

## Appendix C – Modeling

### Attachment 3-1 – Storage and Elevation Results (CalSim II)

***NOTE: Attachment 3-1 is a new attachment that has been added to the DEIR since initial publication, as part of the FEIR process. The additional attachment is not shown in underline for ease of reading.***

The following results of the CalSim II model are included for reservoir storage conditions for the following alternatives:

- Existing Conditions
- Refined Alternative 2b

<b>Title</b>	<b>Model Parameter</b>	<b>Table Numbers</b>	<b>Figure Numbers</b>
San Luis Reservoir Storage	S11+S12	1a-1	1a-1 to 1a-18
San Luis Reservoir Elevation	Post-processed	1b-1	1b-1 to 1b-18
SWP San Luis Reservoir Storage	S12	1c-1	1c-1 to 1c-18

Report formats

- Monthly tables comparing two scenarios (exceedance values, long-term average, and average by water year type)
- Monthly exceedance charts (all months) including all scenarios

Table 1a-1. San Luis Storage (CVP and SWP), End of Month Storage

Existing												
Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	712	873	1,152	1,609	1,840	2,039	1,780	1,416	1,144	903	631	699
20%	599	734	1,065	1,375	1,637	1,930	1,724	1,284	958	712	515	607
30%	529	654	968	1,274	1,533	1,839	1,630	1,225	840	653	457	500
40%	485	618	902	1,198	1,492	1,712	1,496	1,148	810	597	398	449
50%	443	543	850	1,103	1,402	1,644	1,424	1,108	774	498	349	411
60%	362	463	762	1,022	1,291	1,507	1,347	1,021	708	469	322	353
70%	314	422	684	959	1,222	1,378	1,221	950	630	438	284	304
80%	255	393	574	884	1,124	1,306	1,173	860	567	398	215	240
90%	213	301	464	776	1,041	1,266	1,103	788	469	309	188	187
Long Term												
Full Simulation Period <sup>a</sup>	473	591	844	1,138	1,407	1,617	1,435	1,103	796	581	408	446
Water Year Types <sup>b,c</sup>												
Wet (32%)	546	675	896	1,223	1,521	1,790	1,576	1,207	909	707	564	639
Above Normal (15%)	479	599	912	1,200	1,471	1,682	1,443	1,034	689	482	390	489
Below Normal (17%)	416	542	803	1,076	1,367	1,587	1,378	1,013	664	523	409	418
Dry (22%)	448	572	844	1,130	1,359	1,546	1,400	1,102	801	586	280	293
Critical (15%)	410	489	711	976	1,212	1,316	1,244	1,057	807	469	276	246
Alternative 2B												
Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	917	1,195	1,479	1,853	2,037	2,039	1,919	1,702	1,387	1,049	785	818
20%	822	1,072	1,357	1,628	1,846	2,036	1,864	1,587	1,148	899	646	703
30%	730	1,006	1,249	1,492	1,723	1,907	1,781	1,490	1,061	798	585	664
40%	646	870	1,183	1,423	1,665	1,782	1,703	1,449	1,015	726	499	595
50%	581	747	1,006	1,242	1,524	1,688	1,593	1,312	936	667	458	489
60%	384	522	781	1,057	1,349	1,597	1,469	1,265	875	553	361	349
70%	288	424	554	896	1,182	1,319	1,352	1,096	702	452	229	252
80%	216	323	482	818	1,061	1,209	1,124	894	562	380	195	206
90%	188	233	356	651	896	1,002	918	729	485	278	162	181
Long Term												
Full Simulation Period <sup>a</sup>	561	742	958	1,228	1,468	1,600	1,516	1,285	942	692	475	506
Water Year Types <sup>b,c</sup>												
Wet (32%)	682	908	1,119	1,420	1,685	1,860	1,813	1,592	1,256	1,001	733	776
Above Normal (15%)	575	760	1,006	1,279	1,509	1,659	1,573	1,334	959	720	517	619
Below Normal (17%)	520	704	927	1,178	1,459	1,576	1,485	1,246	877	679	540	539
Dry (22%)	531	677	918	1,186	1,379	1,471	1,350	1,097	757	479	199	224
Critical (15%)	378	505	654	884	1,101	1,199	1,100	902	602	332	209	194
Alternative 2B minus Existing												
Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	206	322	327	244	197	0	139	286	243	146	154	119
20%	223	338	292	253	209	106	140	303	190	187	131	96
30%	202	351	281	219	190	68	152	265	221	145	128	164
40%	161	252	281	225	173	70	207	301	205	130	101	146
50%	139	204	156	139	122	44	169	205	162	169	109	78
60%	22	59	19	35	59	90	122	245	168	84	39	-4
70%	-27	2	-131	-64	-40	-59	131	146	72	15	-55	-52
80%	-39	-70	-91	-66	-62	-97	-49	34	-5	-18	-20	-34
90%	-25	-68	-108	-125	-145	-264	-185	-59	16	-30	-26	-7
Long Term												
Full Simulation Period <sup>a</sup>	88	150	114	90	61	-17	81	182	146	111	67	60
Water Year Types <sup>b,c</sup>												
Wet (32%)	135	233	223	198	165	71	238	385	347	293	169	137
Above Normal (15%)	96	161	94	79	37	-23	130	300	270	238	127	130
Below Normal (17%)	104	161	124	102	92	-12	107	233	213	156	130	120
Dry (22%)	83	105	74	55	19	-75	-49	-5	-44	-107	-81	-70
Critical (15%)	-31	16	-57	-92	-111	-116	-144	-156	-205	-137	-67	-53

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 water year - year type sorting.

