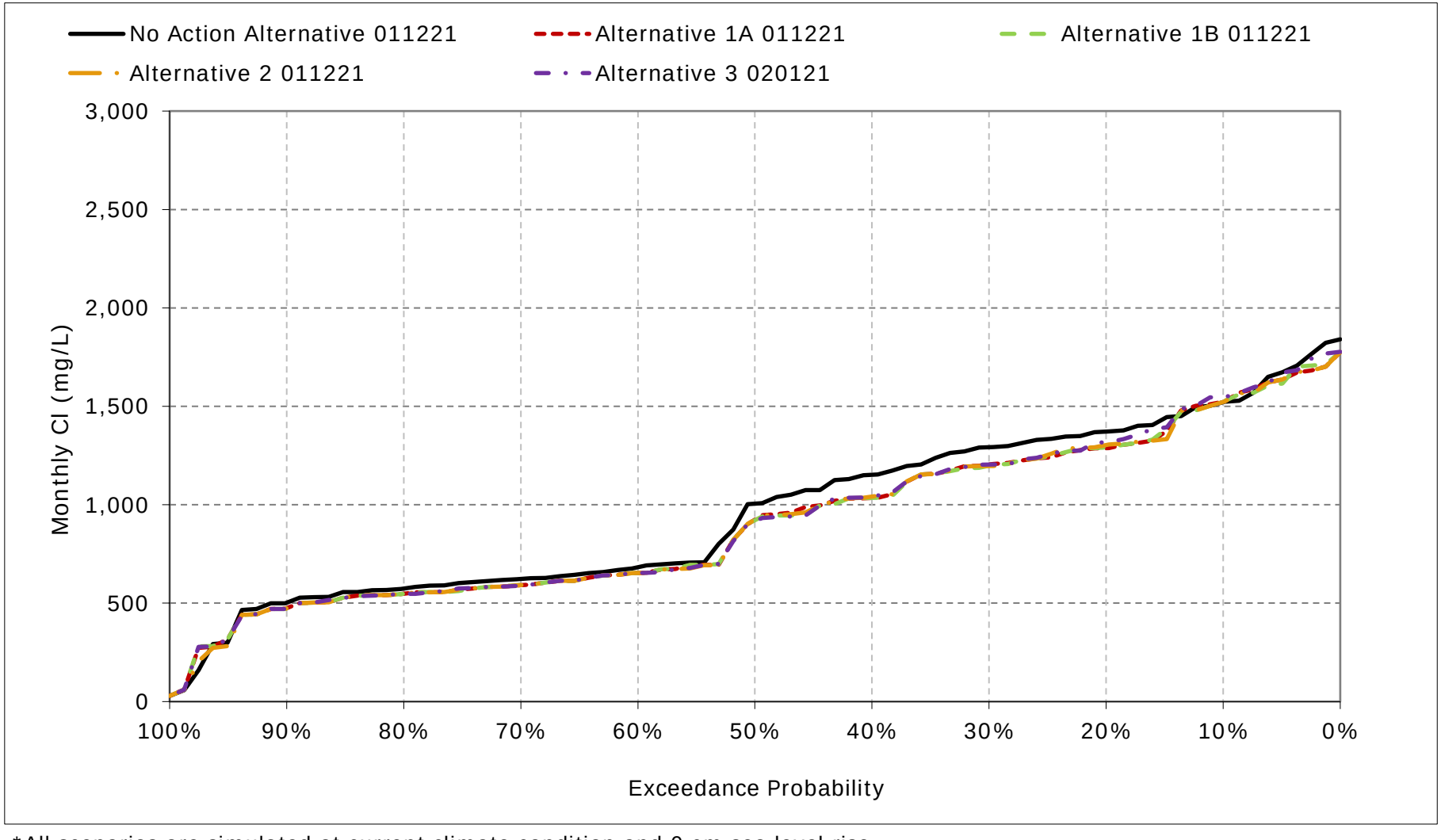
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-13. San Joaquin River at Antioch Chloride, July Cl



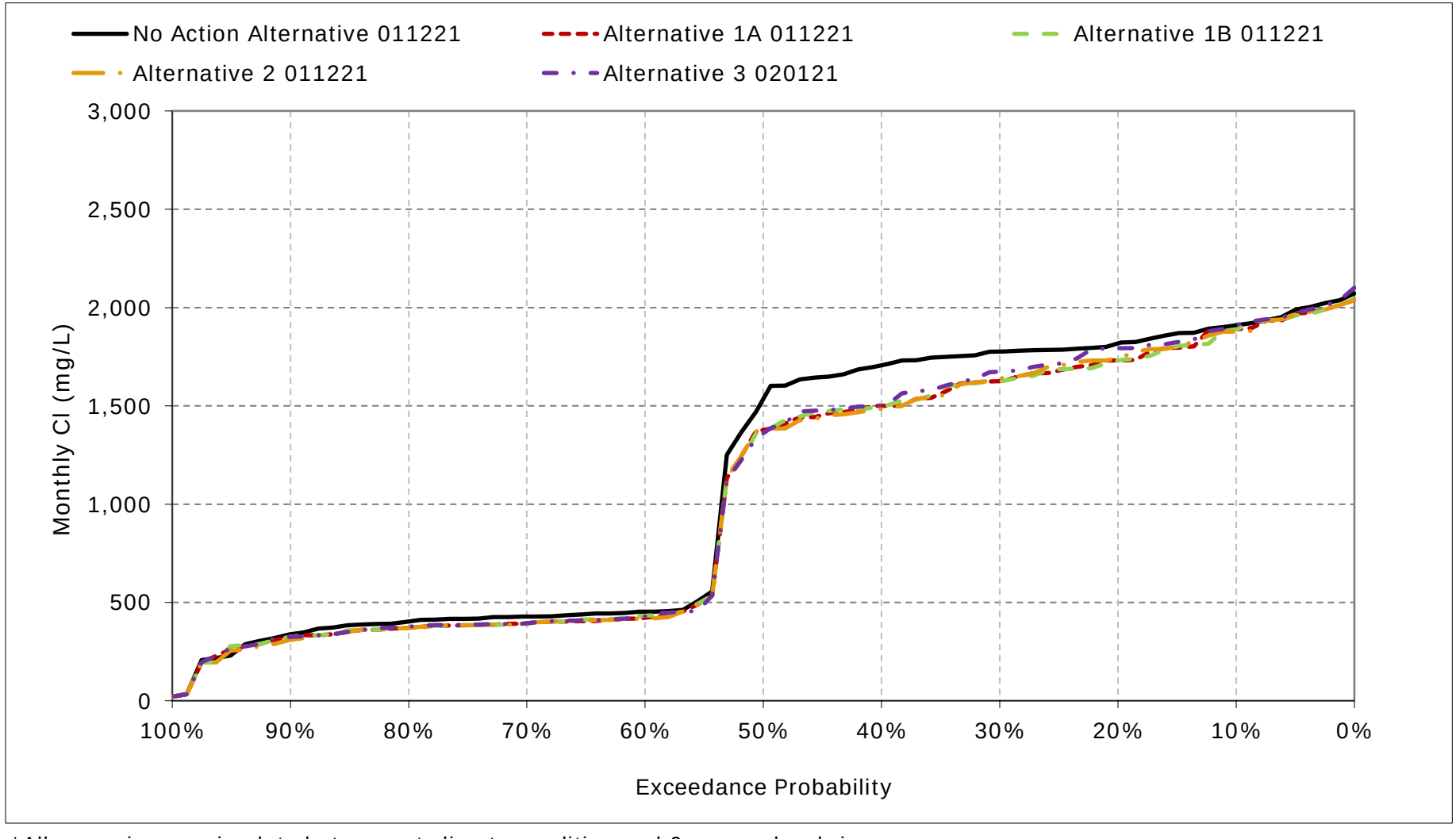
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-14. San Joaquin River at Antioch Chloride, August Cl



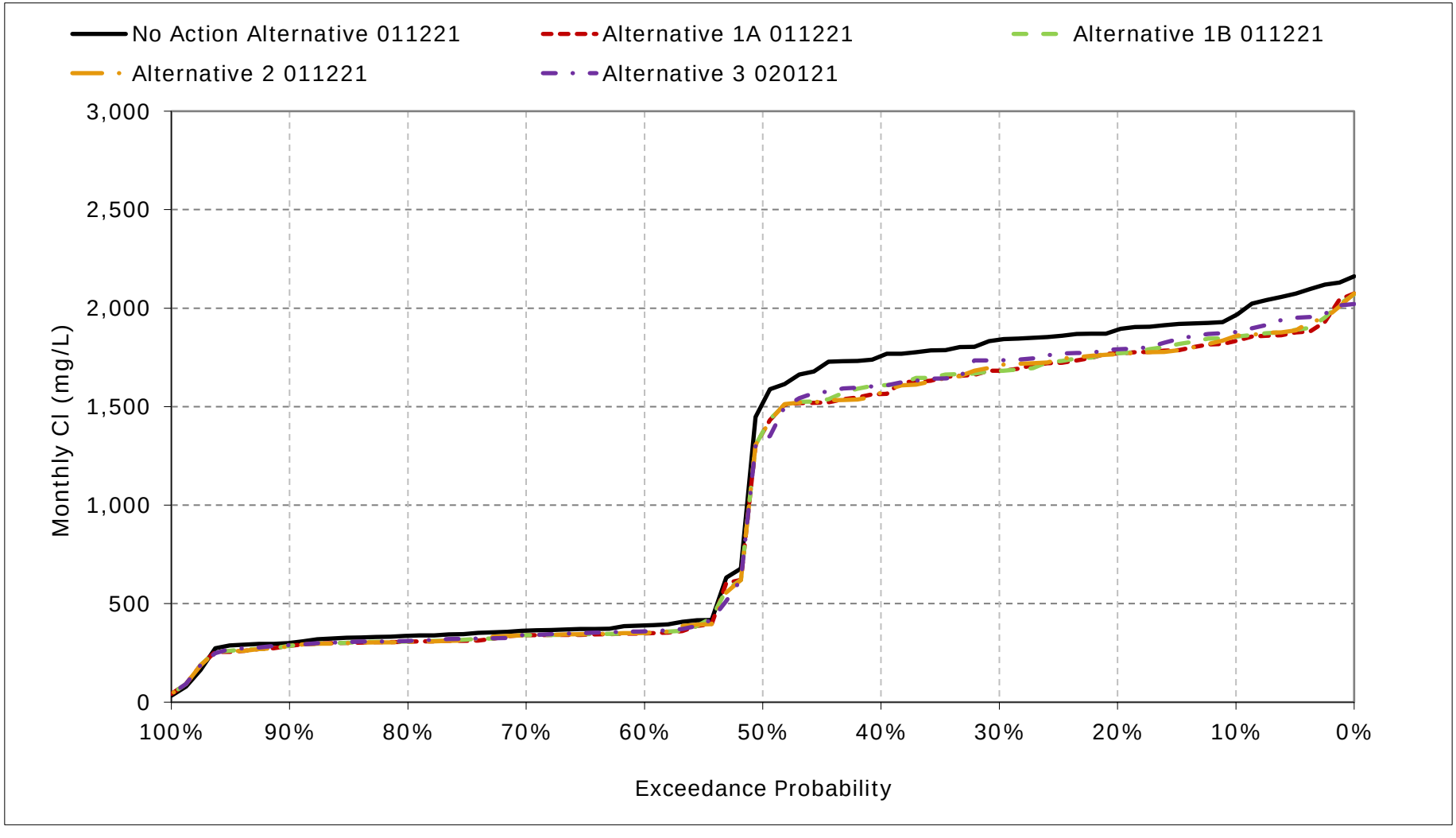
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-15. San Joaquin River at Antioch Chloride, September Cl



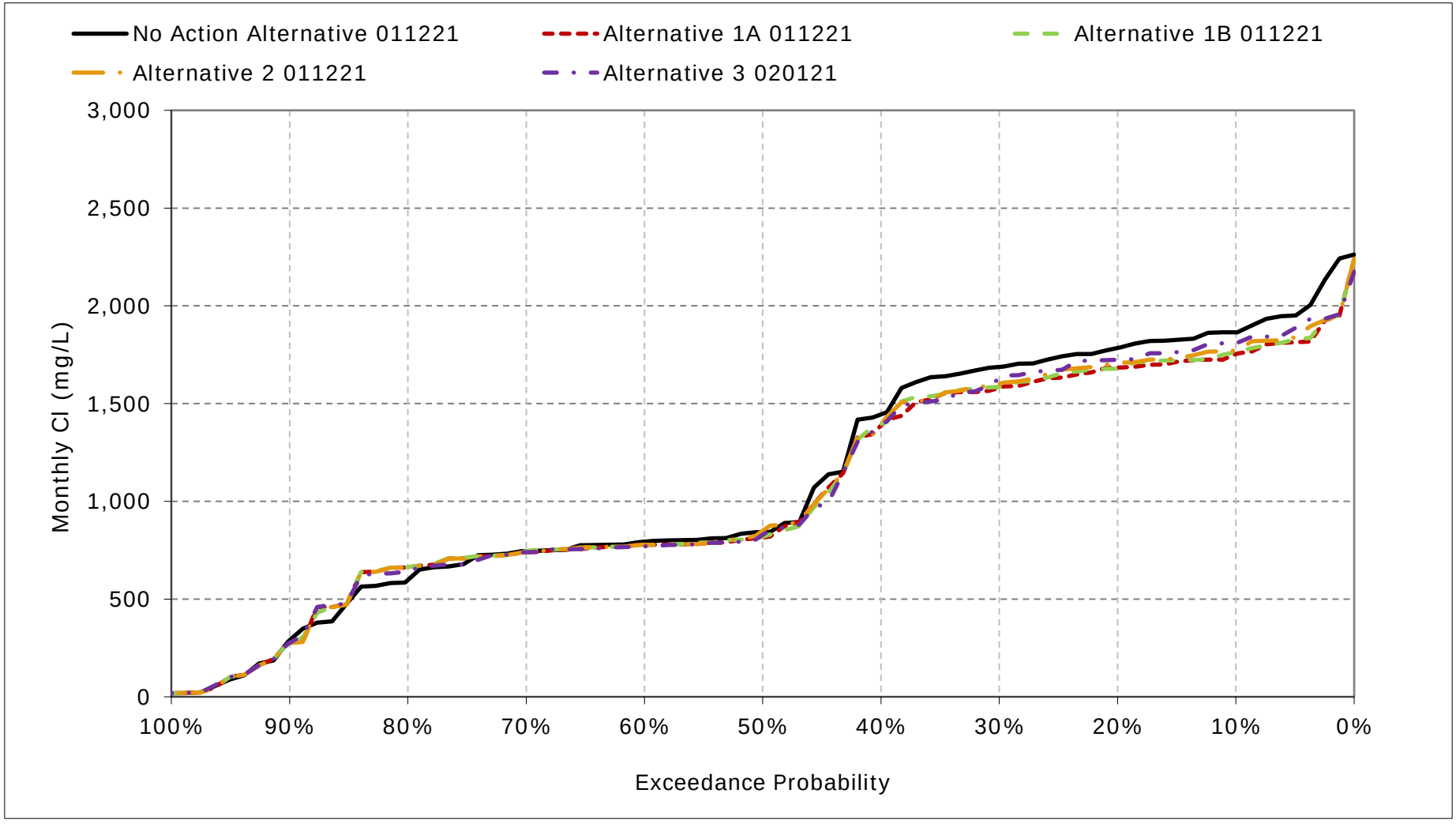
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-16. San Joaquin River at Antioch Chloride, October Cl



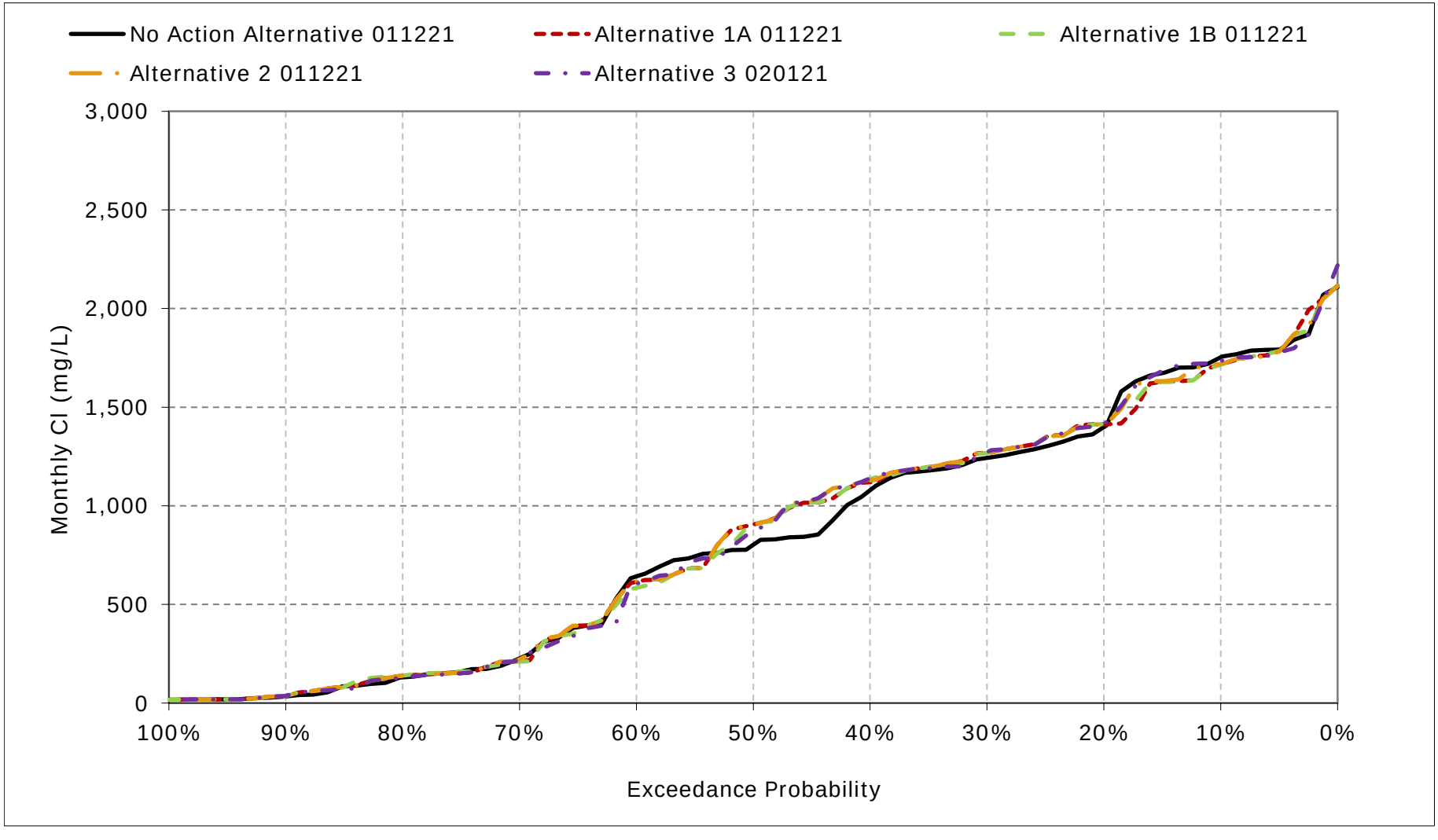
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-17. San Joaquin River at Antioch Chloride, November Cl



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-2-18. San Joaquin River at Antioch Chloride, December Cl



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-3-1a. Banks Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	148	149	156	200	143	101	88	82	63	66	101	131
20%	141	130	142	187	125	91	81	74	57	52	74	116
30%	134	124	136	170	107	82	73	68	47	43	66	106
40%	127	115	130	143	97	74	67	64	44	40	60	96
50%	117	107	119	112	87	67	62	61	42	38	52	83
60%	34	46	109	94	78	61	56	55	41	35	35	44
70%	29	41	100	86	67	54	48	47	39	30	31	38
80%	28	37	77	73	60	49	37	39	36	28	30	33
90%	27	33	40	59	47	42	27	25	32	27	29	28
Long Term												
Full Simulation Period[a]	87	86	112	125	91	69	60	57	46	43	55	76
Water Year Types[b]												
Wet (32%)	28	38	82	80	64	50	38	36	35	31	30	33
Above Normal (15%)	31	43	110	133	96	69	55	51	41	31	32	40
Below Normal (17%)	141	117	115	141	91	70	64	61	44	35	63	123
Dry (22%)	128	125	124	146	105	81	78	74	51	48	77	102
Critical (15%)	144	139	158	168	128	89	79	77	70	79	91	112

Table 6B2-3-1b. Banks Pumping Plant South Delta Exports, Alternative 1A 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	147	139	152	202	143	101	91	82	64	69	101	120
20%	132	123	143	189	128	91	82	75	59	53	82	113
30%	126	113	133	175	114	82	74	68	47	43	69	105
40%	119	103	127	152	99	75	68	64	44	41	61	98
50%	99	91	123	127	90	67	62	61	43	38	50	86
60%	32	44	109	94	78	62	56	55	41	35	35	42
70%	29	38	101	84	67	54	48	47	39	30	31	37
80%	28	35	75	73	60	49	37	39	36	28	30	32
90%	27	32	40	60	47	42	28	25	32	27	29	28
Long Term												
Full Simulation Period[a]	84	81	111	127	93	69	60	57	46	43	57	74
Water Year Types[b]												
Wet (32%)	28	36	83	80	64	50	38	36	35	31	30	32
Above Normal (15%)	31	42	109	143	98	69	56	51	41	31	32	39
Below Normal (17%)	127	113	116	141	93	71	65	61	44	35	60	110
Dry (22%)	122	120	124	147	106	82	78	74	51	49	85	101
Critical (15%)	150	120	150	169	130	91	80	78	71	81	94	118

Table 6B2-3-1c. Banks Pumping Plant South Delta Exports, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1	-10	-4	2	0	0	3	0	0	3	0	-11
20%	-9	-7	2	2	3	0	1	1	1	1	8	-3
30%	-8	-11	-3	5	7	0	0	0	0	0	3	-1
40%	-8	-12	-3	9	2	2	1	0	0	1	1	2
50%	-18	-16	4	15	4	0	0	1	0	0	-2	3
60%	-1	-3	0	1	0	1	0	0	0	0	0	-3
70%	0	-2	1	-2	0	0	0	0	0	0	0	-1
80%	0	-2	-2	0	0	0	0	0	0	0	0	-1
90%	0	-1	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-3	-5	-1	2	1	1	0	0	0	1	2	-2
Water Year Types[b]												
Wet (32%)	0	-2	1	0	0	0	0	0	0	0	0	-1
Above Normal (15%)	0	-1	-1	10	2	0	0	0	0	0	0	-1
Below Normal (17%)	-15	-4	1	0	2	1	0	0	0	0	-4	-14
Dry (22%)	-6	-5	0	1	1	0	0	0	0	1	8	-1
Critical (15%)	6	-19	-8	1	2	2	1	1	1	2	4	6

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-3-2a. Banks Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	148	149	156	200	143	101	88	82	63	66	101	131
20%	141	130	142	187	125	91	81	74	57	52	74	116
30%	134	124	136	170	107	82	73	68	47	43	66	106
40%	127	115	130	143	97	74	67	64	44	40	60	96
50%	117	107	119	112	87	67	62	61	42	38	52	83
60%	34	46	109	94	78	61	56	55	41	35	35	44
70%	29	41	100	86	67	54	48	47	39	30	31	38
80%	28	37	77	73	60	49	37	39	36	28	30	33
90%	27	33	40	59	47	42	27	25	32	27	29	28
Long Term												
Full Simulation Period[a]	87	86	112	125	91	69	60	57	46	43	55	76
Water Year Types[b]												
Wet (32%)	28	38	82	80	64	50	38	36	35	31	30	33
Above Normal (15%)	31	43	110	133	96	69	55	51	41	31	32	40
Below Normal (17%)	141	117	115	141	91	70	64	61	44	35	63	123
Dry (22%)	128	125	124	146	105	81	78	74	51	48	77	102
Critical (15%)	144	139	158	168	128	89	79	77	70	79	91	112

Table 6B2-3-2b. Banks Pumping Plant South Delta Exports, Alternative 1B 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	151	139	156	203	143	102	90	82	64	69	101	122
20%	136	125	143	189	130	91	82	75	59	53	83	113
30%	125	115	135	175	114	81	74	68	47	43	69	105
40%	118	108	127	153	99	75	68	64	44	41	61	98
50%	105	96	123	125	90	67	62	61	43	38	50	83
60%	32	44	112	95	78	61	56	55	41	35	35	42
70%	29	38	100	82	67	54	48	47	39	30	31	37
80%	28	35	75	73	60	49	37	39	36	28	30	32
90%	27	32	40	60	47	42	28	25	32	27	29	28
Long Term												
Full Simulation Period[a]	85	82	112	127	93	69	60	57	46	43	57	74
Water Year Types[b]												
Wet (32%)	28	36	83	80	64	50	38	36	35	31	30	32
Above Normal (15%)	31	43	109	143	98	69	55	51	41	31	32	39
Below Normal (17%)	127	113	115	142	93	71	65	61	44	35	59	109
Dry (22%)	124	123	130	146	106	82	78	74	51	50	86	101
Critical (15%)	156	123	151	170	130	90	79	77	71	81	94	119

Table 6B2-3-2c. Banks Pumping Plant South Delta Exports, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3	-10	0	4	0	1	1	0	0	3	0	-9
20%	-5	-5	1	2	5	0	1	1	2	1	10	-3
30%	-9	-9	-1	5	7	0	0	0	0	0	4	-1
40%	-8	-7	-3	10	2	1	1	0	0	1	1	2
50%	-12	-10	4	13	3	0	0	1	0	0	-2	0
60%	-1	-3	3	1	0	1	0	0	0	1	0	-3
70%	0	-2	1	-4	0	0	0	0	0	0	0	-1
80%	0	-2	-2	0	0	0	0	0	0	0	0	-1
90%	0	-1	0	1	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-2	-4	0	2	1	0	0	0	0	1	2	-2
Water Year Types[b]												
Wet (32%)	0	-2	1	1	0	0	0	0	0	0	0	-1
Above Normal (15%)	0	0	0	10	2	0	0	0	0	0	0	-1
Below Normal (17%)	-15	-4	0	1	2	1	0	0	0	0	-4	-14
Dry (22%)	-4	-1	6	0	0	0	0	0	0	2	9	-1
Critical (15%)	12	-15	-7	2	2	1	0	0	0	2	4	7

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-3-3a. Banks Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	148	149	156	200	143	101	88	82	63	66	101	131
20%	141	130	142	187	125	91	81	74	57	52	74	116
30%	134	124	136	170	107	82	73	68	47	43	66	106
40%	127	115	130	143	97	74	67	64	44	40	60	96
50%	117	107	119	112	87	67	62	61	42	38	52	83
60%	34	46	109	94	78	61	56	55	41	35	35	44
70%	29	41	100	86	67	54	48	47	39	30	31	38
80%	28	37	77	73	60	49	37	39	36	28	30	33
90%	27	33	40	59	47	42	27	25	32	27	29	28
Long Term												
Full Simulation Period[a]	87	86	112	125	91	69	60	57	46	43	55	76
Water Year Types[b]												
Wet (32%)	28	38	82	80	64	50	38	36	35	31	30	33
Above Normal (15%)	31	43	110	133	96	69	55	51	41	31	32	40
Below Normal (17%)	141	117	115	141	91	70	64	61	44	35	63	123
Dry (22%)	128	125	124	146	105	81	78	74	51	48	77	102
Critical (15%)	144	139	158	168	128	89	79	77	70	79	91	112

Table 6B2-3-3b. Banks Pumping Plant South Delta Exports, Alternative 2 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	146	137	151	203	143	100	90	82	64	69	101	118
20%	135	121	143	189	125	91	82	75	59	53	80	114
30%	126	115	133	176	113	82	74	68	47	43	69	104
40%	119	104	130	158	100	75	68	64	44	41	61	98
50%	99	90	124	128	90	67	62	61	43	38	50	86
60%	32	44	109	94	78	61	56	55	41	35	35	42
70%	29	39	100	84	67	54	48	47	39	30	31	37
80%	28	35	75	73	60	48	37	39	36	28	30	32
90%	27	32	40	60	47	42	28	25	32	27	29	28
Long Term												
Full Simulation Period[a]	83	81	112	128	93	69	60	57	46	43	57	74
Water Year Types[b]												
Wet (32%)	28	37	83	80	64	50	38	36	35	31	30	32
Above Normal (15%)	31	42	109	143	98	69	55	51	41	31	32	39
Below Normal (17%)	126	112	116	143	94	71	65	61	44	35	60	109
Dry (22%)	122	119	126	146	106	82	78	74	51	49	85	101
Critical (15%)	149	121	150	170	130	91	80	77	71	81	94	116

Table 6B2-3-3c. Banks Pumping Plant South Delta Exports, Alternative 2 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2	-12	-5	4	0	0	1	-1	0	3	0	-13
20%	-6	-9	1	2	0	0	1	1	1	1	6	-2
30%	-8	-10	-3	6	6	0	0	0	0	0	3	-1
40%	-8	-10	0	15	3	2	1	0	0	1	1	2
50%	-18	-17	5	17	4	0	0	1	0	0	-2	3
60%	-1	-2	0	1	0	1	0	0	0	0	0	-3
70%	0	-2	1	-2	0	0	0	0	0	0	0	-1
80%	0	-2	-2	0	0	0	0	0	0	0	0	-1
90%	0	-1	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-3	-5	0	2	1	0	0	0	0	1	1	-2
Water Year Types[b]												
Wet (32%)	0	-2	1	0	0	0	0	0	0	0	0	-1
Above Normal (15%)	-1	-1	-1	10	2	0	0	0	0	0	0	-1
Below Normal (17%)	-16	-4	1	3	3	1	0	0	0	0	-4	-14
Dry (22%)	-6	-6	1	1	1	0	0	0	0	1	8	-1
Critical (15%)	5	-18	-8	2	2	1	1	0	0	2	3	4

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-3-4a. Banks Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	148	149	156	200	143	101	88	82	63	66	101	131
20%	141	130	142	187	125	91	81	74	57	52	74	116
30%	134	124	136	170	107	82	73	68	47	43	66	106
40%	127	115	130	143	97	74	67	64	44	40	60	96
50%	117	107	119	112	87	67	62	61	42	38	52	83
60%	34	46	109	94	78	61	56	55	41	35	35	44
70%	29	41	100	86	67	54	48	47	39	30	31	38
80%	28	37	77	73	60	49	37	39	36	28	30	33
90%	27	33	40	59	47	42	27	25	32	27	29	28
Long Term												
Full Simulation Period[a]	87	86	112	125	91	69	60	57	46	43	55	76
Water Year Types[b]												
Wet (32%)	28	38	82	80	64	50	38	36	35	31	30	33
Above Normal (15%)	31	43	110	133	96	69	55	51	41	31	32	40
Below Normal (17%)	141	117	115	141	91	70	64	61	44	35	63	123
Dry (22%)	128	125	124	146	105	81	78	74	51	48	77	102
Critical (15%)	144	139	158	168	128	89	79	77	70	79	91	112

Table 6B2-3-4b. Banks Pumping Plant South Delta Exports, Alternative 3 020121, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	150	143	157	203	141	100	91	82	67	68	101	126
20%	136	125	143	190	125	92	82	74	60	53	79	112
30%	130	116	137	171	110	81	73	68	47	43	68	106
40%	122	107	131	158	100	75	68	64	44	41	61	98
50%	108	96	121	129	91	68	62	61	43	38	50	86
60%	32	44	111	93	79	62	56	55	41	35	35	42
70%	29	40	101	83	68	54	49	47	39	30	31	37
80%	28	36	74	73	60	48	37	39	37	28	30	32
90%	27	32	41	60	47	42	28	25	32	27	29	28
Long Term												
Full Simulation Period[a]	85	82	112	128	92	69	60	57	46	43	57	75
Water Year Types[b]												
Wet (32%)	28	36	83	80	64	50	38	36	35	31	30	32
Above Normal (15%)	30	44	108	142	98	69	55	51	41	31	32	39
Below Normal (17%)	128	117	114	149	93	71	65	61	44	35	59	110
Dry (22%)	125	117	128	146	105	81	78	73	51	49	84	103
Critical (15%)	155	127	152	168	128	90	80	77	71	81	95	120

Table 6B2-3-4c. Banks Pumping Plant South Delta Exports, Alternative 3 020121 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3	-6	1	3	-2	-1	3	0	3	2	-1	-5
20%	-5	-5	1	3	0	0	1	1	3	1	6	-5
30%	-4	-9	1	1	4	0	0	0	0	0	3	0
40%	-5	-8	1	15	3	2	1	0	0	1	1	3
50%	-9	-10	2	17	4	1	0	1	0	1	-2	3
60%	-2	-2	2	-1	1	2	0	0	0	0	0	-3
70%	0	-1	1	-3	0	0	0	0	0	0	0	-1
80%	0	-1	-3	0	0	0	0	0	0	0	0	-1
90%	0	0	1	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-2	-4	0	3	1	0	0	0	0	1	1	-1
Water Year Types[b]												
Wet (32%)	0	-2	1	0	0	0	0	0	0	0	0	-1
Above Normal (15%)	-1	1	-2	9	2	0	0	0	0	0	0	-1
Below Normal (17%)	-14	0	-1	8	3	1	1	0	0	0	-4	-13
Dry (22%)	-3	-8	4	1	0	0	0	-1	1	2	7	1
Critical (15%)	11	-11	-6	0	0	1	1	1	1	2	4	9

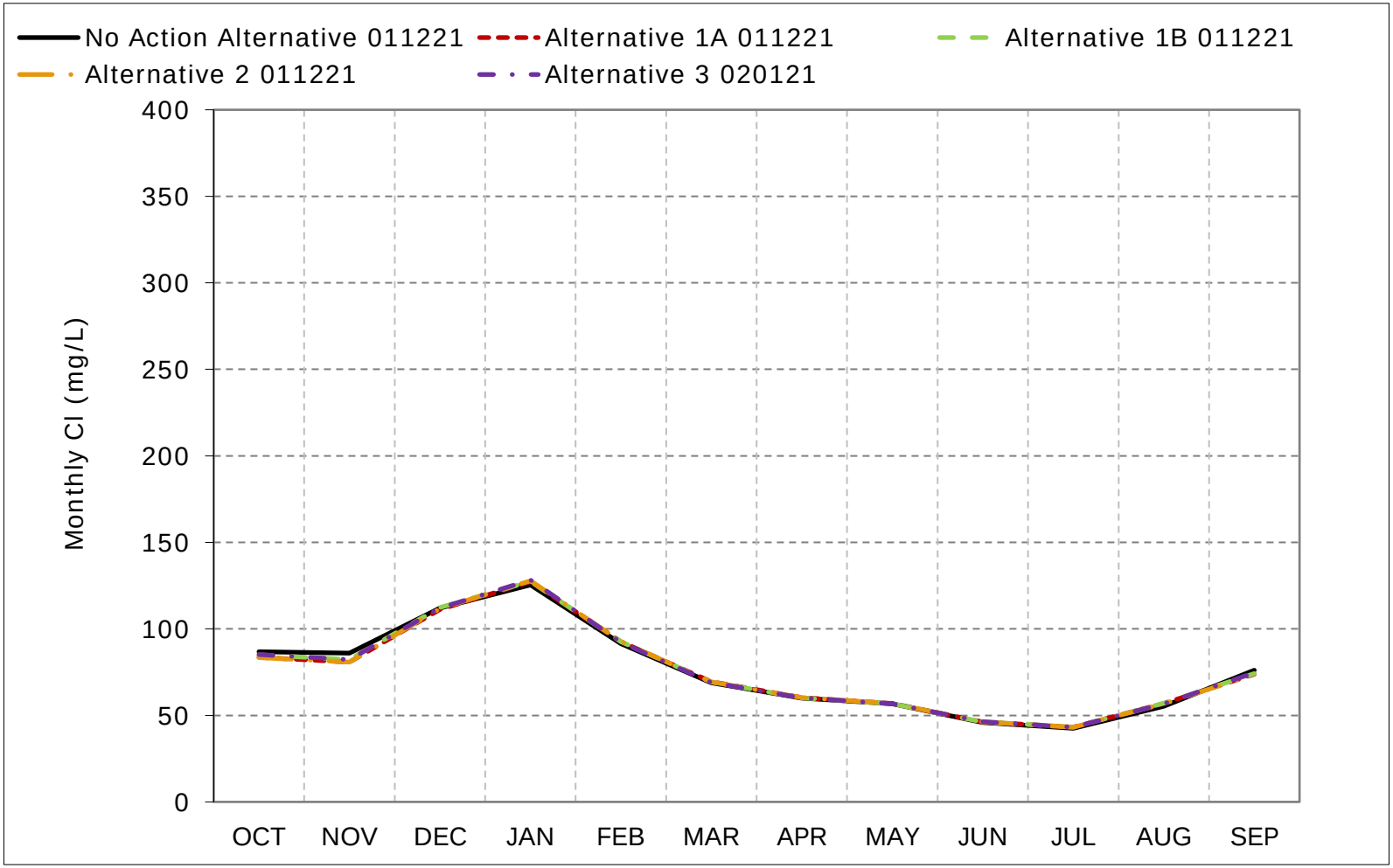
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-1. Banks Pumping Plant South Delta Exports, Long-Term Average Cl

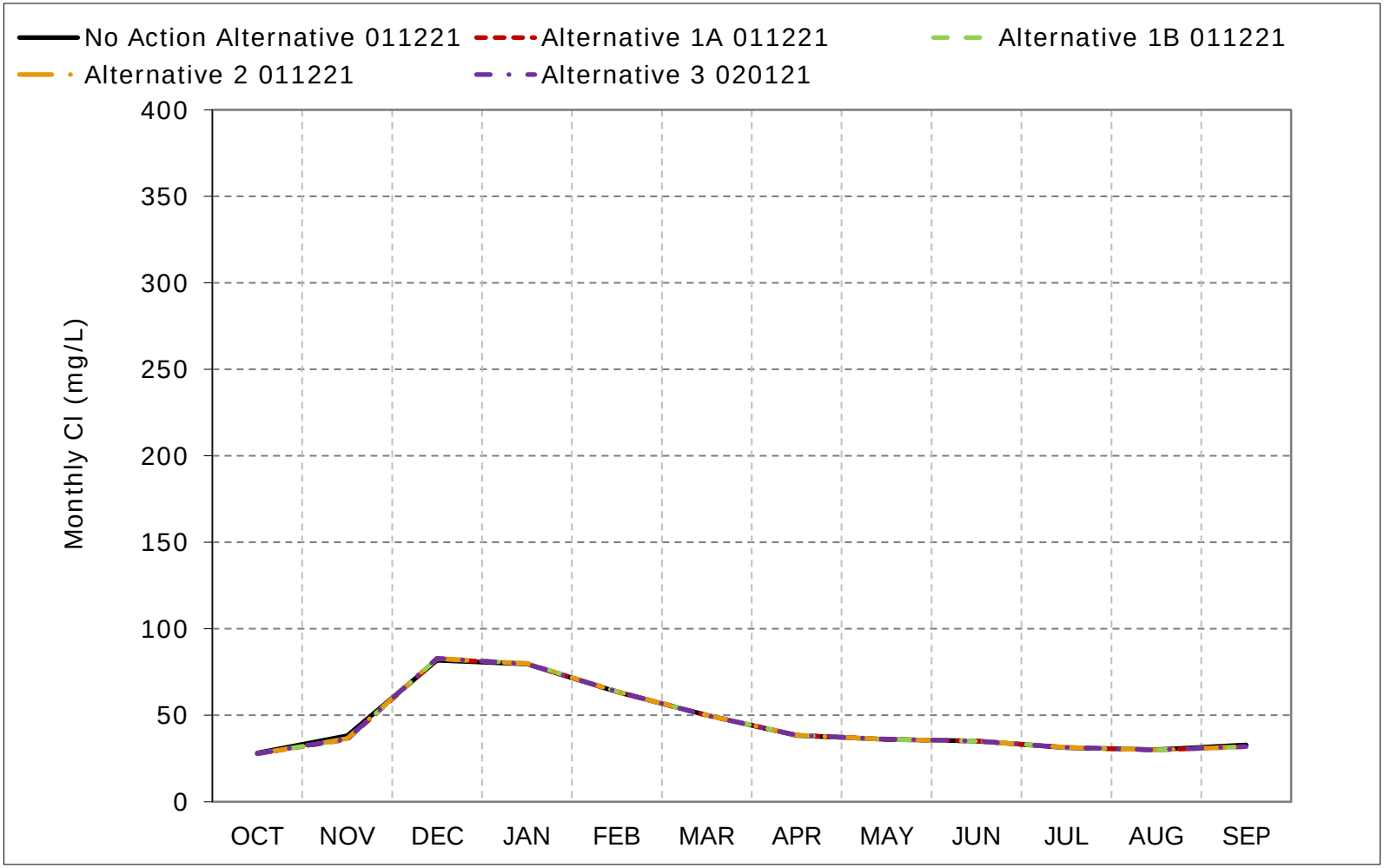


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-2. Banks Pumping Plant South Delta Exports, Wet Year Average Cl

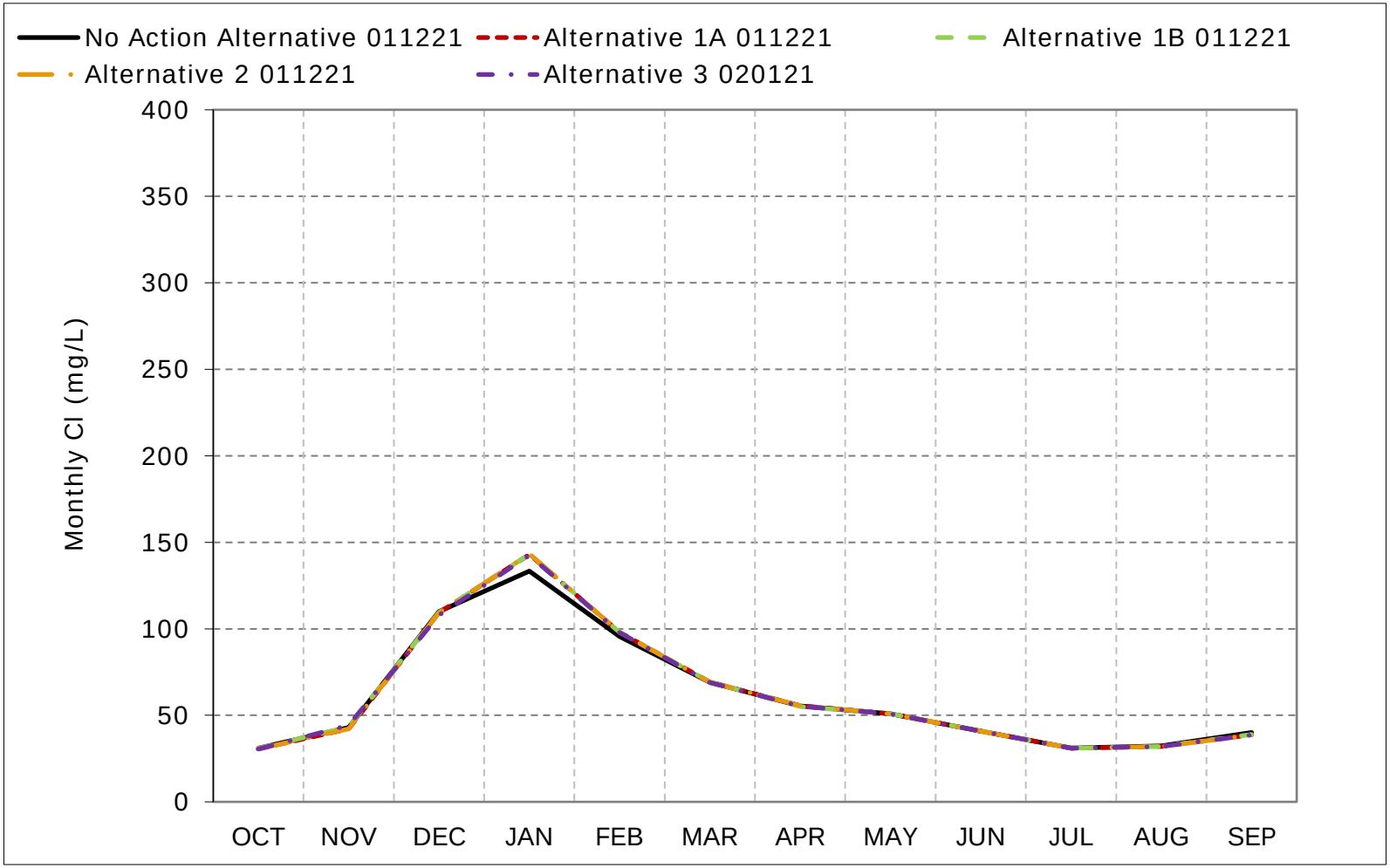


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-3. Banks Pumping Plant South Delta Exports, Above Normal Year Average Cl

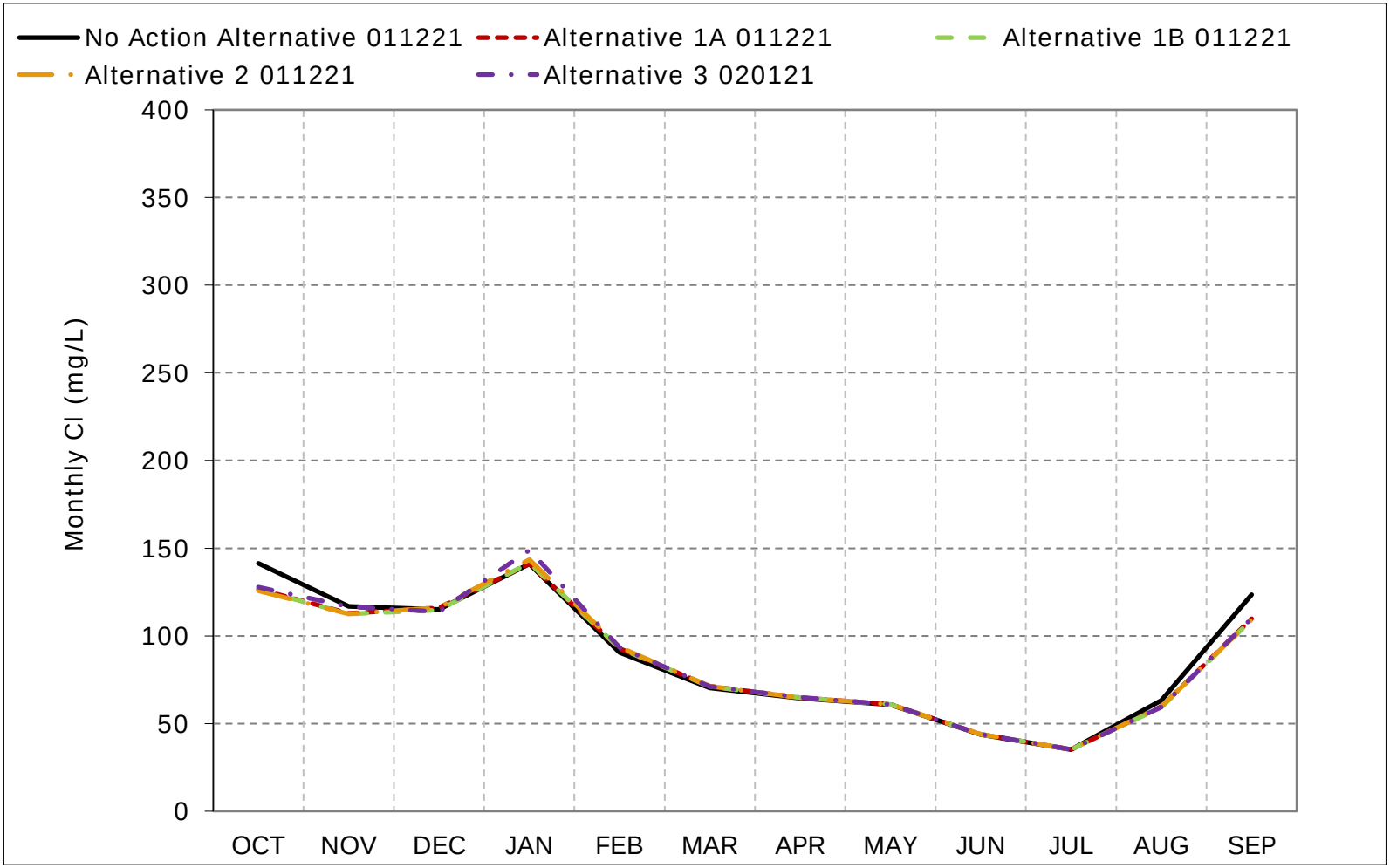


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-4. Banks Pumping Plant South Delta Exports, Below Normal Year Average Cl

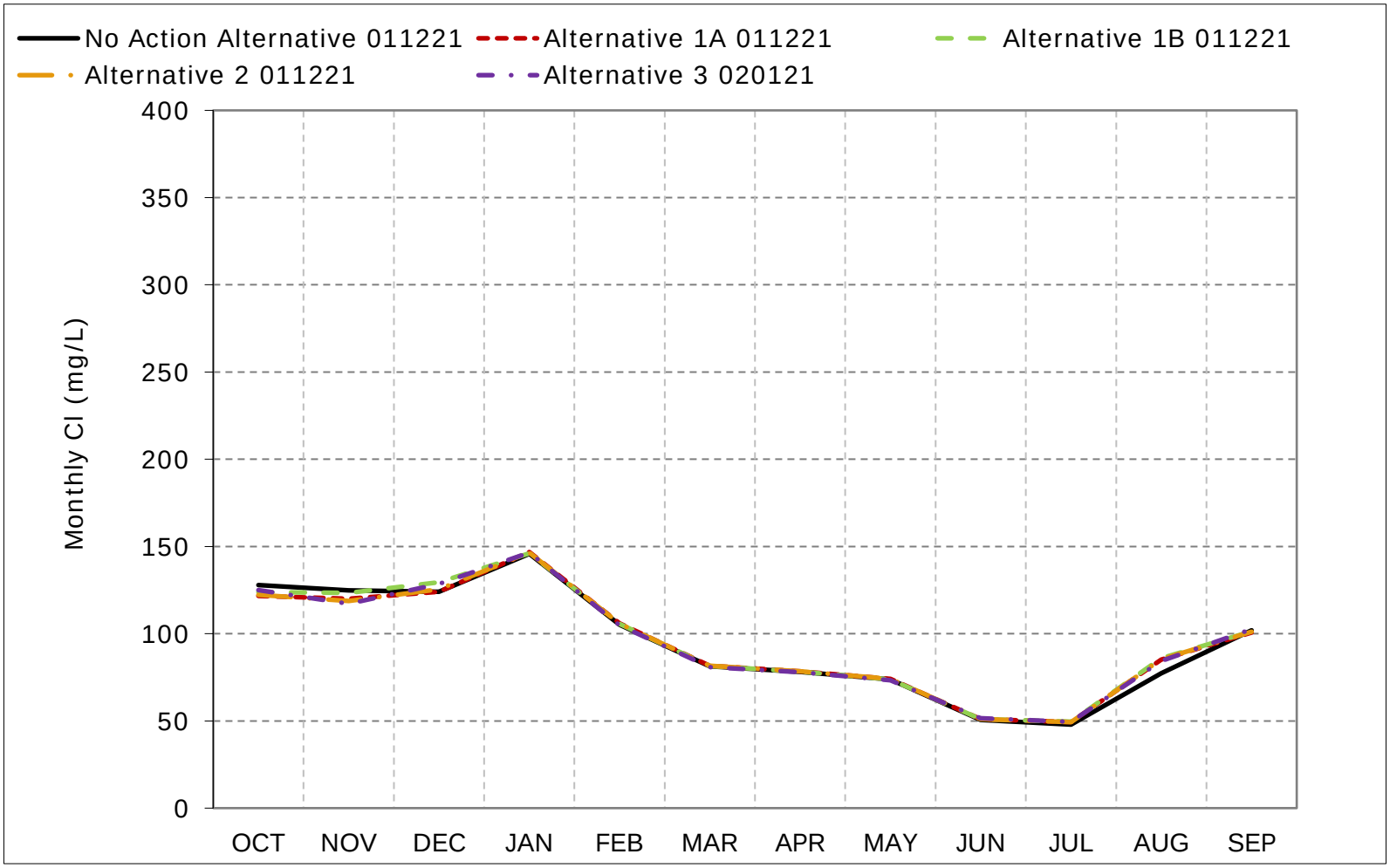


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-5. Banks Pumping Plant South Delta Exports, Dry Year Average Cl

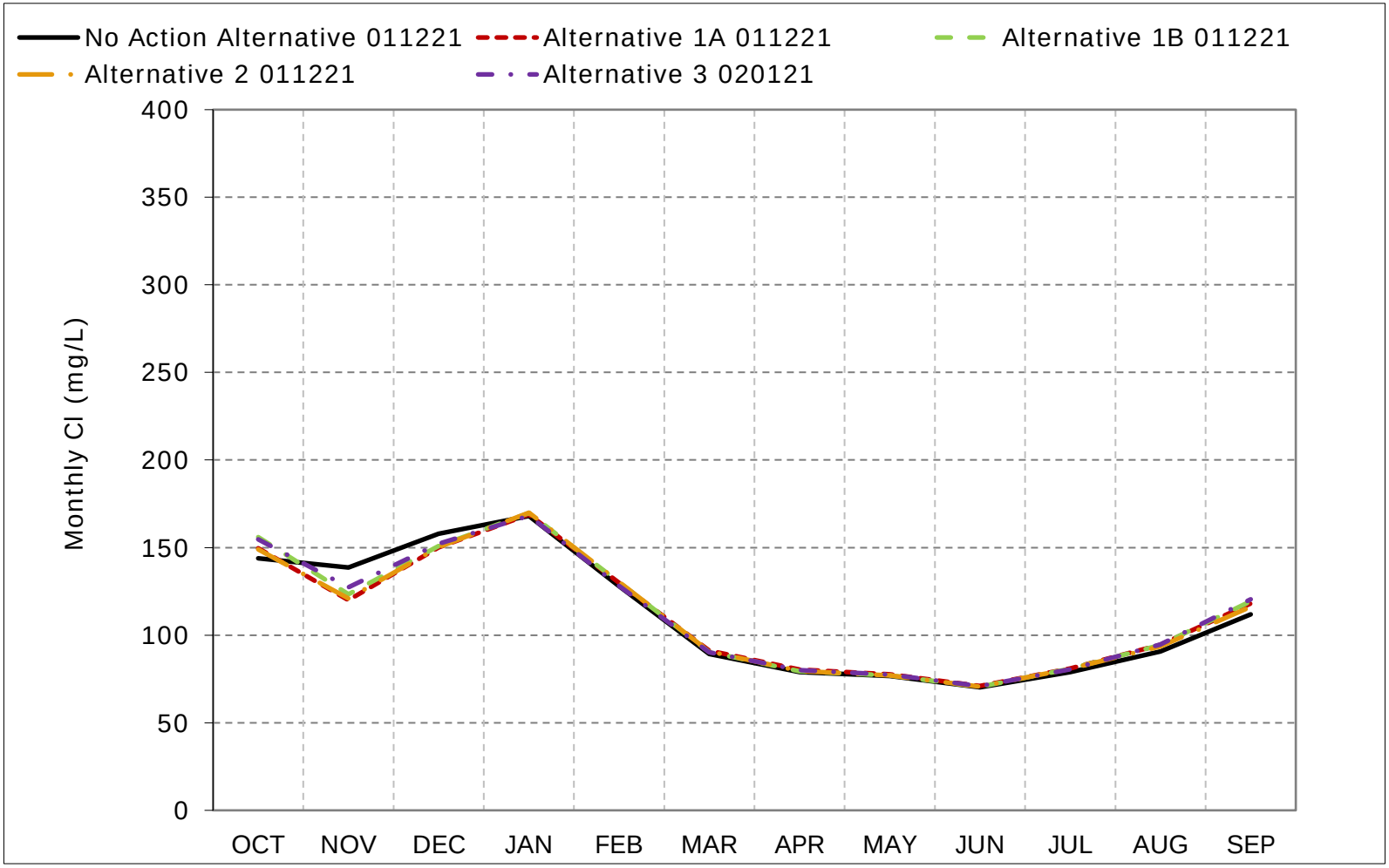


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-6. Banks Pumping Plant South Delta Exports, Critical Year Average Cl

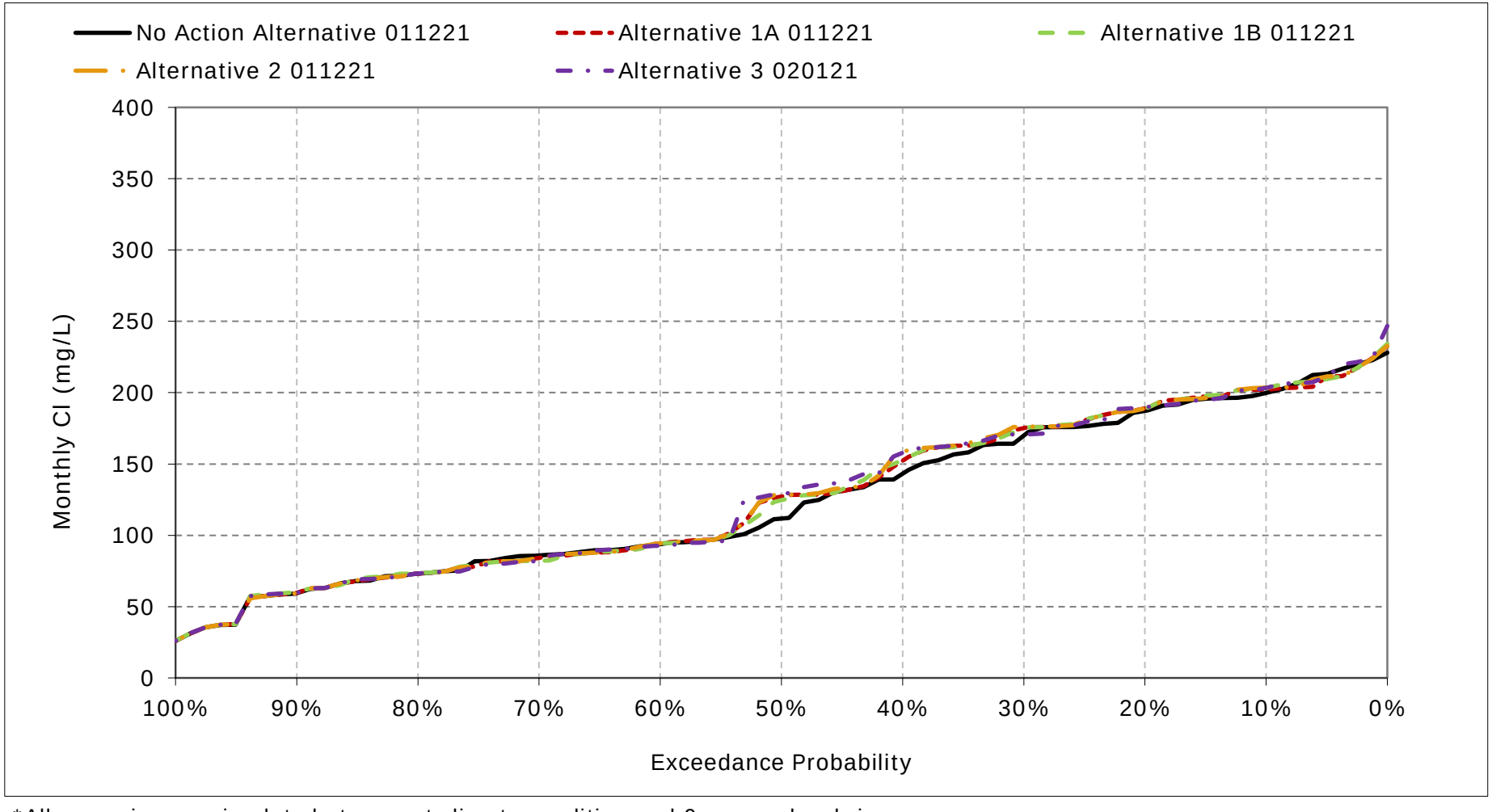


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

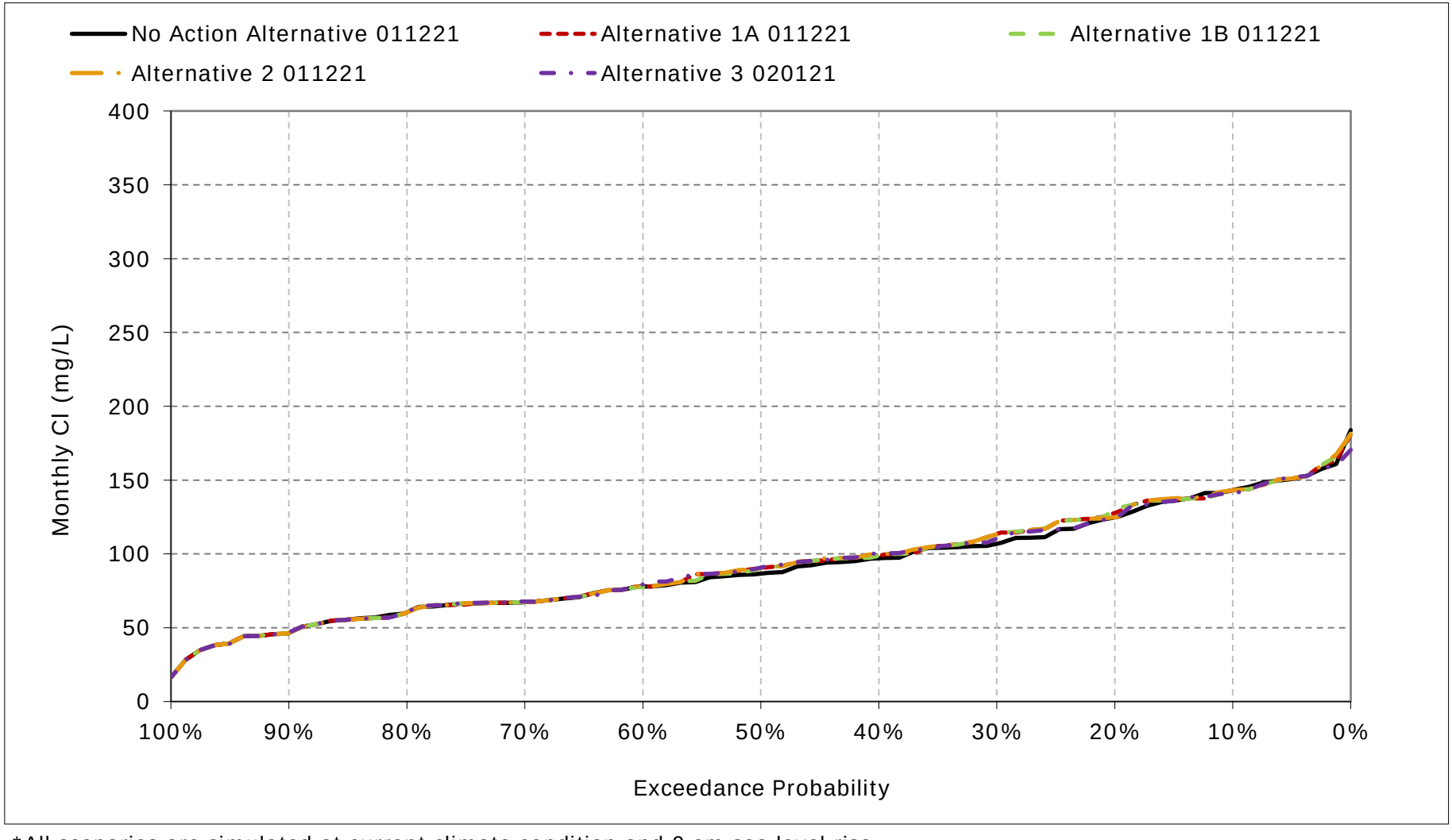
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-7. Banks Pumping Plant South Delta Exports Chloride, January Cl



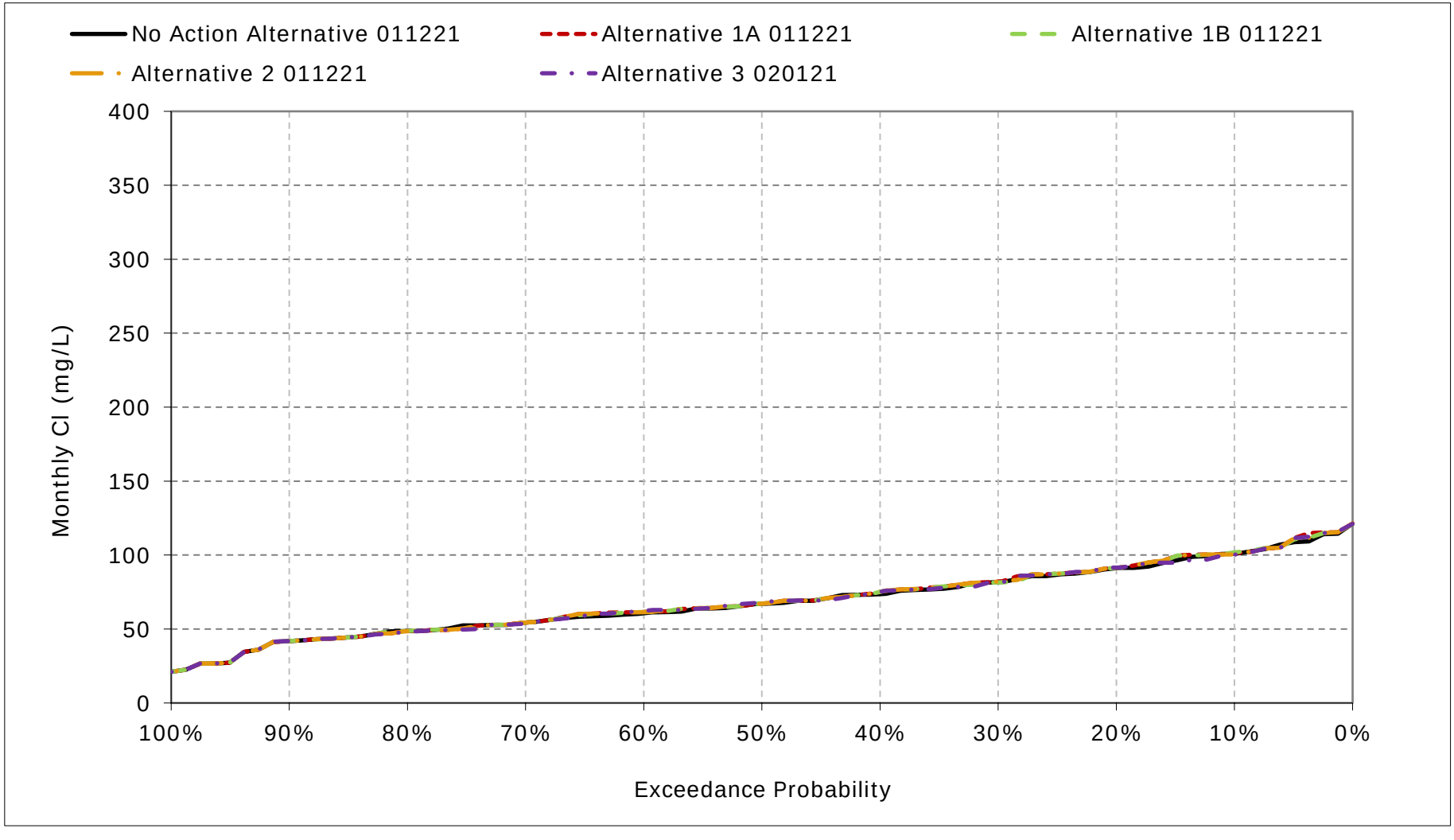
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-8. Banks Pumping Plant South Delta Exports Chloride, February Cl