Figure 1a-1. San Luis Storage (CVP and SWP), End of October Storage

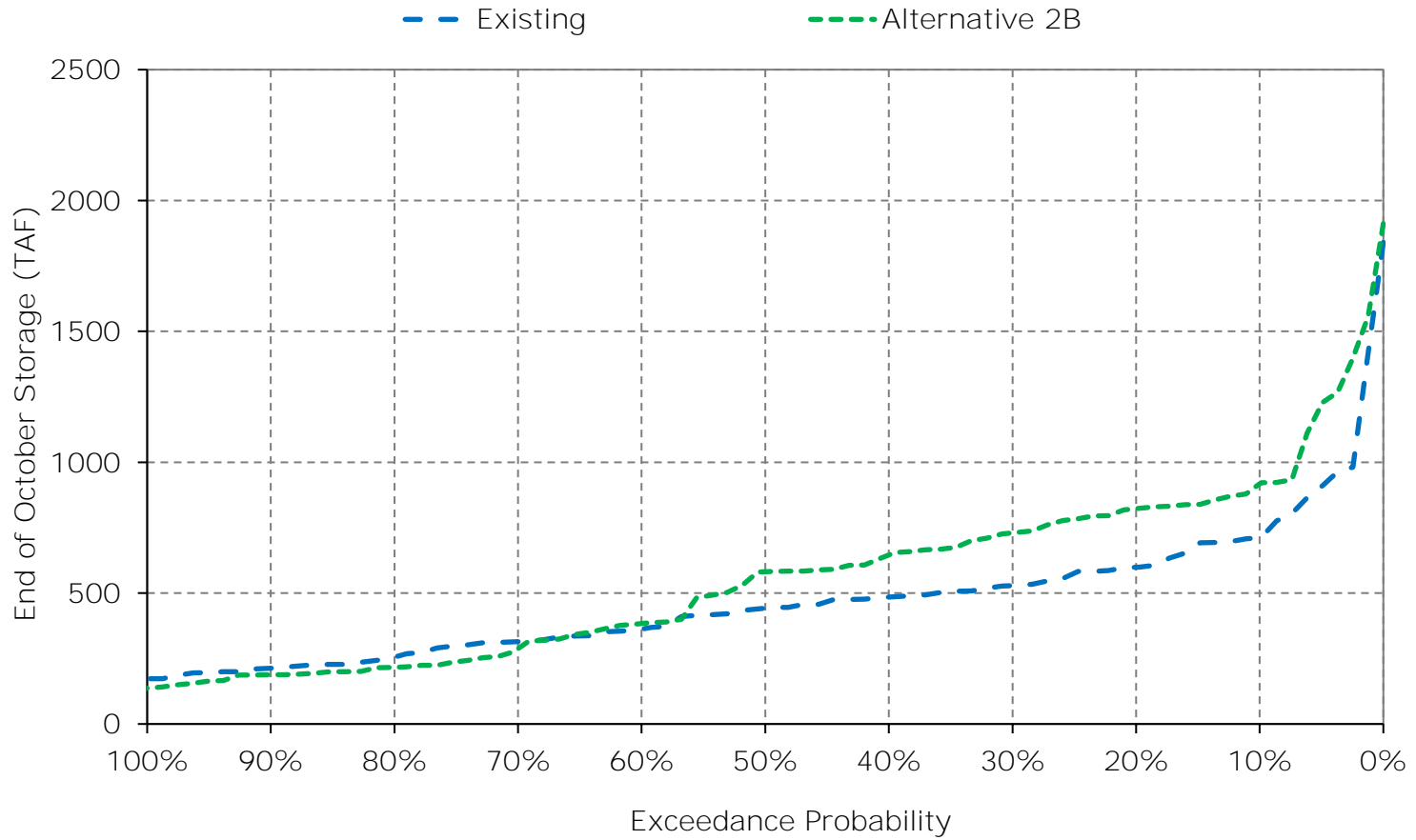


Figure 1a-2. San Luis Storage (CVP and SWP), End of November Storage

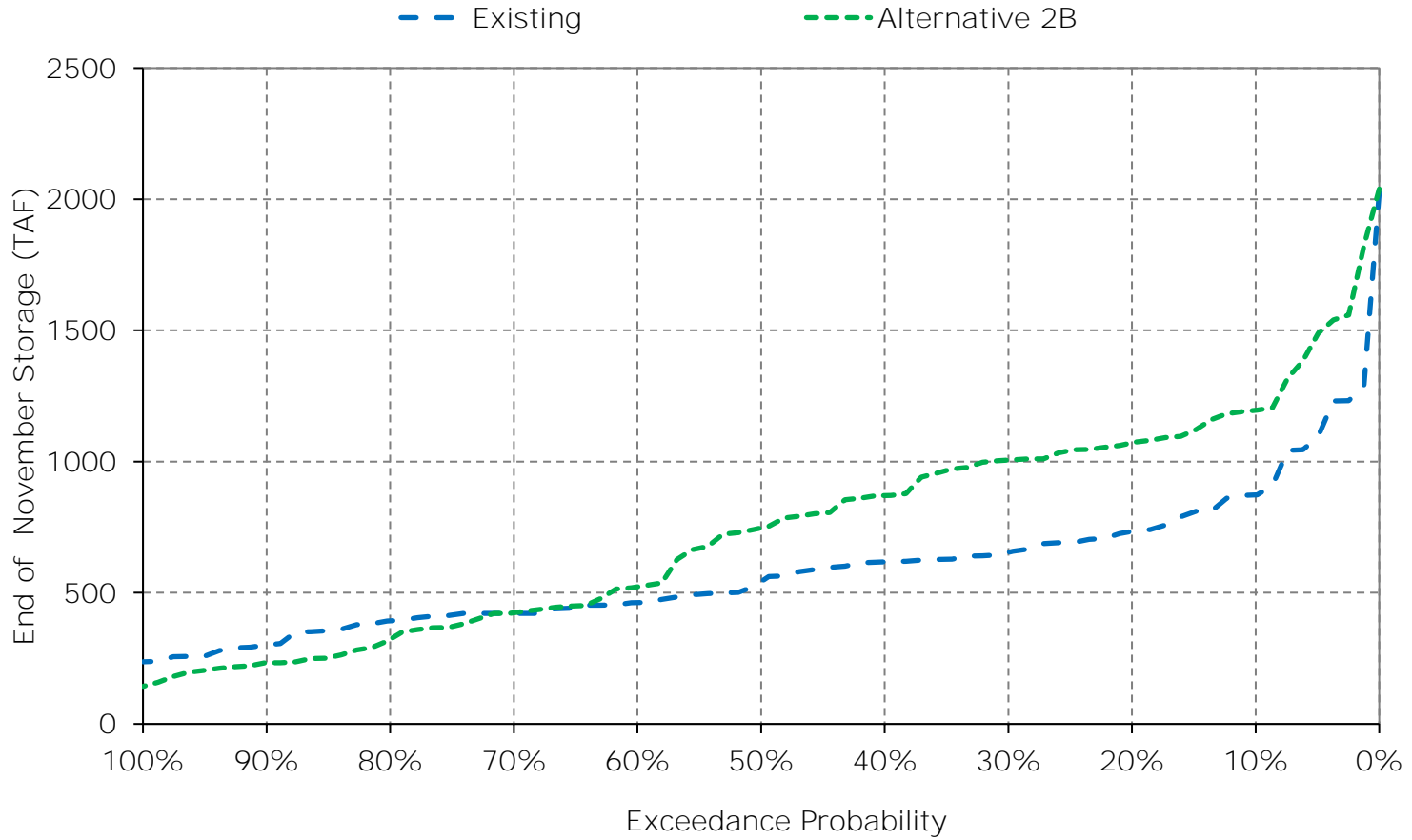


Figure 1a-3. San Luis Storage (CVP and SWP), End of December Storage

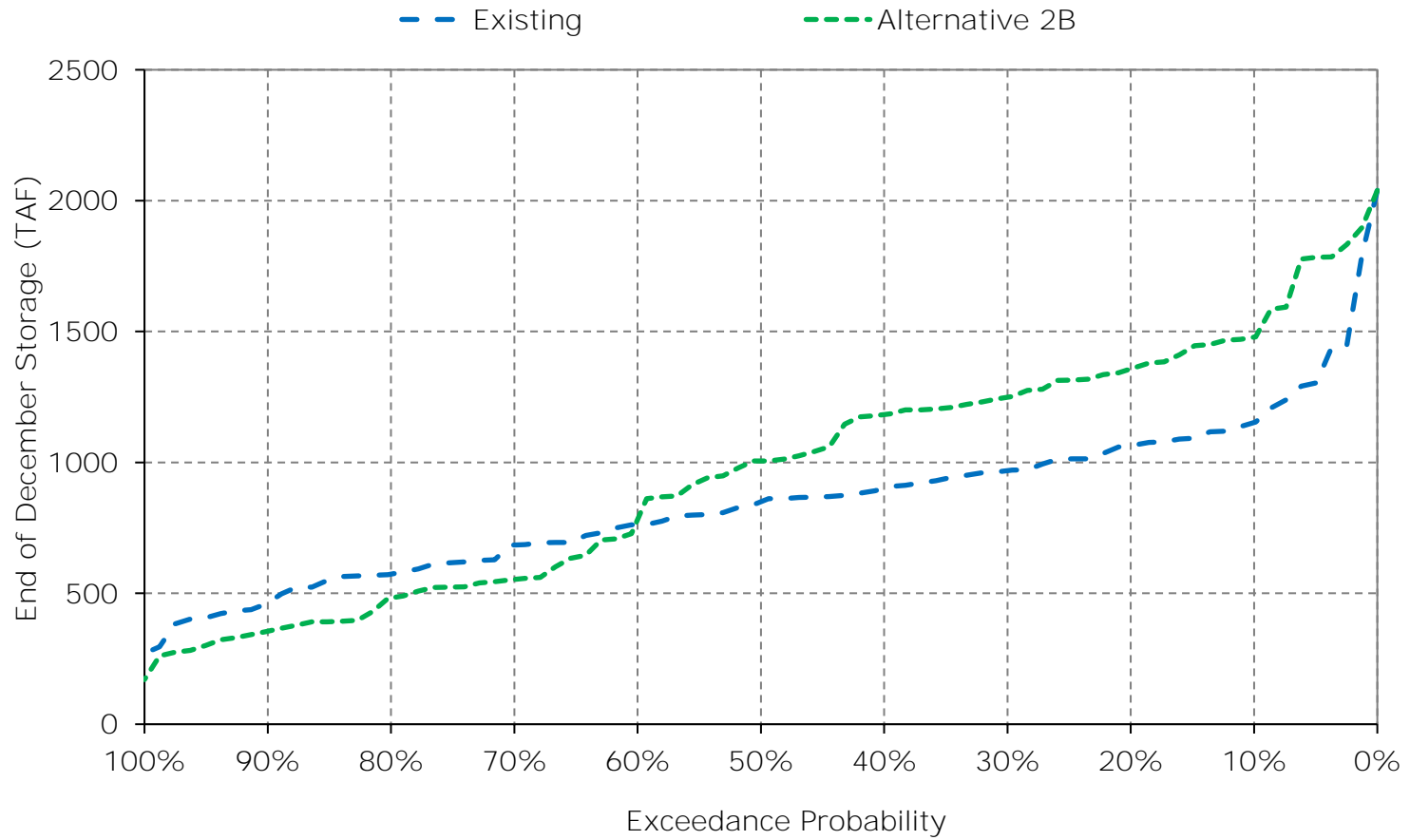


Figure 1a-4. San Luis Storage (CVP and SWP), End of January Storage

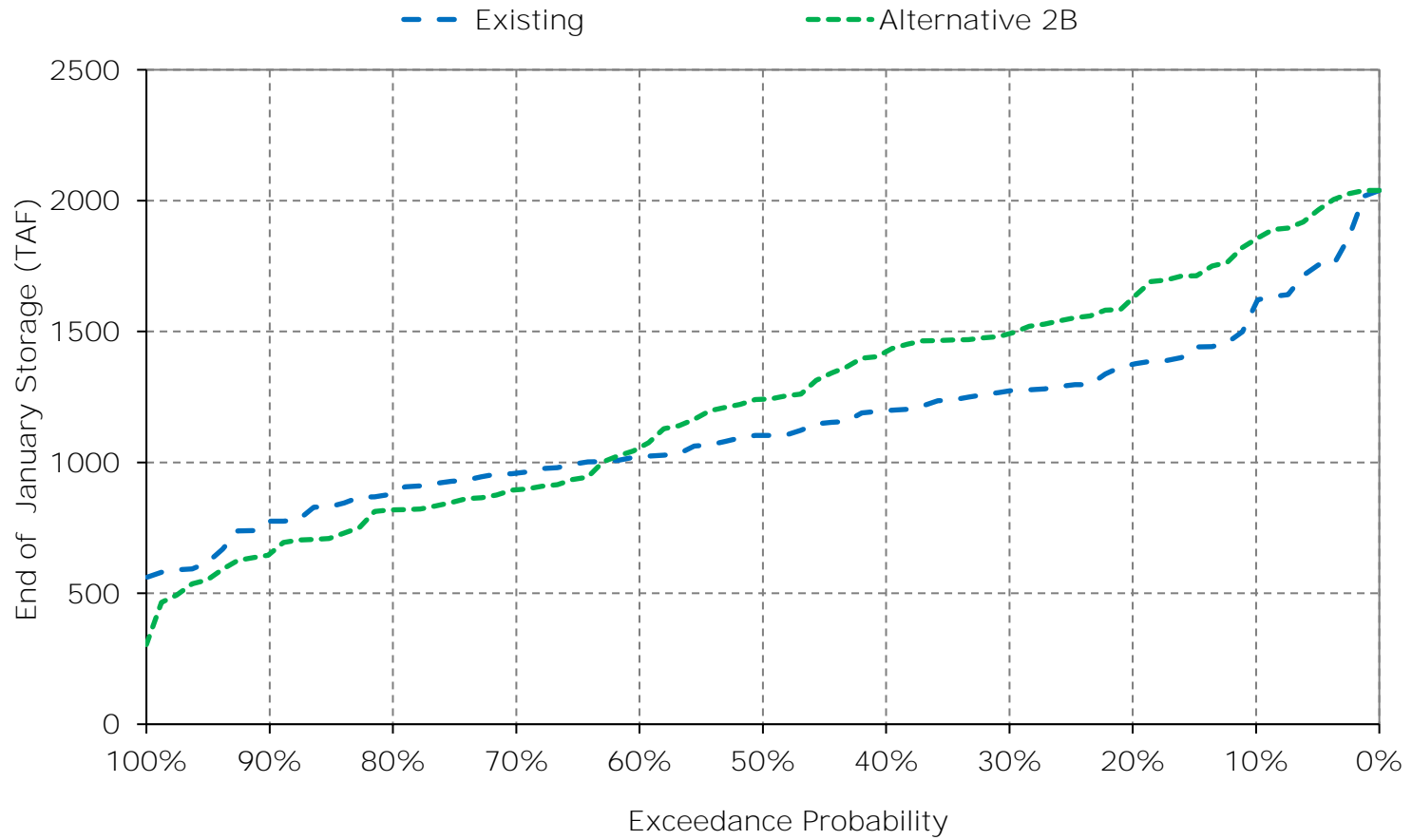


Figure 1a-5. San Luis Storage (CVP and SWP), End of February Storage





Figure 1a-6. San Luis Storage (CVP and SWP), End of March Storage



Figure 1a-7. San Luis Storage (CVP and SWP), End of April Storage



Figure 1a-8. San Luis Storage (CVP and SWP), End of May Storage



Figure 1a-9. San Luis Storage (CVP and SWP), End of June Storage

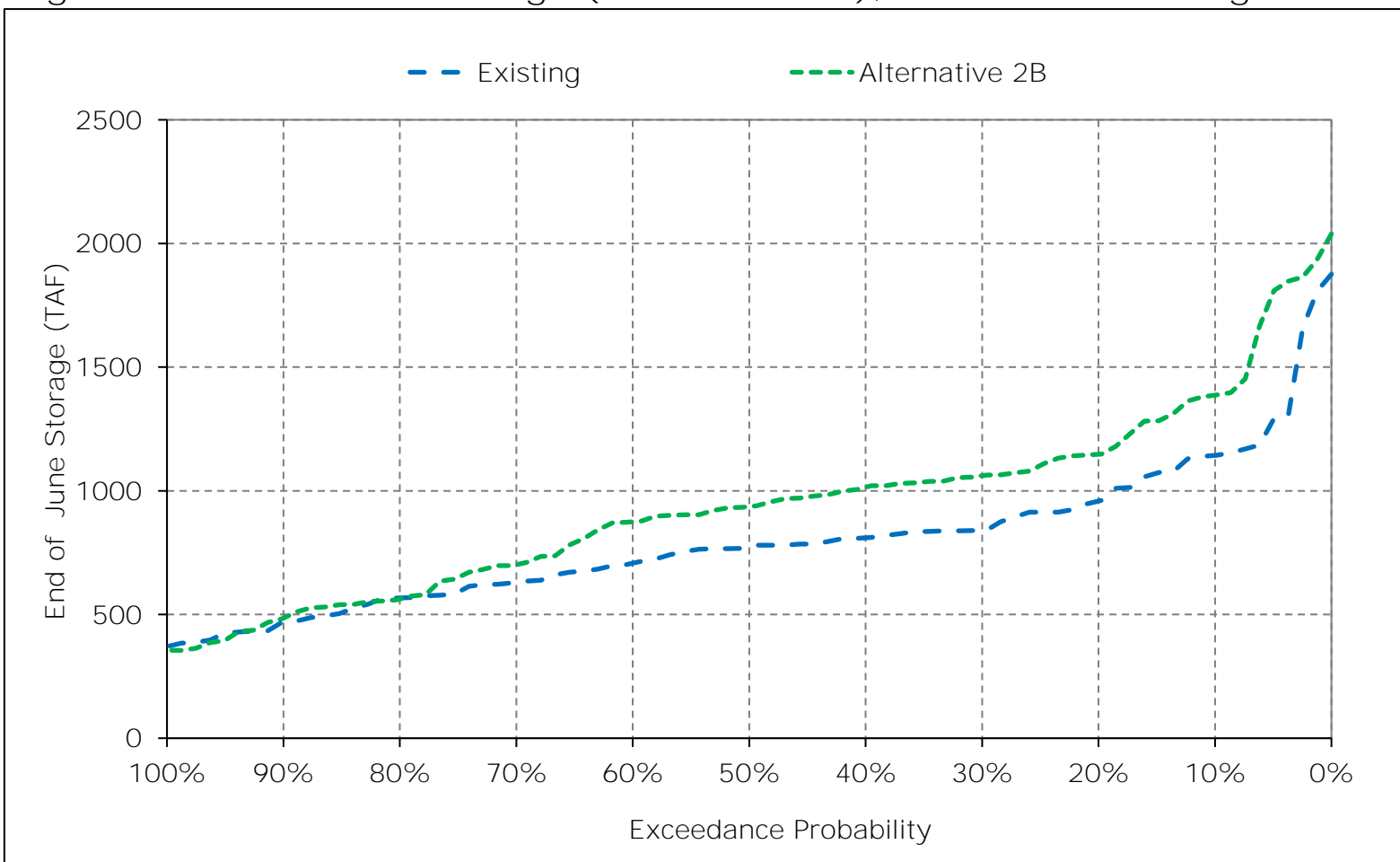


Figure 1a-10. San Luis Storage (CVP and SWP), End of July Storage



Figure 1a-11. San Luis Storage (CVP and SWP), End of August Storage

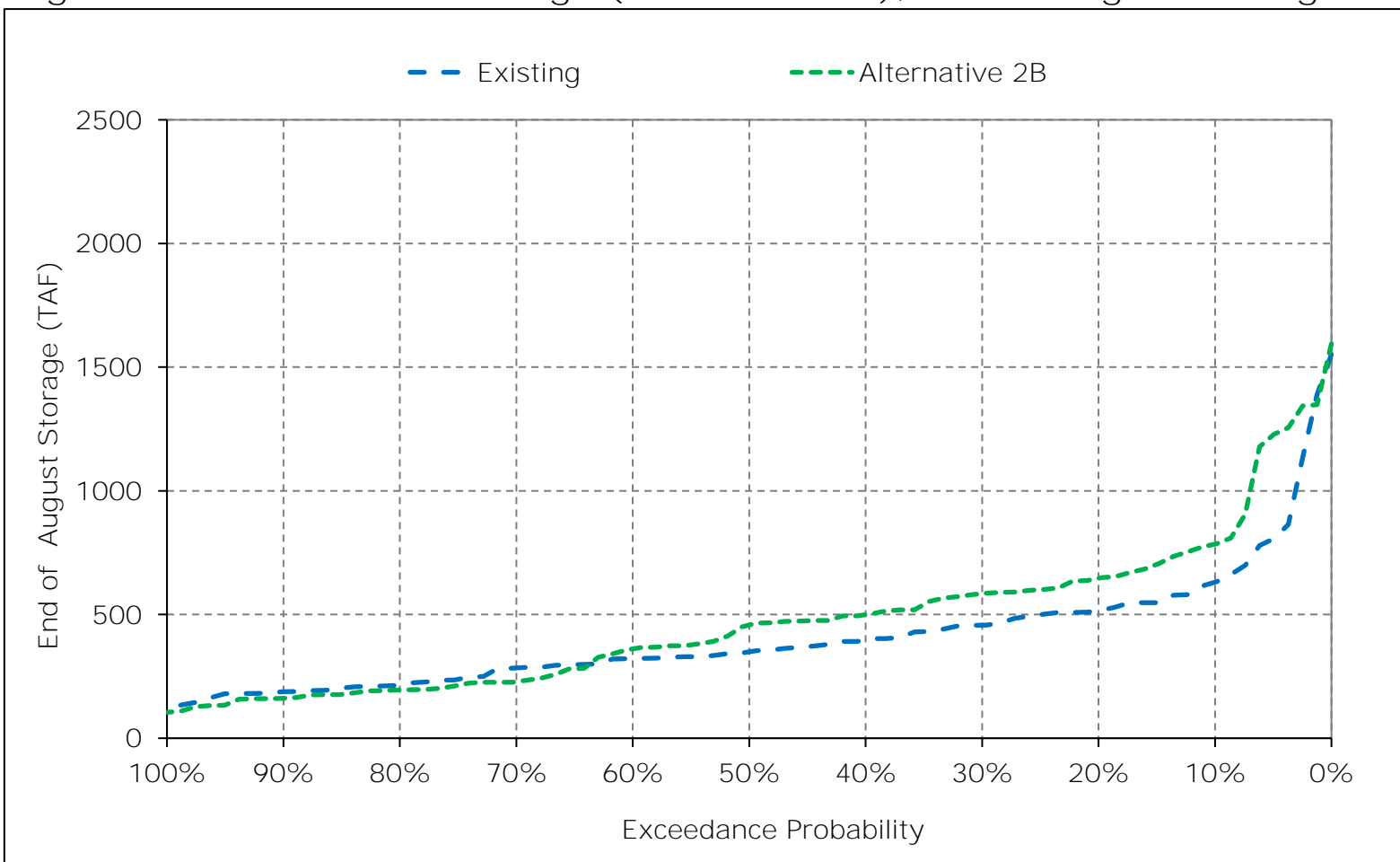


Figure 1a-12. San Luis Storage (CVP and SWP), End of September Storage



Table 1b-1. San Luis Reservoir (SWP and CVP), End of Month Elevation

Existing												
Statistic	End of Month Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	428	442	484	517	544	544	537	514	494	436	401	407
20%	409	429	471	504	534	544	526	502	472	421	390	390
30%	396	429	468	502	526	544	523	493	457	406	374	384
40%	388	429	468	495	520	540	521	487	454	403	363	376
50%	383	427	466	493	513	534	517	481	444	400	360	372
60%	381	418	459	486	506	529	513	476	435	394	356	367
70%	379	412	453	484	502	523	506	469	432	389	352	364
80%	376	397	437	472	497	516	500	463	430	382	345	358
90%	371	382	422	445	477	498	481	456	420	377	339	353
Long Term												
Full Simulation Period <sup>a</sup>	392	420	458	488	512	528	513	482	450	404	368	378
Water Year Types <sup>b,c</sup>												
Wet (32%)	397	426	465	496	520	538	525	496	467	419	380	389
Above Normal (15%)	385	415	456	488	513	533	516	479	446	393	358	372
Below Normal (17%)	393	422	458	487	512	528	510	475	442	399	359	376
Dry (22%)	392	418	458	488	509	524	508	474	440	396	357	369
Critical (15%)	389	411	444	475	499	507	494	474	443	397	377	374
Alternative 2B												
Statistic	End of Month Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	443	474	503	534	544	544	544	544	522	464	422	425