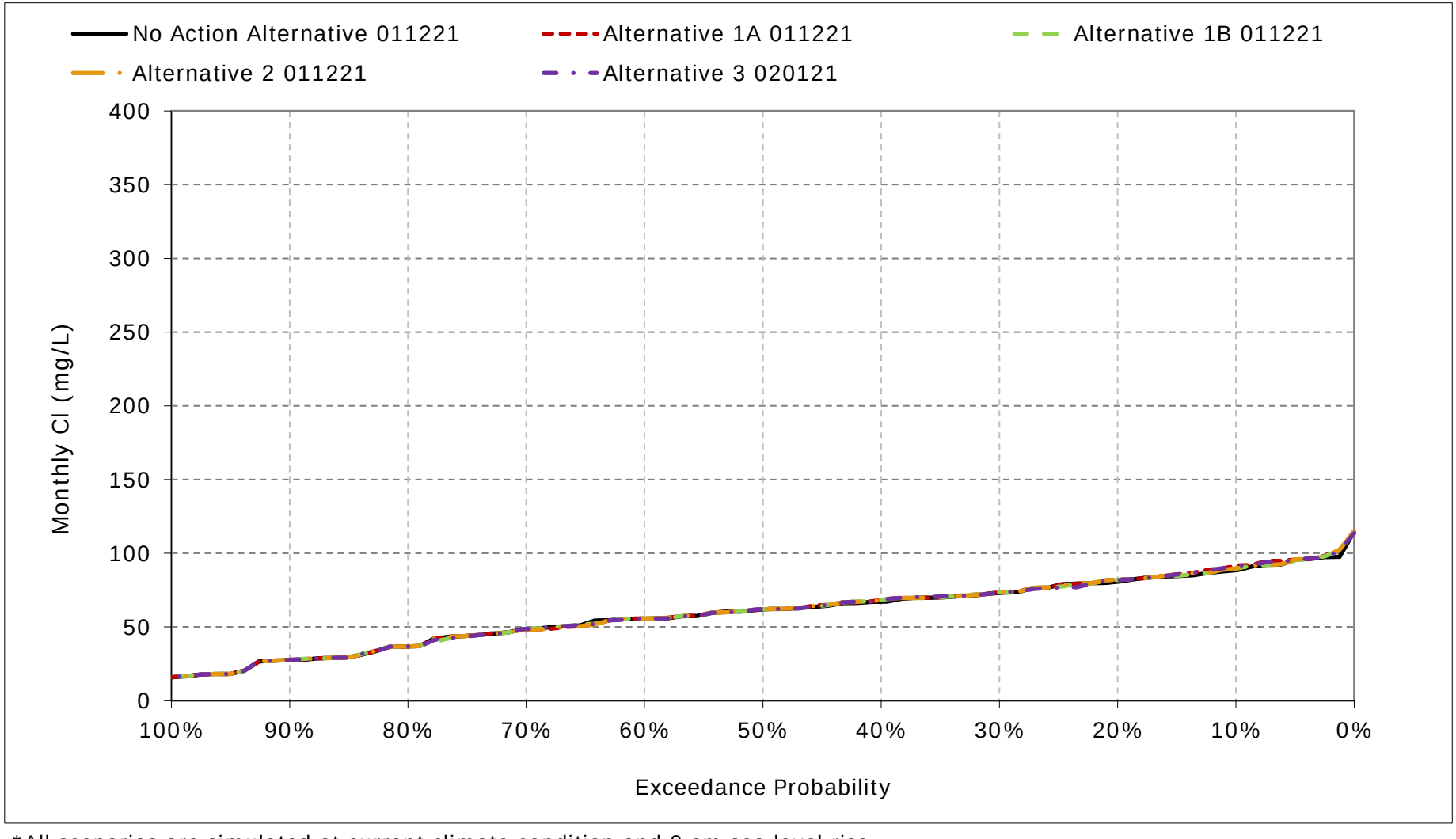
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-9. Banks Pumping Plant South Delta Exports Chloride, March Cl



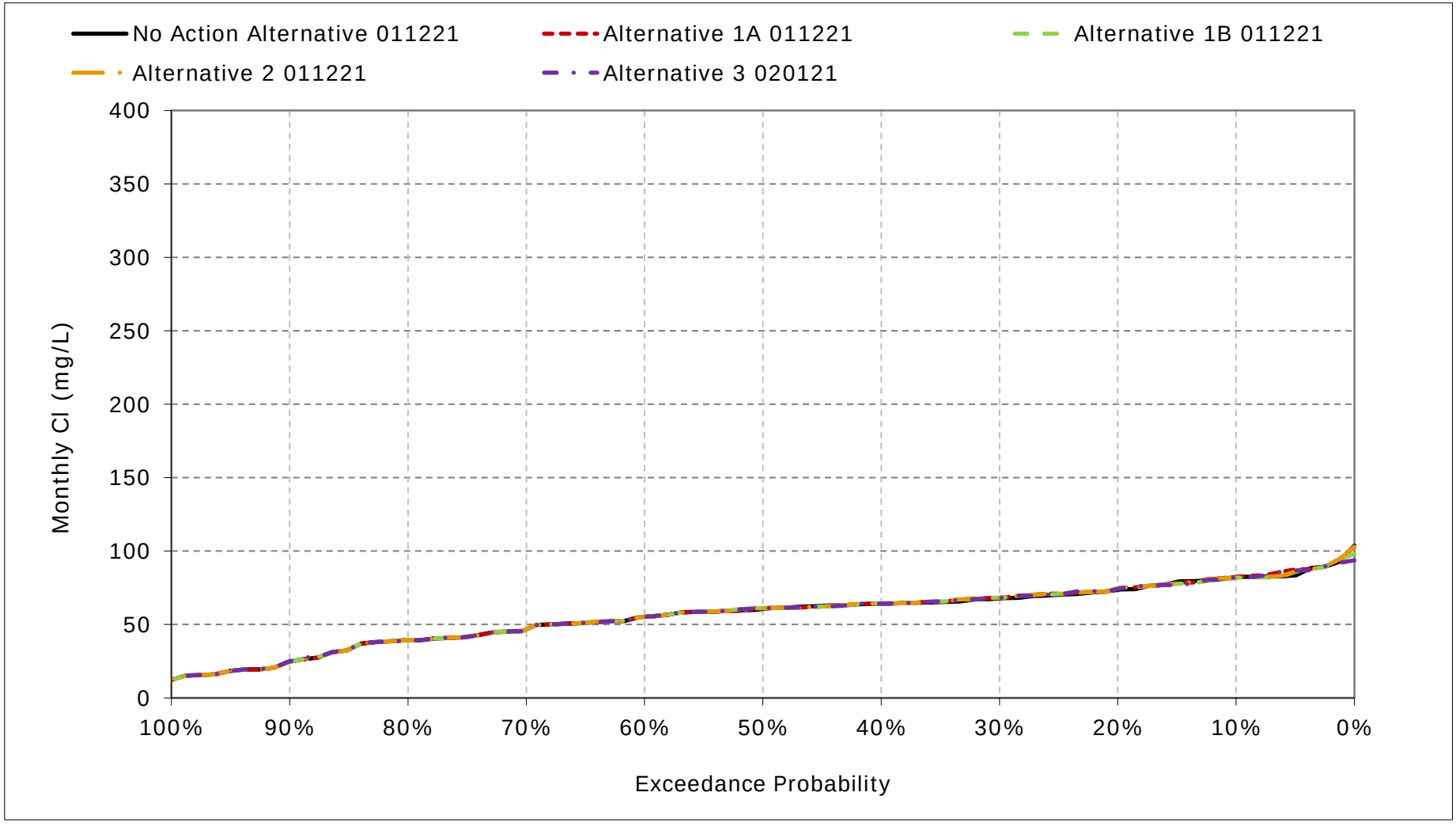
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-10. Banks Pumping Plant South Delta Exports Chloride, April Cl



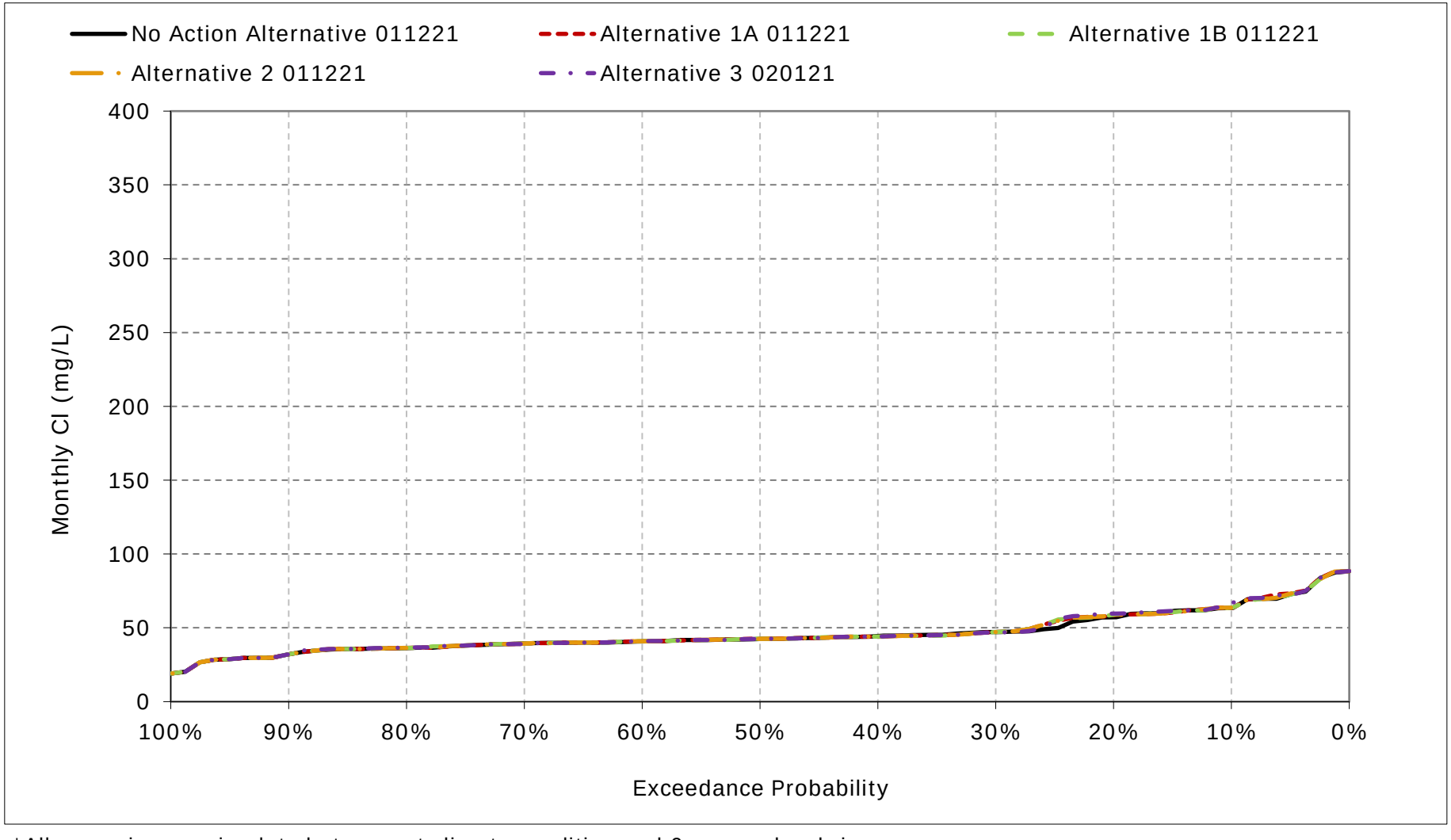
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-11. Banks Pumping Plant South Delta Exports Chloride, May Cl



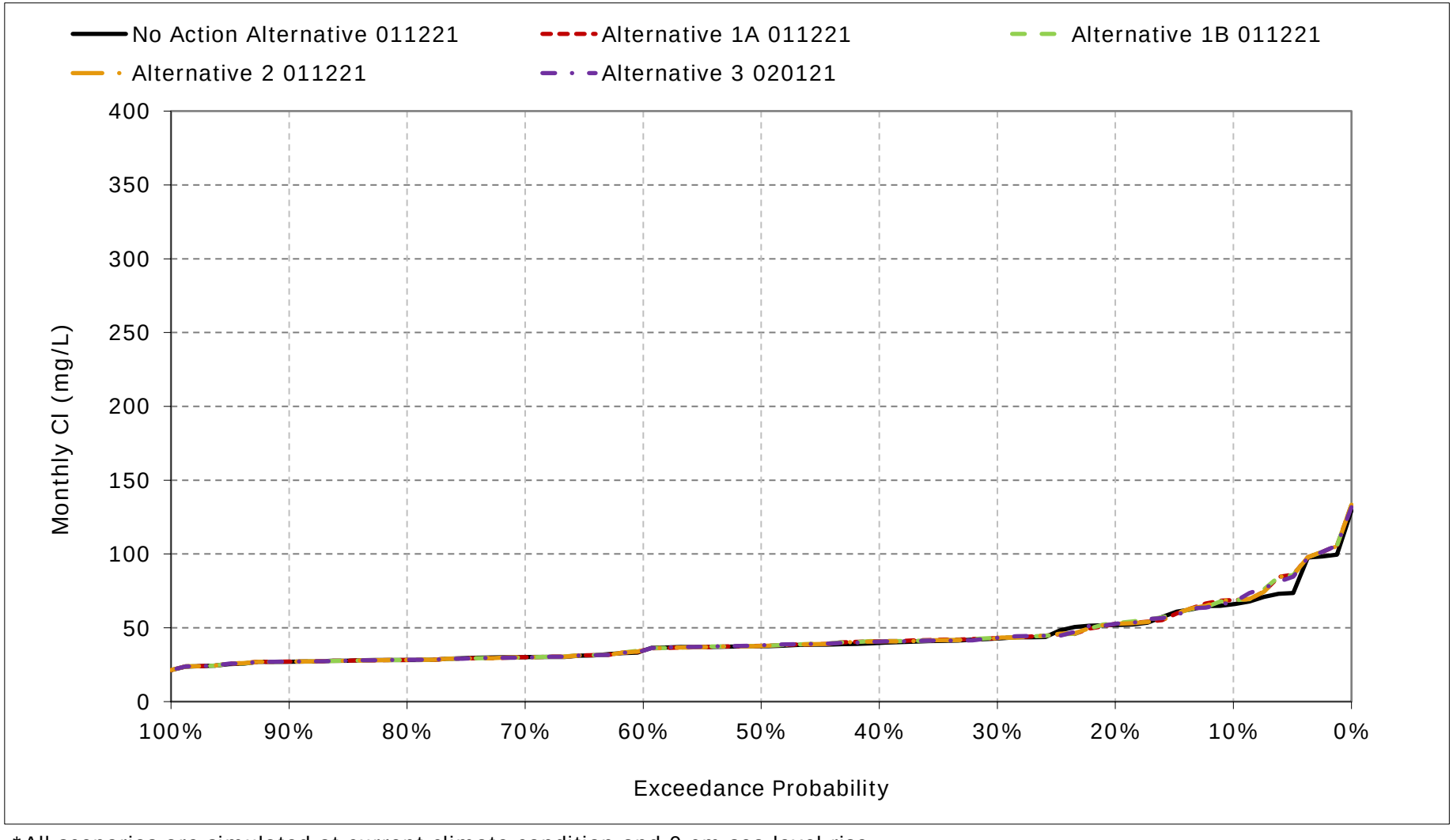
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-12. Banks Pumping Plant South Delta Exports Chloride, June Cl



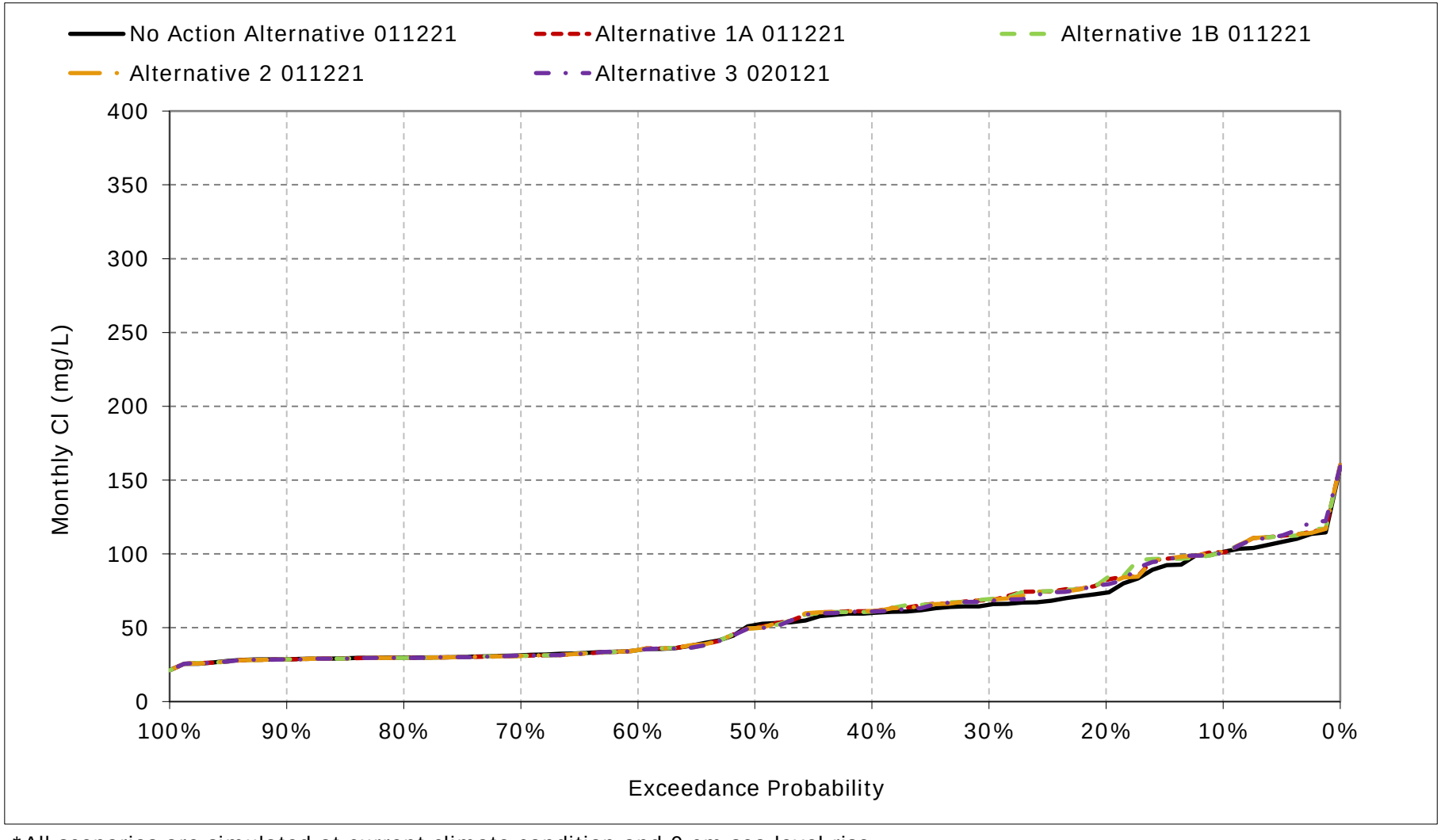
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-13. Banks Pumping Plant South Delta Exports Chloride, July Cl



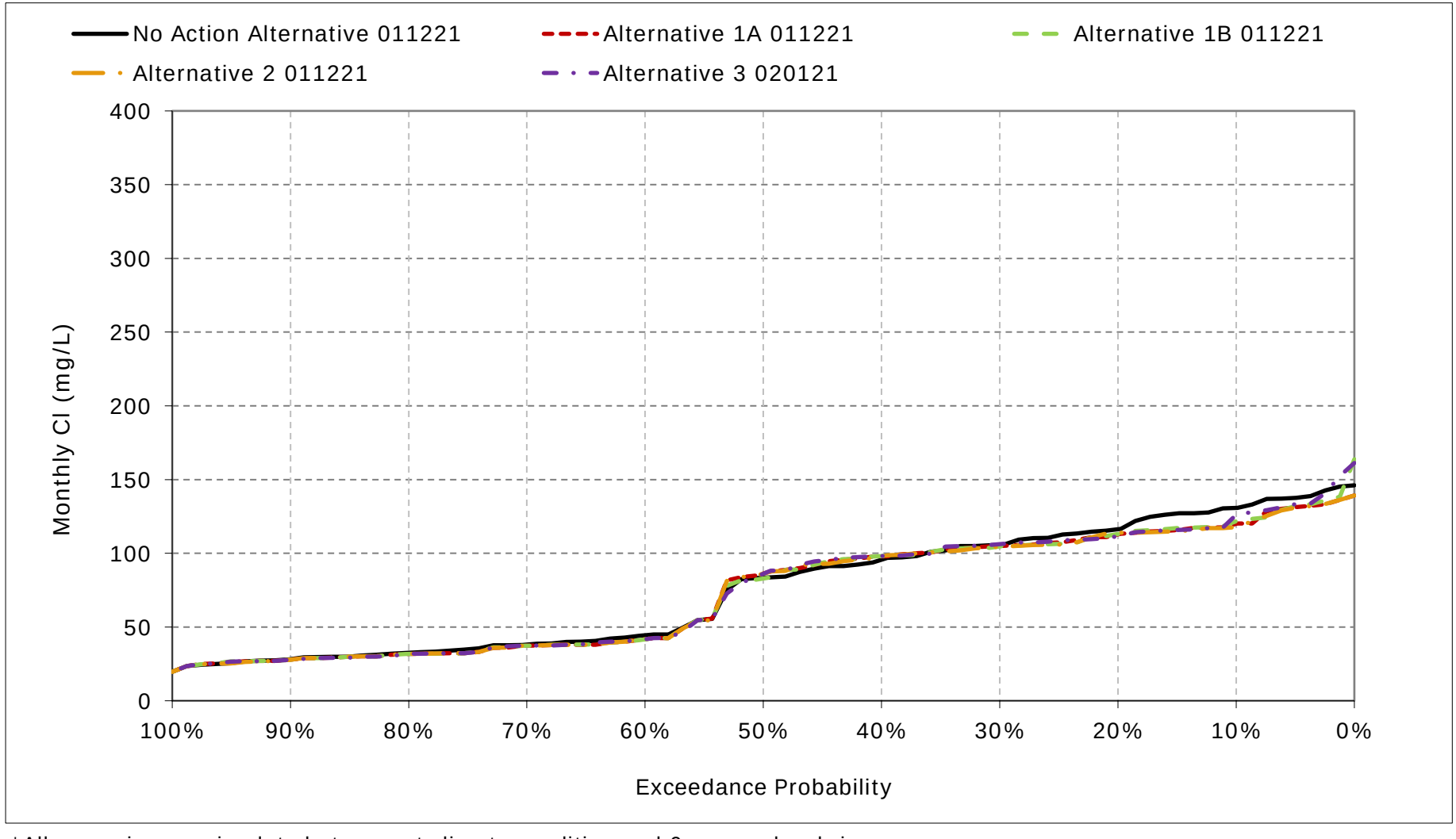
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-14. Banks Pumping Plant South Delta Exports Chloride, August Cl



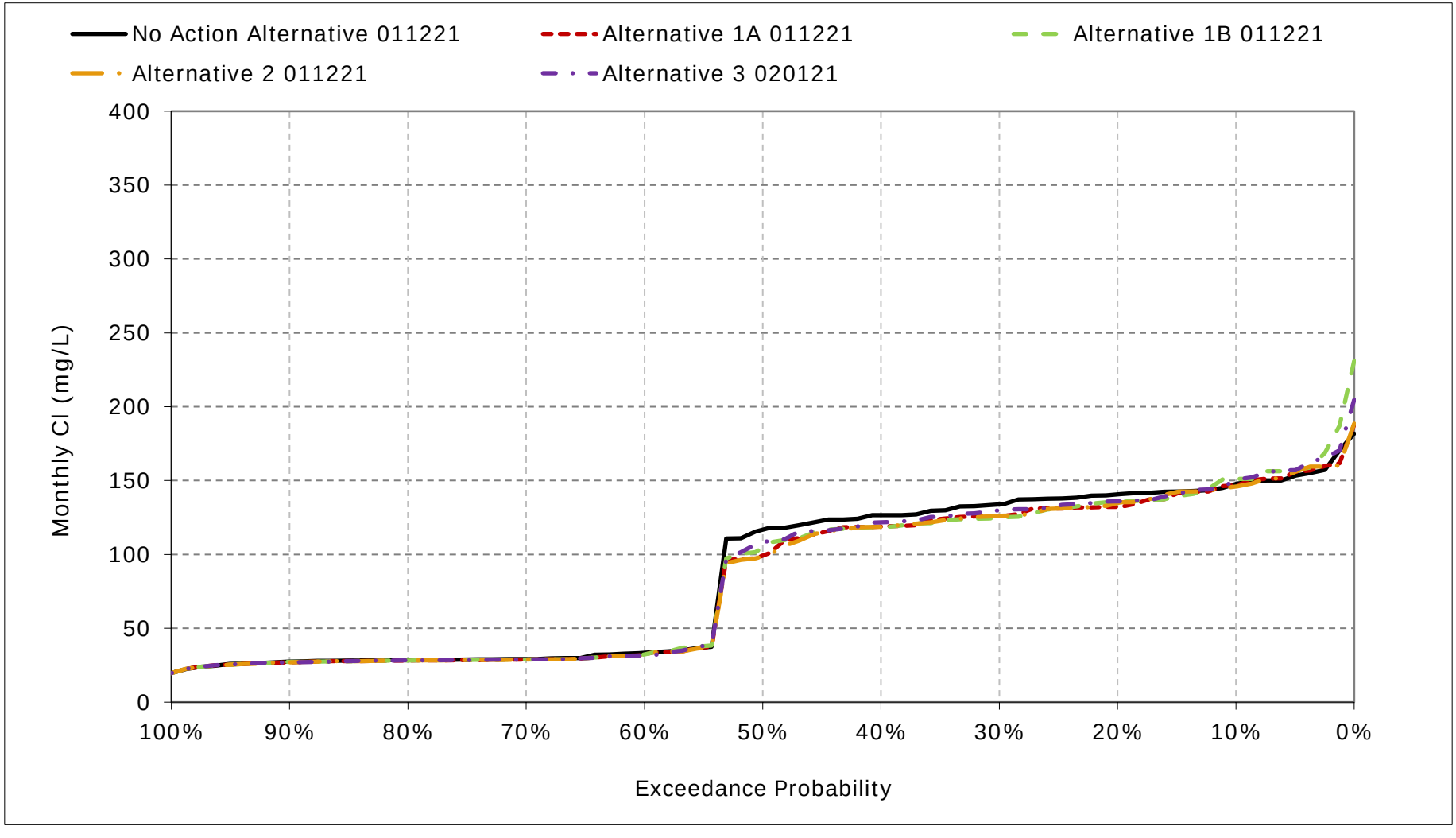
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-15. Banks Pumping Plant South Delta Exports Chloride, September Cl



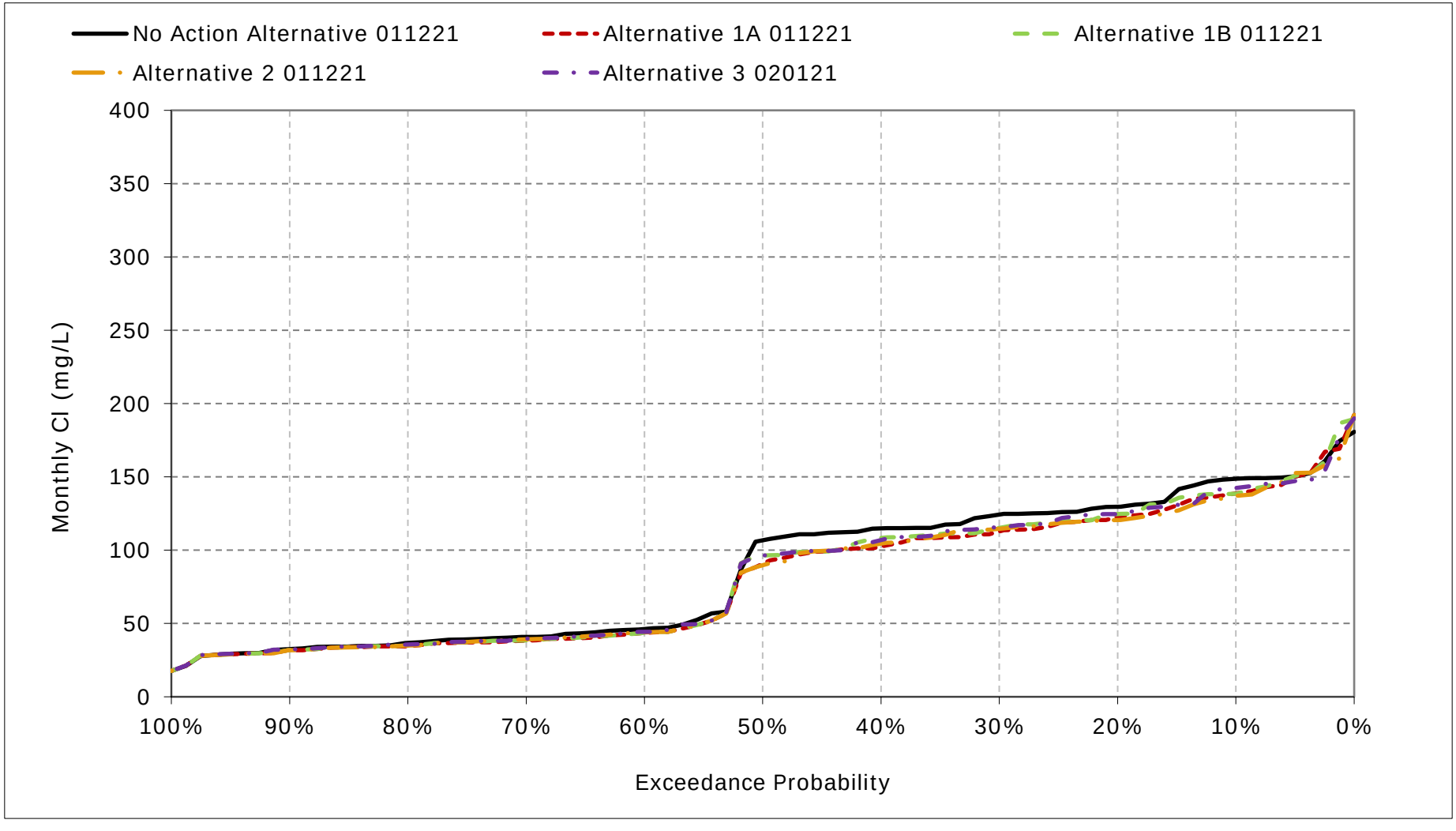
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-16. Banks Pumping Plant South Delta Exports Chloride, October Cl



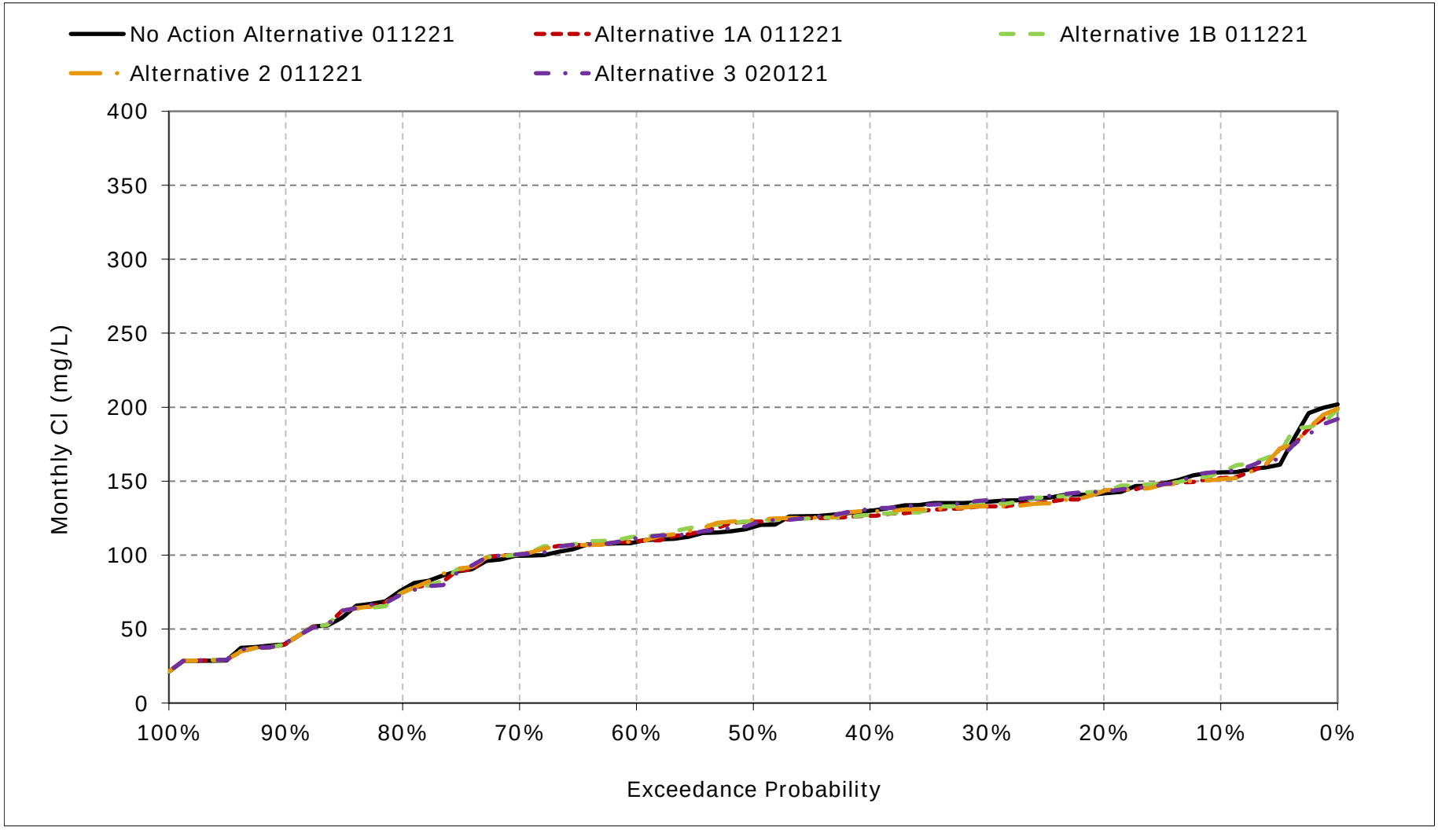
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-17. Banks Pumping Plant South Delta Exports Chloride, November Cl



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-3-18. Banks Pumping Plant South Delta Exports Chloride, December Cl



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-4-1a. Jones Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	140	146	176	193	165	141	120	91	61	70	106	131
20%	134	132	162	183	150	128	97	79	56	61	81	121
30%	126	123	156	173	133	112	83	72	53	57	73	111
40%	119	117	148	152	123	109	65	63	49	51	70	105
50%	111	112	141	134	114	97	53	54	47	47	64	95
60%	55	63	131	124	102	86	47	51	46	45	45	56
70%	51	57	114	108	87	59	40	48	43	39	41	51
80%	46	54	98	95	68	45	32	42	40	36	39	46
90%	41	48	78	80	46	38	23	21	36	31	35	39
Long Term												
Full Simulation Period[a]	91	94	132	137	109	91	63	59	49	51	63	83
Water Year Types[b]												
Wet (32%)	43	53	103	96	69	53	32	36	43	42	38	42
Above Normal (15%)	54	61	133	142	108	75	45	48	46	43	42	54
Below Normal (17%)	127	116	130	144	103	91	60	57	46	45	72	122
Dry (22%)	123	128	145	158	137	122	86	79	48	55	86	107
Critical (15%)	143	138	176	182	159	139	121	91	70	81	96	122

Table 6B2-4-1b. Jones Pumping Plant South Delta Exports, Alternative 1A 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	139	138	175	194	164	142	118	92	61	75	105	125
20%	128	124	159	186	153	129	97	81	56	62	90	115
30%	120	118	156	173	133	113	85	73	51	57	77	109
40%	114	111	146	158	126	109	65	63	49	52	71	103
50%	102	101	142	144	117	97	53	54	47	47	62	93
60%	55	61	131	123	103	82	47	51	46	45	45	54
70%	49	56	118	108	87	59	40	48	43	41	41	50
80%	45	53	99	96	68	45	32	42	40	36	38	45
90%	41	46	78	80	46	38	23	21	36	32	35	38
Long Term												
Full Simulation Period[a]	88	90	132	138	110	91	63	59	49	52	64	81
Water Year Types[b]												
Wet (32%)	43	51	104	96	69	53	32	36	43	42	37	42
Above Normal (15%)	53	60	132	147	109	75	45	48	46	43	41	53
Below Normal (17%)	118	115	131	145	104	92	60	57	47	45	69	111
Dry (22%)	118	125	144	159	138	122	86	79	48	57	92	105
Critical (15%)	140	122	173	182	161	142	121	92	70	83	99	125

Table 6B2-4-1c. Jones Pumping Plant South Delta Exports, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-9	-1	0	-1	0	-2	1	0	5	-1	-7
20%	-6	-8	-3	3	2	1	0	2	0	1	9	-6
30%	-6	-5	0	0	0	1	2	1	-1	0	4	-2
40%	-5	-5	-2	6	2	0	0	0	0	1	1	-2
50%	-8	-10	1	9	3	0	0	0	0	0	-2	-2
60%	-1	-2	1	-1	0	-4	0	0	0	0	0	-2
70%	-2	-2	4	1	0	0	0	0	0	1	0	-1
80%	-1	-1	0	0	0	0	0	0	0	0	0	-2
90%	0	-2	0	0	0	0	0	0	0	1	0	-1
Long Term												
Full Simulation Period[a]	-3	-4	0	1	1	1	0	0	0	1	1	-2
Water Year Types[b]												
Wet (32%)	0	-2	1	0	0	0	0	0	0	0	0	-1
Above Normal (15%)	-1	-1	0	6	1	0	0	0	0	0	0	-1
Below Normal (17%)	-10	-2	1	1	1	0	0	0	0	0	-3	-12
Dry (22%)	-4	-3	0	1	0	0	0	0	0	2	6	-2
Critical (15%)	-2	-16	-4	0	1	3	0	1	1	2	3	3

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-4-2a. Jones Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	140	146	176	193	165	141	120	91	61	70	106	131
20%	134	132	162	183	150	128	97	79	56	61	81	121
30%	126	123	156	173	133	112	83	72	53	57	73	111
40%	119	117	148	152	123	109	65	63	49	51	70	105
50%	111	112	141	134	114	97	53	54	47	47	64	95
60%	55	63	131	124	102	86	47	51	46	45	45	56
70%	51	57	114	108	87	59	40	48	43	39	41	51
80%	46	54	98	95	68	45	32	42	40	36	39	46
90%	41	48	78	80	46	38	23	21	36	31	35	39
Long Term												
Full Simulation Period[a]	91	94	132	137	109	91	63	59	49	51	63	83
Water Year Types[b]												
Wet (32%)	43	53	103	96	69	53	32	36	43	42	38	42
Above Normal (15%)	54	61	133	142	108	75	45	48	46	43	42	54
Below Normal (17%)	127	116	130	144	103	91	60	57	46	45	72	122
Dry (22%)	123	128	145	158	137	122	86	79	48	55	86	107
Critical (15%)	143	138	176	182	159	139	121	91	70	81	96	122

Table 6B2-4-2b. Jones Pumping Plant South Delta Exports, Alternative 1B 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	142	136	175	194	164	142	120	92	61	75	106	124
20%	128	126	162	186	153	129	97	81	56	61	91	118
30%	121	121	156	174	133	113	85	72	51	57	78	109
40%	114	111	146	158	126	109	65	63	49	51	70	102
50%	104	102	141	140	117	97	53	54	47	47	62	92
60%	55	61	131	123	103	84	47	51	46	46	45	54
70%	49	56	118	108	87	59	40	48	43	41	41	50
80%	45	53	99	96	68	45	32	42	40	36	38	45
90%	41	47	78	79	47	38	23	21	36	32	35	38
Long Term												
Full Simulation Period[a]	89	91	132	138	110	91	63	59	49	52	64	81
Water Year Types[b]												
Wet (32%)	43	51	104	96	69	53	32	36	43	42	37	42
Above Normal (15%)	53	61	132	147	109	75	45	48	46	43	41	53
Below Normal (17%)	117	114	130	145	104	92	60	57	47	45	69	110
Dry (22%)	121	127	145	158	138	122	86	79	47	57	92	106
Critical (15%)	145	124	173	183	161	140	120	92	70	83	99	126

Table 6B2-4-2c. Jones Pumping Plant South Delta Exports, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3	-10	-1	1	0	1	0	1	0	5	-1	-7
20%	-6	-7	0	3	2	0	0	2	0	0	10	-3
30%	-5	-2	0	0	0	1	2	0	-2	0	4	-2
40%	-5	-6	-2	6	3	0	0	0	0	0	0	-3
50%	-7	-10	0	5	3	0	0	0	0	0	-2	-3
60%	0	-2	1	-1	0	-1	0	0	0	1	0	-2
70%	-3	-2	4	1	0	0	0	0	0	1	0	-1
80%	-1	-1	1	1	0	0	0	0	0	0	0	-2
90%	0	-1	0	0	0	0	0	0	0	1	0	-1
Long Term												
Full Simulation Period[a]	-2	-3	0	1	1	0	0	0	0	1	1	-2
Water Year Types[b]												
Wet (32%)	0	-1	1	0	0	0	0	0	0	0	0	-1
Above Normal (15%)	-1	0	0	6	1	0	0	0	0	0	0	-1
Below Normal (17%)	-10	-2	0	1	1	0	0	0	0	0	-3	-12
Dry (22%)	-2	-1	1	0	0	0	0	0	-1	2	7	-1
Critical (15%)	2	-13	-3	1	1	1	-1	1	0	2	3	4

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-4-3a. Jones Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	140	146	176	193	165	141	120	91	61	70	106	131
20%	134	132	162	183	150	128	97	79	56	61	81	121
30%	126	123	156	173	133	112	83	72	53	57	73	111
40%	119	117	148	152	123	109	65	63	49	51	70	105
50%	111	112	141	134	114	97	53	54	47	47	64	95
60%	55	63	131	124	102	86	47	51	46	45	45	56
70%	51	57	114	108	87	59	40	48	43	39	41	51
80%	46	54	98	95	68	45	32	42	40	36	39	46
90%	41	48	78	80	46	38	23	21	36	31	35	39
Long Term												
Full Simulation Period[a]	91	94	132	137	109	91	63	59	49	51	63	83
Water Year Types[b]												
Wet (32%)	43	53	103	96	69	53	32	36	43	42	38	42
Above Normal (15%)	54	61	133	142	108	75	45	48	46	43	42	54
Below Normal (17%)	127	116	130	144	103	91	60	57	46	45	72	122
Dry (22%)	123	128	145	158	137	122	86	79	48	55	86	107
Critical (15%)	143	138	176	182	159	139	121	91	70	81	96	122

Table 6B2-4-3b. Jones Pumping Plant South Delta Exports, Alternative 2 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	138	137	172	193	164	142	118	92	61	75	105	124
20%	129	124	160	187	153	129	97	81	56	62	90	116
30%	121	117	156	174	133	113	85	73	51	57	77	109
40%	114	112	148	157	126	109	65	63	49	52	71	102
50%	101	101	142	145	117	97	53	54	47	47	62	92
60%	55	61	131	123	103	82	47	51	46	45	45	54
70%	49	56	118	108	87	59	40	48	43	41	41	50
80%	45	53	98	96	68	45	32	42	40	36	38	45
90%	41	46	78	80	47	38	23	21	36	32	35	38
Long Term												
Full Simulation Period[a]	88	90	132	139	110	91	63	59	49	52	64	81
Water Year Types[b]												
Wet (32%)	43	51	104	96	69	53	32	36	43	42	37	41
Above Normal (15%)	53	60	132	147	109	75	45	48	46	43	41	52
Below Normal (17%)	117	114	131	146	104	92	60	57	47	45	69	110
Dry (22%)	119	124	146	159	138	122	86	79	47	57	92	106
Critical (15%)	140	123	173	183	161	141	120	92	70	83	98	124

Table 6B2-4-3c. Jones Pumping Plant South Delta Exports, Alternative 2 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2	-9	-4	0	-1	1	-2	1	0	5	-1	-7
20%	-5	-8	-2	3	2	0	0	2	0	1	9	-5
30%	-5	-6	0	0	0	1	2	1	-1	0	4	-2
40%	-5	-5	-1	5	2	0	0	0	0	0	1	-3
50%	-10	-11	1	11	3	0	0	0	0	0	-2	-2
60%	-1	-2	0	-1	0	-4	0	0	0	0	0	-2
70%	-2	-1	4	1	0	0	0	0	0	1	0	-1
80%	-1	-1	0	0	0	0	0	0	0	0	0	-2
90%	0	-2	0	0	0	0	0	0	0	1	0	-1
Long Term												
Full Simulation Period[a]	-3	-4	0	1	1	0	0	0	0	1	1	-3
Water Year Types[b]												
Wet (32%)	0	-1	1	0	0	0	0	0	0	0	0	-1
Above Normal (15%)	-1	-1	0	6	1	0	0	0	0	0	0	-1
Below Normal (17%)	-10	-2	1	2	1	0	0	0	0	0	-3	-12
Dry (22%)	-4	-4	1	0	0	0	0	0	0	2	6	-2
Critical (15%)	-3	-15	-4	1	2	2	-1	1	0	2	2	2

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-4-4a. Jones Pumping Plant South Delta Exports, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	140	146	176	193	165	141	120	91	61	70	106	131
20%	134	132	162	183	150	128	97	79	56	61	81	121
30%	126	123	156	173	133	112	83	72	53	57	73	111
40%	119	117	148	152	123	109	65	63	49	51	70	105
50%	111	112	141	134	114	97	53	54	47	47	64	95
60%	55	63	131	124	102	86	47	51	46	45	45	56
70%	51	57	114	108	87	59	40	48	43	39	41	51
80%	46	54	98	95	68	45	32	42	40	36	39	46
90%	41	48	78	80	46	38	23	21	36	31	35	39
Long Term												
Full Simulation Period[a]	91	94	132	137	109	91	63	59	49	51	63	83
Water Year Types[b]												
Wet (32%)	43	53	103	96	69	53	32	36	43	42	38	42
Above Normal (15%)	54	61	133	142	108	75	45	48	46	43	42	54
Below Normal (17%)	127	116	130	144	103	91	60	57	46	45	72	122
Dry (22%)	123	128	145	158	137	122	86	79	48	55	86	107
Critical (15%)	143	138	176	182	159	139	121	91	70	81	96	122

Table 6B2-4-4b. Jones Pumping Plant South Delta Exports, Alternative 3 020121, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	139	141	176	194	164	142	119	92	61	75	108	125
20%	128	127	162	184	151	129	97	81	56	61	86	116
30%	121	118	158	176	134	112	85	72	51	57	79	111
40%	117	113	150	158	125	109	65	63	49	51	70	103
50%	104	102	141	144	116	97	53	54	47	47	61	93
60%	55	62	131	124	103	84	47	51	46	45	45	54
70%	48	56	118	109	87	59	40	48	43	42	41	50
80%	44	54	98	96	68	45	32	42	40	35	38	44
90%	41	48	78	80	48	38	23	21	36	32	35	38
Long Term												
Full Simulation Period[a]	89	91	132	139	109	91	63	59	49	52	64	82
Water Year Types[b]												
Wet (32%)	43	51	104	96	69	53	32	36	43	42	37	42
Above Normal (15%)	50	62	131	147	110	75	45	48	46	42	41	51
Below Normal (17%)	118	117	129	149	104	92	60	57	47	45	69	111
Dry (22%)	121	122	148	158	137	122	86	78	47	57	91	107
Critical (15%)	145	127	173	182	160	141	120	92	70	82	100	128

Table 6B2-4-4c. Jones Pumping Plant South Delta Exports, Alternative 3 020121 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-5	-1	1	-1	1	0	0	0	5	2	-6
20%	-6	-5	1	1	1	0	0	2	0	0	6	-5
30%	-5	-5	2	2	1	0	2	0	-2	0	5	-1
40%	-2	-4	2	6	1	0	0	0	0	0	0	-2
50%	-7	-10	0	10	2	0	0	0	0	0	-3	-2
60%	0	-1	1	0	0	-1	0	0	0	0	0	-2
70%	-4	-1	4	2	0	0	0	0	0	3	0	-1
80%	-2	-1	0	1	0	0	0	0	0	-1	0	-2
90%	0	0	0	0	1	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	-2	-3	0	2	0	0	0	0	0	1	1	-2
Water Year Types[b]												
Wet (32%)	0	-1	1	0	0	0	0	0	0	0	0	-1
Above Normal (15%)	-3	1	-1	5	1	0	0	0	0	-1	0	-2
Below Normal (17%)	-9	1	-1	5	1	1	0	0	0	0	-3	-11
Dry (22%)	-2	-6	3	0	0	0	0	-1	-1	2	6	0
Critical (15%)	3	-11	-3	0	0	2	-1	1	1	1	4	6

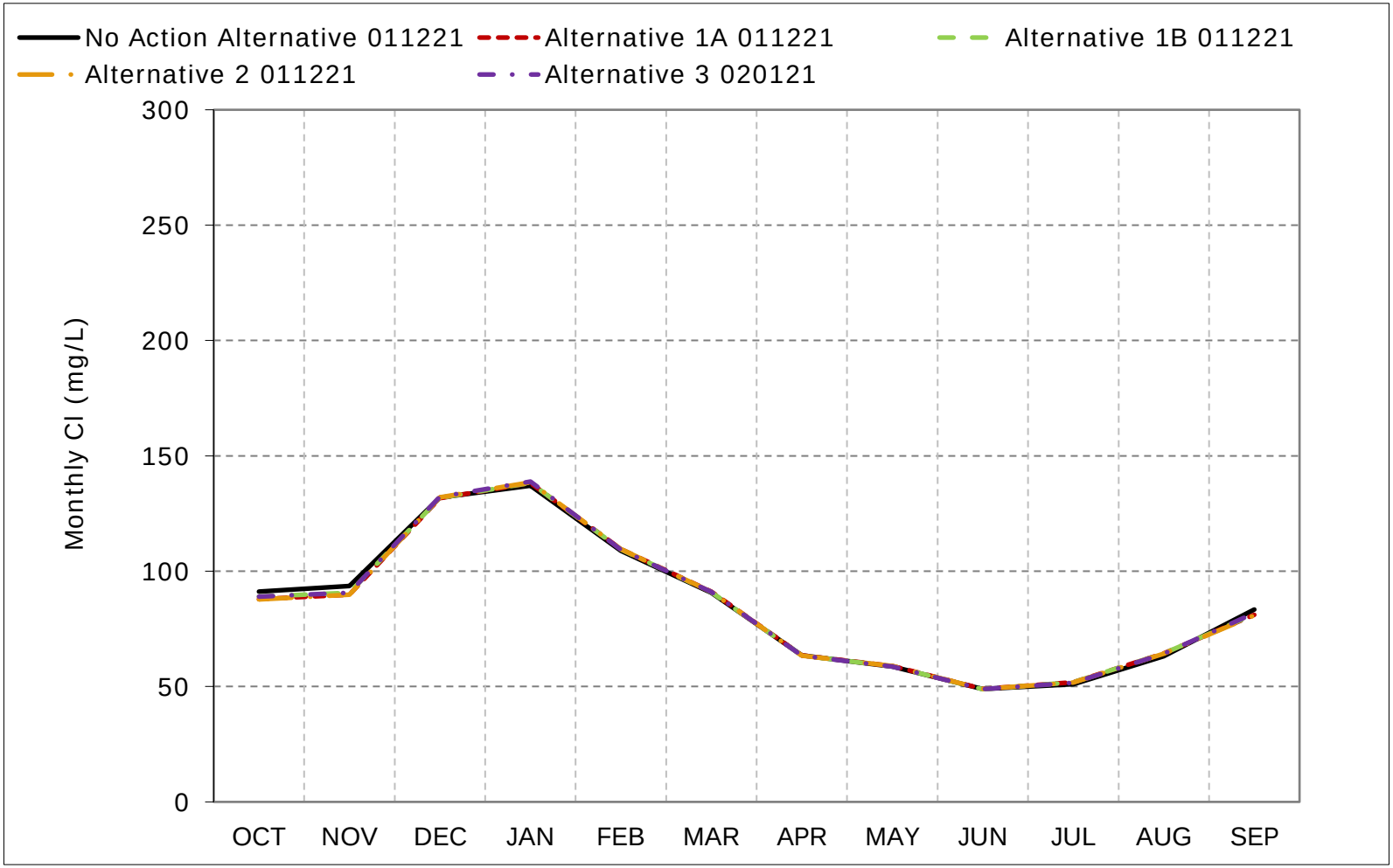
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-1. Jones Pumping Plant South Delta Exports, Long-Term Average Cl

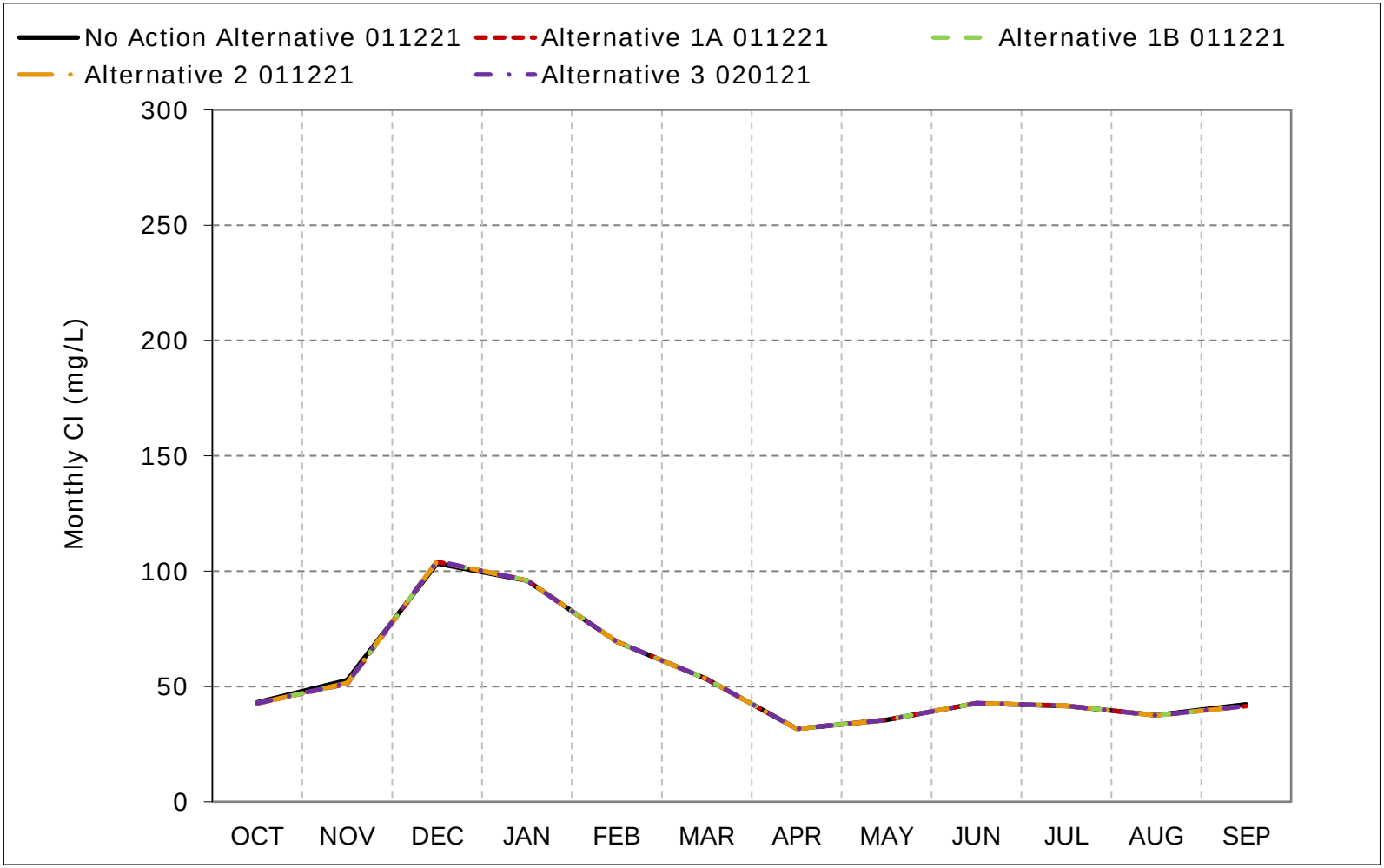


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-2. Jones Pumping Plant South Delta Exports, Wet Year Average Cl

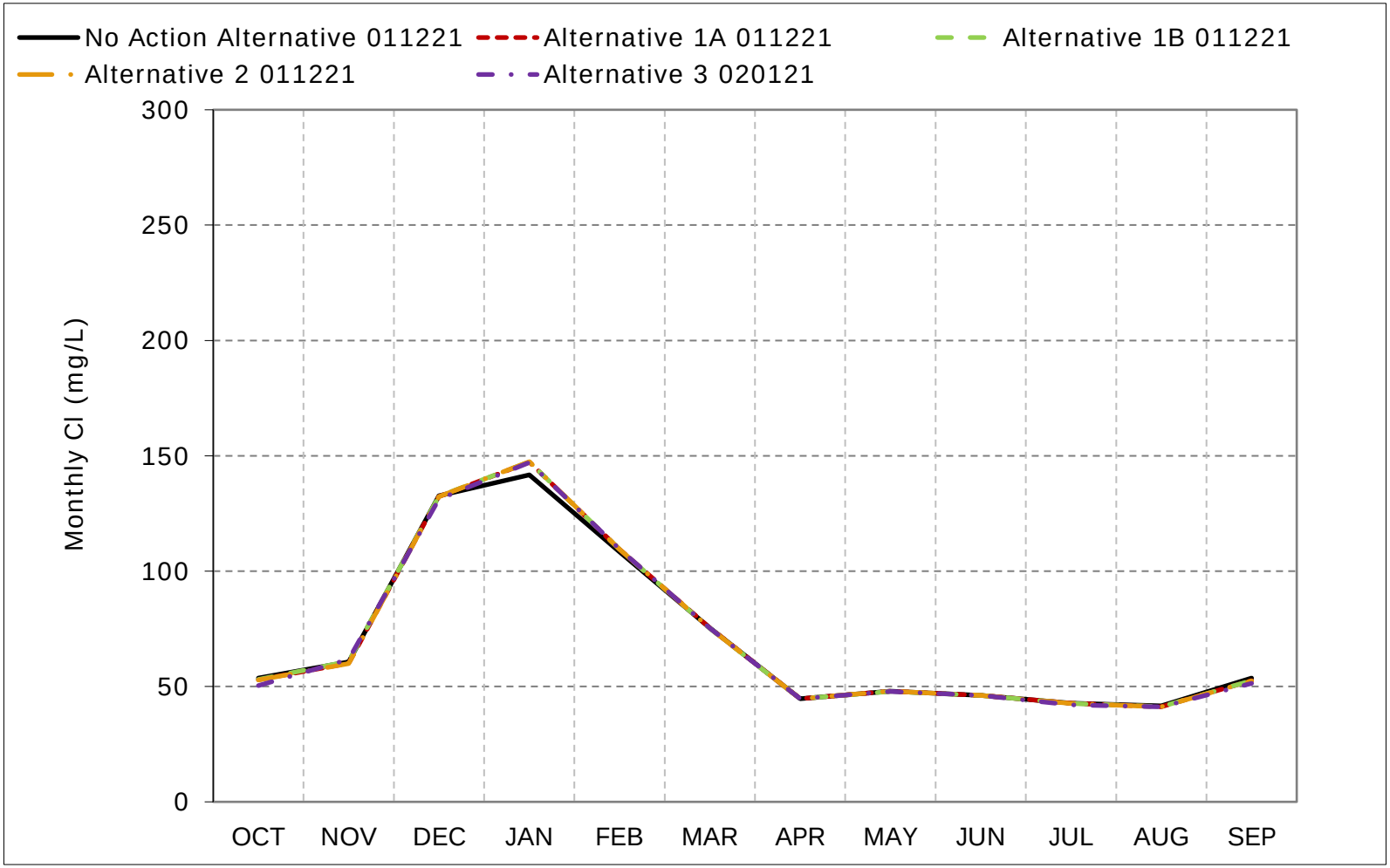


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-3. Jones Pumping Plant South Delta Exports, Above Normal Year Average Cl

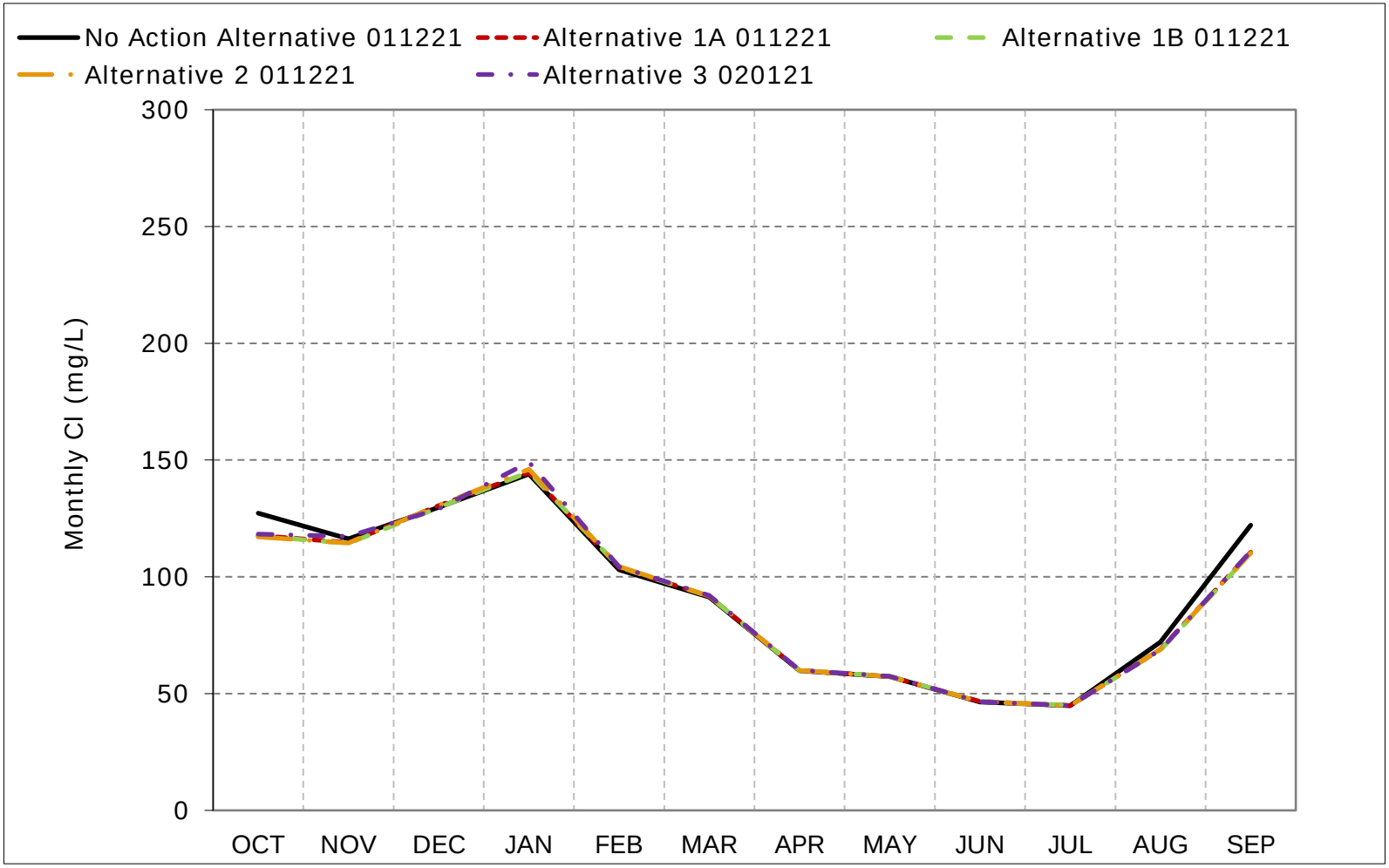


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-4. Jones Pumping Plant South Delta Exports, Below Normal Year Average Cl