20%	417	447	486	514	543	544	544	538	501	440	394	401
30%	408	437	476	502	523	543	542	529	487	429	383	393
40%	401	429	468	496	517	533	535	515	465	410	378	384
50%	388	423	462	490	511	525	528	502	459	405	369	378
60%	381	418	454	483	508	522	515	494	454	401	364	373
70%	377	412	446	477	496	516	510	488	450	396	354	366
80%	374	397	428	463	488	499	497	475	442	390	348	360
90%	365	376	410	442	474	485	474	460	431	379	339	348
Long Term												
Full Simulation Period <sup>a</sup>	398	425	460	488	509	521	518	503	468	416	376	384
Water Year Types <sup>b,c</sup>												
Wet (32%)	410	440	476	503	523	536	539	529	494	439	396	401
Above Normal (15%)	389	416	453	484	507	523	526	512	472	413	370	378
Below Normal (17%)	400	428	460	488	512	522	522	508	470	416	373	387
Dry (22%)	389	416	454	483	502	510	502	481	446	400	363	374
Critical (15%)	387	414	442	466	489	499	487	469	438	389	363	362
Alternative 2B minus Existing												
Statistic	End of Month Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	15	32	19	17	0	0	8	30	29	29	20	18
20%	8	18	16	9	9	0	18	36	29	19	4	11
30%	12	8	8	1	-3	-1	19	36	30	23	8	9
40%	13	0	0	0	-3	-7	13	28	11	7	15	9
50%	5	-4	-4	-3	-2	-8	10	21	16	5	9	5
60%	0	-1	-4	-3	2	-7	2	18	18	7	8	6
70%	-2	0	-7	-7	-6	-7	3	19	18	7	2	2
80%	-2	0	-9	-10	-9	-17	-3	12	12	9	2	2
90%	-5	-5	-12	-3	-3	-13	-7	5	10	2	1	-4
Long Term												
Full Simulation Period <sup>a</sup>	5	5	3	0	-3	-7	6	22	18	12	9	6
Water Year Types <sup>b,c</sup>												
Wet (32%)	14	14	11	7	3	-2	14	33	28	20	16	12
Above Normal (15%)	4	1	-3	-4	-6	-9	11	33	26	20	12	6
Below Normal (17%)	7	6	2	1	-1	-6	11	32	28	17	13	11
Dry (22%)	-2	-3	-3	-5	-6	-14	-5	7	6	4	6	5
Critical (15%)	-2	3	-1	-9	-10	-8	-7	-5	-6	-8	-14	-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 water year - year type sorting.



Figure 1b-1. San Luis Reservoir (SWP and CVP), Reservoir Pool Elevation, October



Figure 1b-2. San Luis Reservoir (SWP and CVP), Reservoir Pool Elevation, November



Figure 1b-3. San Luis Reservoir (SWP and CVP), Reservoir Pool Elevation, December

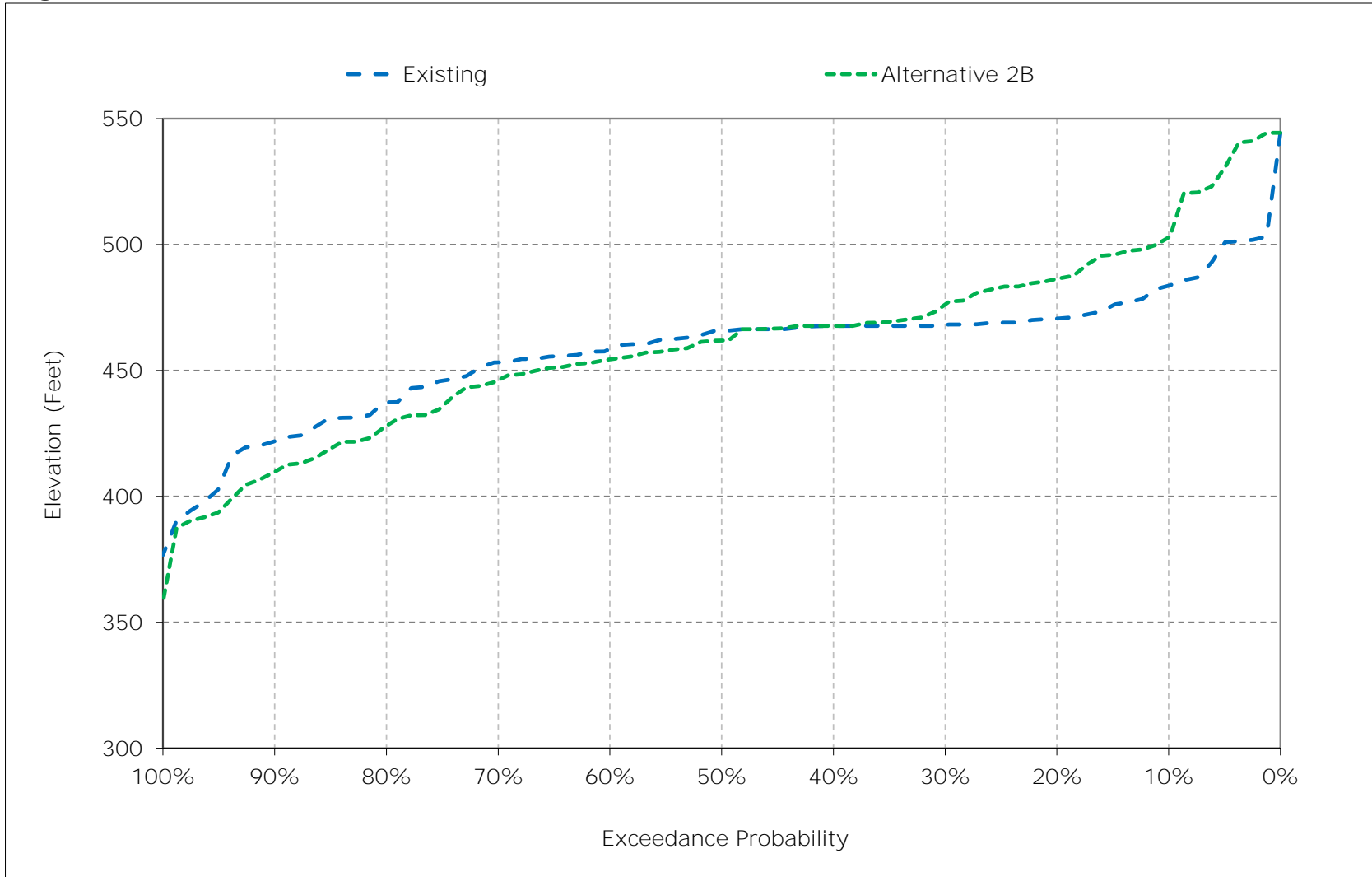


Figure 1b-4. San Luis Reservoir (SWP and CVP), Reservoir Pool Elevation, January

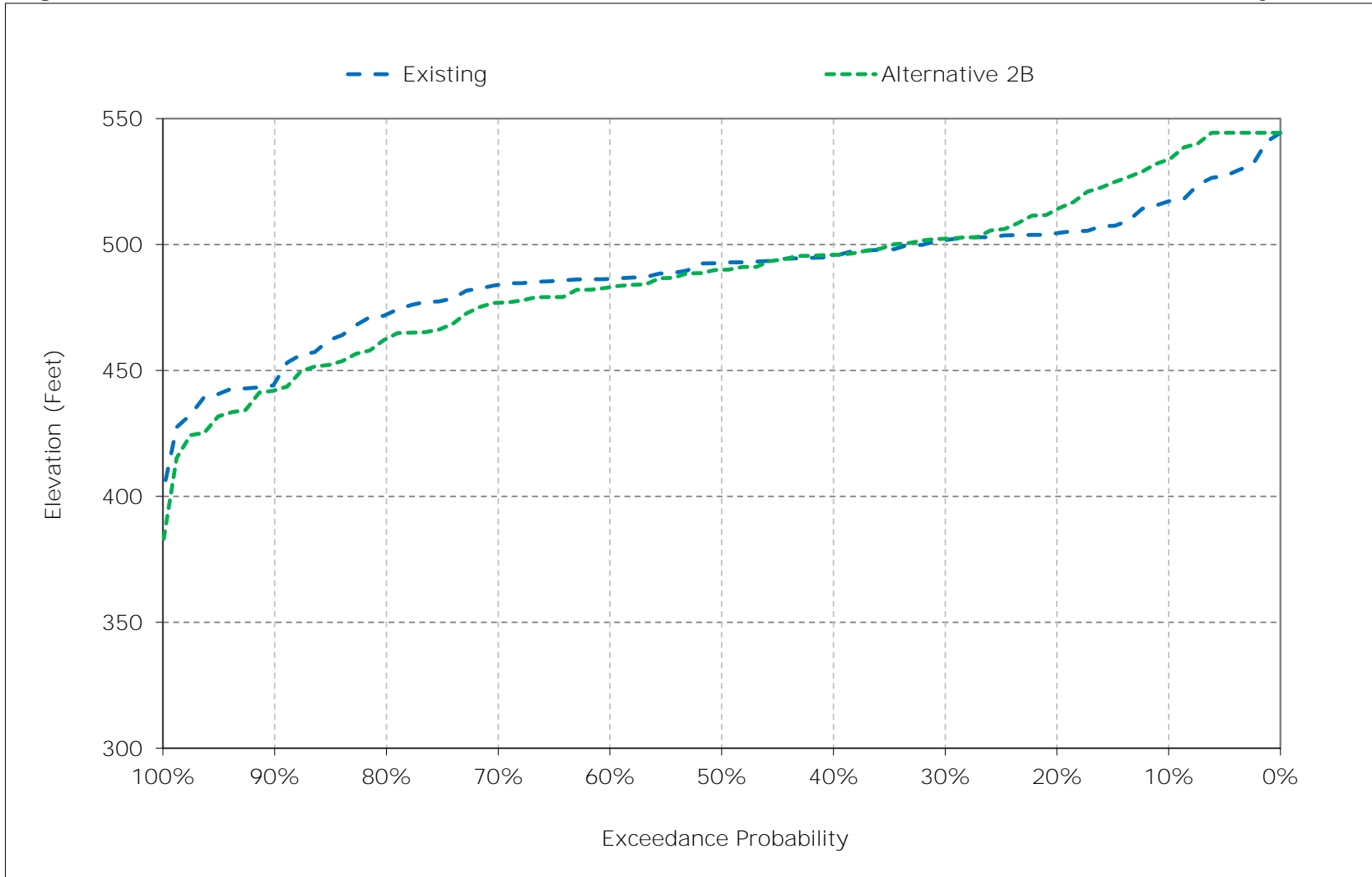


Figure 1b-5. San Luis Reservoir (SWP and CVP), Reservoir Pool Elevation, February