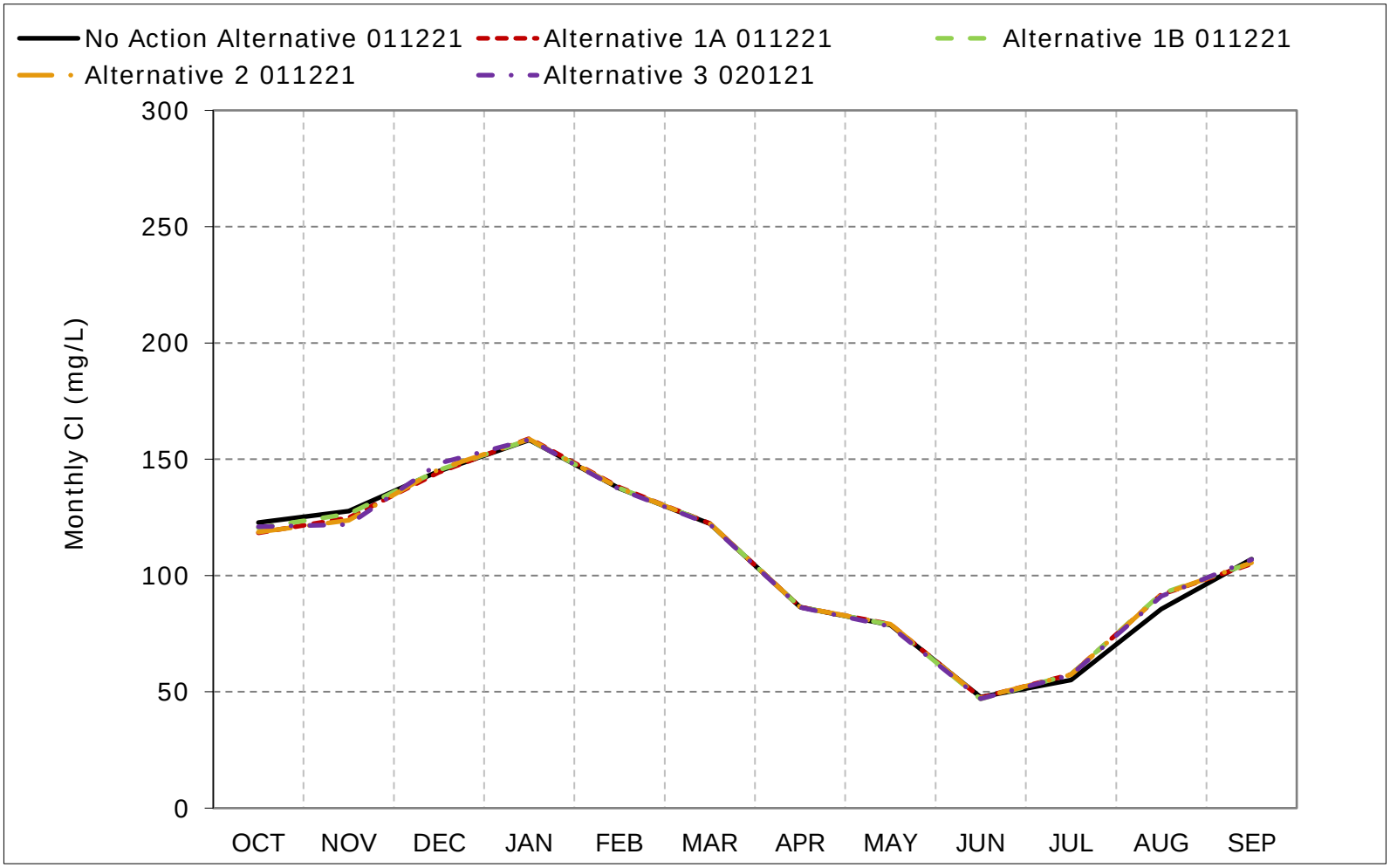


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-5. Jones Pumping Plant South Delta Exports, Dry Year Average Cl

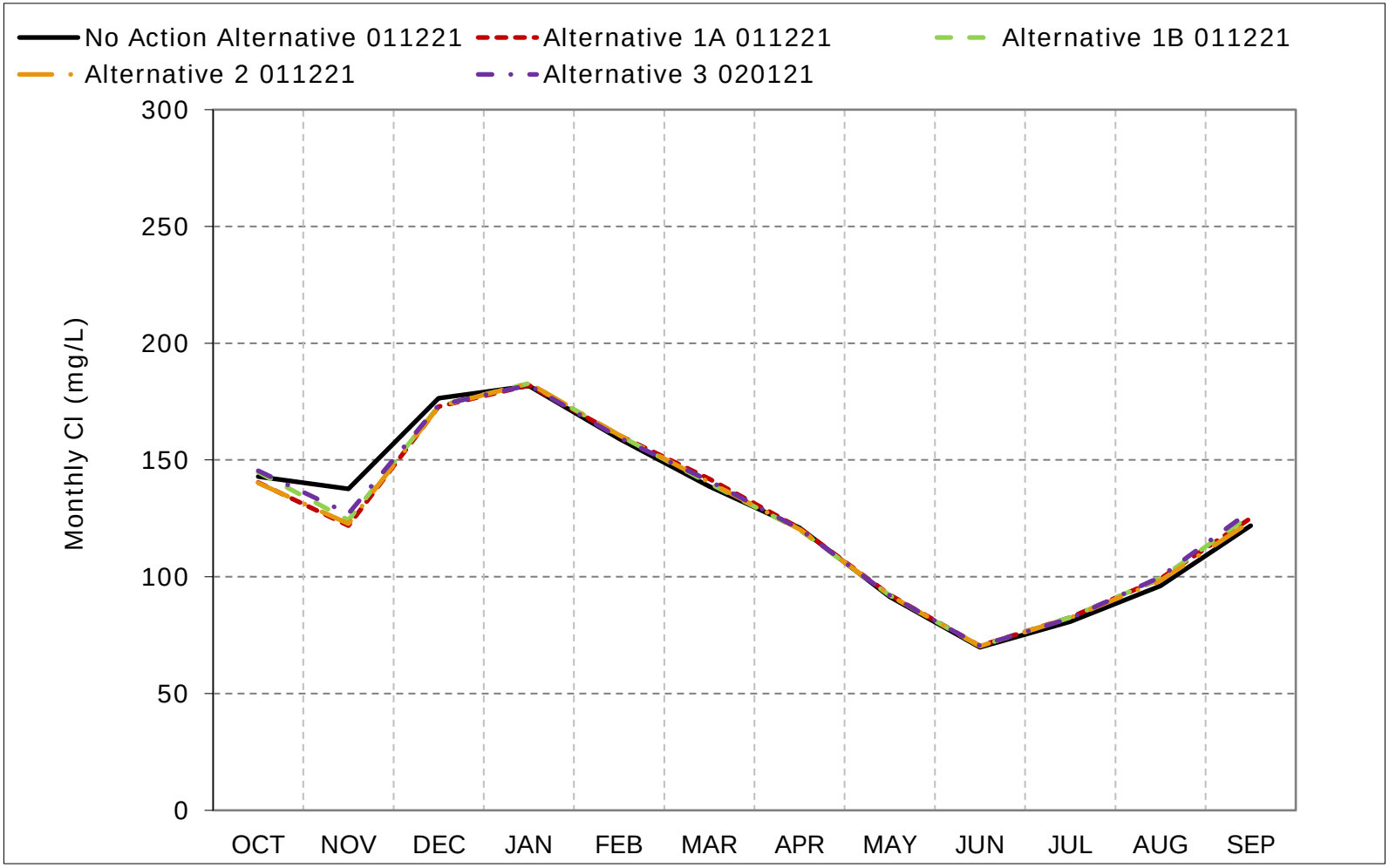


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-6. Jones Pumping Plant South Delta Exports, Critical Year Average Cl

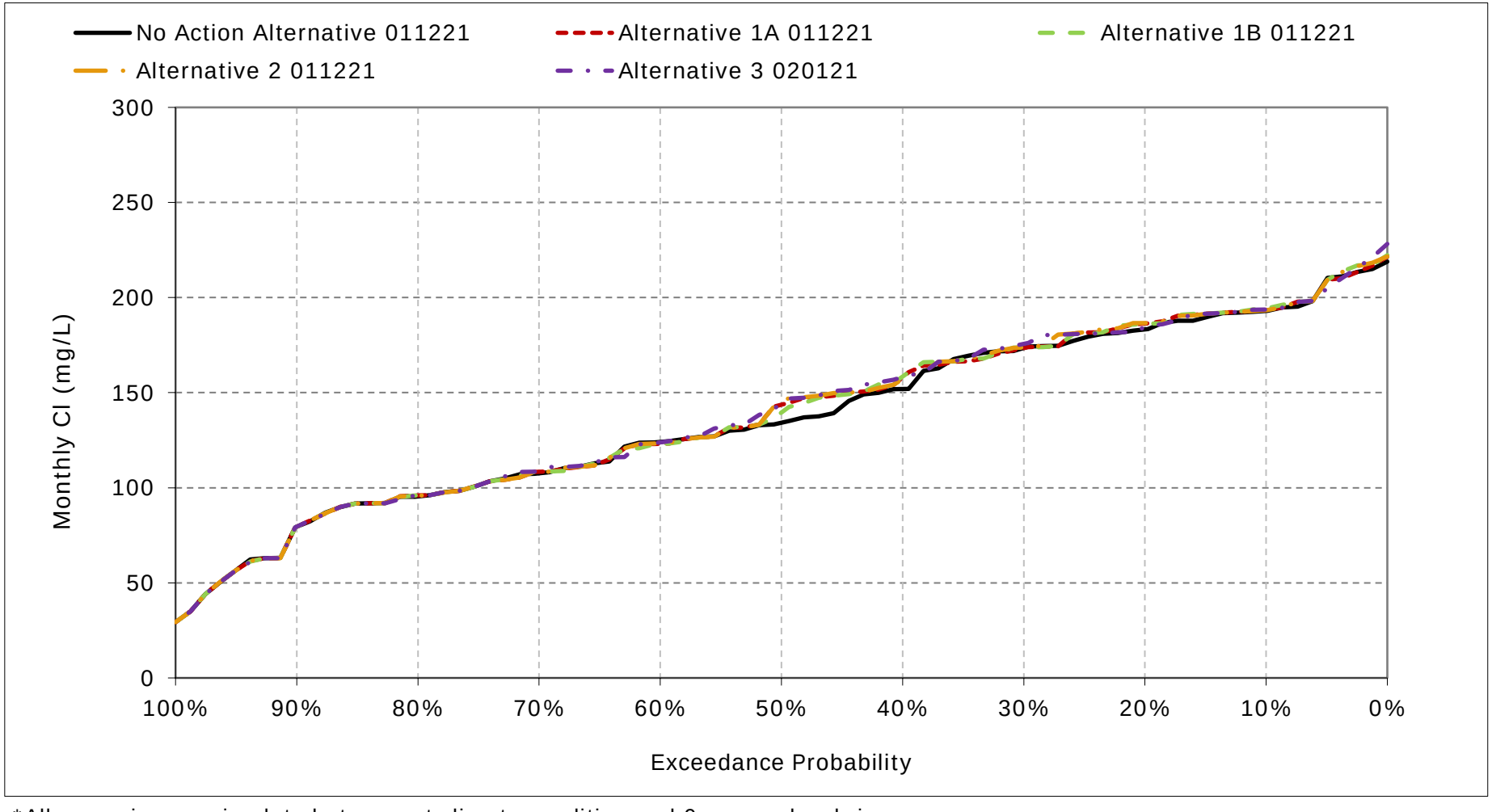


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

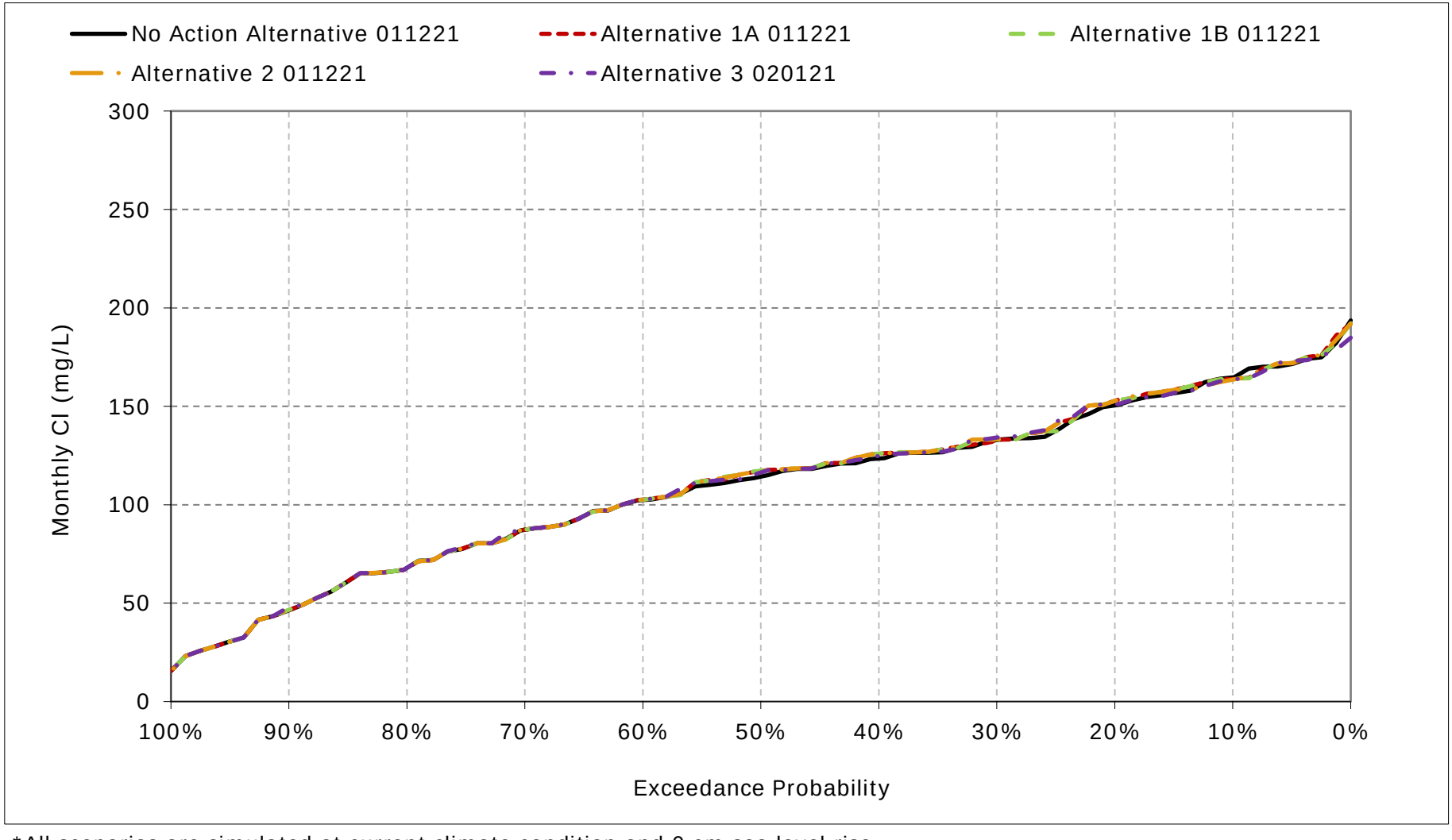
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-7. Jones Pumping Plant South Delta Exports Chloride, January Cl



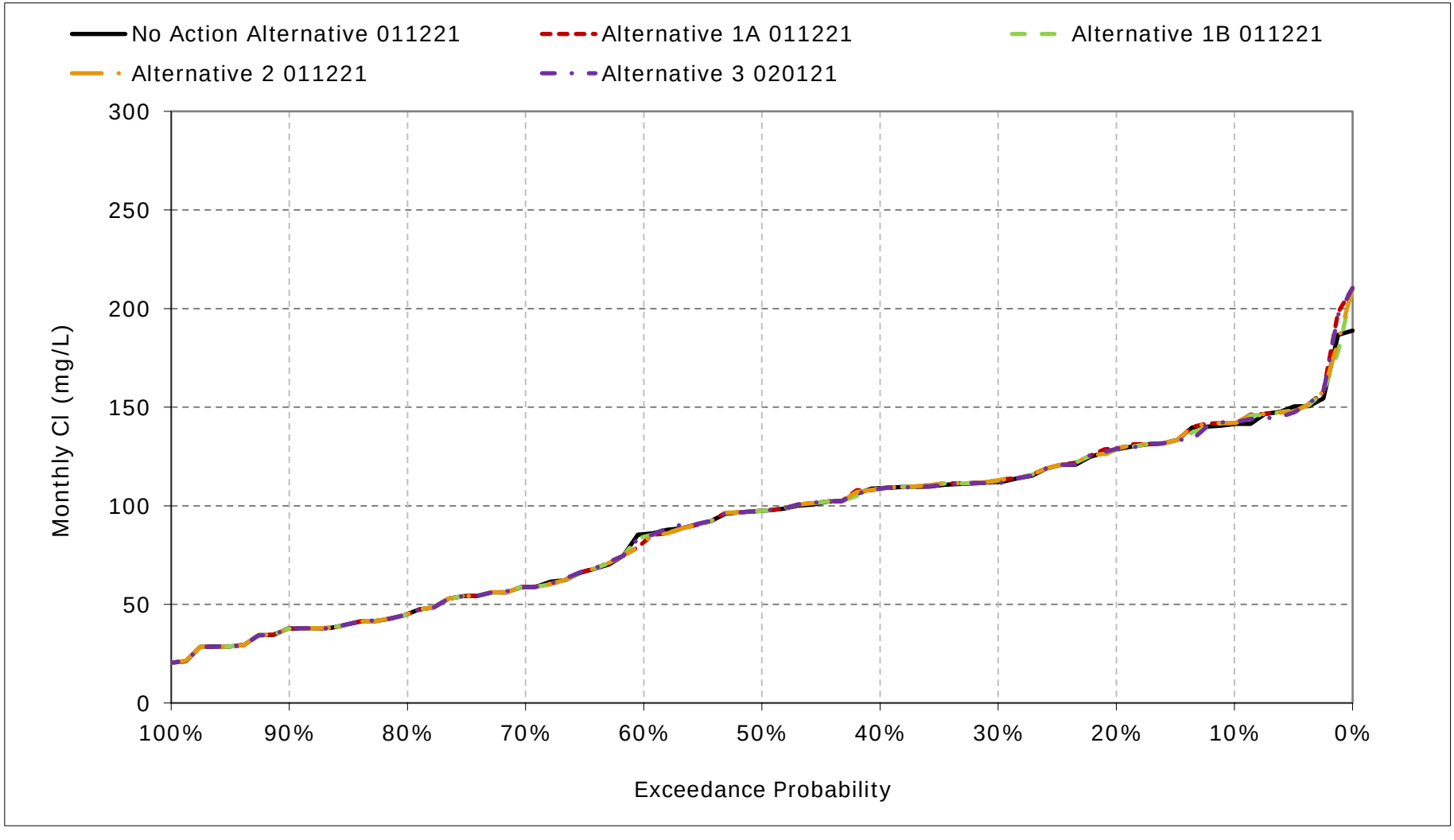
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-8. Jones Pumping Plant South Delta Exports Chloride, February Cl



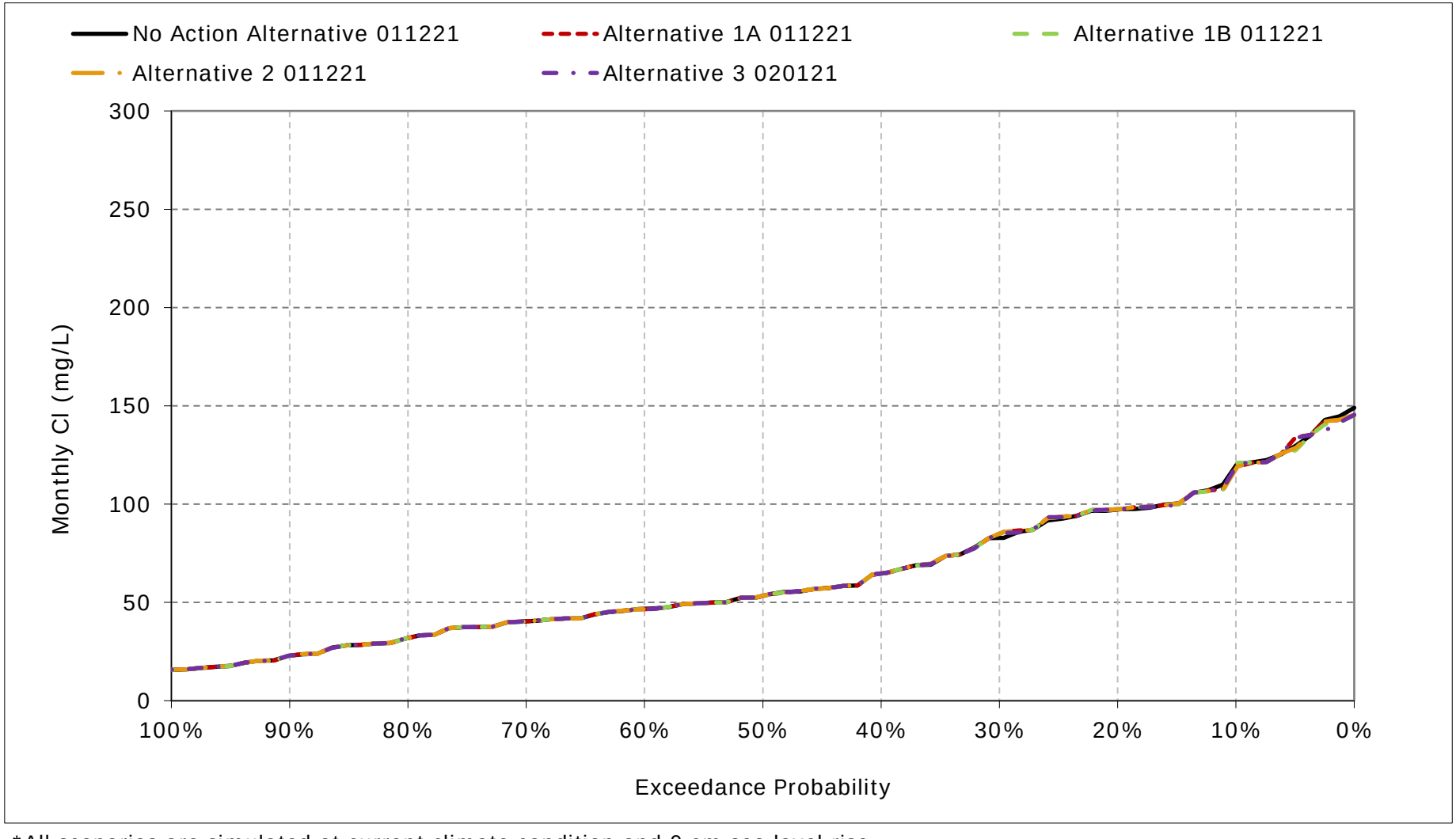
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-9. Jones Pumping Plant South Delta Exports Chloride, March Cl



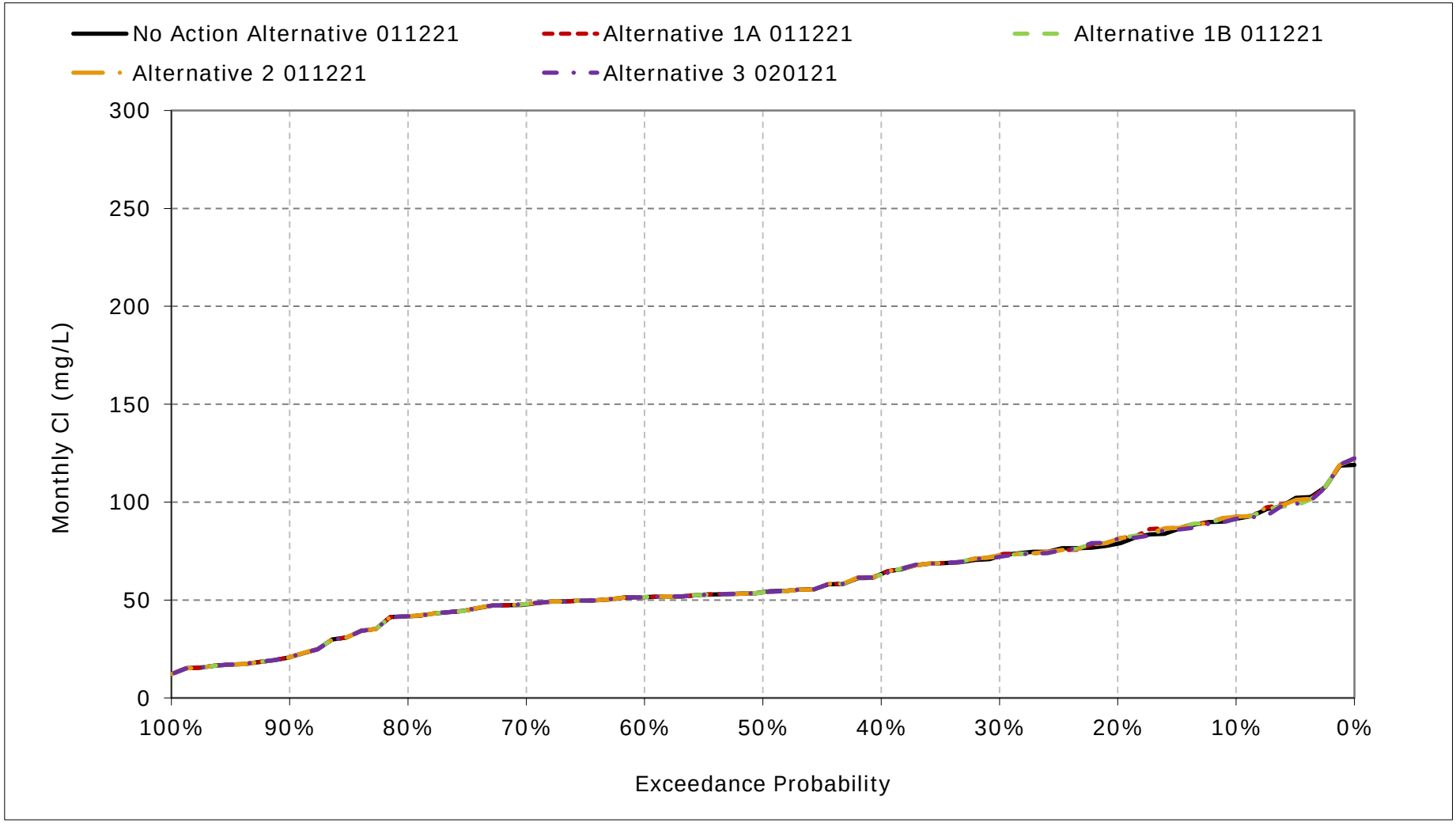
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-10. Jones Pumping Plant South Delta Exports Chloride, April Cl



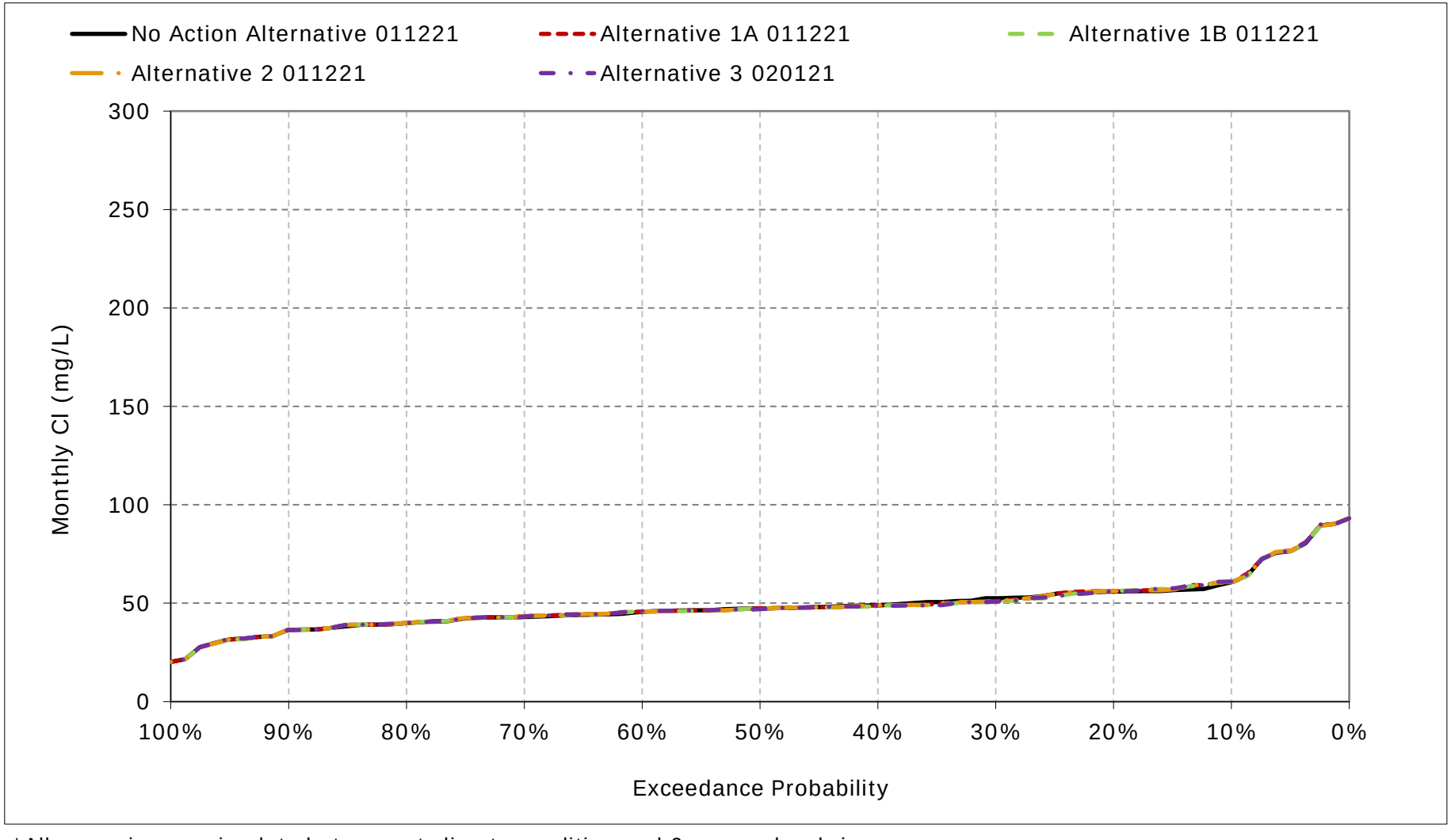
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-11. Jones Pumping Plant South Delta Exports Chloride, May Cl



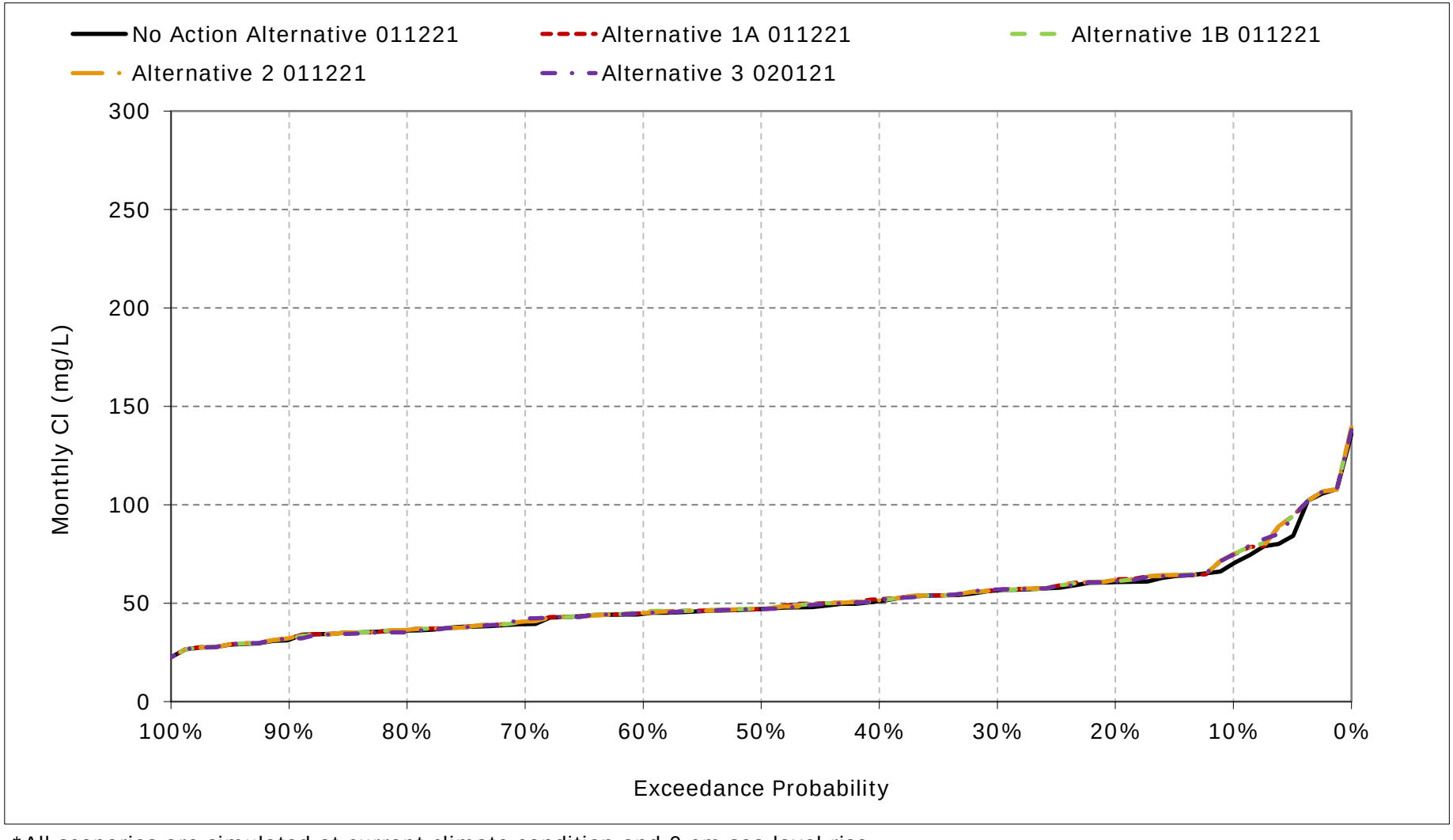
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-12. Jones Pumping Plant South Delta Exports Chloride, June Cl



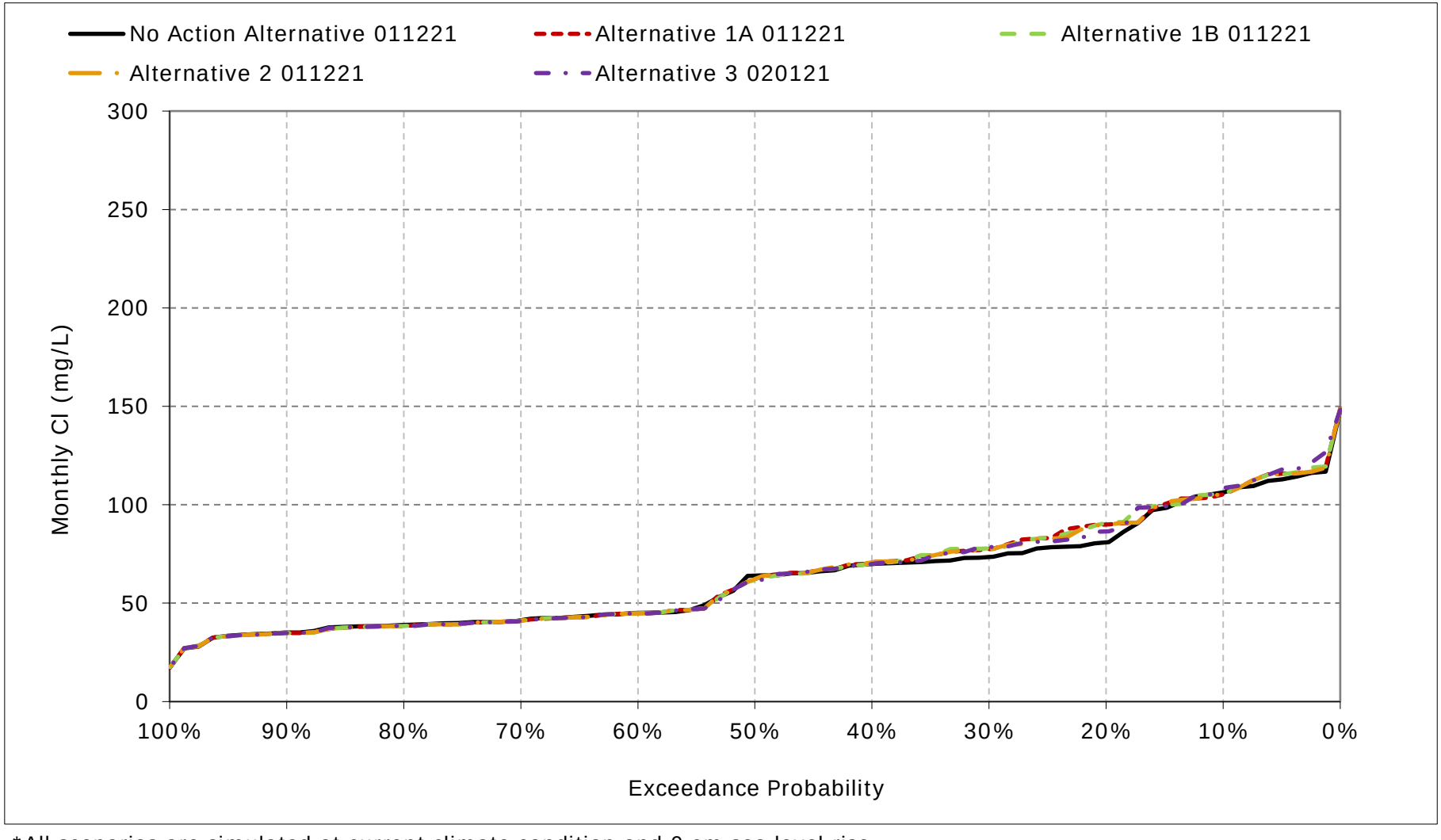
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-13. Jones Pumping Plant South Delta Exports Chloride, July Cl



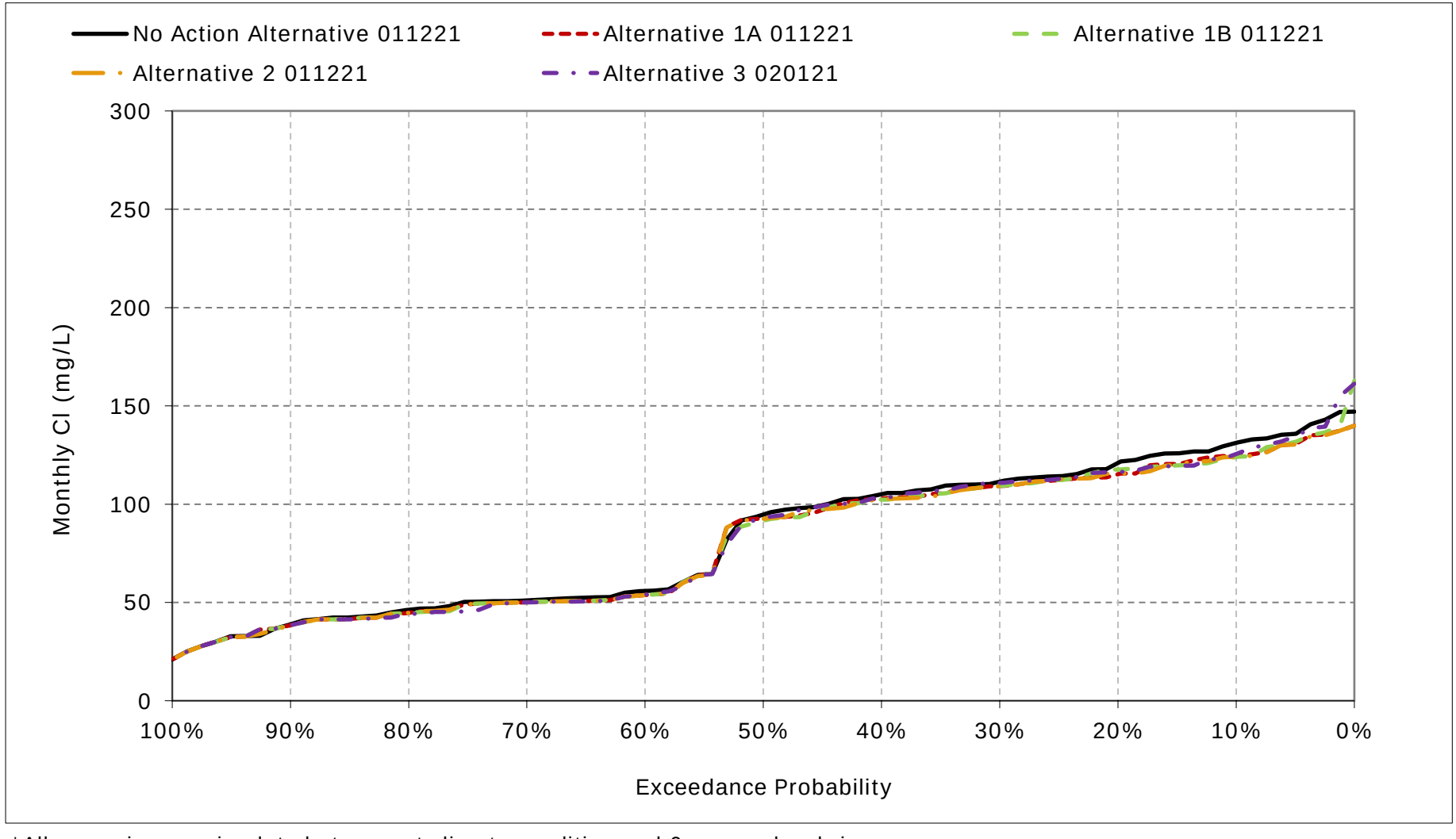
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-14. Jones Pumping Plant South Delta Exports Chloride, August Cl



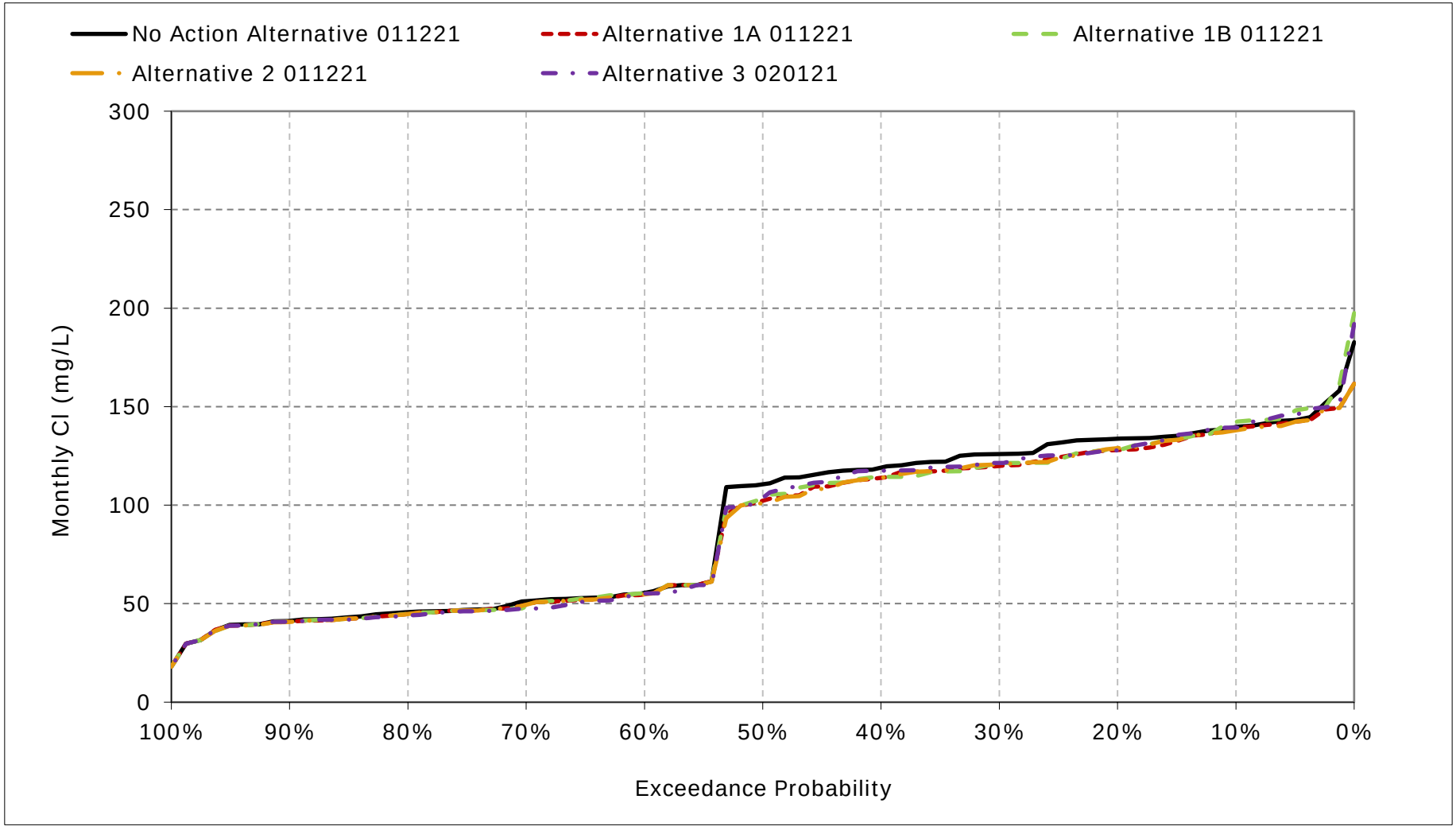
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-15. Jones Pumping Plant South Delta Exports Chloride, September Cl



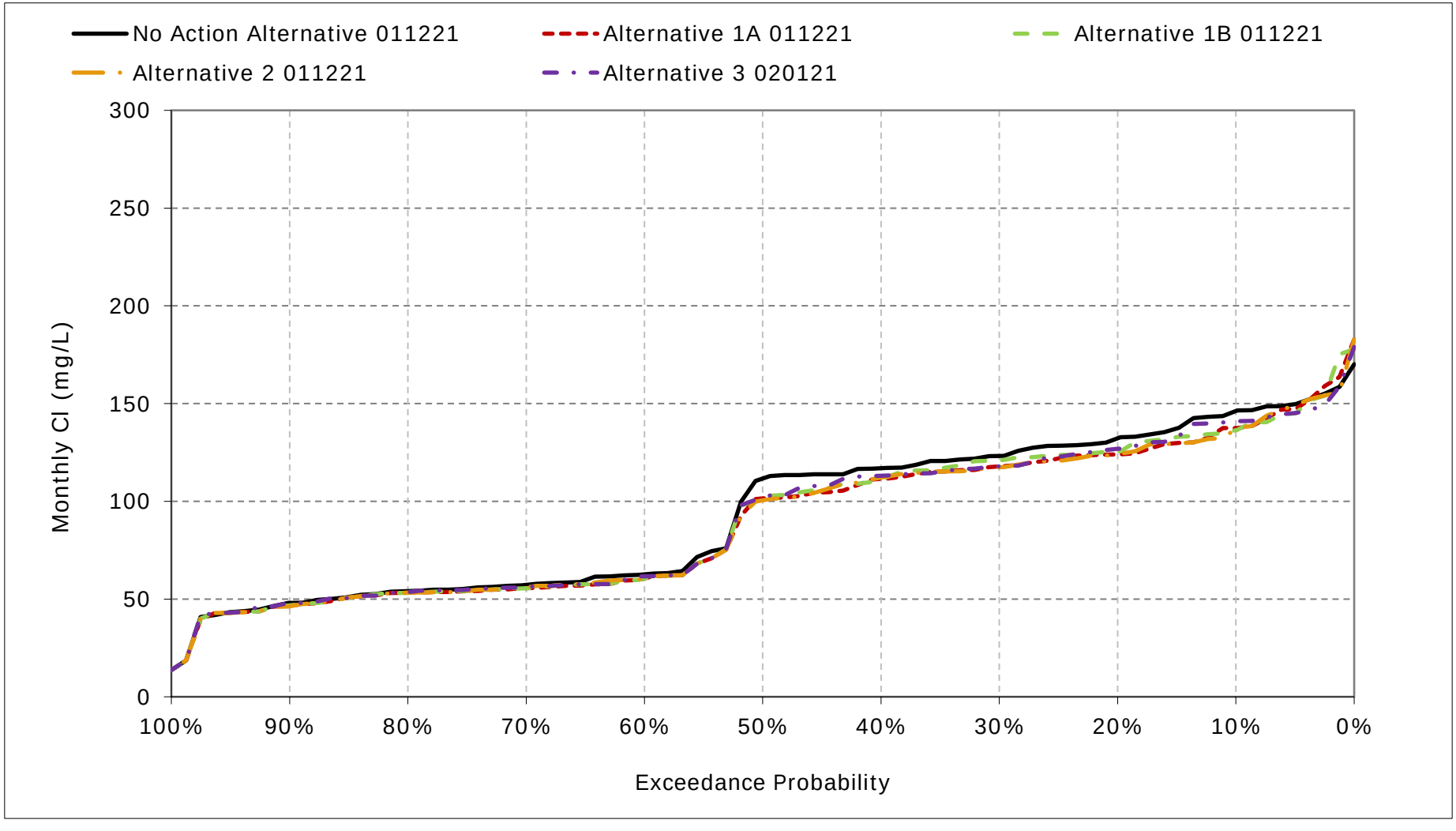
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-16. Jones Pumping Plant South Delta Exports Chloride, October Cl



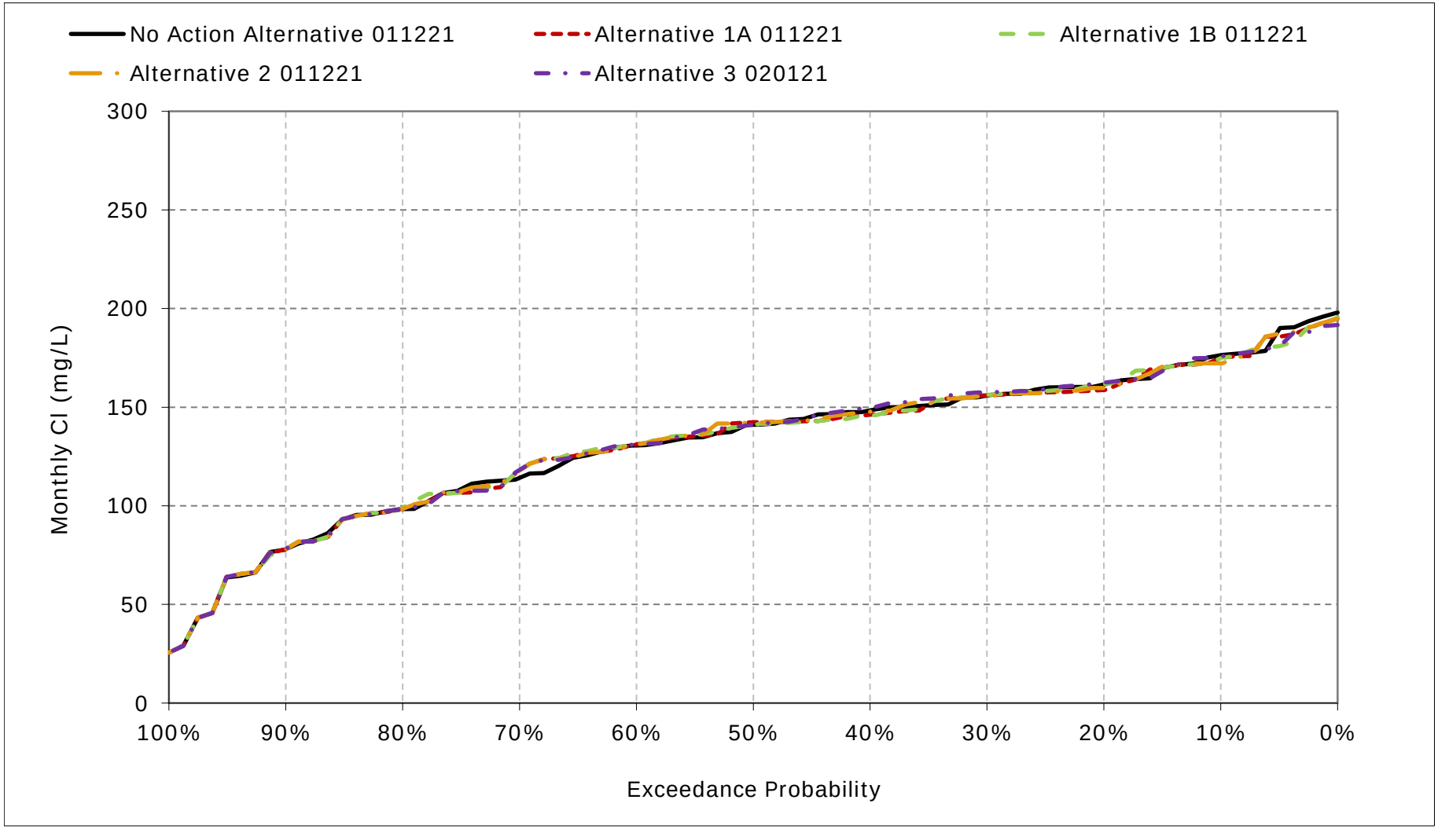
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-17. Jones Pumping Plant South Delta Exports Chloride, November Cl



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-4-18. Jones Pumping Plant South Delta Exports Chloride, December Cl



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-5-1a. North Bay Aqueduct, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17	18	19	22	24	22	20	19	18	18	17	17
20%	17	18	19	21	22	21	19	18	17	17	17	17
30%	17	18	18	20	21	20	19	18	17	17	17	17
40%	17	17	18	19	21	19	18	17	17	17	17	17
50%	17	17	18	19	20	19	18	17	17	17	17	17
60%	17	17	17	18	19	18	18	17	17	17	17	17
70%	17	17	17	18	19	18	18	17	17	16	17	17
80%	17	17	17	18	18	18	17	17	16	16	16	17
90%	16	16	16	17	18	17	17	16	16	16	16	16
Long Term												
Full Simulation Period[a]	17	17	18	19	20	19	19	18	17	17	17	17
Water Year Types[b]												
Wet (32%)	17	17	17	20	21	19	18	17	16	16	17	17
Above Normal (15%)	17	17	18	20	21	19	18	17	17	17	17	17
Below Normal (17%)	17	17	18	20	20	19	18	17	17	17	17	17
Dry (22%)	17	17	18	19	20	19	19	18	17	17	17	17
Critical (15%)	18	18	19	19	20	20	21	20	19	18	18	18

Table 6B2-5-1b. North Bay Aqueduct, Alternative 1A 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17	18	19	22	24	23	20	19	18	18	17	17
20%	17	18	19	21	23	21	19	18	17	17	17	17
30%	17	17	18	20	21	20	19	18	17	17	17	17
40%	17	17	18	19	21	20	19	17	17	17	17	17
50%	17	17	18	19	20	19	18	17	17	17	17	17
60%	17	17	17	19	19	18	18	17	17	17	16	17
70%	17	17	17	18	19	18	18	17	17	16	16	16
80%	17	17	17	18	18	18	17	17	16	16	16	16
90%	16	16	16	17	18	17	17	16	16	16	16	16
Long Term												
Full Simulation Period[a]	17	17	18	19	20	19	19	18	17	17	17	17
Water Year Types[b]												
Wet (32%)	17	17	17	20	21	19	18	17	16	16	17	17
Above Normal (15%)	17	17	18	20	21	19	18	17	17	17	17	17
Below Normal (17%)	17	17	18	20	20	20	18	17	17	17	16	17
Dry (22%)	17	17	18	19	20	19	19	18	17	16	16	16
Critical (15%)	17	18	19	19	20	20	21	21	19	18	17	17

Table 6B2-5-1c. North Bay Aqueduct, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-5-2a. North Bay Aqueduct, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17	18	19	22	24	22	20	19	18	18	17	17
20%	17	18	19	21	22	21	19	18	17	17	17	17
30%	17	18	18	20	21	20	19	18	17	17	17	17
40%	17	17	18	19	21	19	18	17	17	17	17	17
50%	17	17	18	19	20	19	18	17	17	17	17	17
60%	17	17	17	18	19	18	18	17	17	17	17	17
70%	17	17	17	18	19	18	18	17	17	16	17	17
80%	17	17	17	18	18	18	17	17	16	16	16	17
90%	16	16	16	17	18	17	17	16	16	16	16	16
Long Term												
Full Simulation Period[a]	17	17	18	19	20	19	19	18	17	17	17	17
Water Year Types[b]												
Wet (32%)	17	17	17	20	21	19	18	17	16	16	17	17
Above Normal (15%)	17	17	18	20	21	19	18	17	17	17	17	17
Below Normal (17%)	17	17	18	20	20	19	18	17	17	17	17	17
Dry (22%)	17	17	18	19	20	19	19	18	17	17	17	17
Critical (15%)	18	18	19	19	20	20	21	20	19	18	18	18

Table 6B2-5-2b. North Bay Aqueduct, Alternative 1B 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17	18	19	22	24	23	20	19	18	18	17	17
20%	17	18	19	21	23	21	19	18	17	17	17	17
30%	17	17	18	20	21	20	19	18	17	17	17	17
40%	17	17	18	19	21	20	19	17	17	17	17	17
50%	17	17	18	19	20	19	18	17	17	17	17	17
60%	17	17	17	19	19	18	18	17	17	17	16	17
70%	17	17	17	18	19	18	18	17	17	16	16	16
80%	17	17	17	18	18	18	17	17	16	16	16	16
90%	16	16	16	17	18	17	17	16	16	16	16	16
Long Term												
Full Simulation Period[a]	17	17	18	19	20	19	19	18	17	17	17	17
Water Year Types[b]												
Wet (32%)	17	17	17	20	21	19	18	17	16	16	17	17
Above Normal (15%)	17	17	18	20	21	19	18	17	17	17	17	17
Below Normal (17%)	17	17	18	20	20	20	18	17	17	17	16	17
Dry (22%)	17	17	18	19	20	19	19	18	17	16	16	16
Critical (15%)	17	18	19	19	20	20	20	20	19	18	17	17

Table 6B2-5-2c. North Bay Aqueduct, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-5-3a. North Bay Aqueduct, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17	18	19	22	24	22	20	19	18	18	17	17
20%	17	18	19	21	22	21	19	18	17	17	17	17
30%	17	18	18	20	21	20	19	18	17	17	17	17
40%	17	17	18	19	21	19	18	17	17	17	17	17
50%	17	17	18	19	20	19	18	17	17	17	17	17
60%	17	17	17	18	19	18	18	17	17	17	17	17
70%	17	17	17	18	19	18	18	17	17	16	17	17
80%	17	17	17	18	18	18	17	17	16	16	16	17
90%	16	16	16	17	18	17	17	16	16	16	16	16
Long Term												
Full Simulation Period[a]	17	17	18	19	20	19	19	18	17	17	17	17
Water Year Types[b]												
Wet (32%)	17	17	17	20	21	19	18	17	16	16	17	17
Above Normal (15%)	17	17	18	20	21	19	18	17	17	17	17	17
Below Normal (17%)	17	17	18	20	20	19	18	17	17	17	17	17
Dry (22%)	17	17	18	19	20	19	19	18	17	17	17	17
Critical (15%)	18	18	19	19	20	20	21	20	19	18	18	18

Table 6B2-5-3b. North Bay Aqueduct, Alternative 2 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17	18	19	22	24	23	20	19	18	18	17	17
20%	17	18	19	21	23	21	19	18	17	17	17	17
30%	17	17	18	20	21	20	19	18	17	17	17	17
40%	17	17	18	19	21	20	19	17	17	17	17	17
50%	17	17	18	19	20	19	18	17	17	17	17	17
60%	17	17	17	18	19	18	18	17	17	17	16	17
70%	17	17	17	18	19	18	18	17	17	16	16	16
80%	17	17	17	18	18	18	17	17	16	16	16	16
90%	16	16	16	17	18	17	17	16	16	16	16	16
Long Term												
Full Simulation Period[a]	17	17	18	19	20	19	19	18	17	17	17	17
Water Year Types[b]												
Wet (32%)	17	17	17	20	21	19	18	17	16	16	17	17
Above Normal (15%)	17	17	18	20	21	19	18	17	17	17	17	17
Below Normal (17%)	17	17	18	20	20	20	18	17	17	17	16	17
Dry (22%)	17	17	18	19	20	19	19	18	17	16	16	16
Critical (15%)	17	18	19	19	20	20	21	20	19	18	17	17

Table 6B2-5-3c. North Bay Aqueduct, Alternative 2 011221 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 6B2-5-4a. North Bay Aqueduct, No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17	18	19	22	24	22	20	19	18	18	17	17
20%	17	18	19	21	22	21	19	18	17	17	17	17
30%	17	18	18	20	21	20	19	18	17	17	17	17
40%	17	17	18	19	21	19	18	17	17	17	17	17
50%	17	17	18	19	20	19	18	17	17	17	17	17
60%	17	17	17	18	19	18	18	17	17	17	17	17
70%	17	17	17	18	19	18	18	17	17	16	17	17
80%	17	17	17	18	18	18	17	17	16	16	16	17
90%	16	16	16	17	18	17	17	16	16	16	16	16
Long Term												
Full Simulation Period[a]	17	17	18	19	20	19	19	18	17	17	17	17
Water Year Types[b]												
Wet (32%)	17	17	17	20	21	19	18	17	16	16	17	17
Above Normal (15%)	17	17	18	20	21	19	18	17	17	17	17	17
Below Normal (17%)	17	17	18	20	20	19	18	17	17	17	17	17
Dry (22%)	17	17	18	19	20	19	19	18	17	17	17	17
Critical (15%)	18	18	19	19	20	20	21	20	19	18	18	18

Table 6B2-5-4b. North Bay Aqueduct, Alternative 3 020121, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	17	18	19	22	24	23	20	19	18	17	17	17
20%	17	18	19	21	23	21	19	18	17	17	17	17
30%	17	17	18	20	21	20	19	18	17	17	17	17
40%	17	17	18	19	21	20	19	17	17	17	17	17
50%	17	17	18	19	20	19	18	17	17	17	17	17
60%	17	17	17	18	19	18	18	17	17	17	16	17
70%	17	17	17	18	19	18	18	17	17	16	16	16
80%	17	17	17	18	18	18	17	17	16	16	16	16
90%	16	16	16	17	18	17	17	16	16	16	16	16
Long Term												
Full Simulation Period[a]	17	17	18	19	20	19	19	18	17	17	17	17
Water Year Types[b]												
Wet (32%)	17	17	17	20	21	19	18	17	16	16	17	17
Above Normal (15%)	17	17	18	20	21	19	18	17	17	17	17	17
Below Normal (17%)	17	17	18	20	20	20	18	17	17	17	16	17
Dry (22%)	17	17	18	19	20	19	19	18	17	16	16	16
Critical (15%)	17	18	19	19	20	20	21	20	19	18	17	17

Table 6B2-5-4c. North Bay Aqueduct, Alternative 3 020121 minus No Action Alternative 011221, Monthly Cl (mg/L)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[a]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[b]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

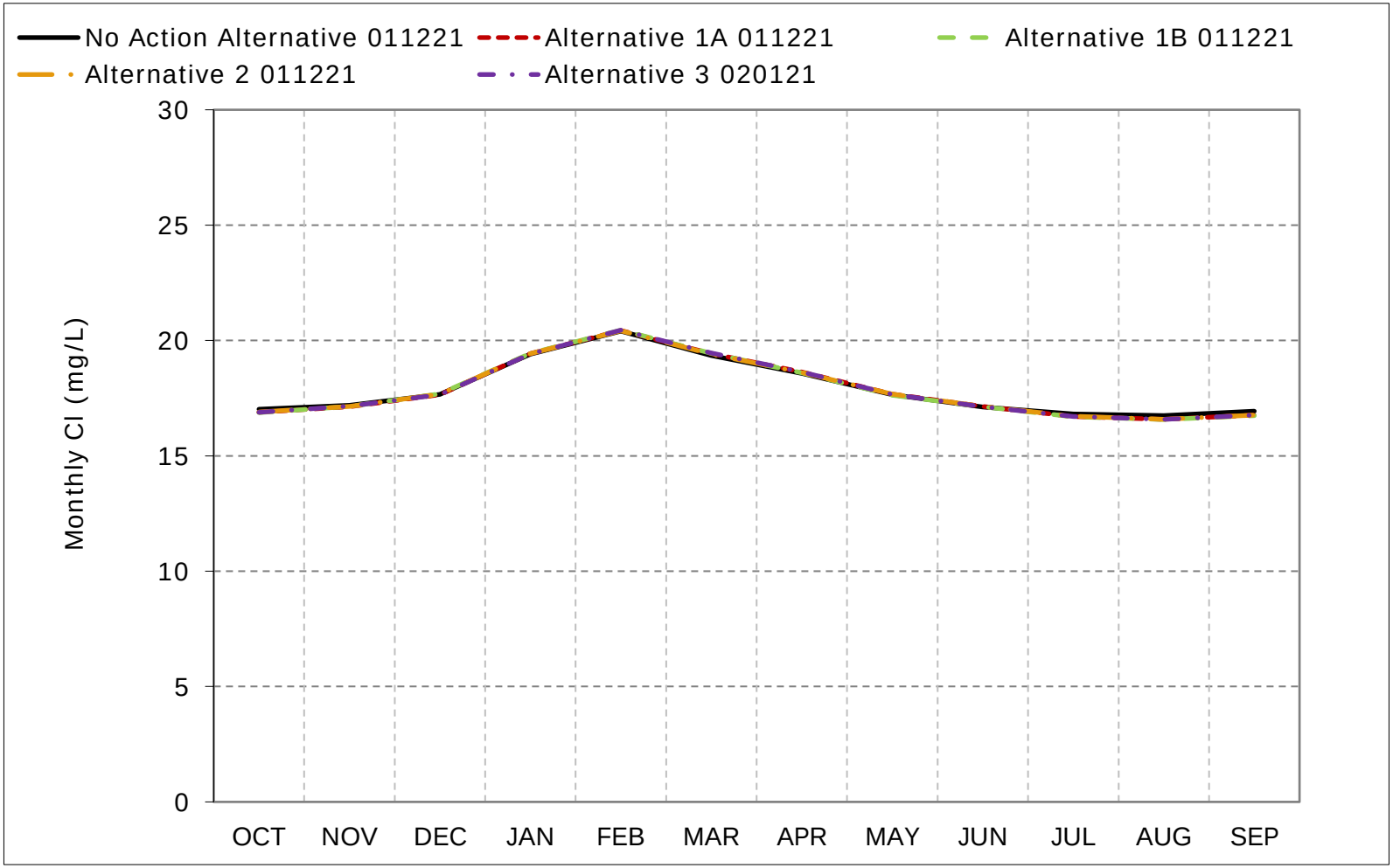
a Based on the 82-year simulation period.