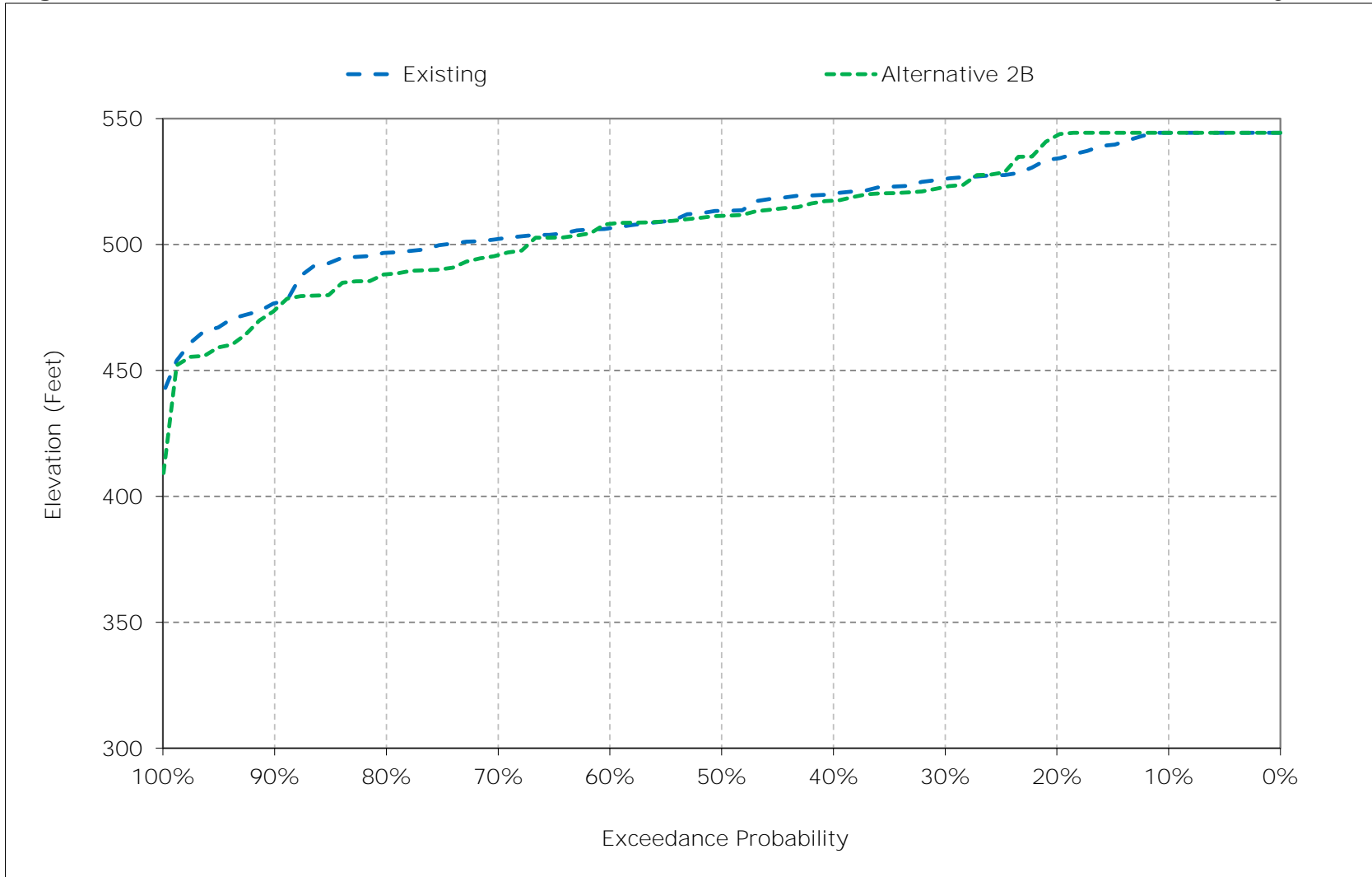


Figure 1b-6. San Luis Reservoir (SWP and CVP), Reservoir Pool Elevation, March

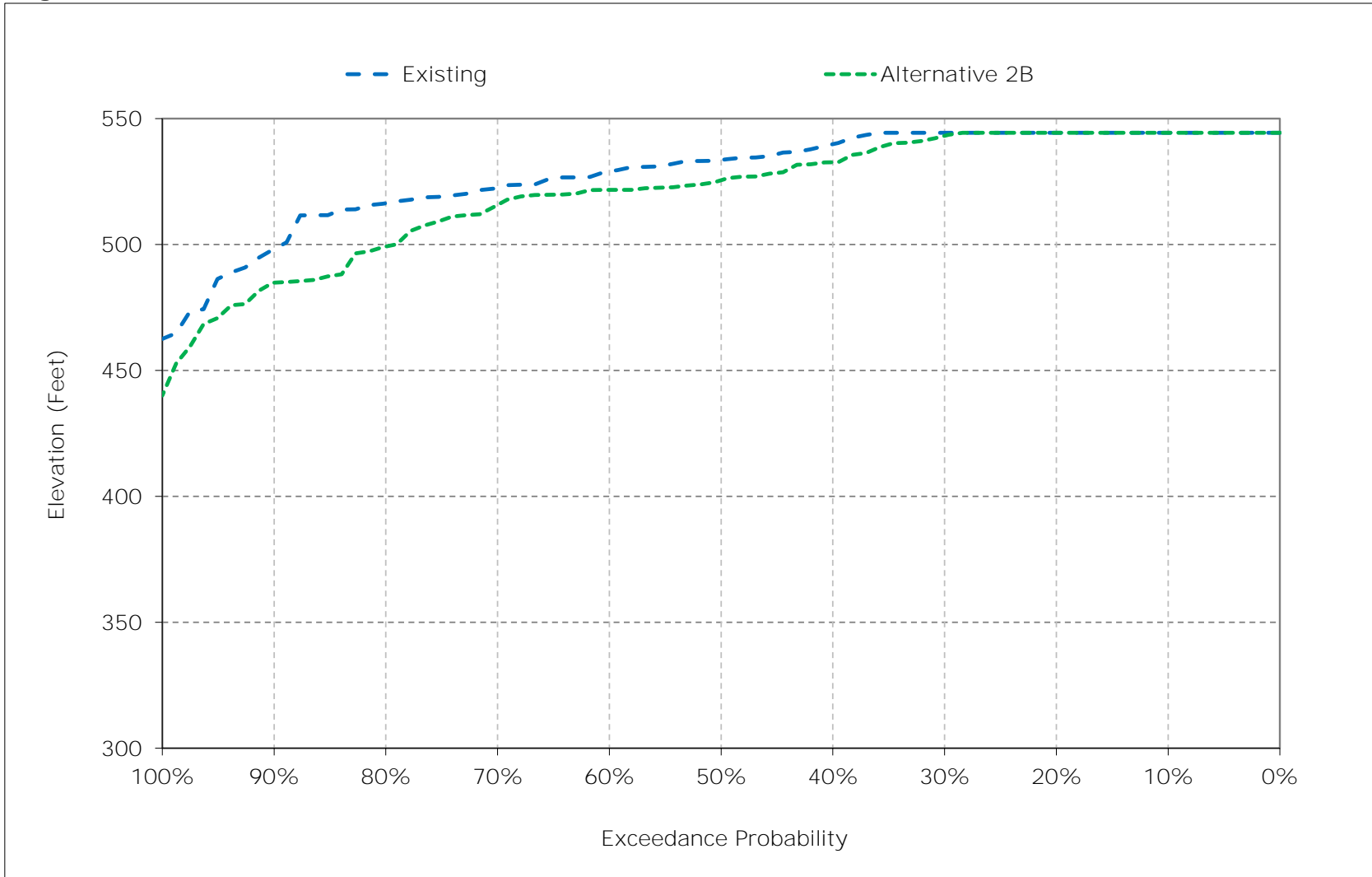


Figure 1b-7. San Luis Reservoir (SWP and CVP), Reservoir Pool Elevation, April

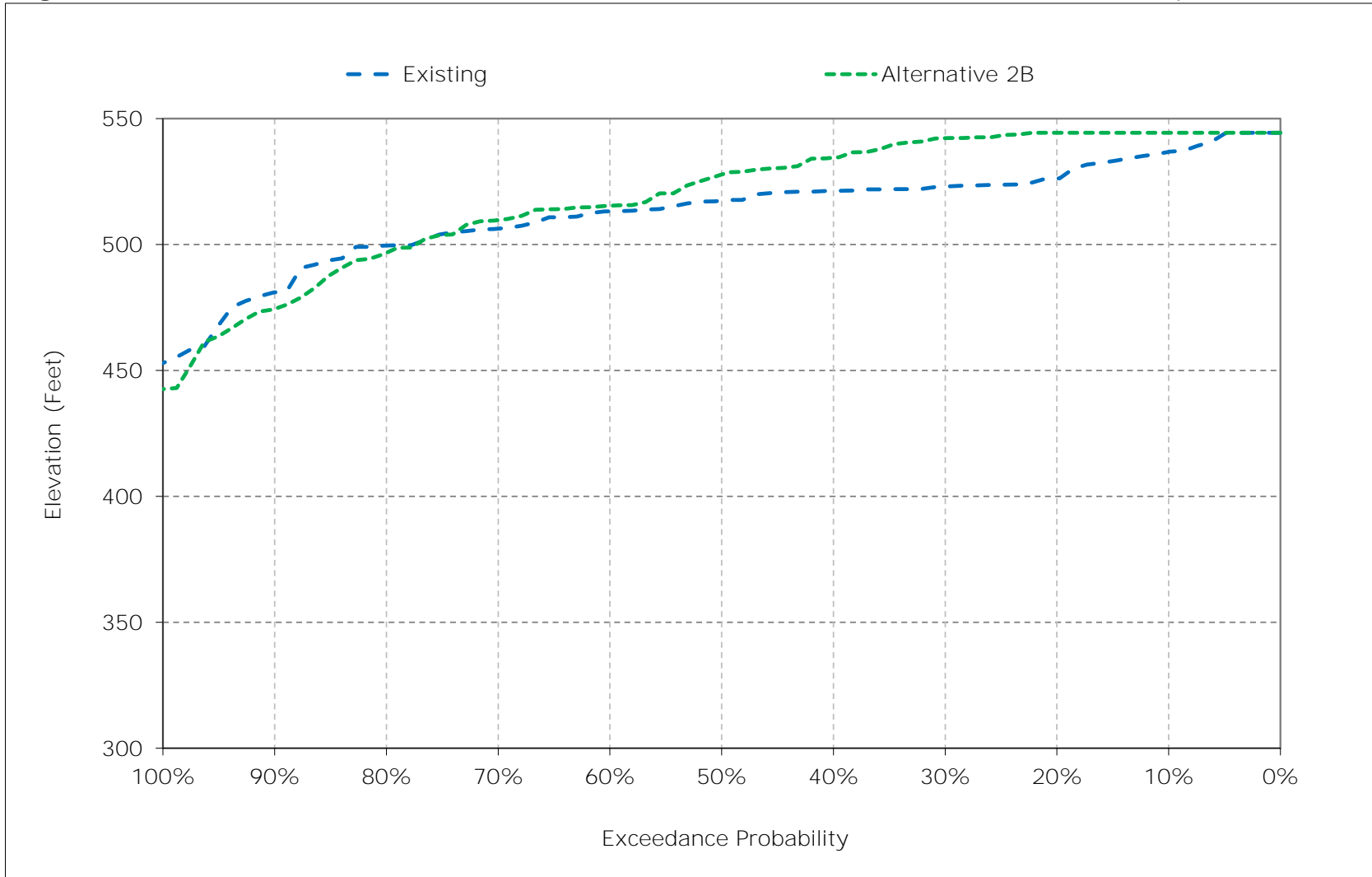


Figure 1b-8. San Luis Reservoir (SWP and CVP), Reservoir Pool Elevation, May

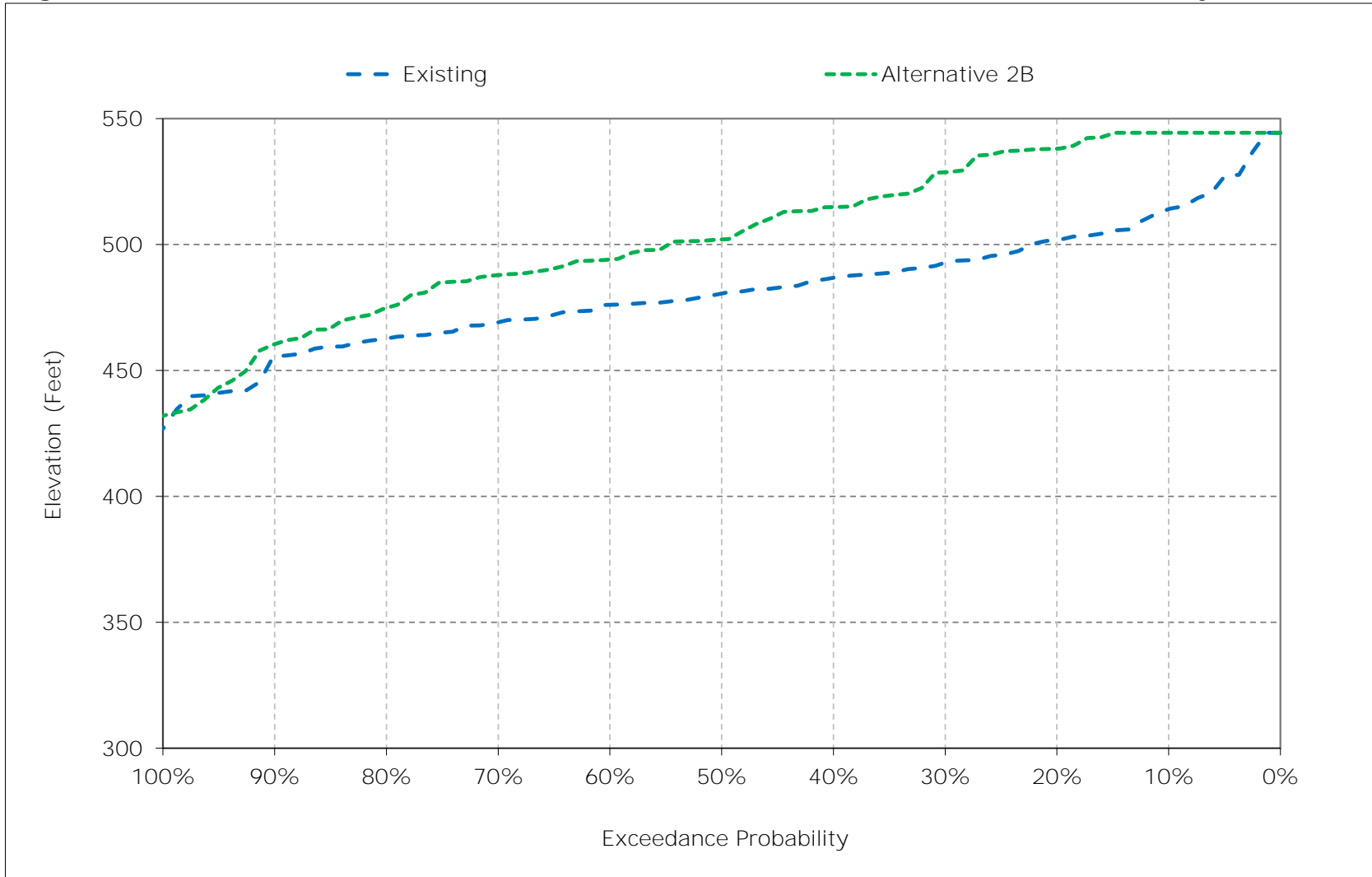




Figure 1b-9. San Luis Reservoir (SWP and CVP), Reservoir Pool Elevation, June

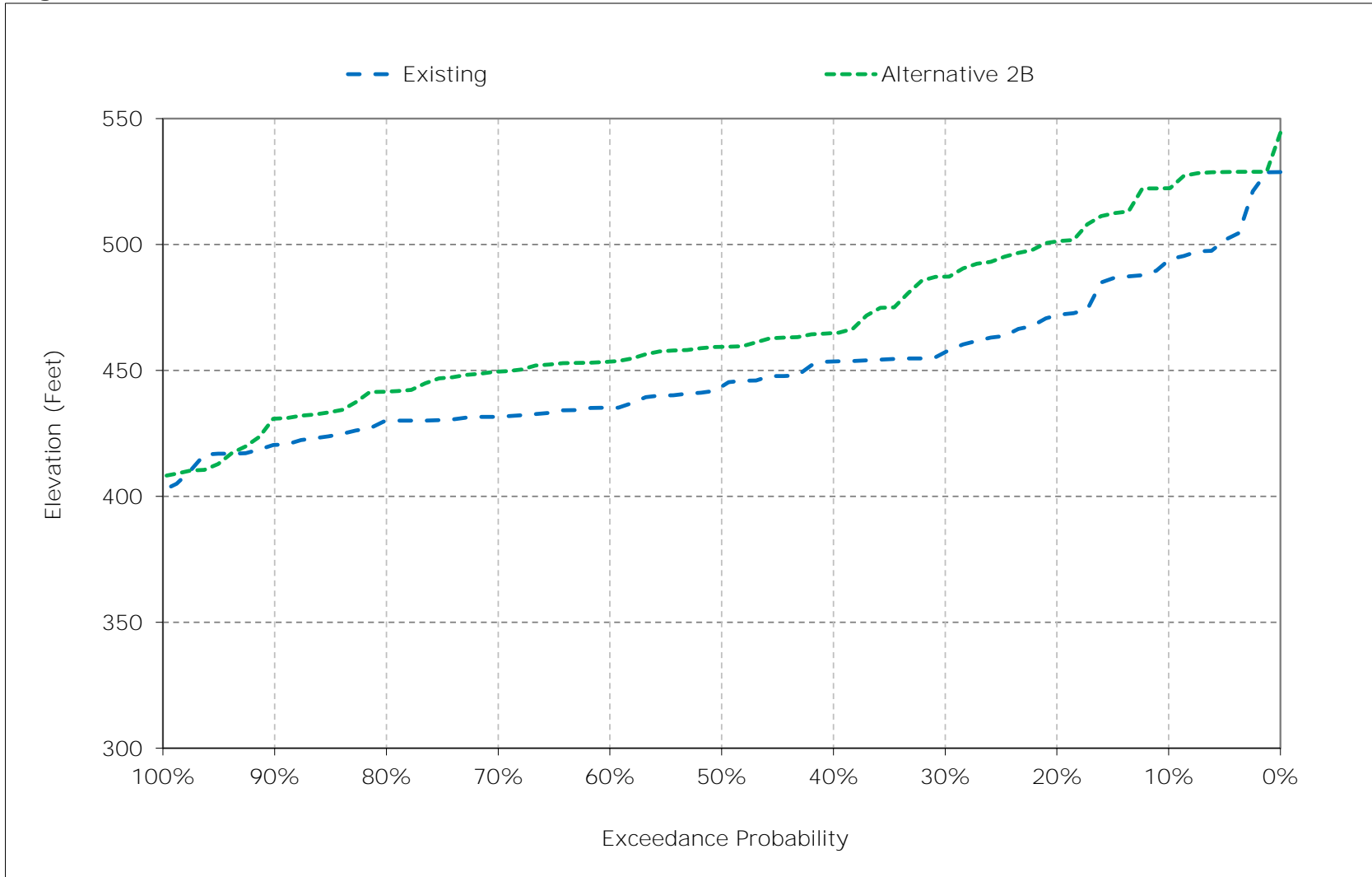


Figure 1b-10. San Luis Reservoir (SWP and CVP), Reservoir Pool Elevation, July



Figure 1b-11. San Luis Reservoir (SWP and CVP), Reservoir Pool Elevation, August

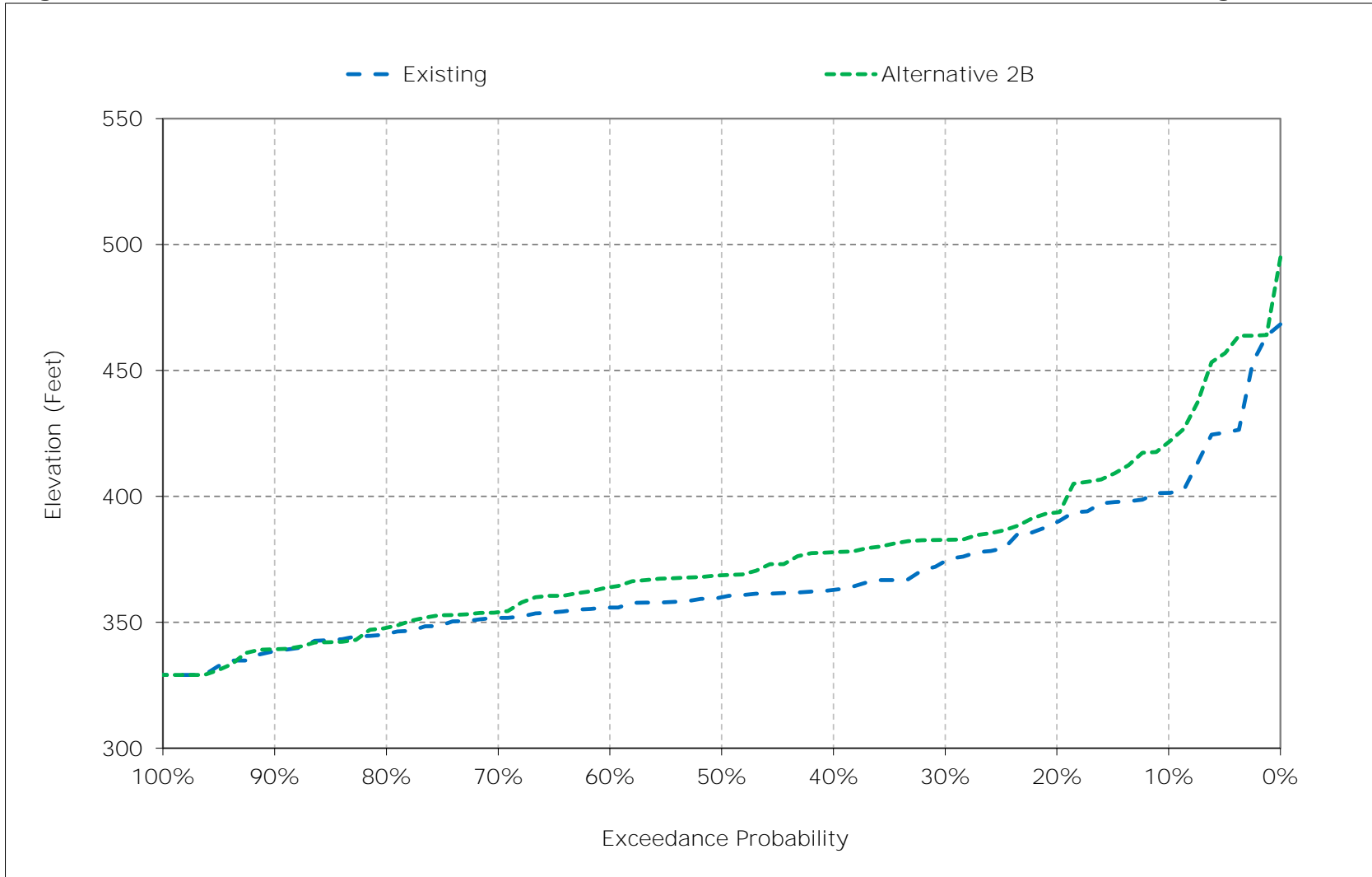


Figure 1b-12. San Luis Reservoir (SWP and CVP), Reservoir Pool Elevation, September

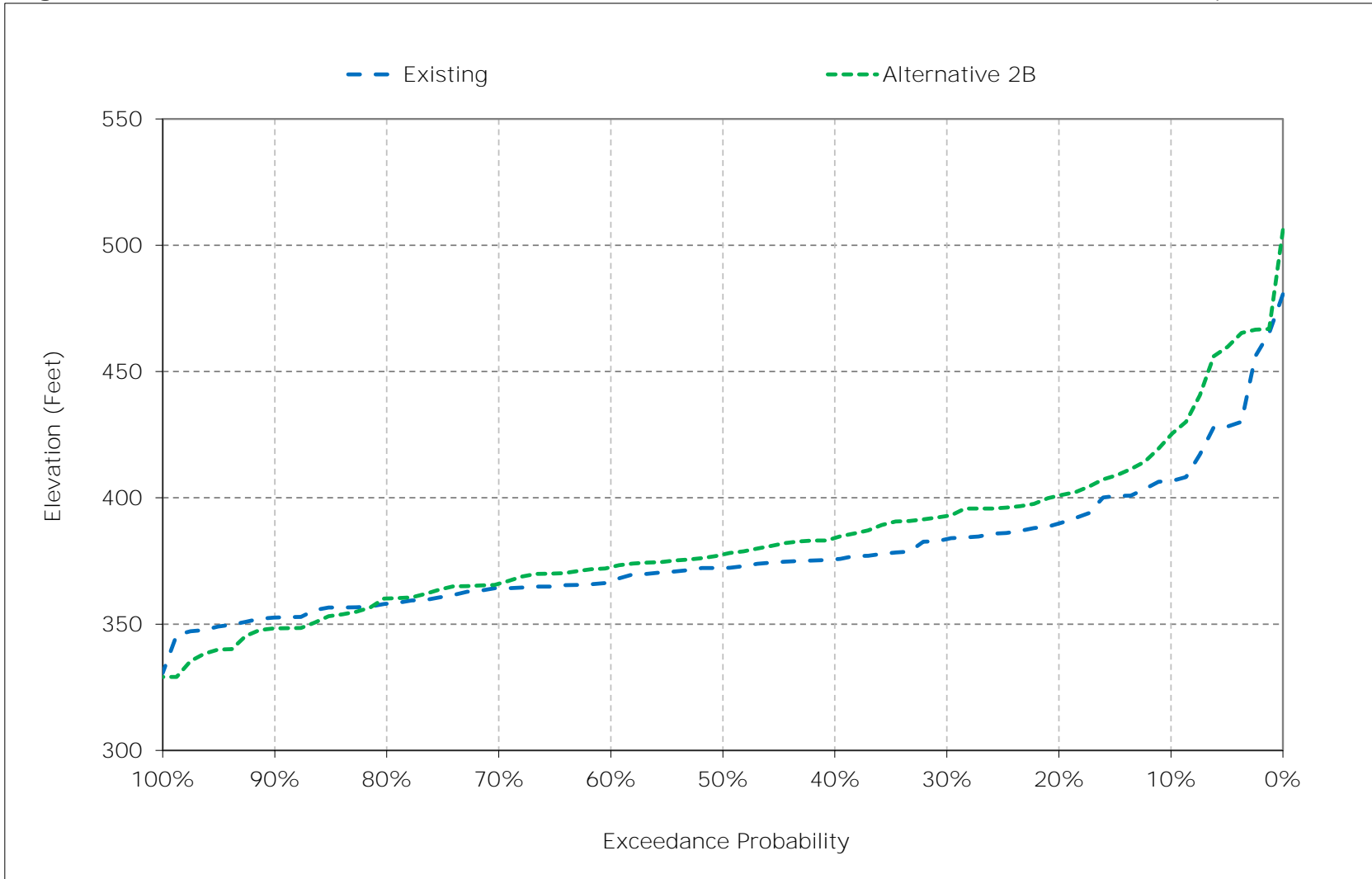


Table 1c-1. San Luis SWP Storage, End of Month Storage

Existing												
Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	508	498	626	794	1,008	1,067	904	668	547	554	462	532
20%	372	396	539	676	843	1,020	877	638	455	427	385	426
30%	316	329	433	566	694	921	810	590	392	373	317	332
40%	269	252	352	486	655	809	725	531	361	315	258	285
50%	211	196	328	439	596	716	583	480	323	272	223	237
60%	153	145	275	383	542	659	565	398	256	234	195	188
70%	85	97	186	313	455	565	521	347	206	207	130	129
80%	55	55	85	230	379	507	447	318	156	158	84	55
90%	55	55	55	199	345	444	378	267	95	100	55	55
Long Term												
Full Simulation Period <sup>a</sup>	244	255	339	479	619	740	645	478	326	309	255	266
Water Year Types <sup>b,c</sup>												
Wet (32%)	297	310	357	525	687	856	718	505	355	365	365	414
Above Normal (15%)	276	279	414	545	681	779	638	425	242	249	268	330
Below Normal (17%)	187	201	295	422	579	709	601	421	233	275	290	251
Dry (22%)	225	246	342	476	593	692	638	521	383	349	166	147
Critical (15%)	190	191	268	383	497	554	552	475	372	227	98	77
Alternative 2B												
Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	606	763	910	1,043	1,067	1,067	988	784	599	581	543	589
20%	497	637	756	883	1,011	1,067	925	727	531	536	488	479
30%	467	558	652	821	926	1,004	896	695	479	485	387	442
40%	398	531	584	696	835	925	811	646	447	430	328	401
50%	325	369	471	583	728	849	754	577	401	378	291	321
60%	137	196	272	400	608	686	641	497	339	287	230	139
70%	55	77	57	252	457	563	525	379	227	201	55	55
80%	55	55	55	212	335	419	359	249	139	144	55	55
90%	55	55	55	199	318	371	319	215	79	55	55	55
Long Term												
Full Simulation Period <sup>a</sup>	308	376	434	568	695	763	691	542	383	369	292	301
Water Year Types <sup>b,c</sup>												
Wet (32%)	373	476	518	680	836	936	876	708	560	568	471	497
Above Normal (15%)	354	435	516	640	748	809	707	547	384	412	358	440
Below Normal (17%)	259	325	400	518	674	728	642	480	310	361	380	333
Dry (22%)	311	352	428	555	644	695	616	478	308	226	68	61
Critical (15%)	169	195	217	335	437	482	446	345	193	119	73	62
Alternative 2B minus Existing												
Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	98	265	284	249	59	0	84	116	52	27	81	57
20%	125	241	217	207	168	47	48	89	76	109	103	53
30%	151	229	219	255	232	82	86	105	87	111	70	110
40%	129	279	231	210	180	116	86	115	86	115	70	116
50%	114	173	143	144	132	133	171	97	79	106	68	84
60%	-16	51	-3	17	66	26	77	99	83	54	35	-49
70%	-30	-20	-129	-61	2	-2	4	32	21	-6	-75	-74
80%	0	0	-30	-18	-43	-88	-88	-70	-17	-13	-29	0
90%	0	0	0	0	-27	-73	-59	-51	-16	-45	0	0
Long Term												
Full Simulation Period <sup>a</sup>	64	121	95	89	76	23	47	64	56	60	37	35
Water Year Types <sup>b,c</sup>												
Wet (32%)	76	166	161	155	149	81	158	203	205	202	106	83
Above Normal (15%)	78	157	102	95	67	30	70	122	142	163	90	110
Below Normal (17%)	72	124	105	96	94	19	41	59	77	86	90	82
Dry (22%)	86	106	85	78	51	3	-23	-43	-75	-123	-98	-86
Critical (15%)	-21	5	-51	-48	-59	-73	-106	-129	-179	-108	-25	-14

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 water year - year type sorting.