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

d All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-1. North Bay Aqueduct, Long-Term Average Cl

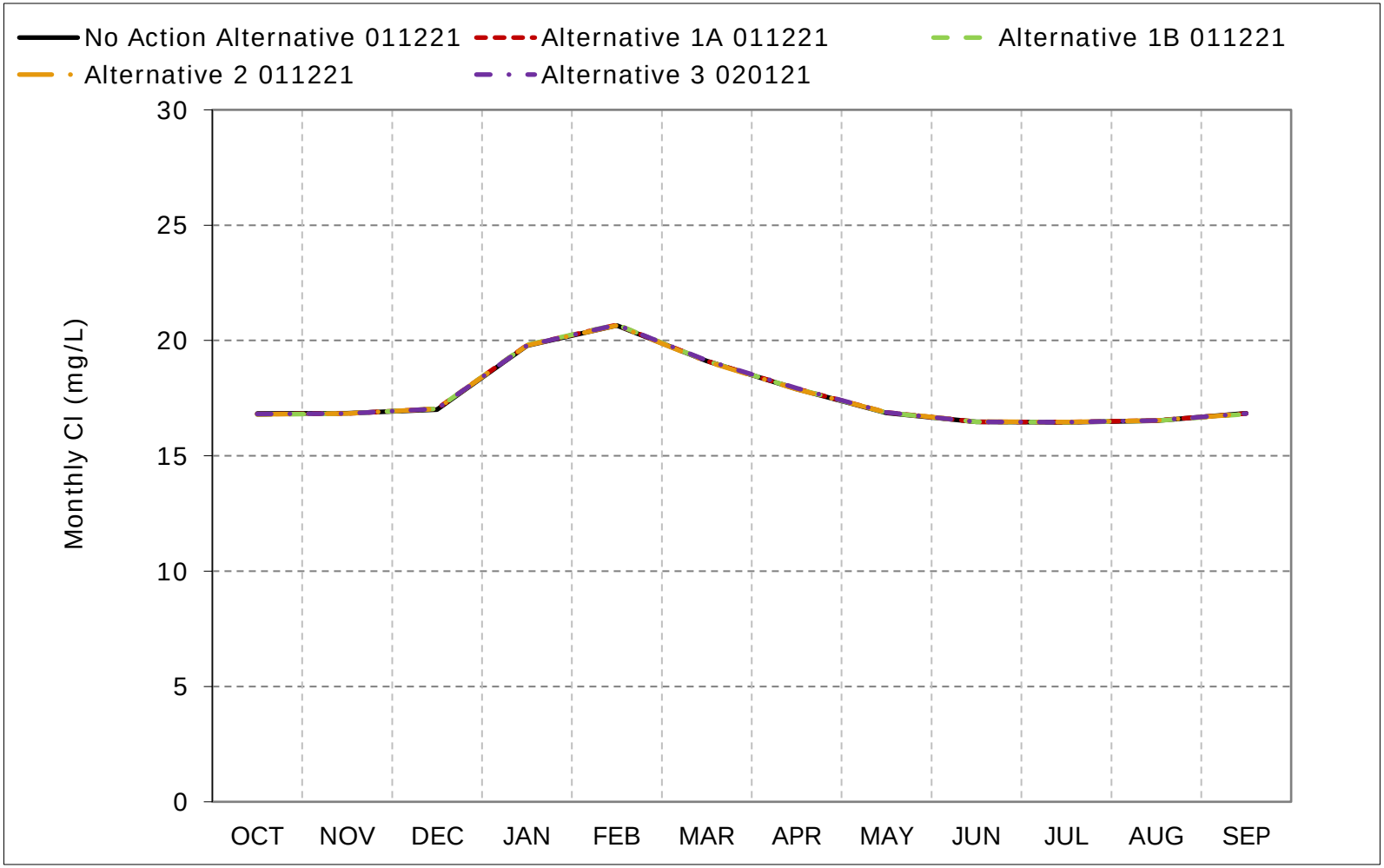


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-2. North Bay Aqueduct, Wet Year Average Cl

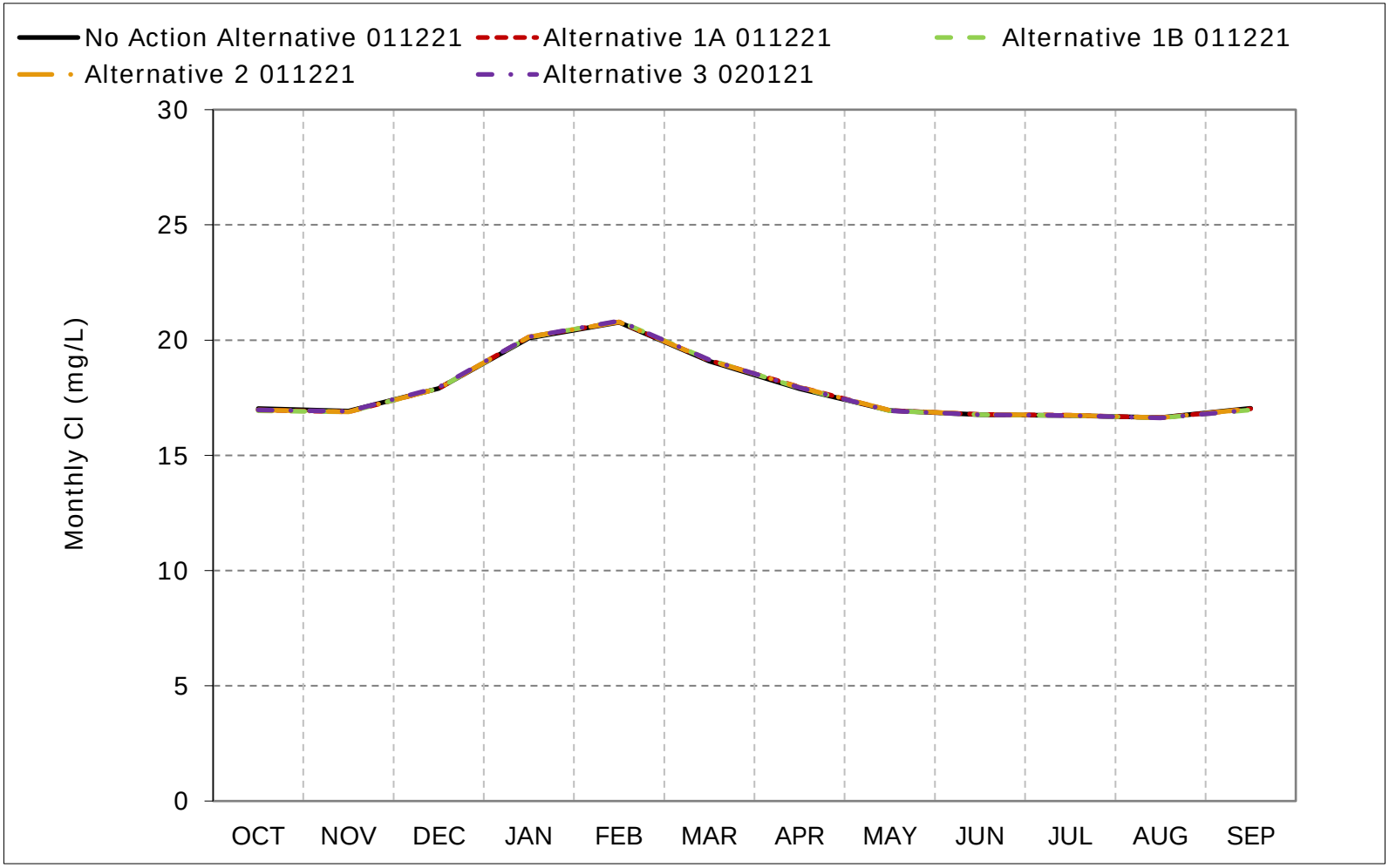


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-3. North Bay Aqueduct, Above Normal Year Average Cl

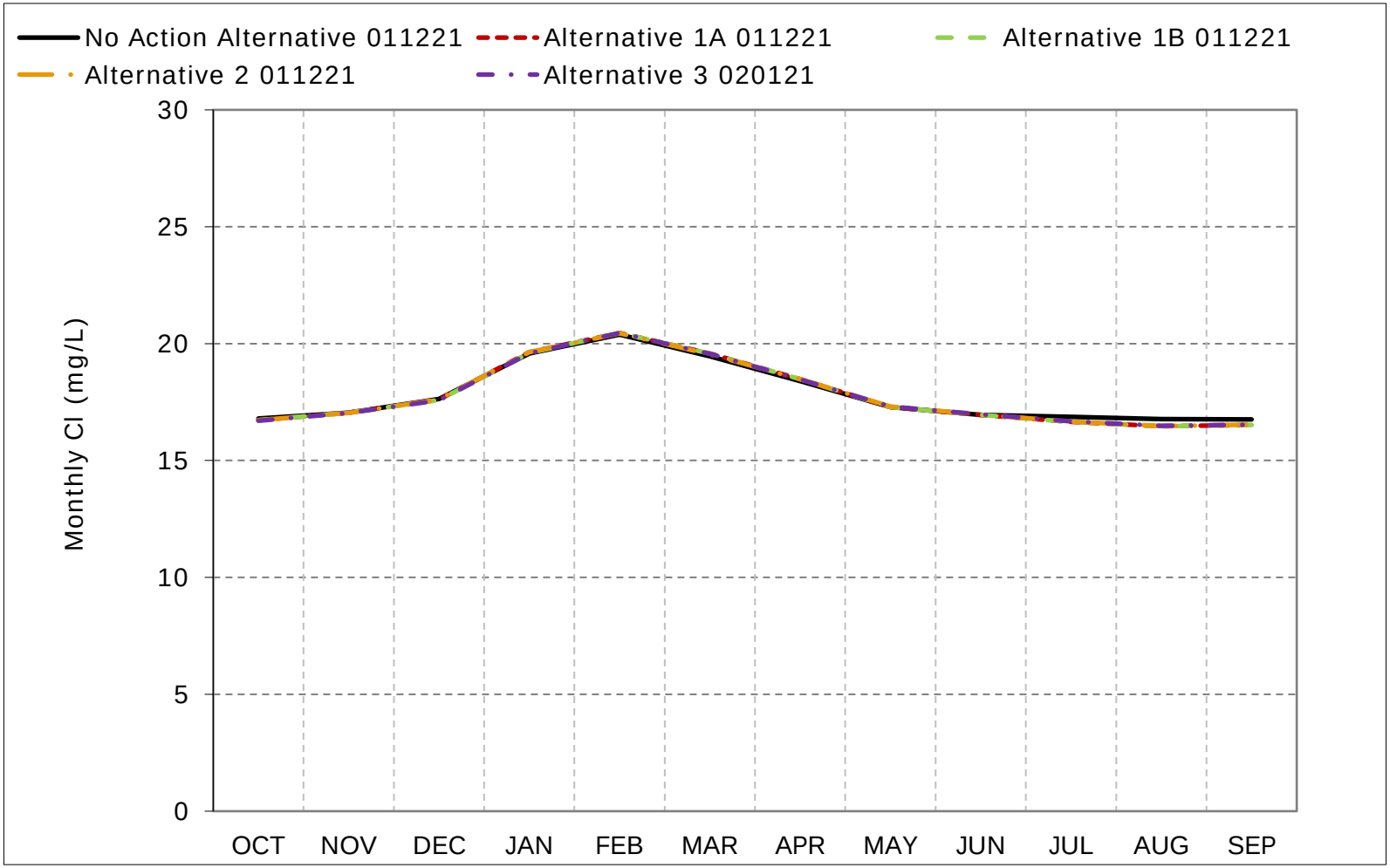


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-4. North Bay Aqueduct, Below Normal Year Average Cl

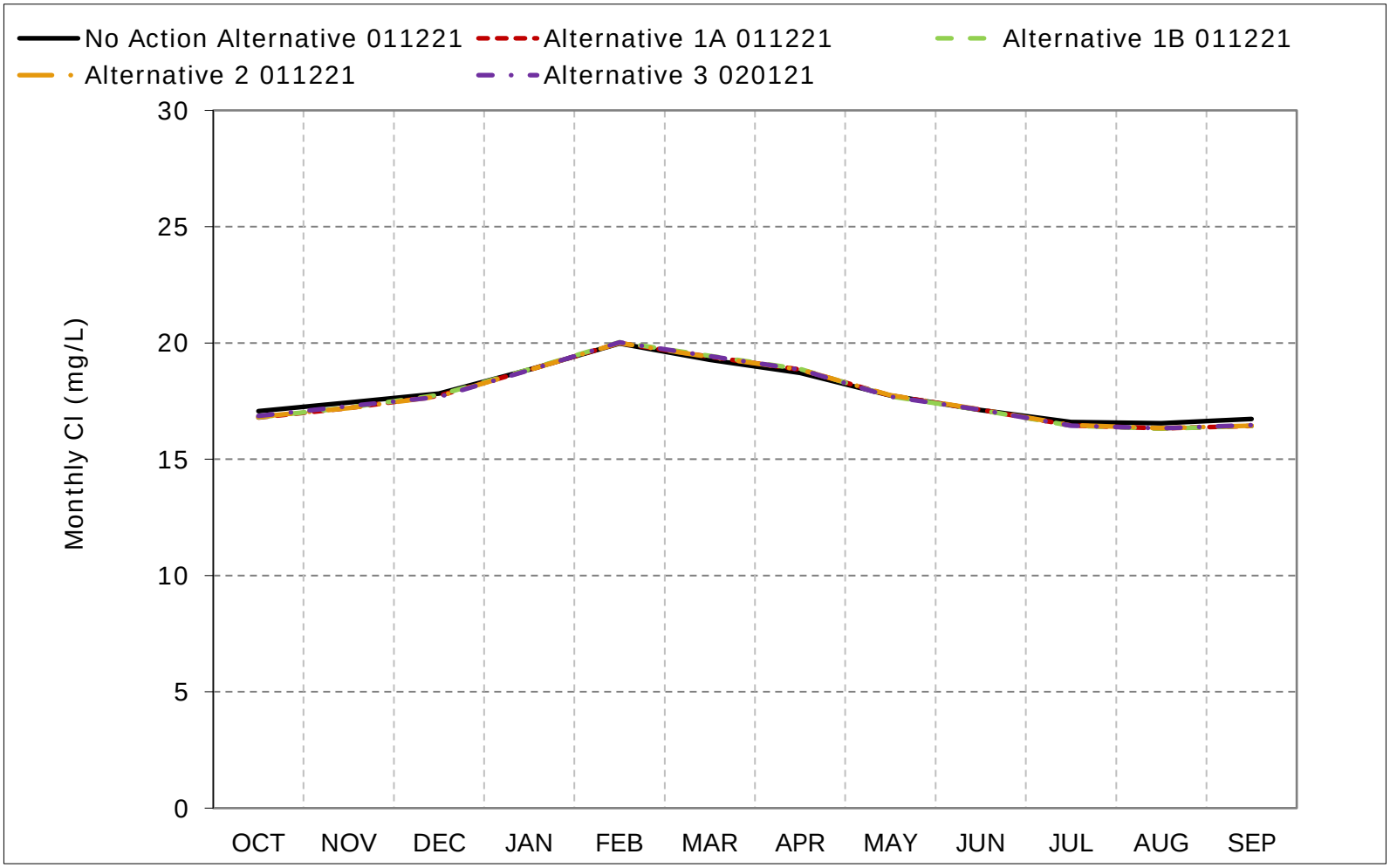


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-5. North Bay Aqueduct, Dry Year Average Cl

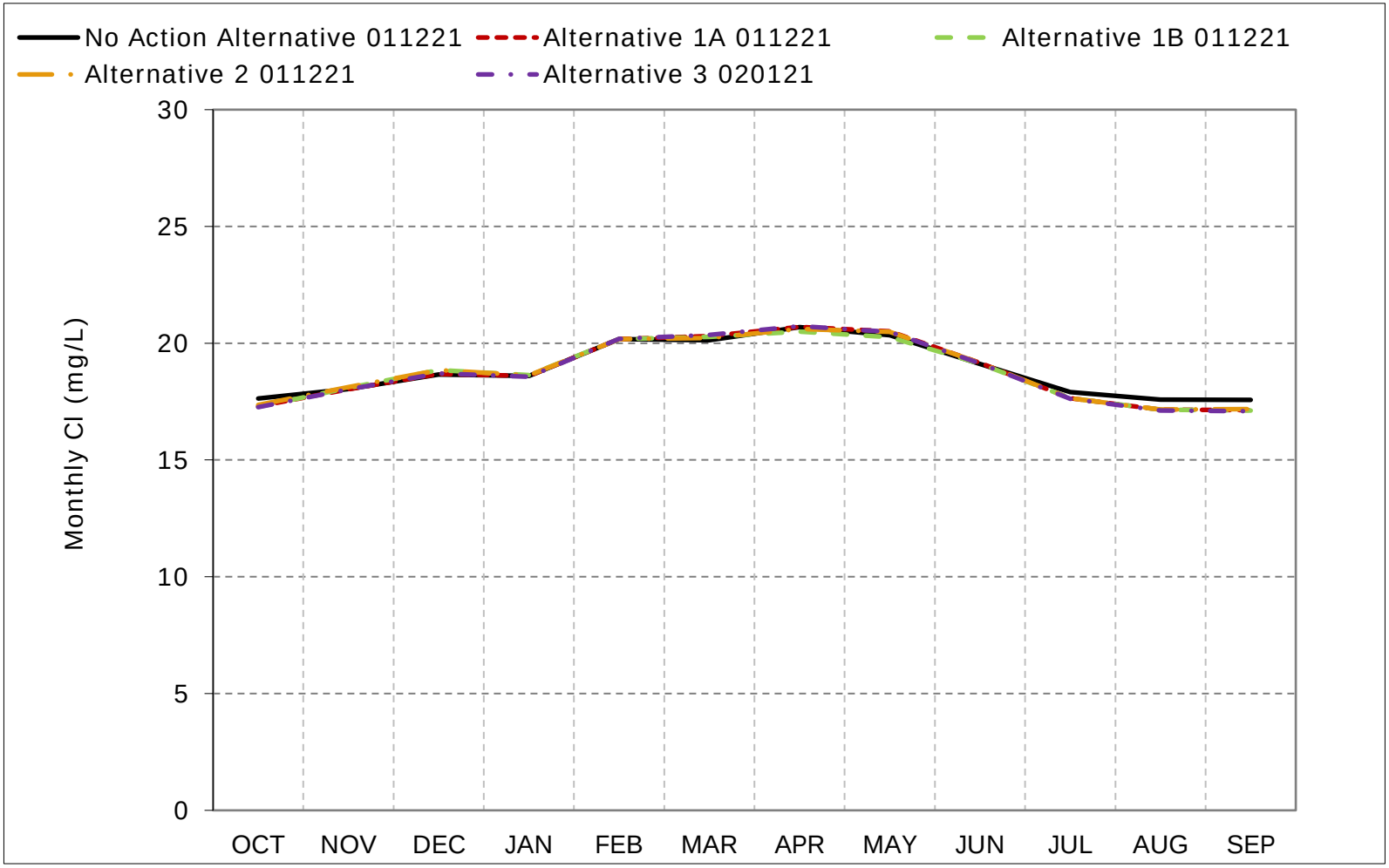


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-6. North Bay Aqueduct, Critical Year Average Cl

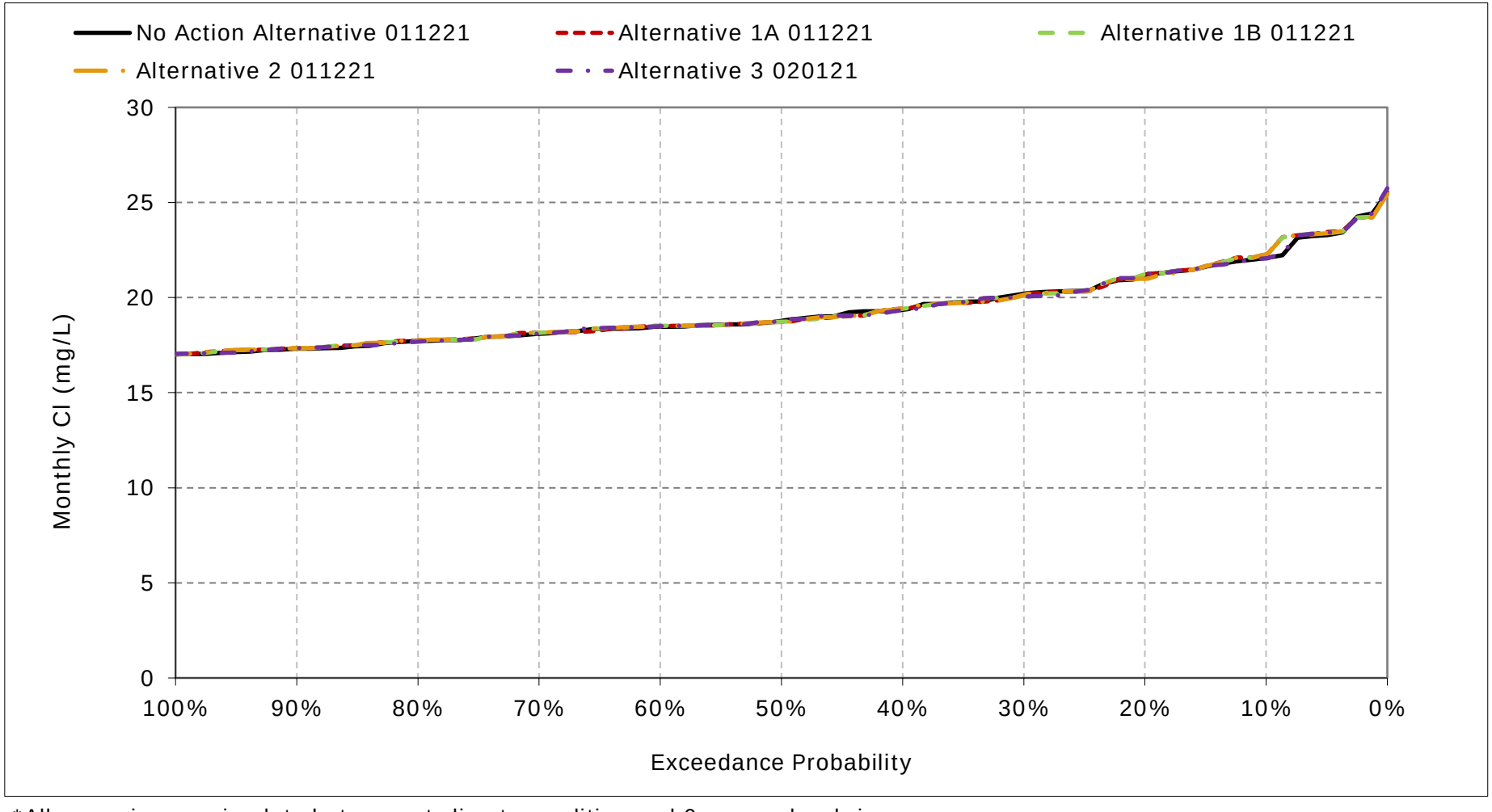


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*These results are displayed with calendar year - year type sorting.

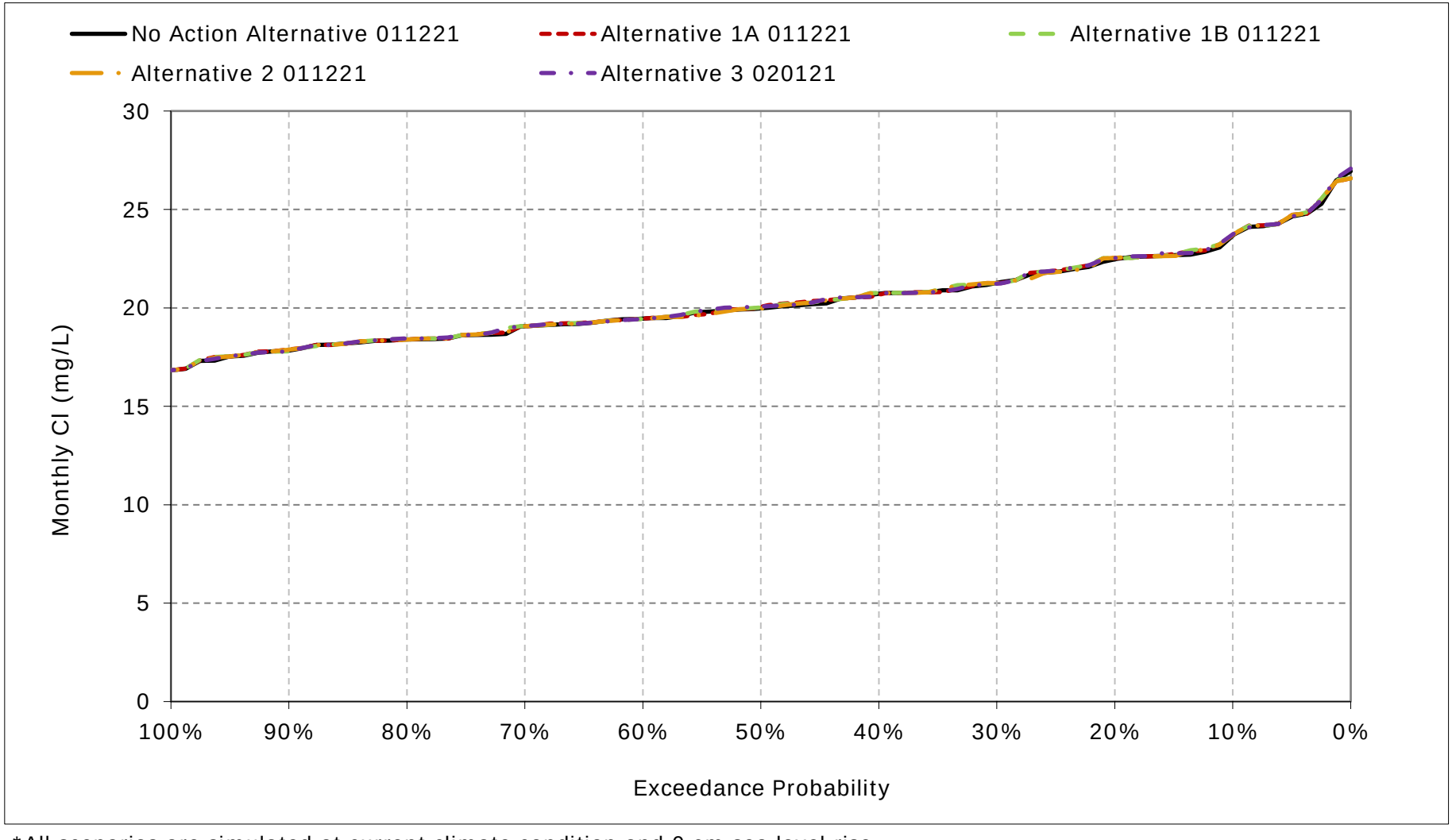
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-7. North Bay Aqueduct Chloride, January Cl



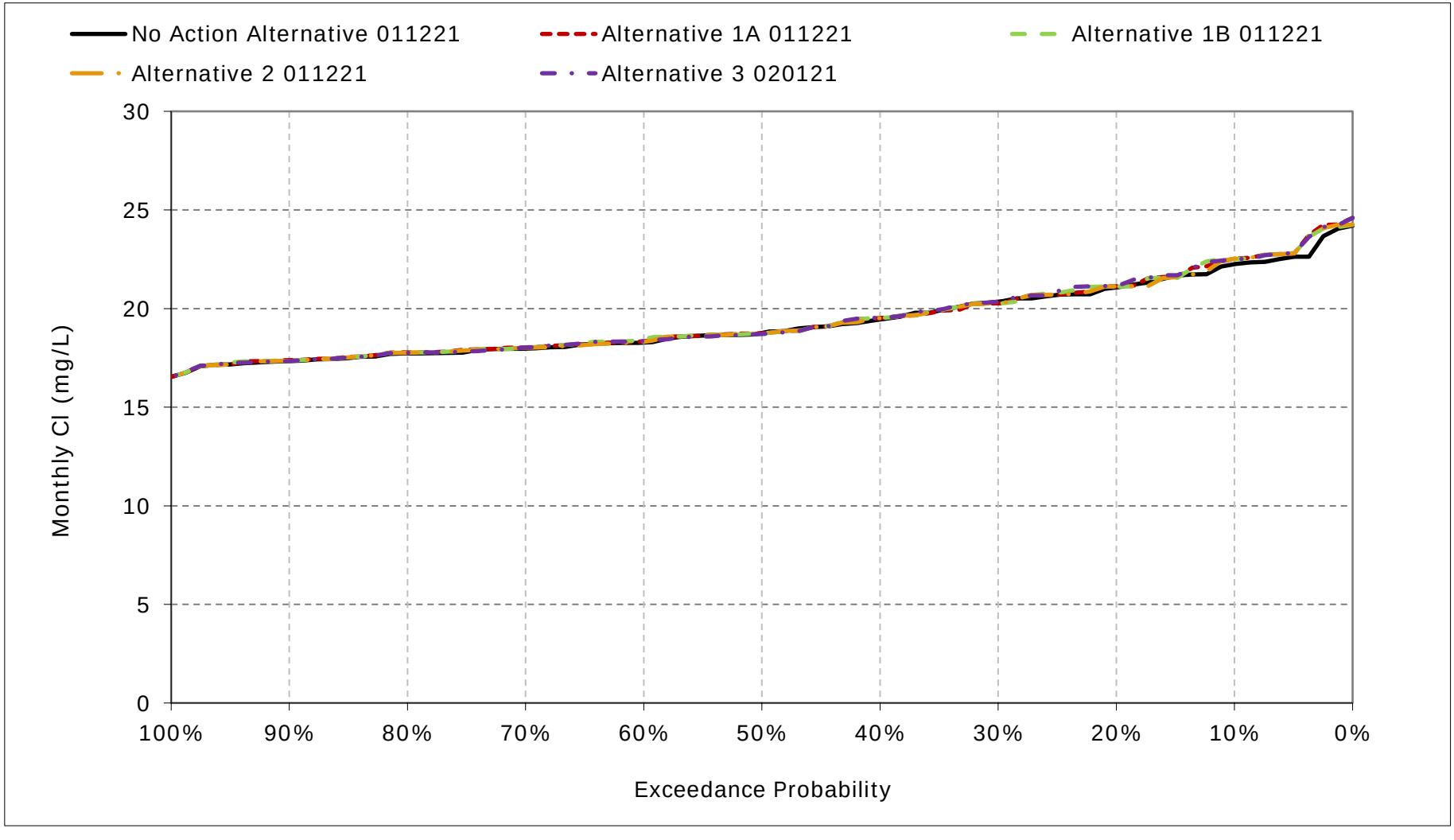
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-8. North Bay Aqueduct Chloride, February Cl



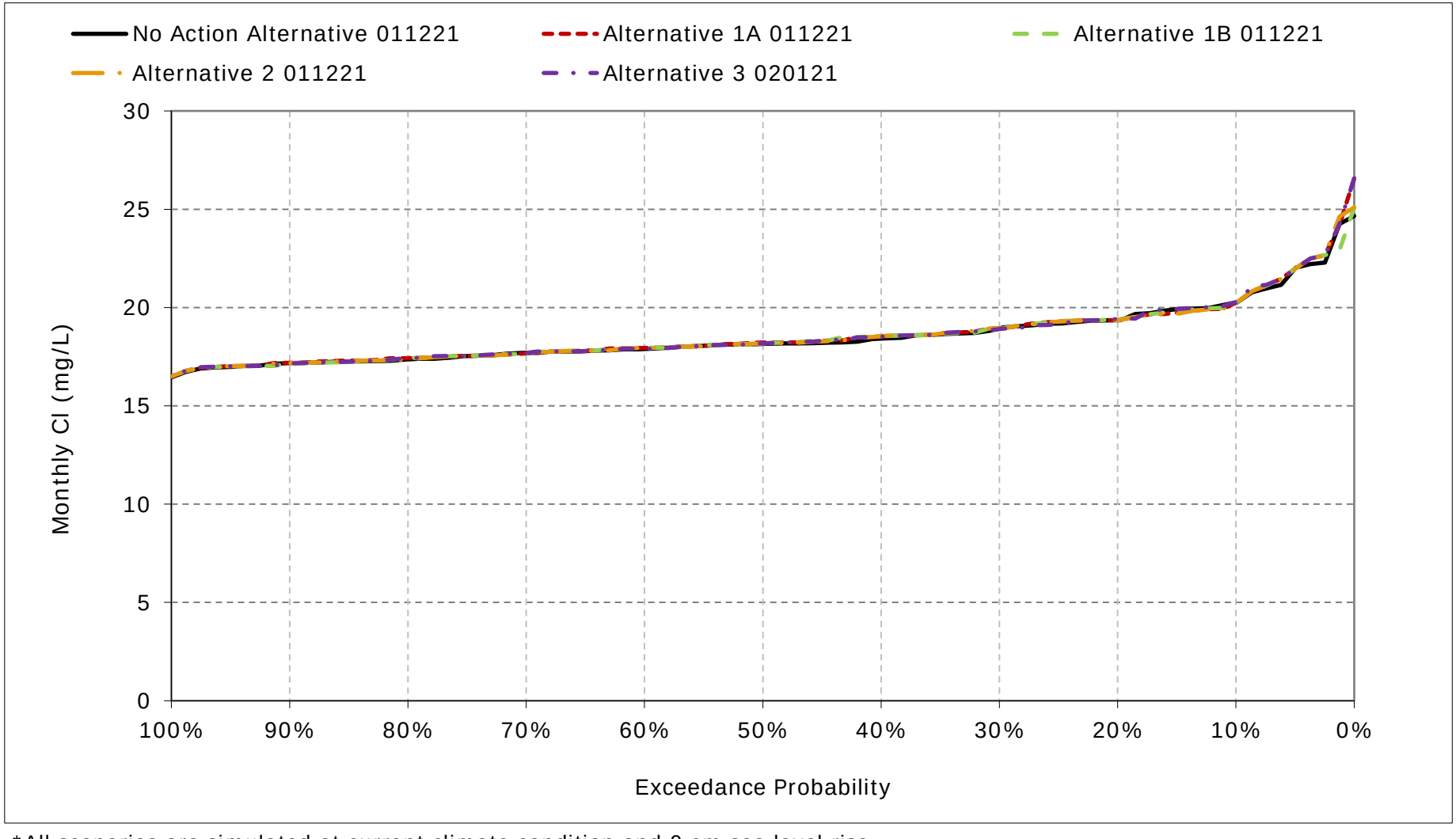
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-9. North Bay Aqueduct Chloride, March Cl



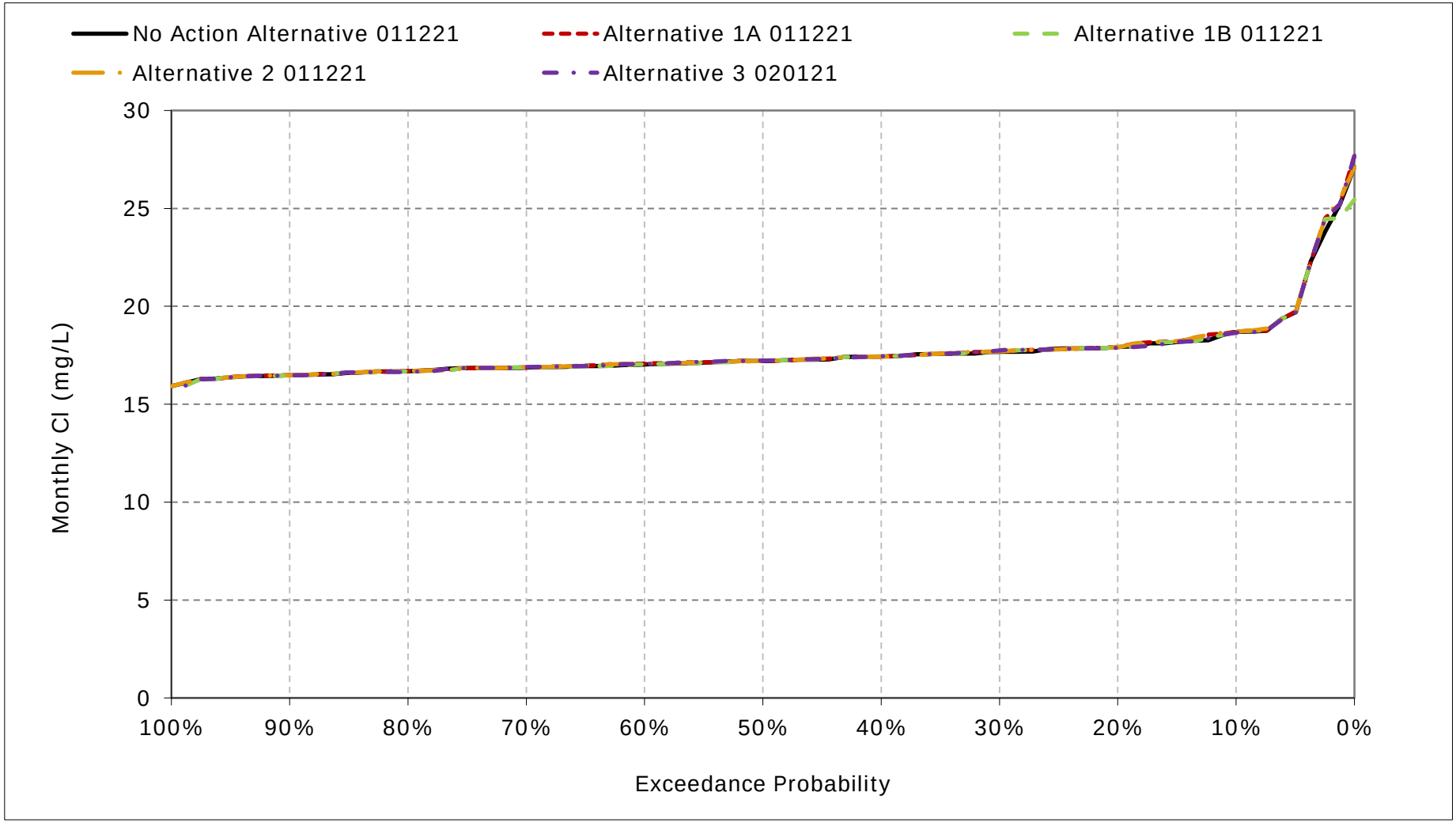
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-10. North Bay Aqueduct Chloride, April Cl



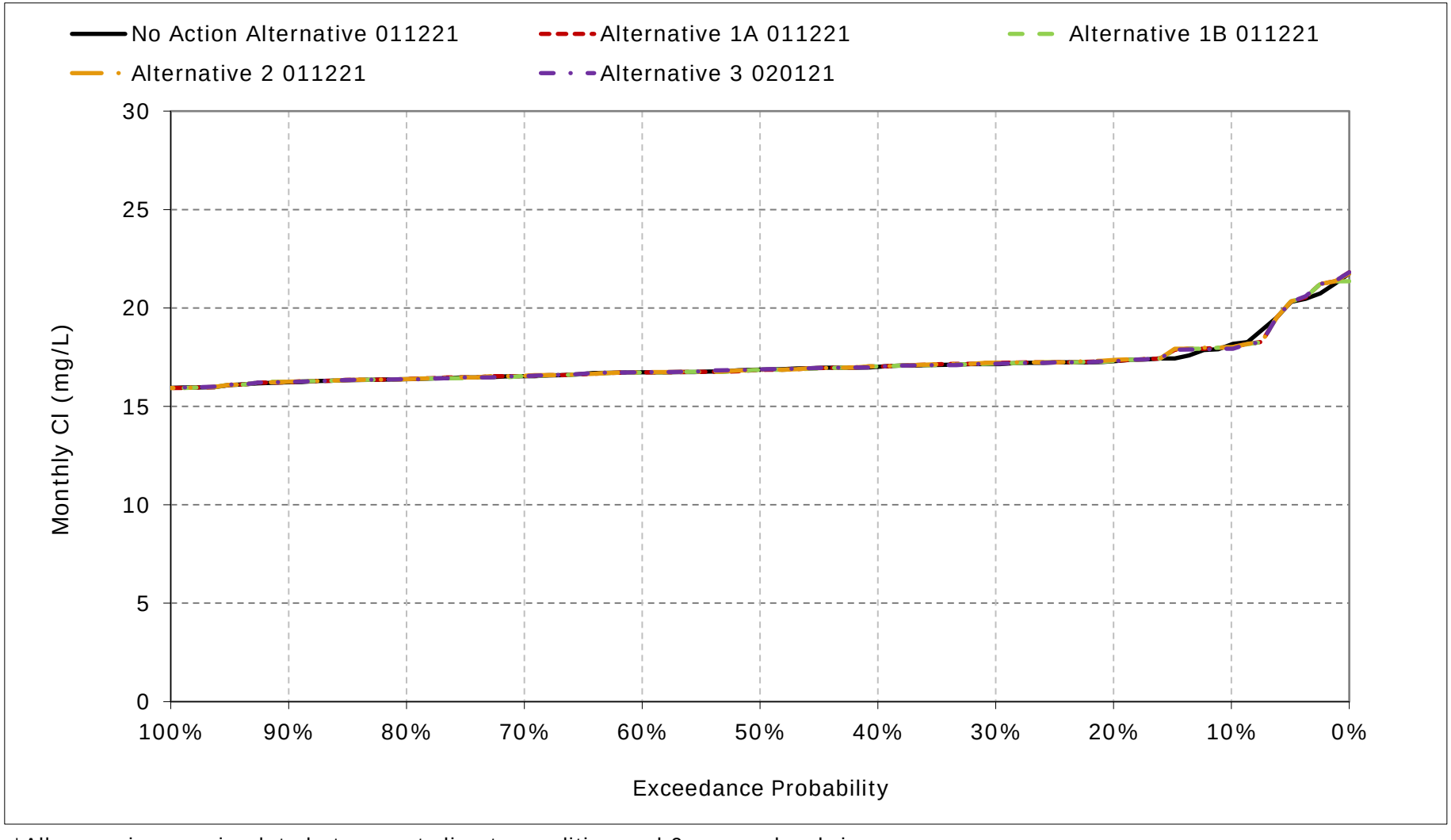
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-11. North Bay Aqueduct Chloride, May Cl



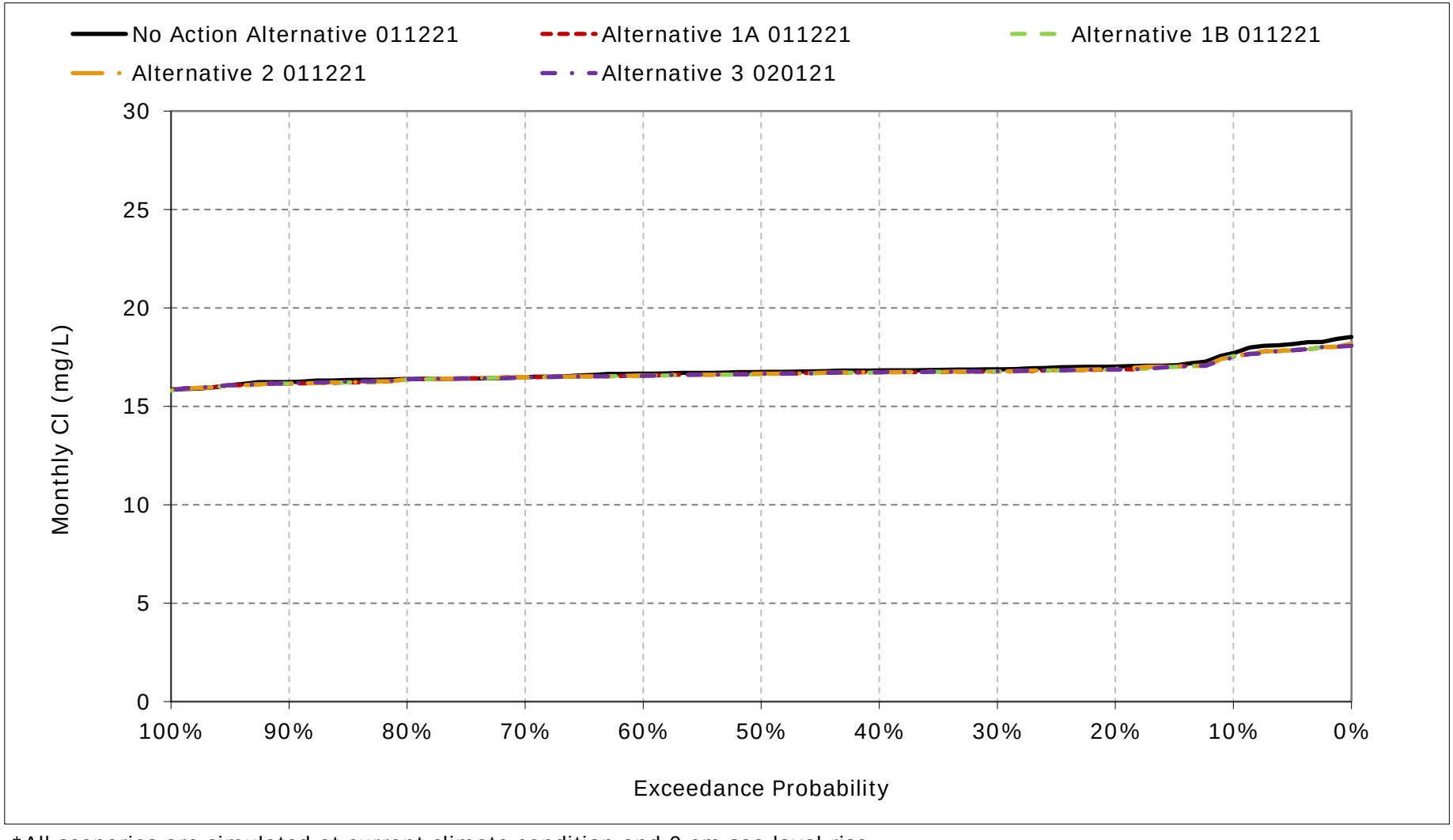
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-12. North Bay Aqueduct Chloride, June Cl



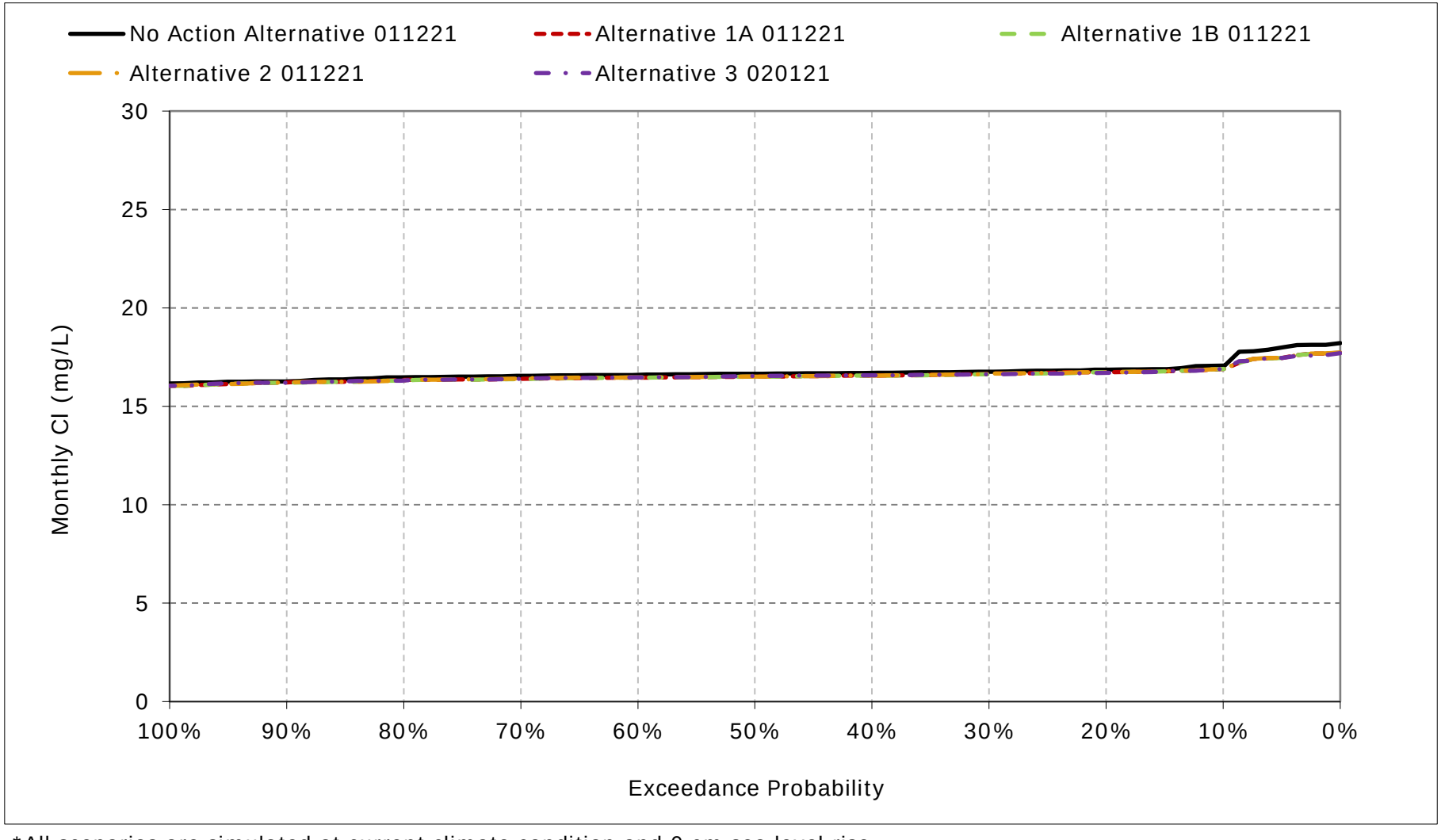
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-13. North Bay Aqueduct Chloride, July Cl



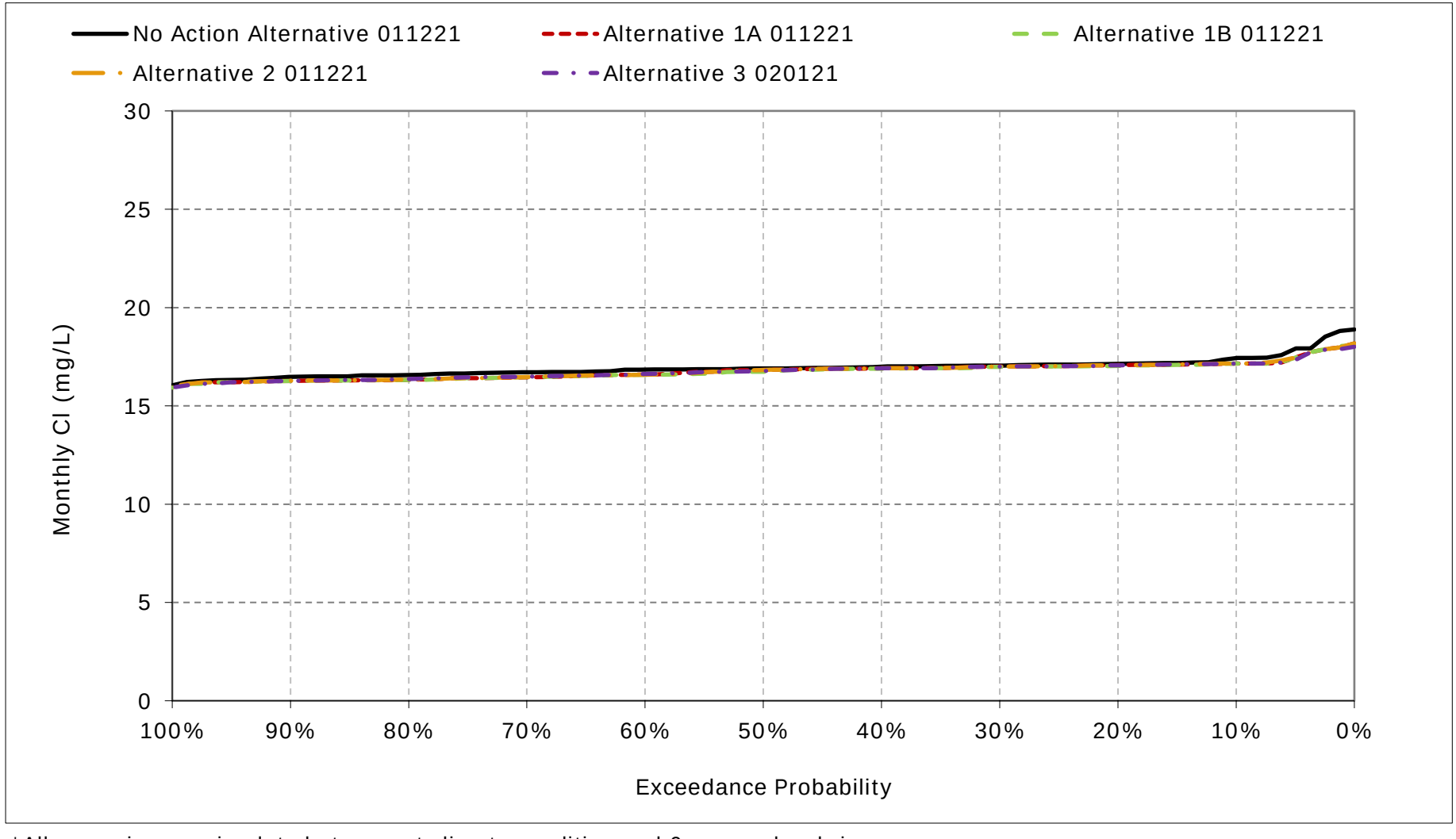
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-14. North Bay Aqueduct Chloride, August Cl



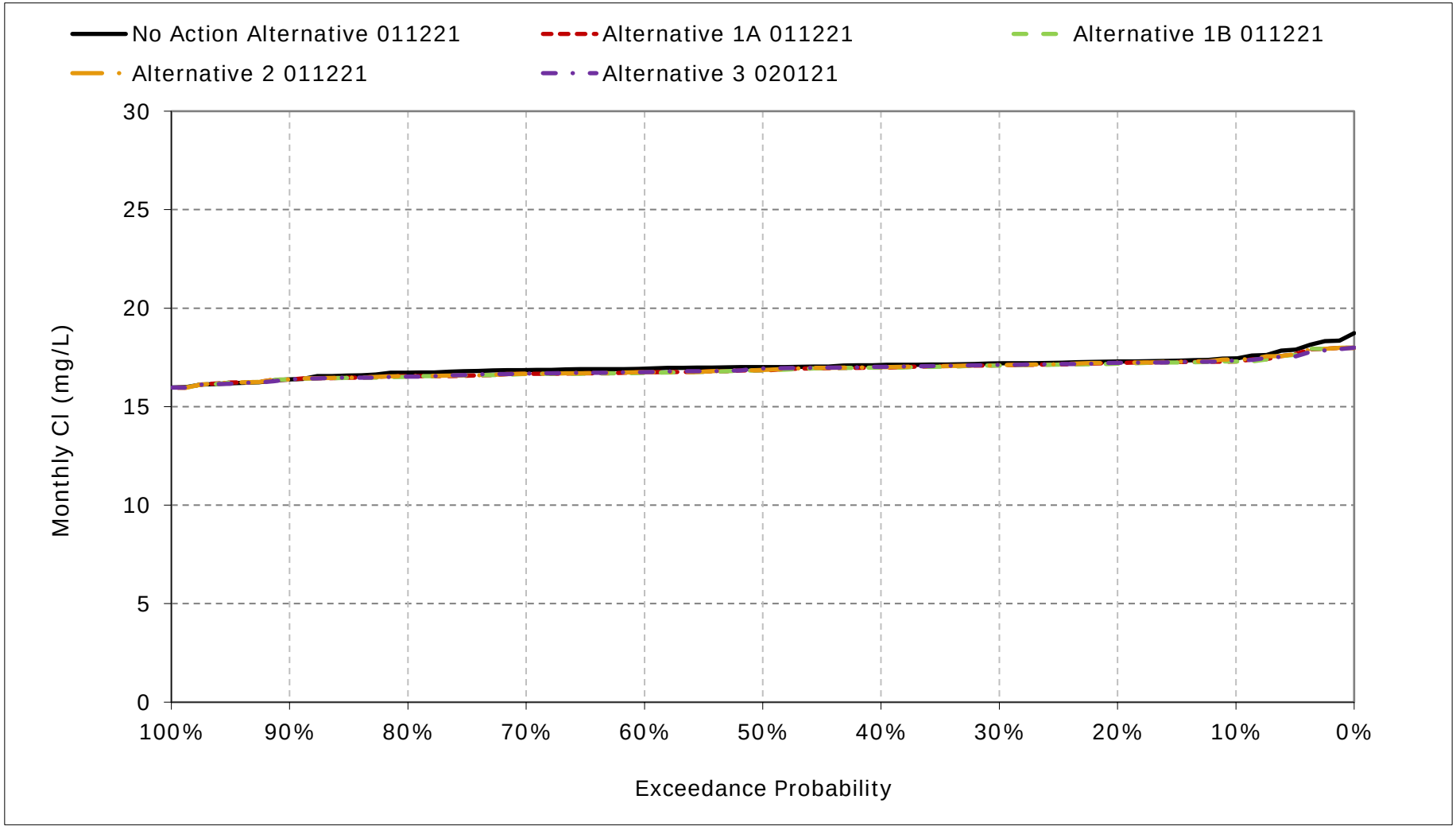
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-15. North Bay Aqueduct Chloride, September Cl



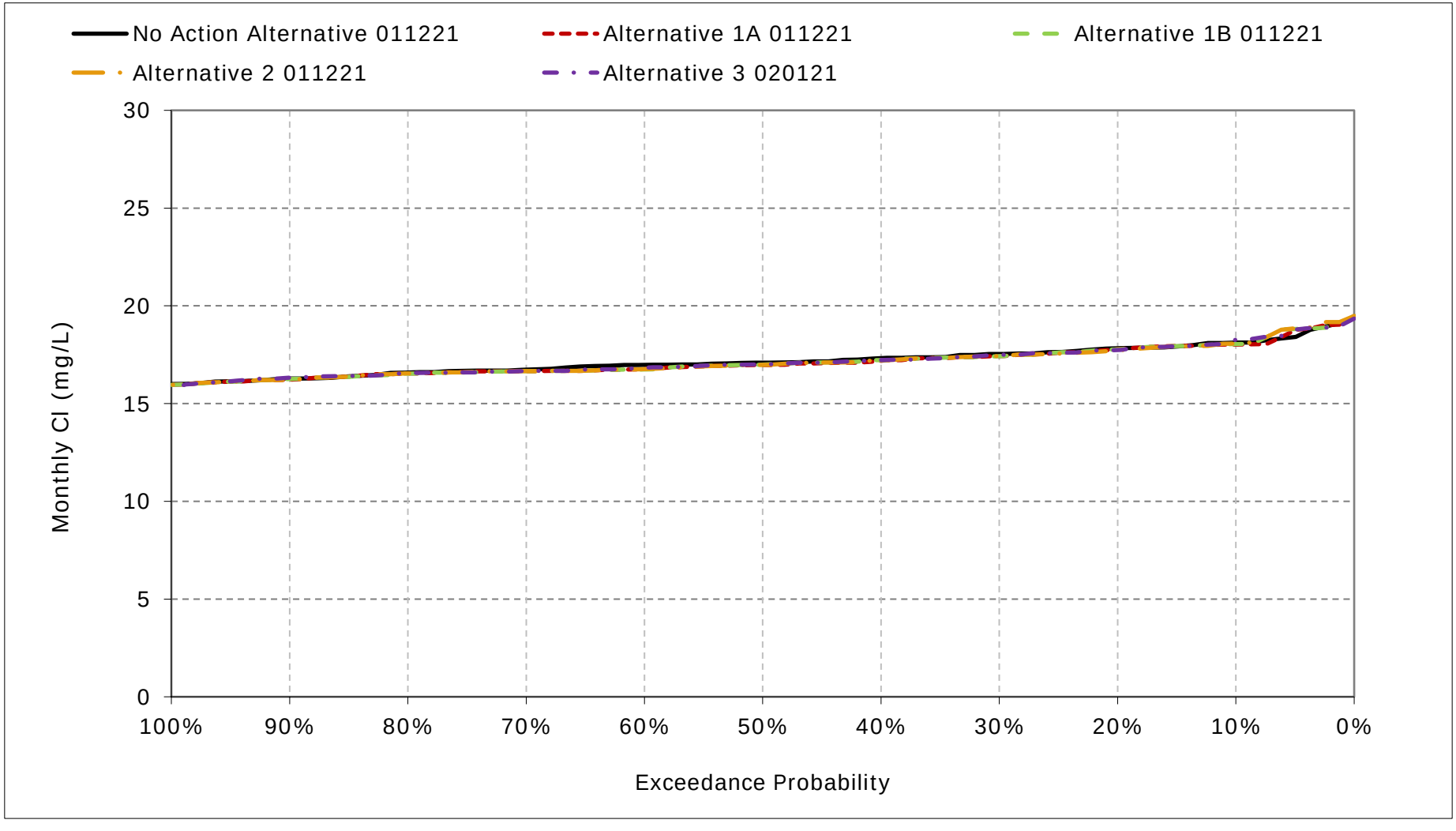
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-16. North Bay Aqueduct Chloride, October Cl



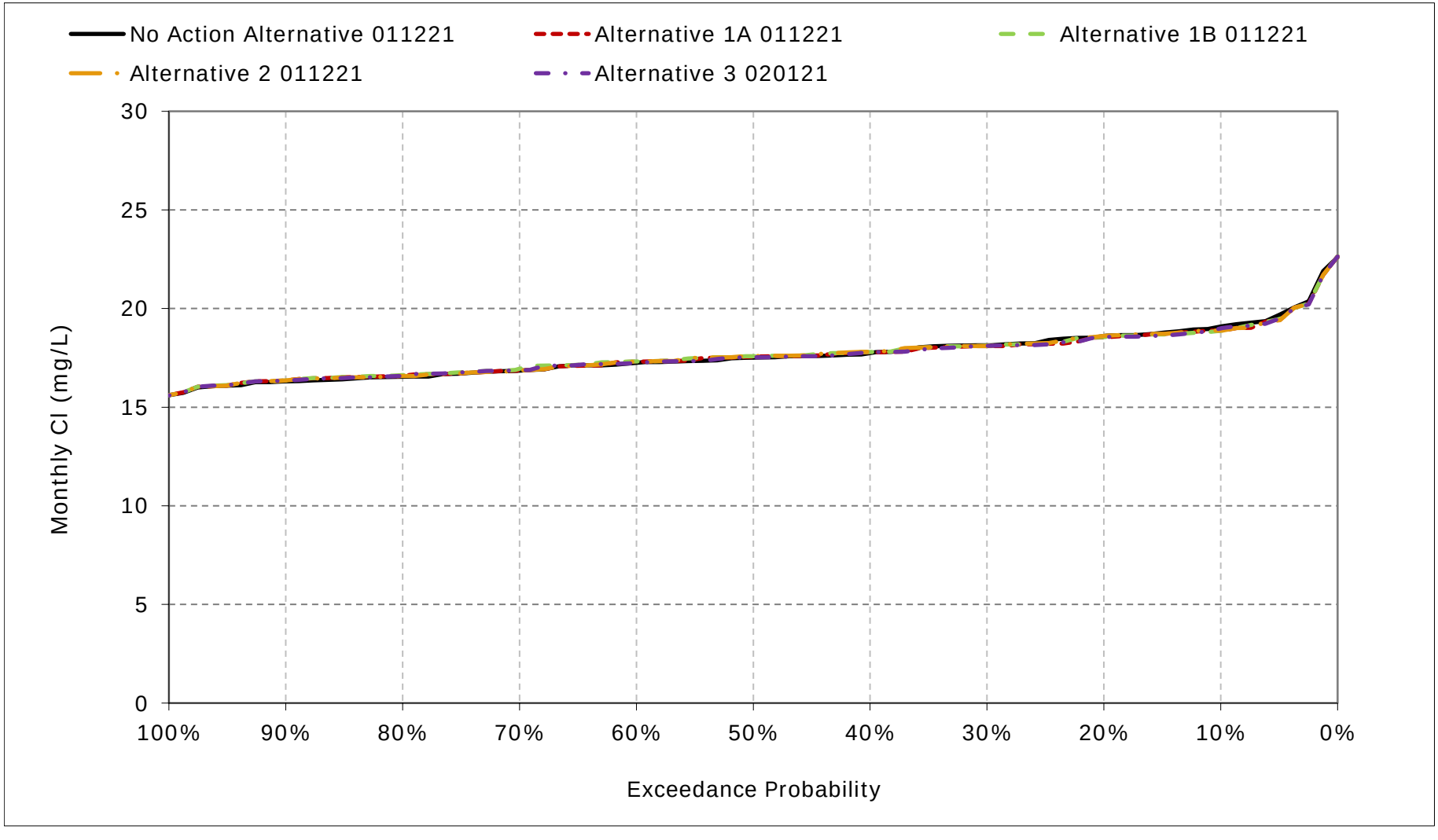
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-17. North Bay Aqueduct Chloride, November Cl



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B2-5-18. North Bay Aqueduct Chloride, December Cl



*All scenarios are simulated at current climate condition and 0 cm sea level rise.