Figure 1c-1. San Luis SWP Storage, End of October Storage

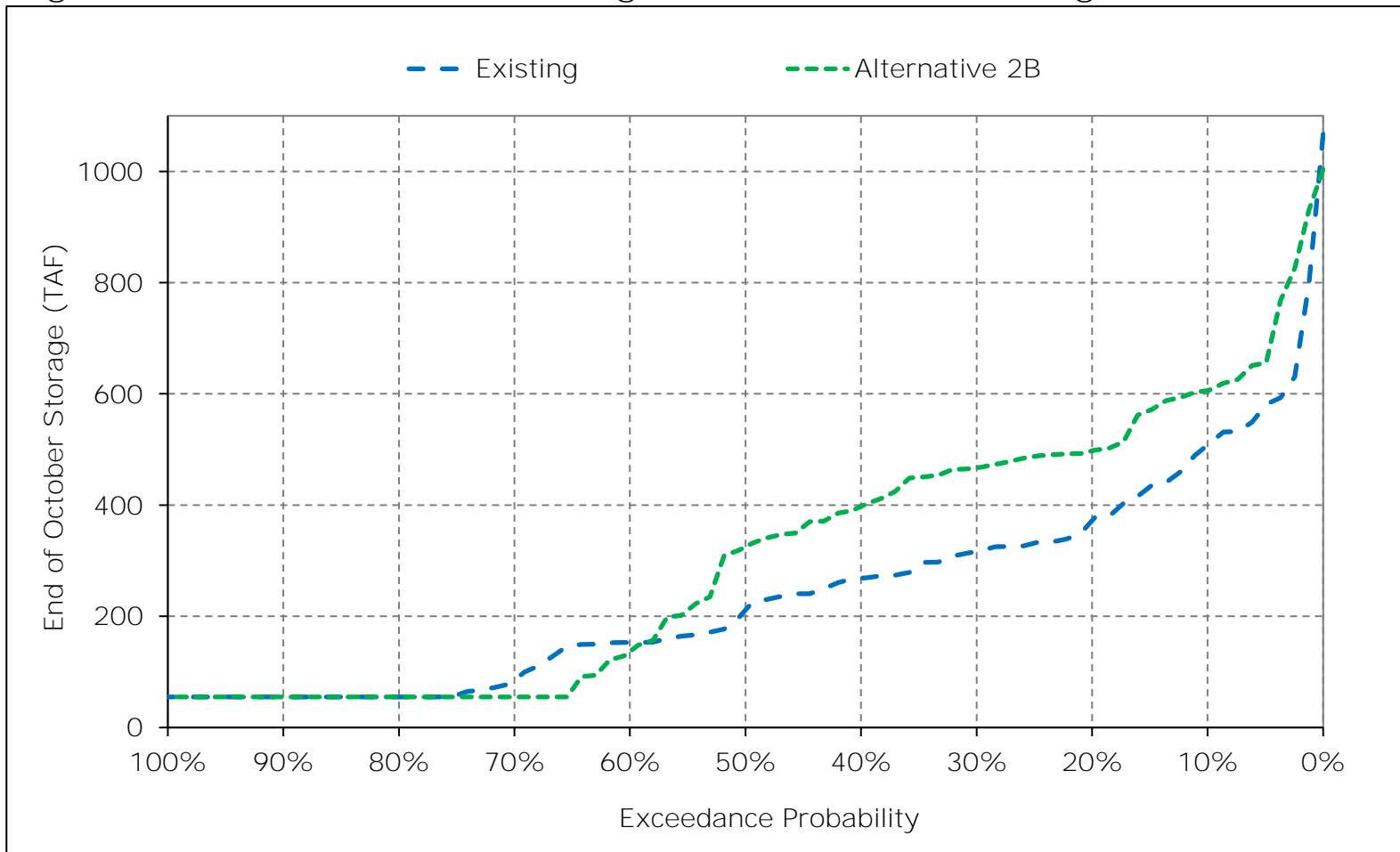


Figure 1c-2. San Luis SWP Storage, End of November Storage

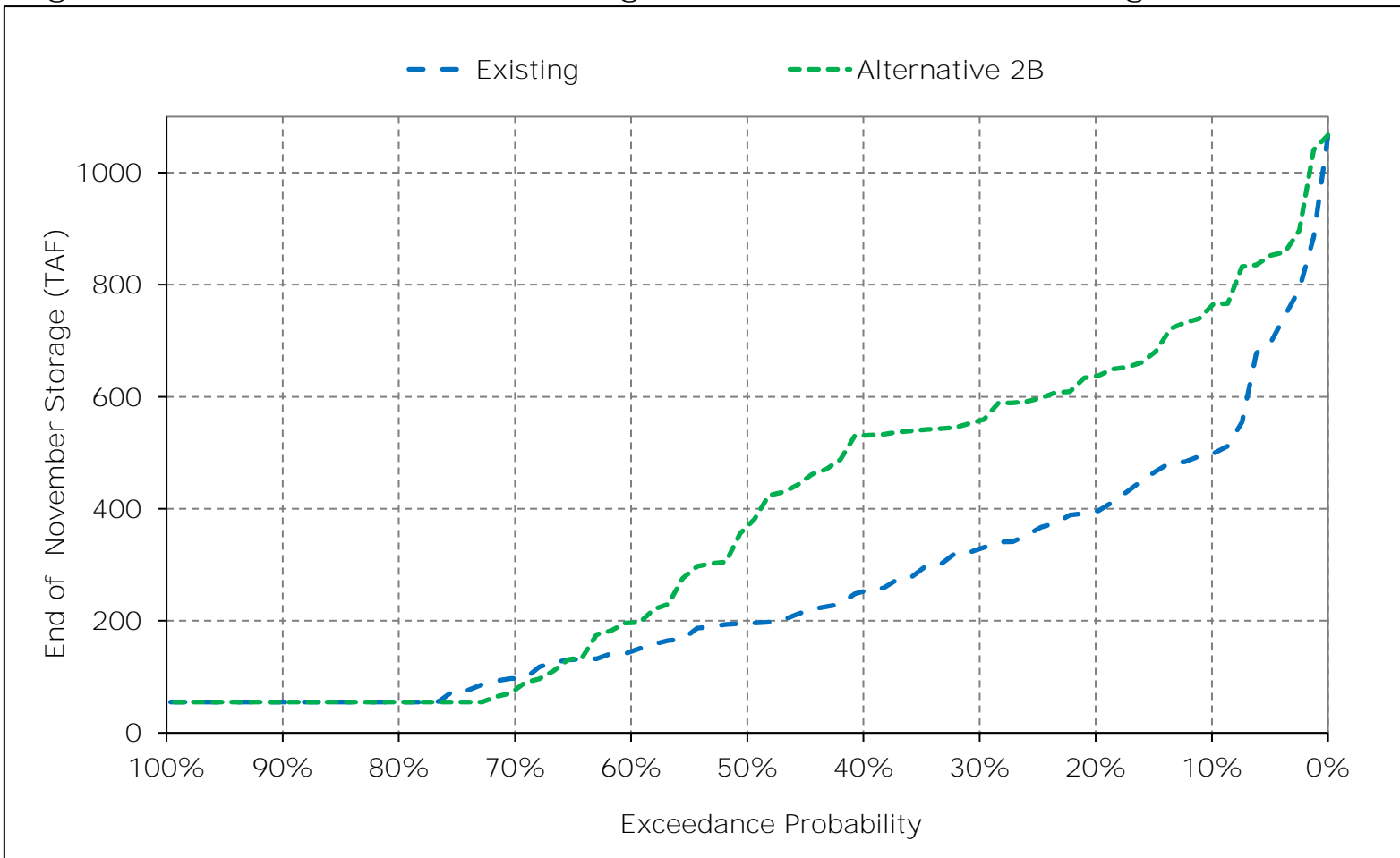


Figure 1c-3. San Luis SWP Storage, End of December Storage

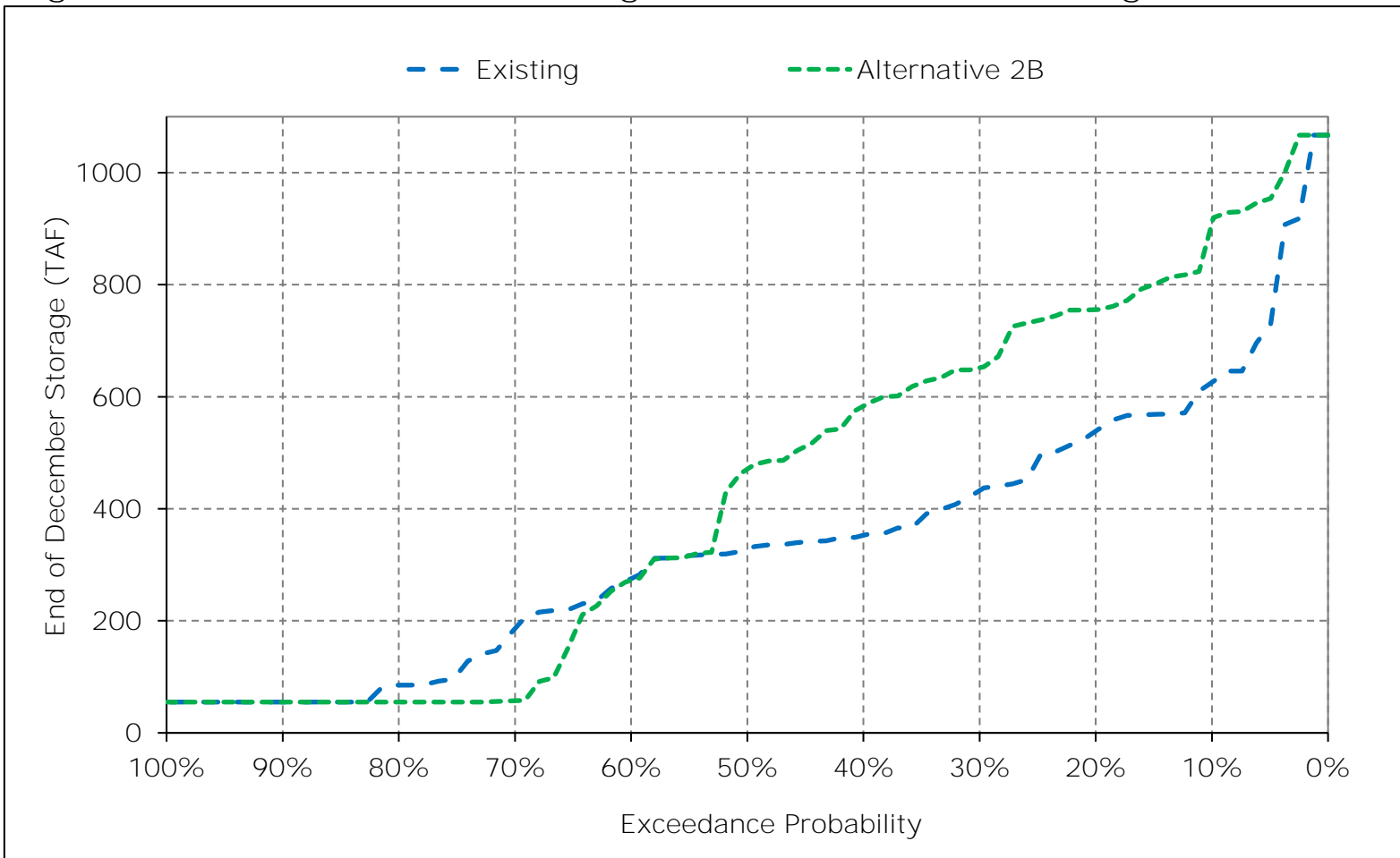




Figure 1c-4. San Luis SWP Storage, End of January Storage



Figure 1c-5. San Luis SWP Storage, End of February Storage

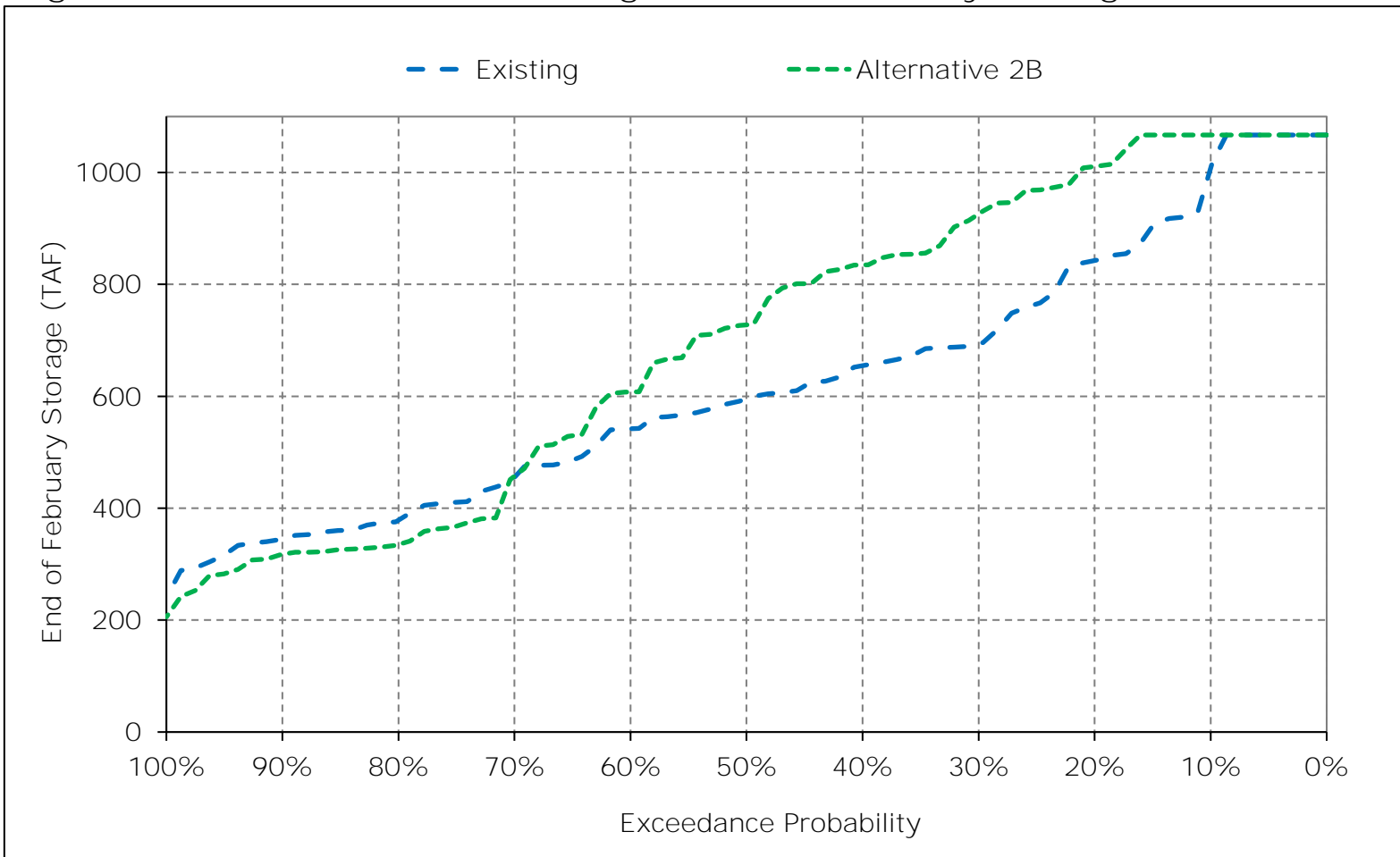


Figure 1c-6. San Luis SWP Storage, End of March Storage

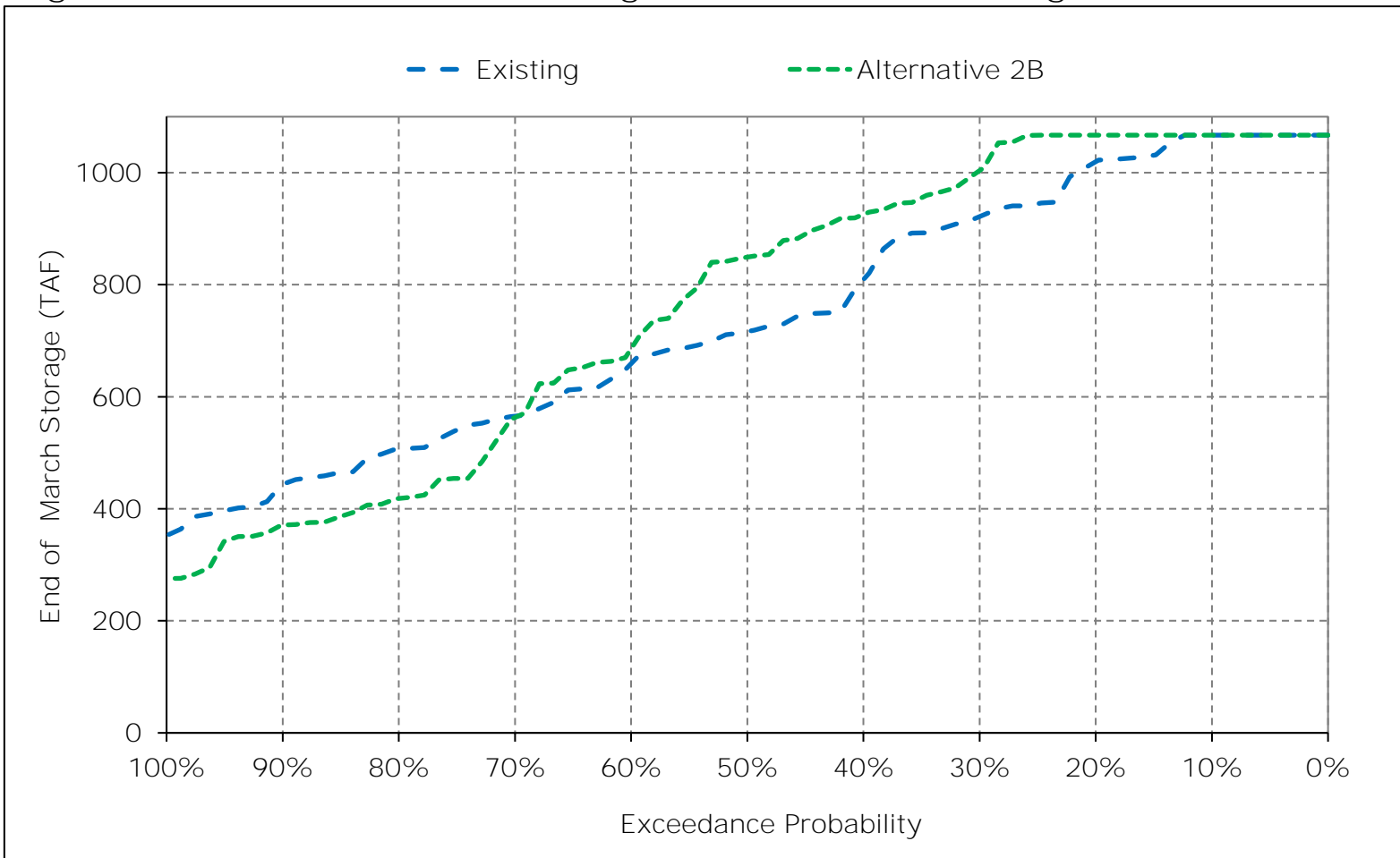


Figure 1c-7. San Luis SWP Storage, End of April Storage



Figure 1c-8. San Luis SWP Storage, End of May Storage

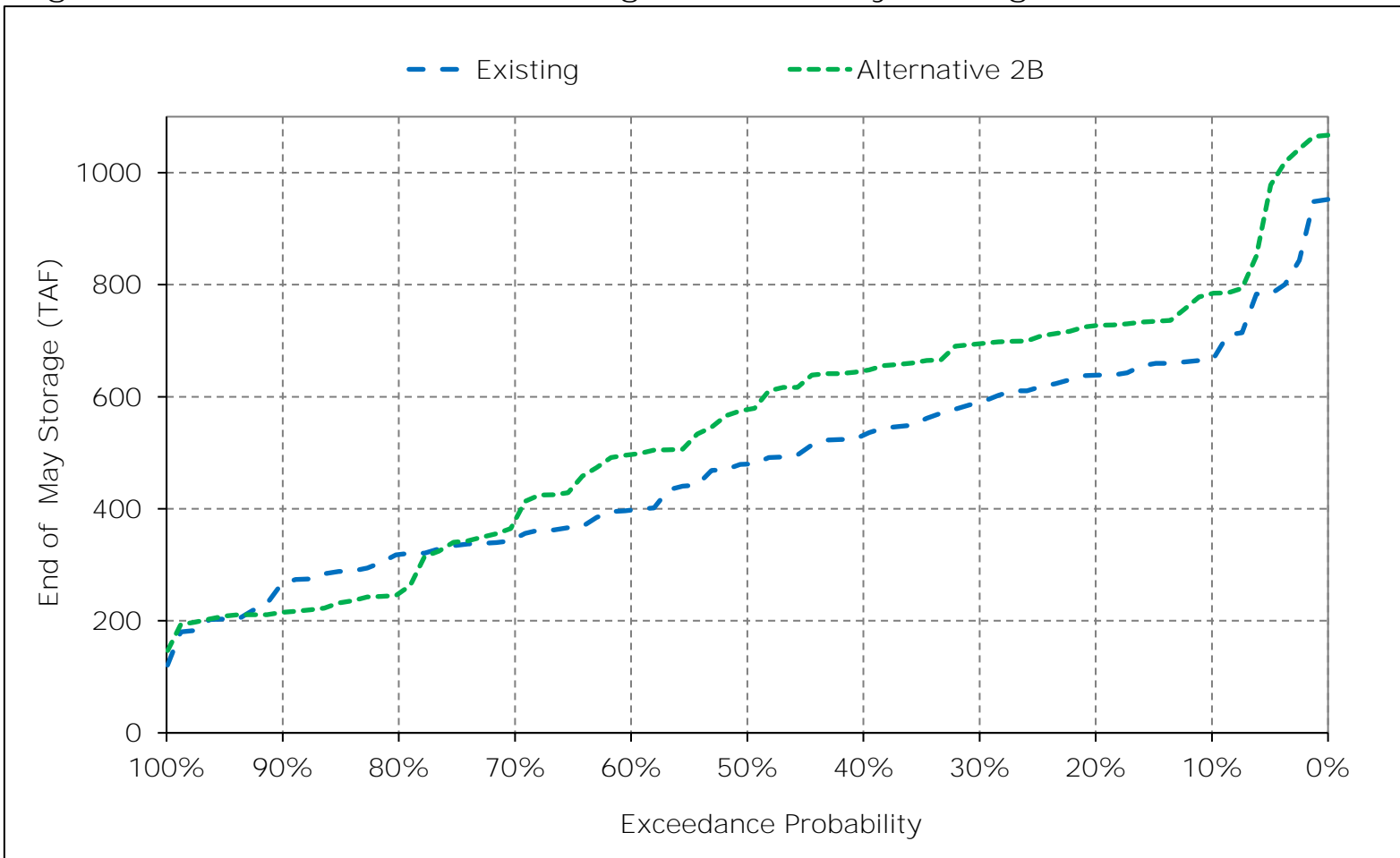


Figure 1c-9. San Luis SWP Storage, End of June Storage

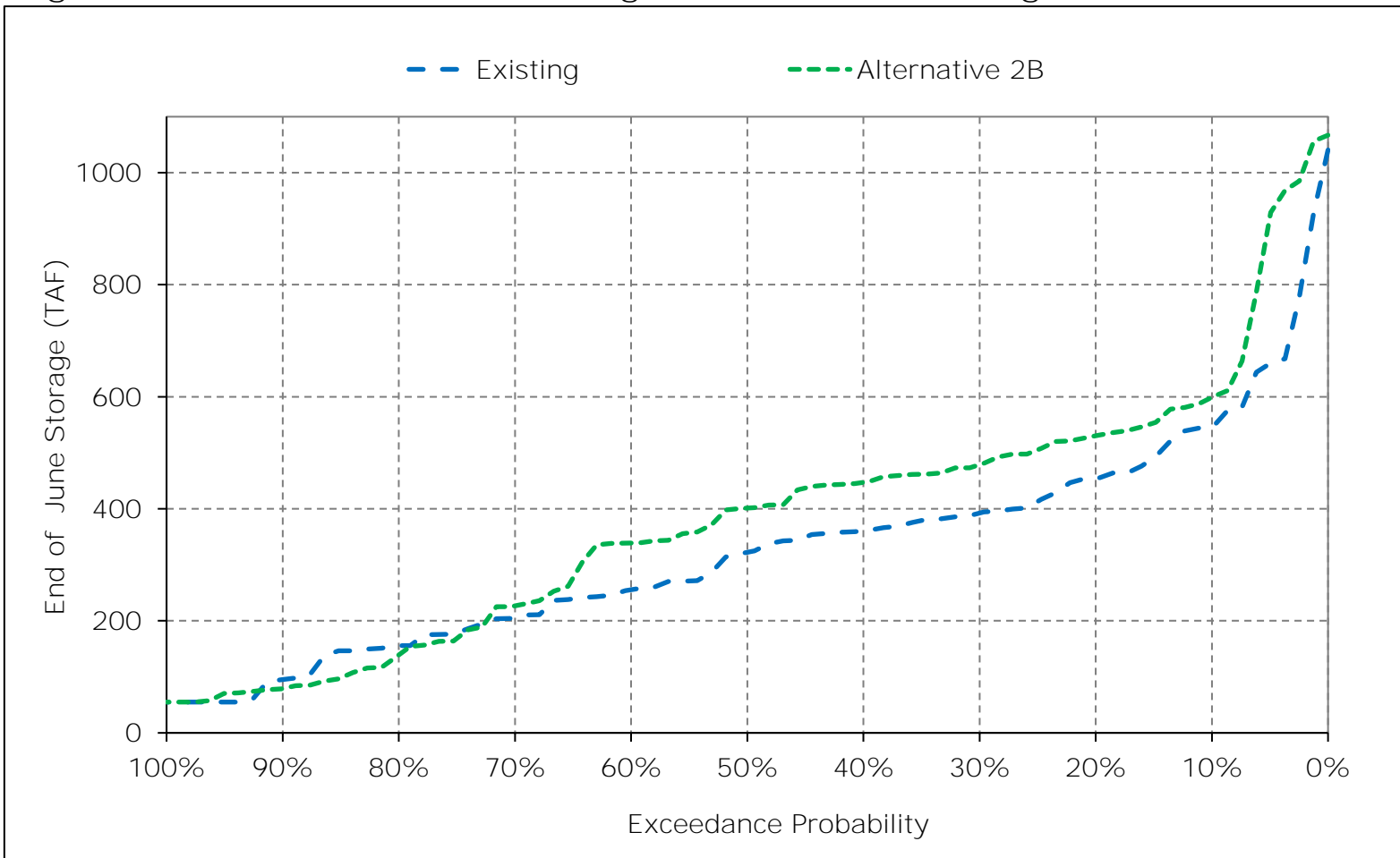


Figure 1c-10. San Luis SWP Storage, End of July Storage

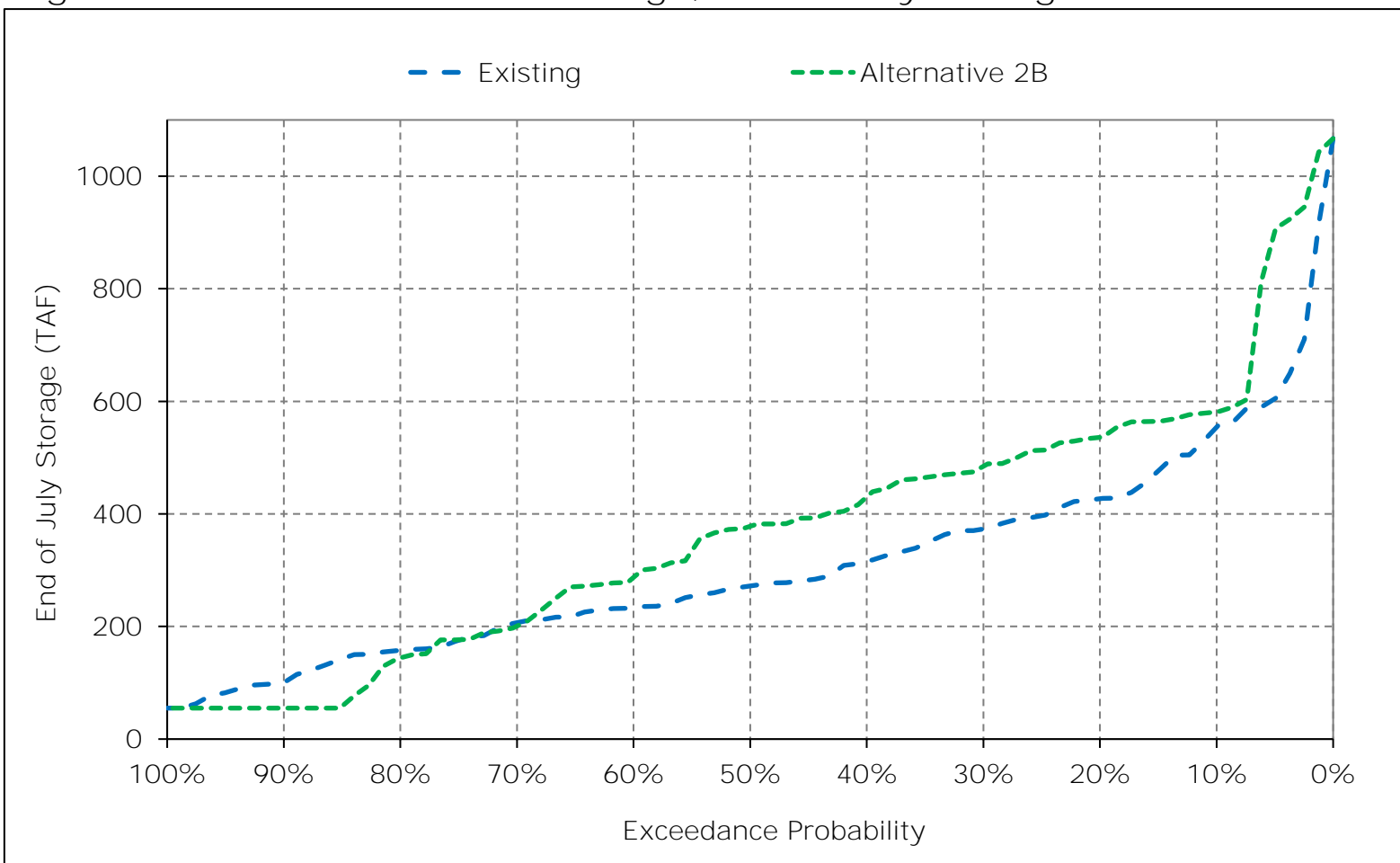


Figure 1c-11. San Luis SWP Storage, End of August Storage





Figure 1c-12. San Luis SWP Storage, End of September Storage



## Appendix C – Modeling

### Attachment 3-2 – Flow Results (CalSim II)

***NOTE: Attachment 3-2 is a new attachment that has been added to the DEIR since initial publication, as part of the FEIR process. The additional attachment is not shown in underline for ease of reading.***

The following results of the CalSim II model are included for river flow conditions for the following alternatives:

- Existing Conditions
- Refined Alternative 2b

<b>Title</b>	<b>Model Parameter</b>	<b>Table Numbers</b>	<b>Figure Numbers</b>
Sacramento River Flow at Freeport	C169	1-1	1-1 to 1-18
Georgiana Slough Flow	D401B_GEO	2-1	2-1 to 2-18
Yolo Bypass Flow	C157	3-1	3-1 to 3-18
Sacramento River Flow at Rio Vista	C405	4-1	4-1 to 4-18
San Joaquin River at Vernalis	C639	5-1	5-1 to 5-18
Mokelumne River Below Consumnes	C504	6-1	6-1 to 6-18
Old and Middle River Flow	C408	7-1	7-1 to 7-18
Qwest	C416A	8-1	8-1 to 8-18
Delta Outflow	C406	9-1	9-1 to 9-18

#### Report formats

- Monthly tables comparing two scenarios (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 scenarios
- Monthly exceedance charts (all months) including all scenarios

Table 1-1. Sacramento River Flow at Freepoint, Monthly Flow

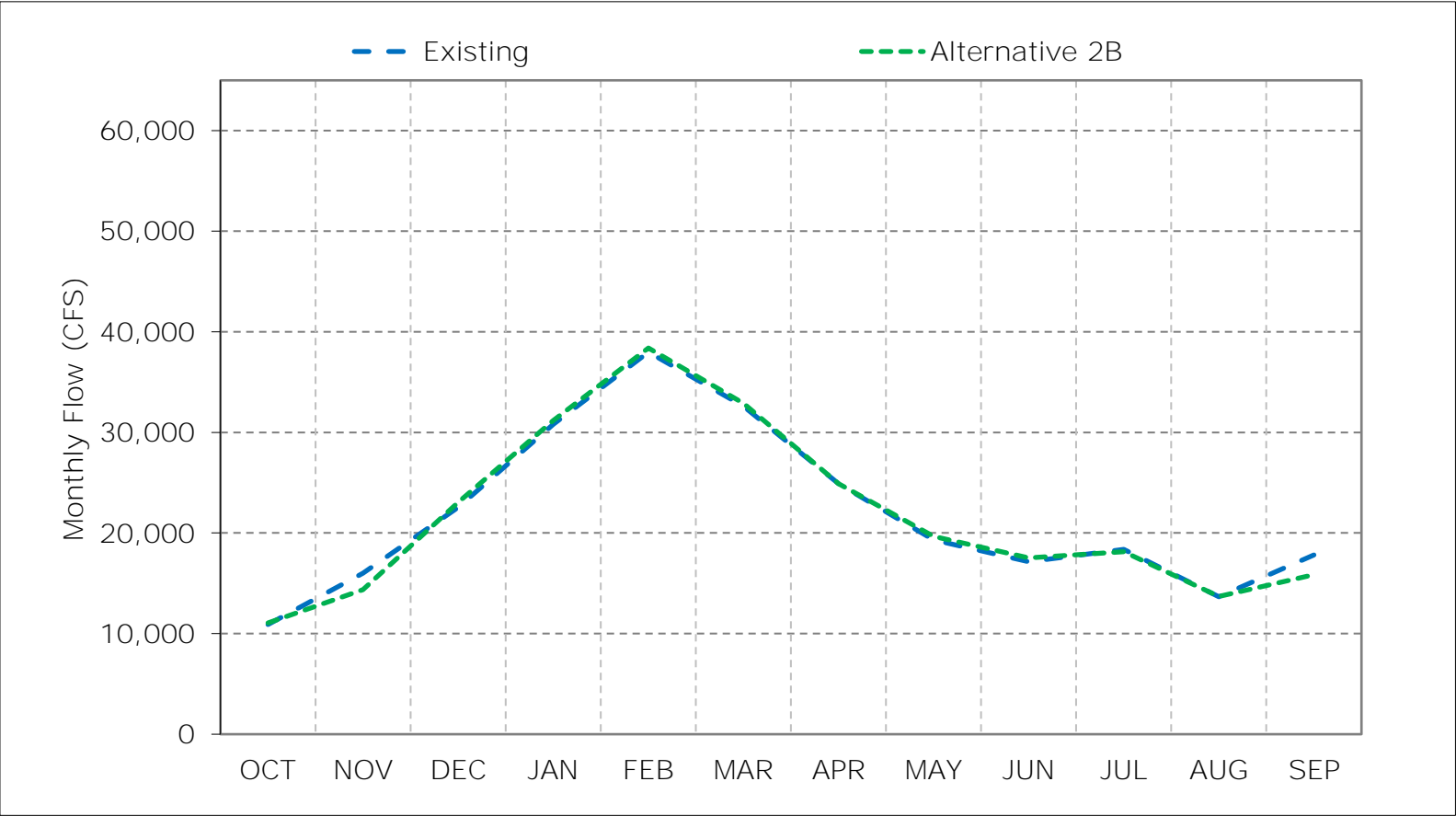
Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	13,766	22,073	48,752	63,157	68,384	62,394	52,923	41,803	26,593	24,522	16,963	30,152
20%	13,332	19,621	32,185	55,411	60,806	52,865	40,600	29,832	19,988	22,968	16,238	29,429
30%	12,763	18,605	21,963	38,417	49,902	39,929	26,021	19,236	15,420	21,584	16,006	24,061
40%	11,546	16,220	18,343	26,706	45,009	33,941	23,119	14,886	14,831	19,917	15,770	21,992
50%	10,520	14,888	15,589	20,626	34,615	26,439	18,461	12,887	14,467	19,155	15,543	14,610
60%	9,213	12,135	15,117	18,712	26,295	21,695	15,302	11,820	14,035	17,518	14,469	11,310
70%	8,522	10,419	13,252	14,718	20,073	19,289	13,396	10,805	13,099	16,490	10,614	9,977
80%	8,051	9,021	10,982	13,213	16,888	15,732	11,576	10,231	12,322	14,778	9,349	9,445
90%	6,705	7,877	9,715	12,233	14,026	11,430	10,003	8,633	11,596	10,527	8,394	7,551
Long Term												
Full Simulation Period <sup>a</sup>	10,902	16,017	22,564	30,820	37,978	32,595	24,891	19,312	17,132	18,361	13,660	17,819
Water Year Types <sup>b,c</sup>												
Wet (32%)	12,658	21,062	36,113	50,121	57,672	49,926	40,193	31,908	23,827	20,207	16,271	28,817
Above Normal (15%)	10,615	16,983	22,363	37,320	45,427	43,052	27,490	21,850	16,431	21,886	16,401	22,366
Below Normal (17%)	10,453	14,106	16,596	21,953	32,254	22,985	19,573	14,371	14,588	20,870	15,568	12,979
Dry (22%)	10,048	13,410	15,147	16,518	23,267	20,656	14,489	10,764	14,050	16,782	9,809	9,645
Critical (15%)	9,190	10,263	11,497	14,298	16,601	13,704	10,947	8,065	10,921	10,281	8,813	7,354
Alternative 2B												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,459	22,449	50,117	63,822	68,599	62,744	52,929	41,804	26,592	23,560	16,996	23,905
20%	13,638	14,921	34,374	56,356	61,305	52,989	40,605	29,978	19,993	22,601	16,377	23,463
30%	12,797	14,022	22,526	40,735	51,638	42,464	25,791	19,236	16,005	21,385	16,040	22,610
40%	11,583	13,562	18,479	27,733	45,949	33,989	23,092	14,881	15,321	19,655	15,851	19,792
50%	10,895	12,892	15,584	24,423	34,563	26,432	18,441	14,059	15,002	19,122	15,534	14,649
60%	9,172	11,599	14,382	18,977	26,316	22,026	14,928	12,794	14,575	17,656	14,259	10,821
70%	8,302	10,545	13,710	15,064	21,642	19,325	13,211	11,324	13,915	16,209	10,840	10,039
80%	8,039	8,636	12,069	12,606	17,575	14,985	11,932	10,280	12,750	14,059	9,677	9,351
90%	6,781	7,351	9,703	11,650	14,458	11,769	10,431	9,366	11,963	10,689	8,917	7,552
Long Term												
Full Simulation Period <sup>a</sup>	11,062	14,367	23,049	31,196	38,389	32,894	24,912	19,653	17,529	18,126	13,704	15,845
Water Year Types <sup>b,c</sup>												
Wet (32%)	12,986	18,883	37,747	50,658	57,990	50,104	40,145	31,946	23,900	19,872	16,229	22,196
Above Normal (15%)	10,781	14,693	22,118	38,421	46,034	44,018	27,453	21,893	17,206	21,372	16,467	23,388
Below Normal (17%)	10,714	12,604	16,519	23,195	33,497	23,267	19,556	14,972	15,473	20,680	15,488	12,665
Dry (22%)	9,922	12,243	15,318	16,291	23,145	20,773	14,643	11,598	14,508	16,365	9,974	9,663
Critical (15%)	9,289	9,498	11,346	13,493	16,848	13,899	11,019	8,320	10,981	10,760	8,981	7,526
Alternative 2B minus Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	693	375	1,365	665	216	350	6	2	-1	-963	32	-6,247
20%	306	-4,700	2,189	945	499	124	5	145	5	-367	139	-5,966
30%	34	-4,583	563	2,318	1,736	2,535	-230	0	585	-199	34	-1,451
40%	37	-2,658	136	1,028	940	48	-27	-5	490	-262	81	-2,200
50%	375	-1,996	-5	3,797	-52	-7	-19	1,172	534	-33	-9	39
60%	-41	-536	-734	265	21	331	-374	973	540	139	-210	-489
70%	-220	127	458	346	1,569	36	-185	519	817	-281	226	61
80%	-12	-386	1,087	-607	687	-747	356	49	428	-719	328	-94
90%	76	-525	-13	-583	432	340	429	734	367	162	523	0
Long Term												
Full Simulation Period <sup>a</sup>	160	-1,650	484	376	411	300	21	341	397	-235	43	-1,974
Water Year Types <sup>b,c</sup>												
Wet (32%)	328	-2,179	1,634	538	318	178	-49	37	73	-335	-41	-6,621
Above Normal (15%)	166	-2,290	-245	1,101	607	965	-37	43	775	-514	65	1,022
Below Normal (17%)	261	-1,502	-77	1,242	1,243	282	-17	601	886	-190	-81	-314
Dry (22%)	-125	-1,167	172	-227	-121	117	154	834	457	-417	165	18
Critical (15%)	99	-765	-152	-805	247	195	72	255	61	479	167	172

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).

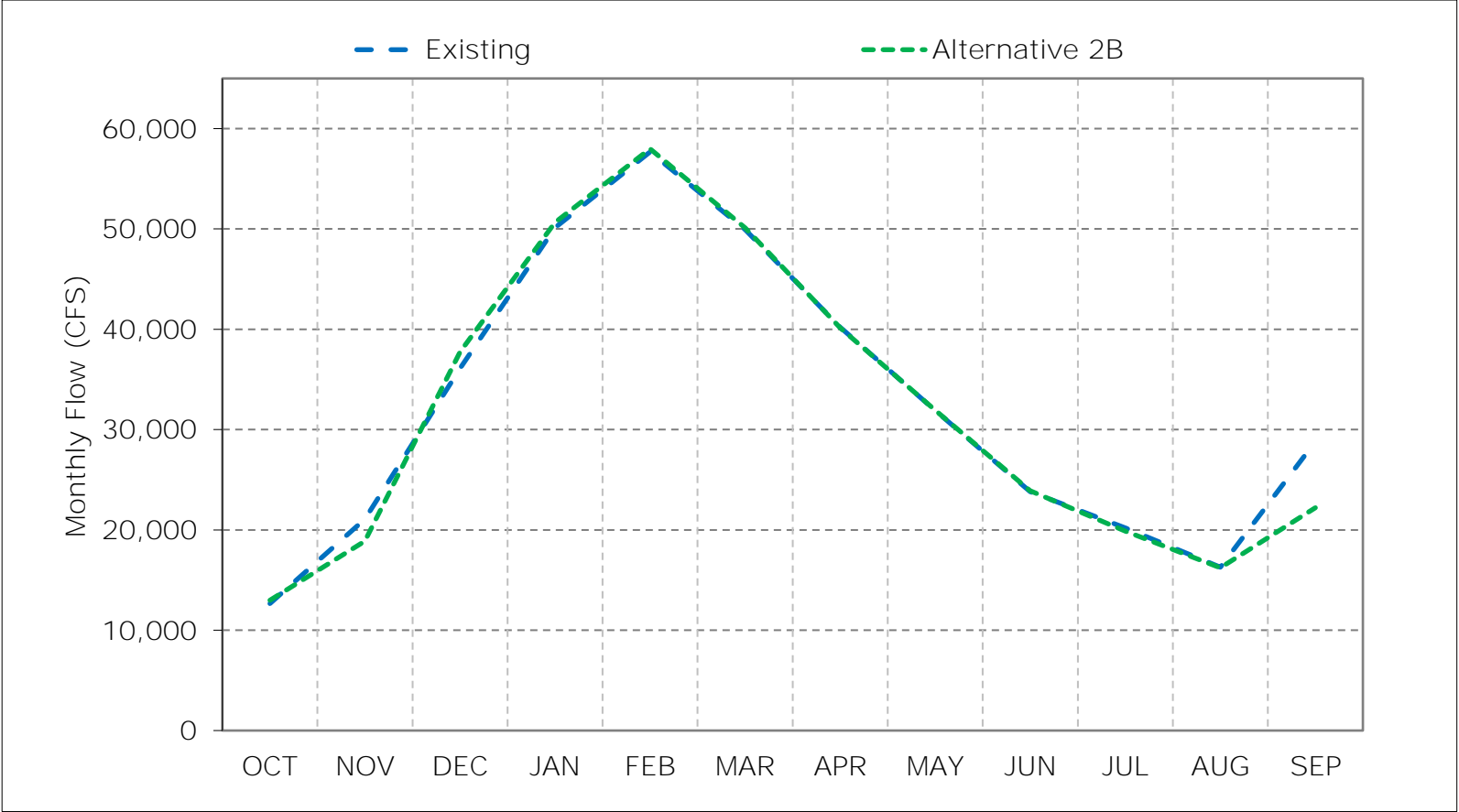
c These results are displayed with water year - year type sorting.

Figure 1-1. Sacramento River Flow at Freeport, Long-Term Average Flow



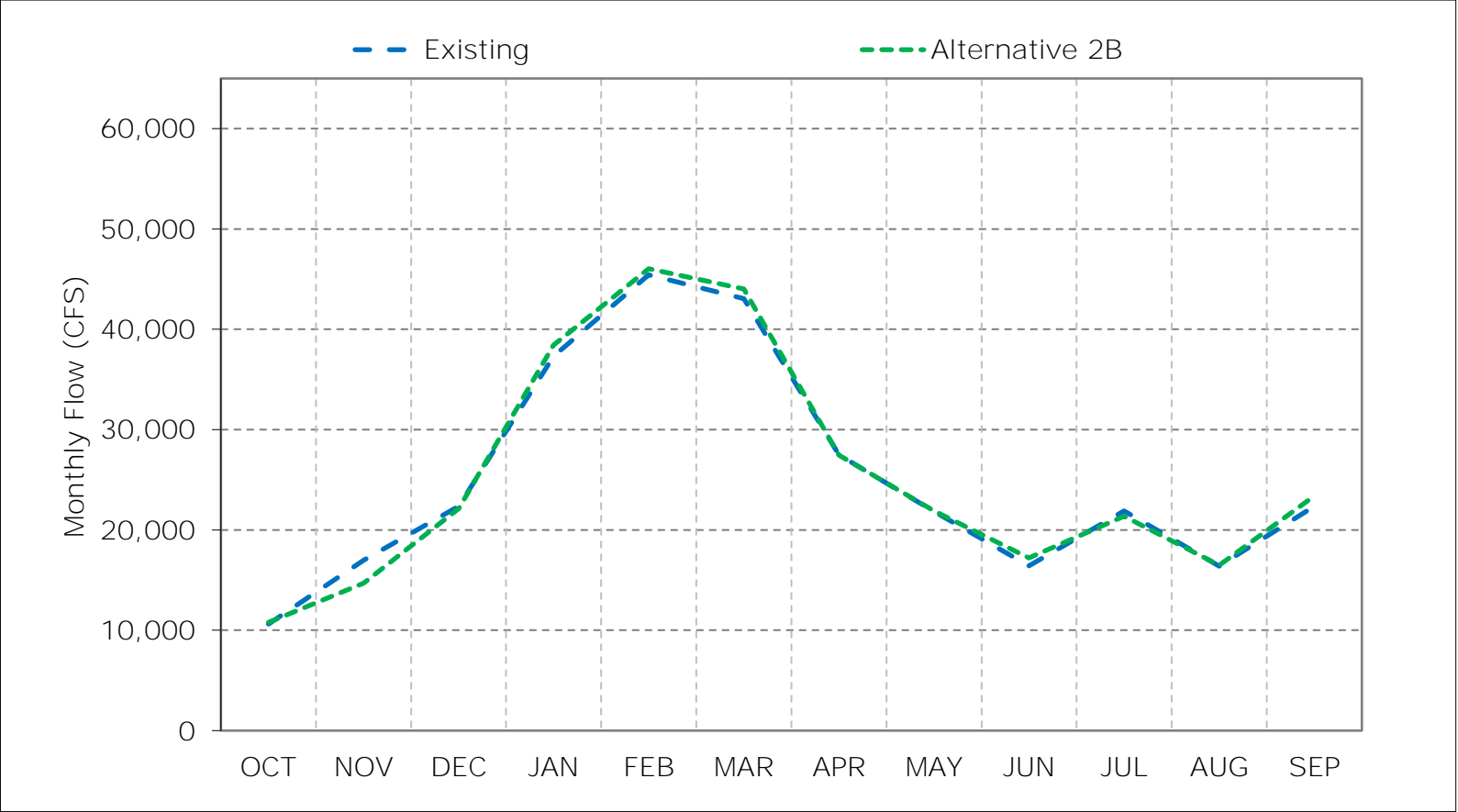
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 1-2. Sacramento River Flow at Freeport, Wet Year Average Flow



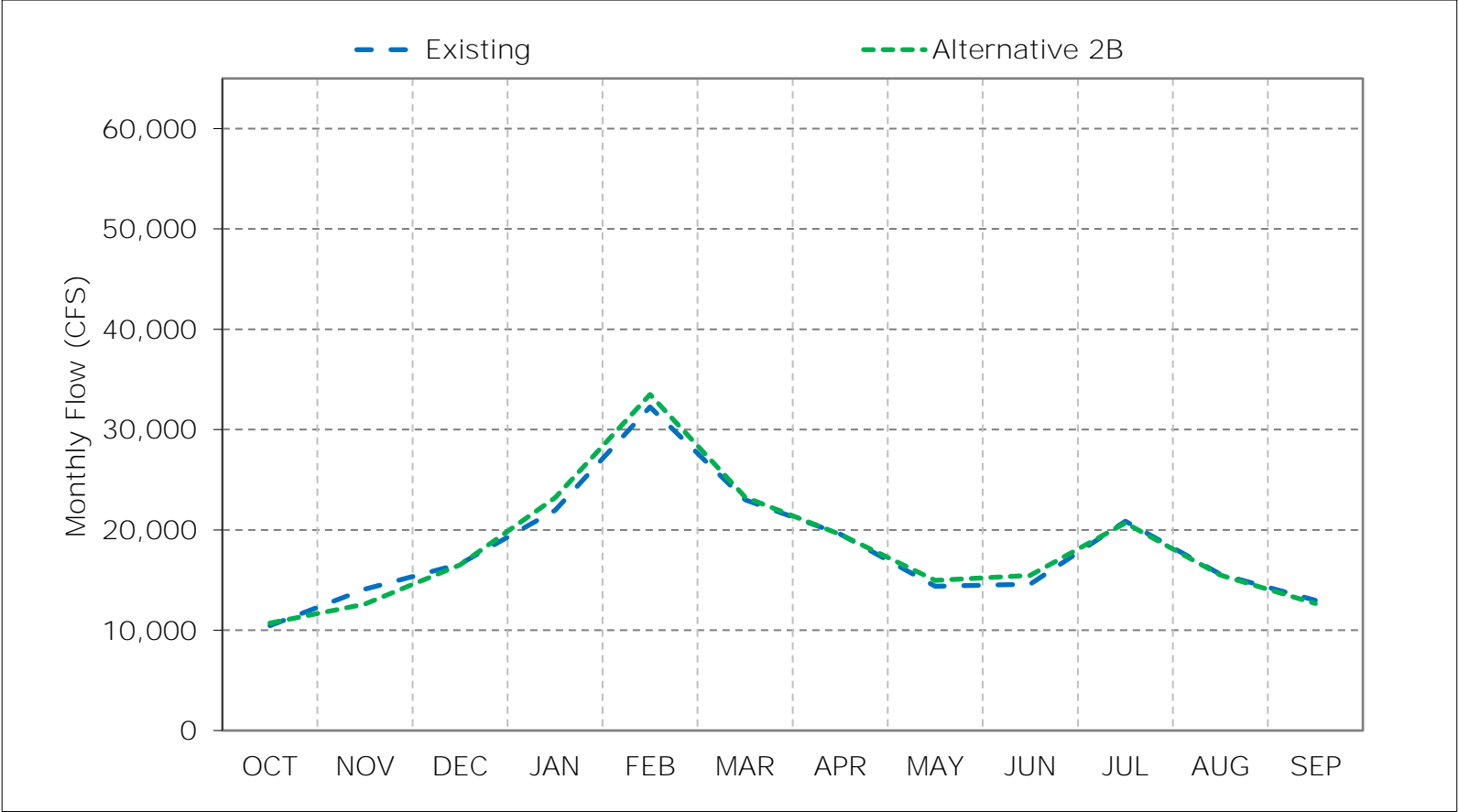
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 1-3. Sacramento River Flow at Freeport, Above Normal Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

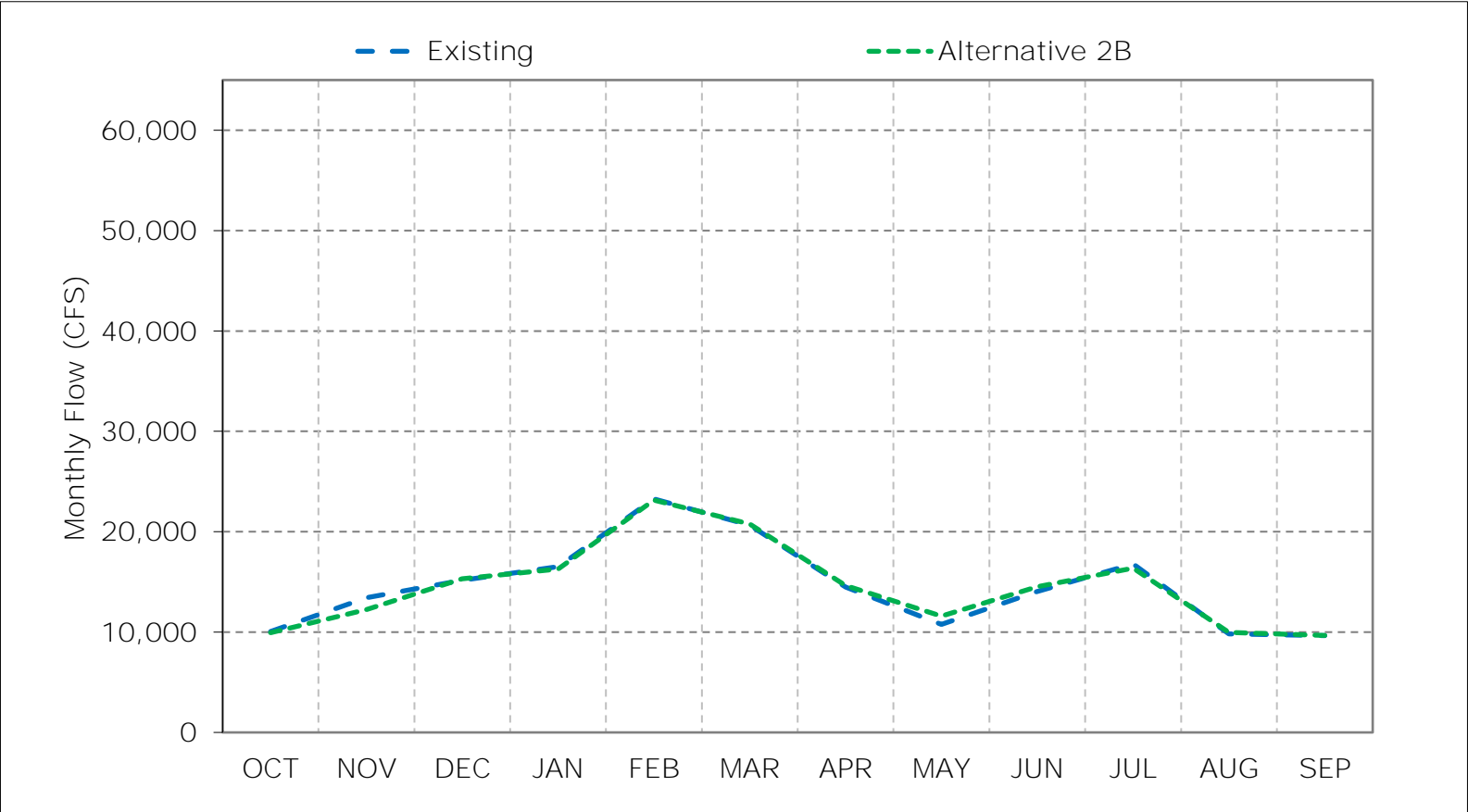
Figure 1-4. Sacramento River Flow at Freeport, Below Normal Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

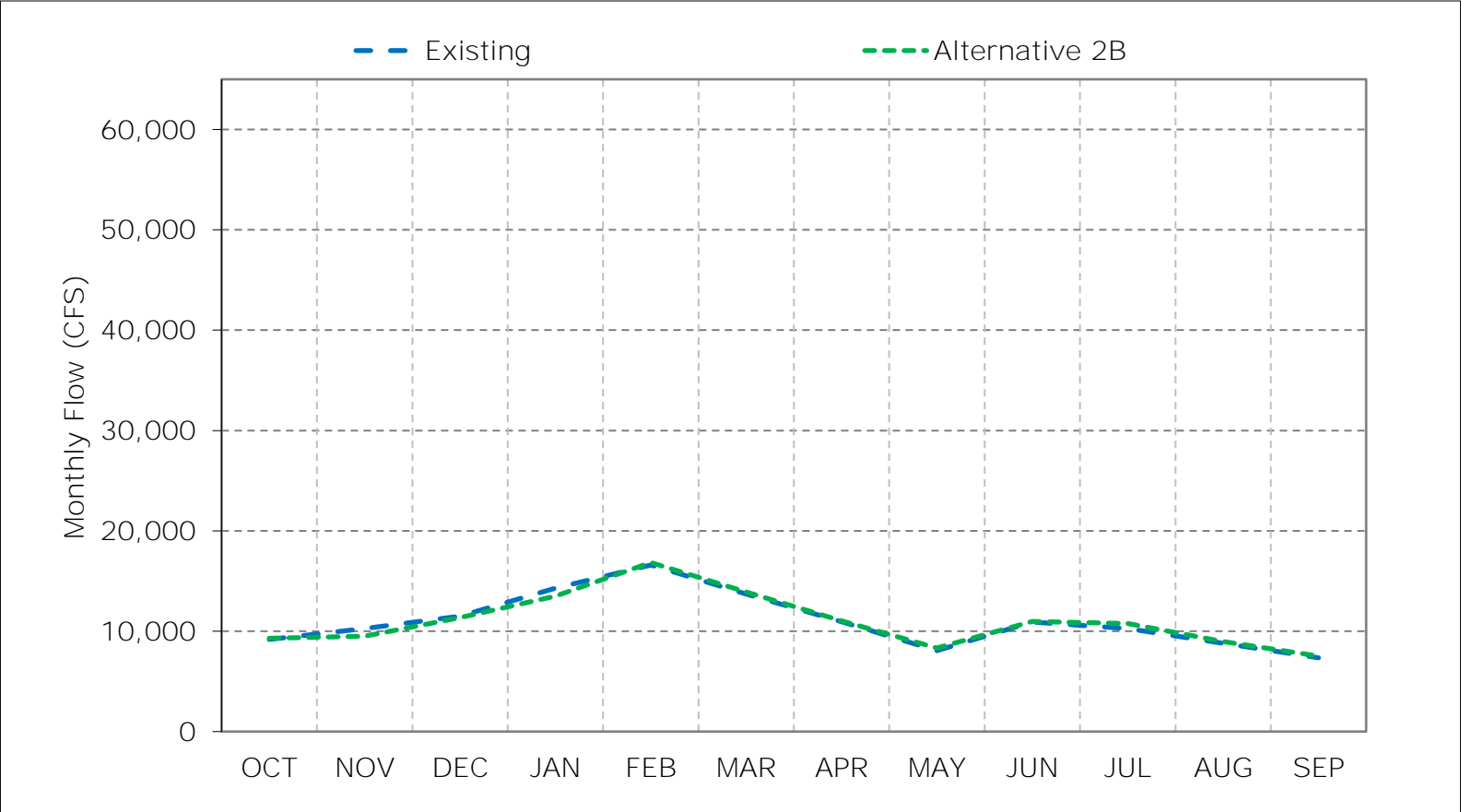


Figure 1-5. Sacramento River Flow at Freeport, Dry Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 1-6. Sacramento River Flow at Freeport, Critical Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 1-7. Sacramento River Flow at Freeport, October

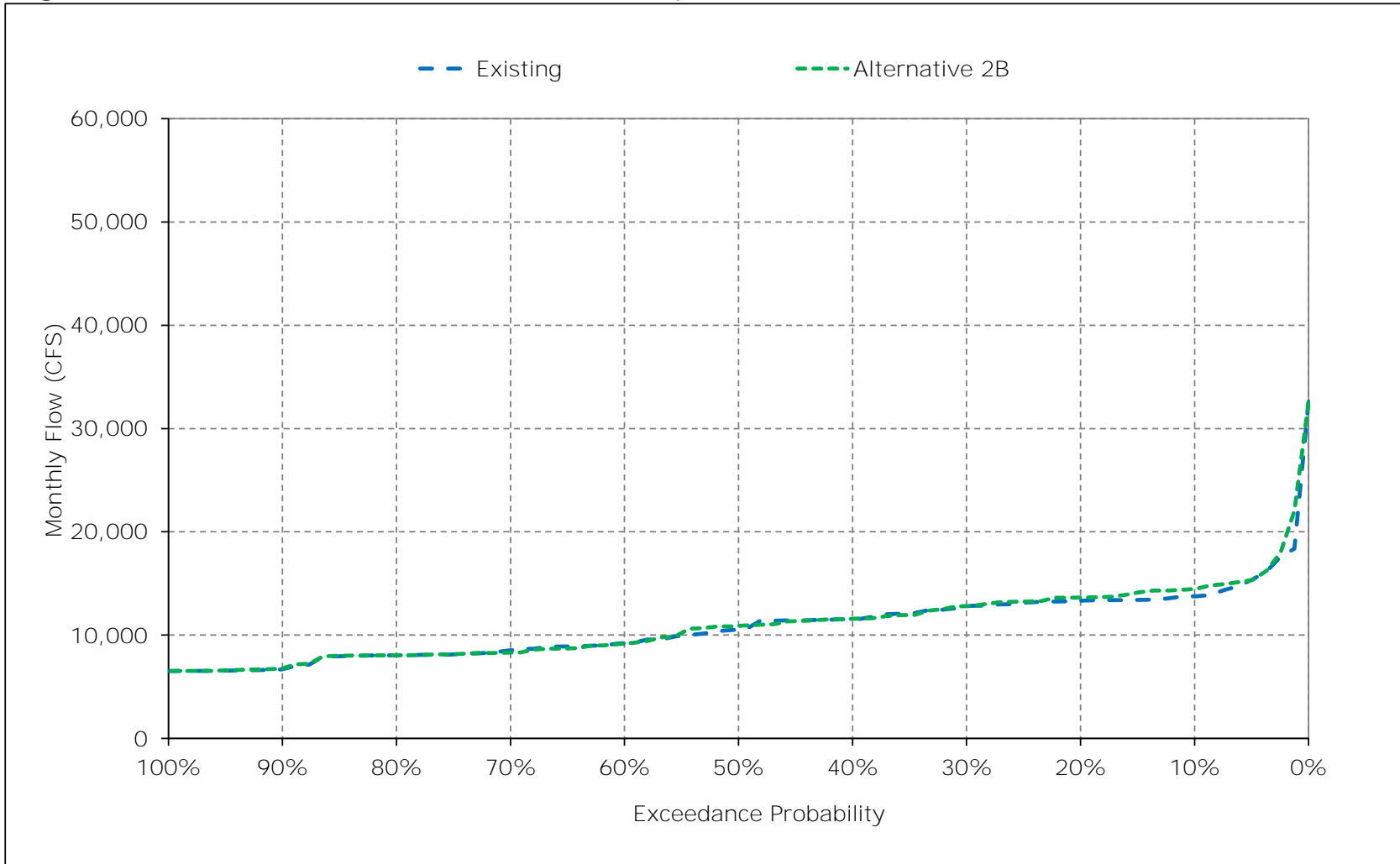


Figure 1-8. Sacramento River Flow at Freeport, November

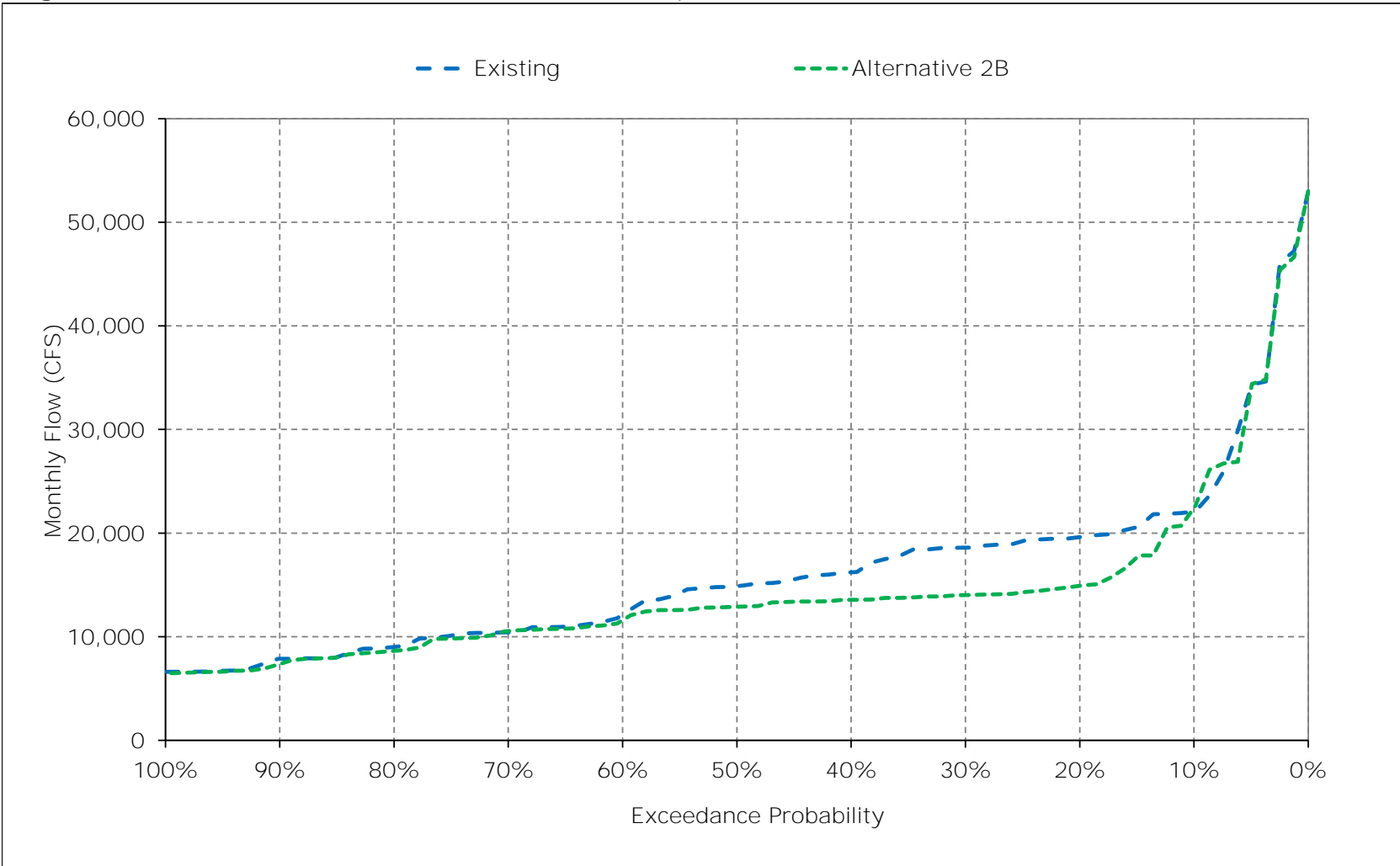


Figure 1-9. Sacramento River Flow at Freeport, December

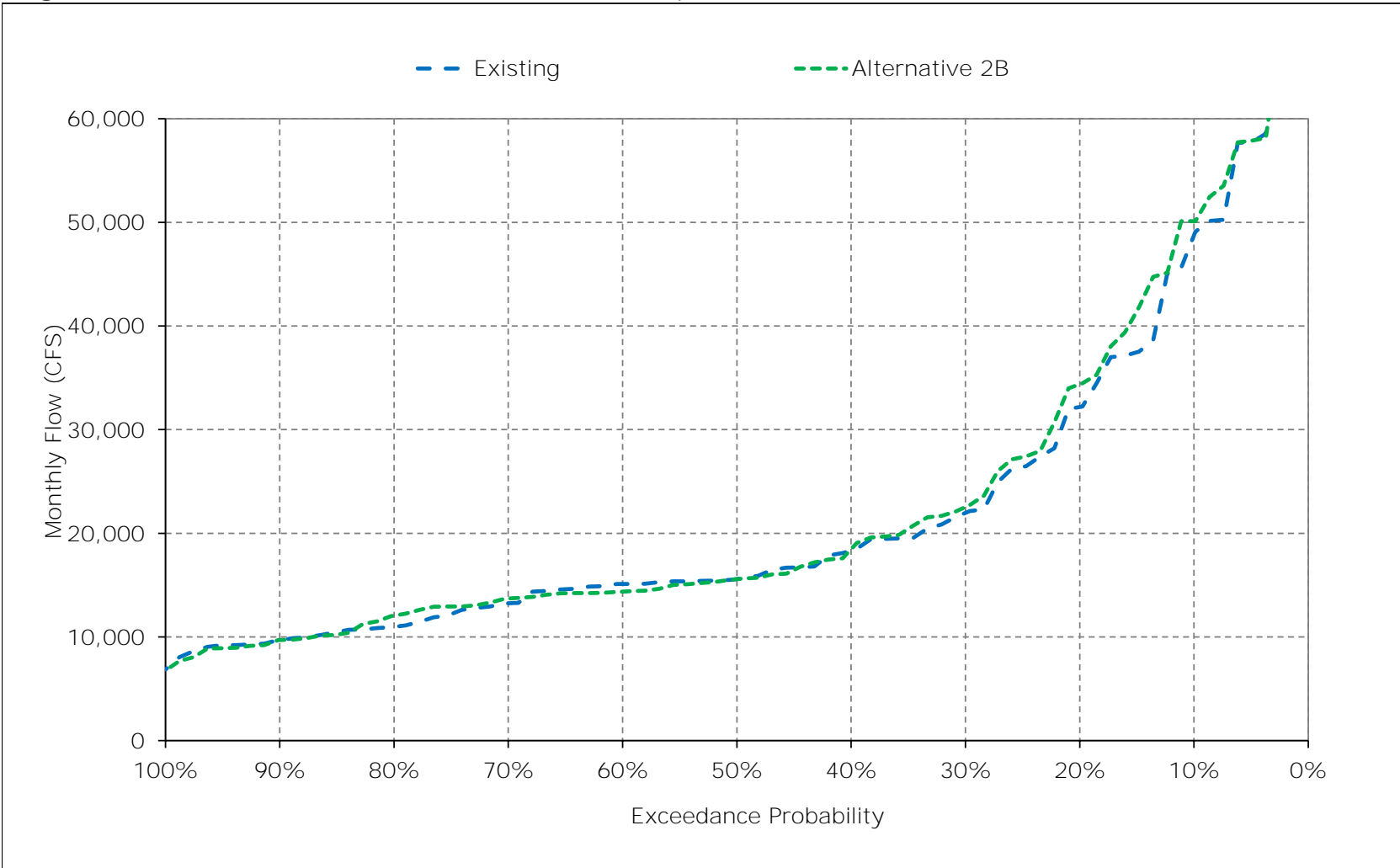


Figure 1-10. Sacramento River Flow at Freeport, January

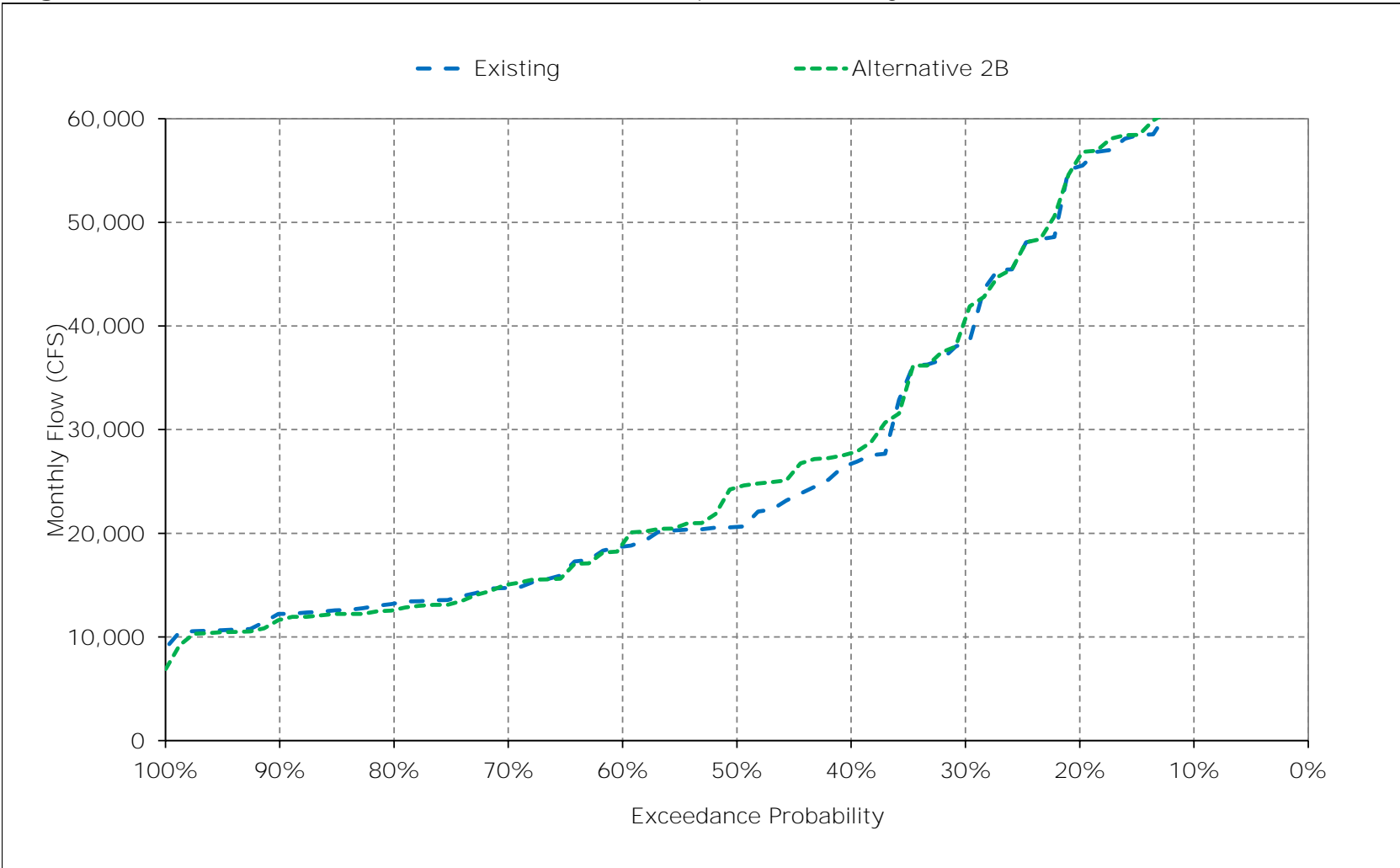


Figure 1-11. Sacramento River Flow at Freeport, February

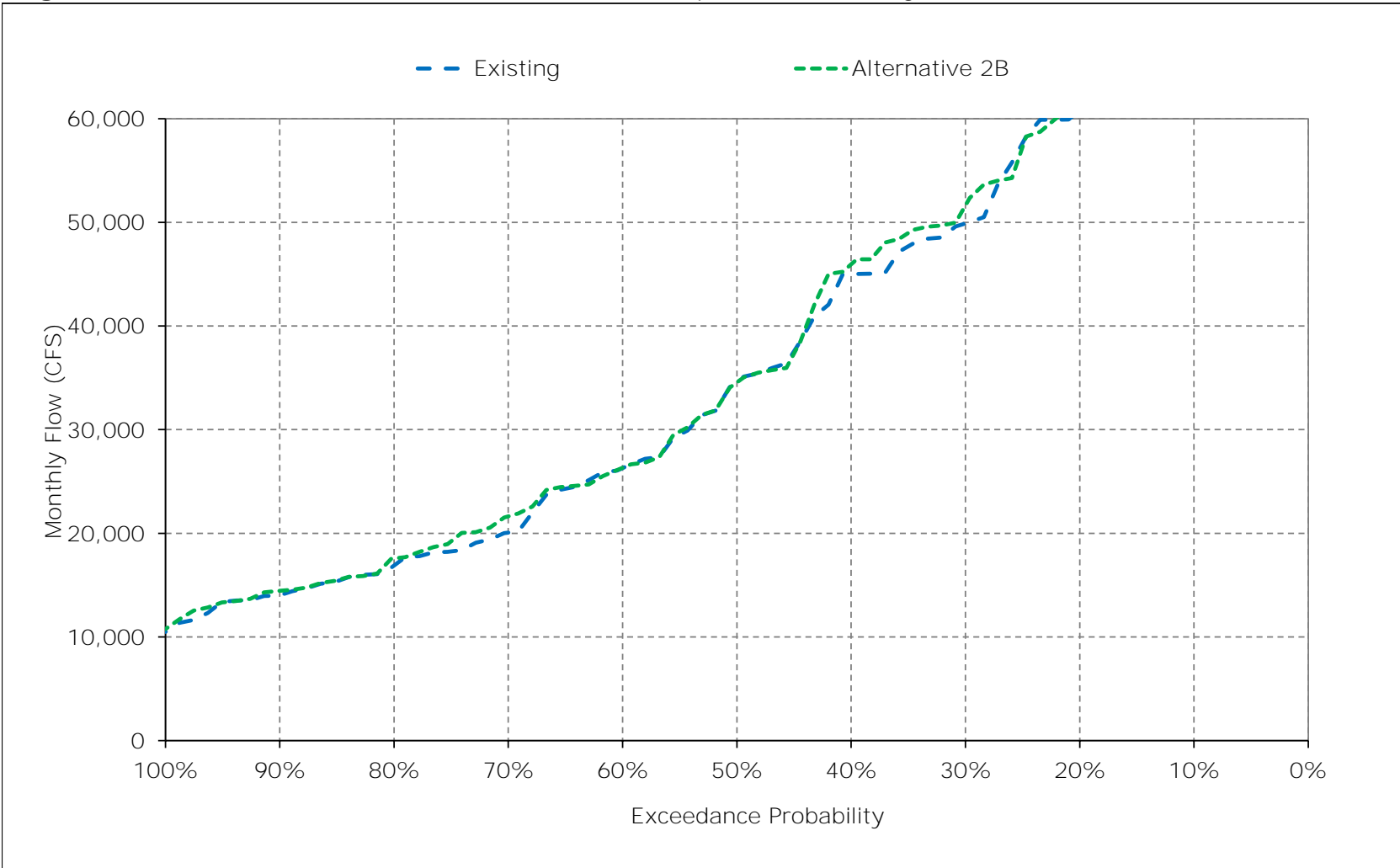


Figure 1-12. Sacramento River Flow at Freeport, March

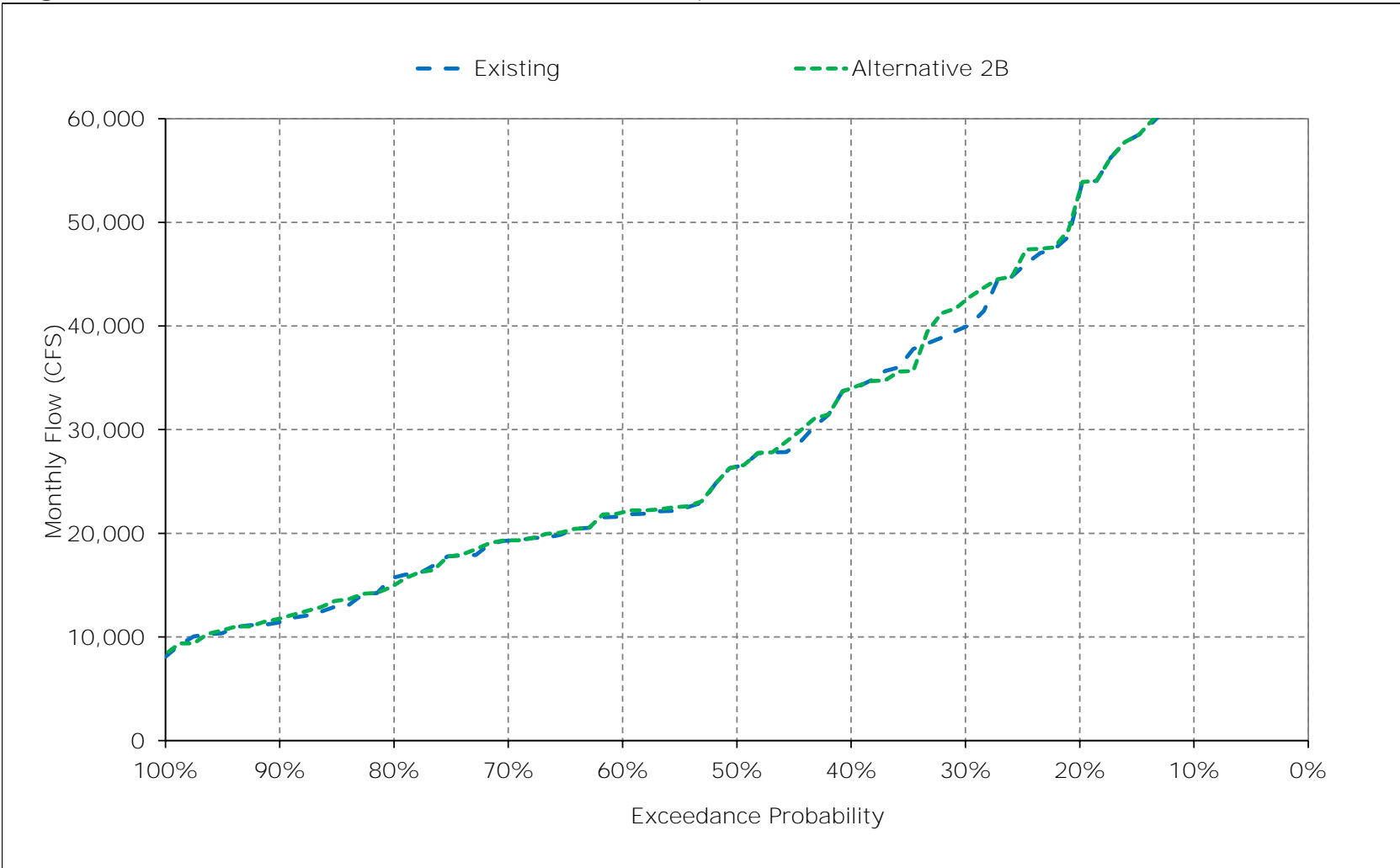




Figure 1-13. Sacramento River Flow at Freeport, April

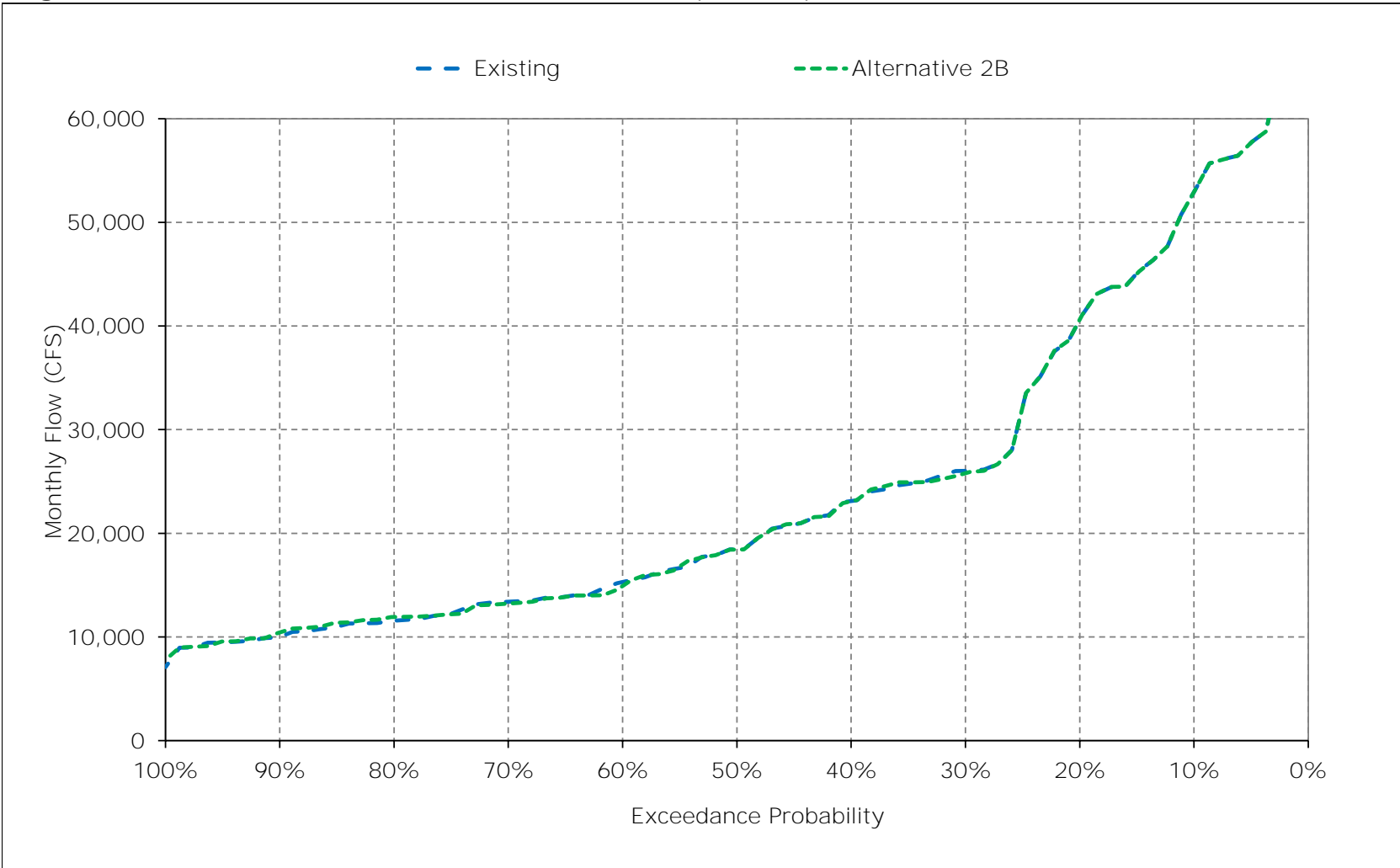


Figure 1-14. Sacramento River Flow at Freeport, May

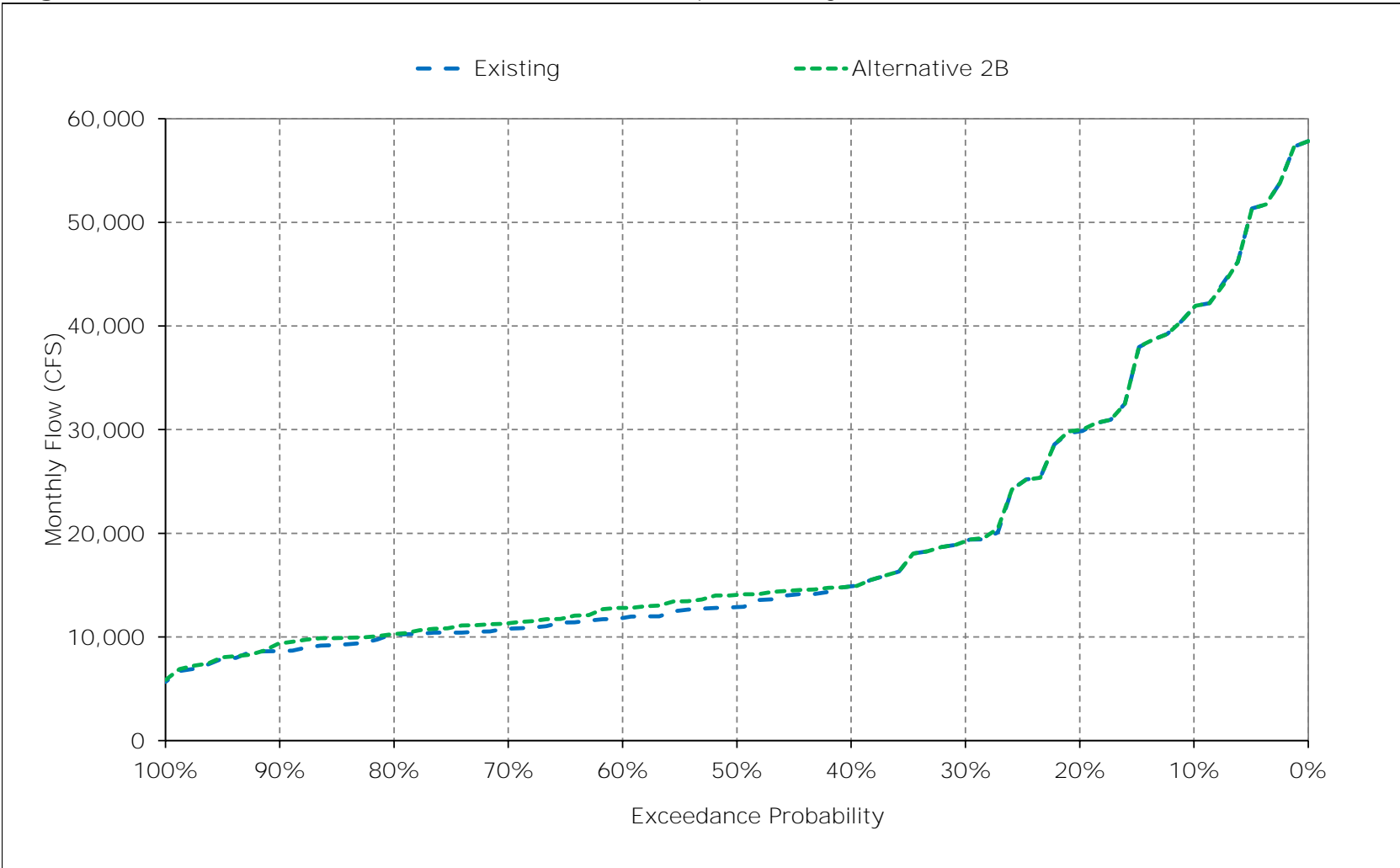


Figure 1-15. Sacramento River Flow at Freeport, June

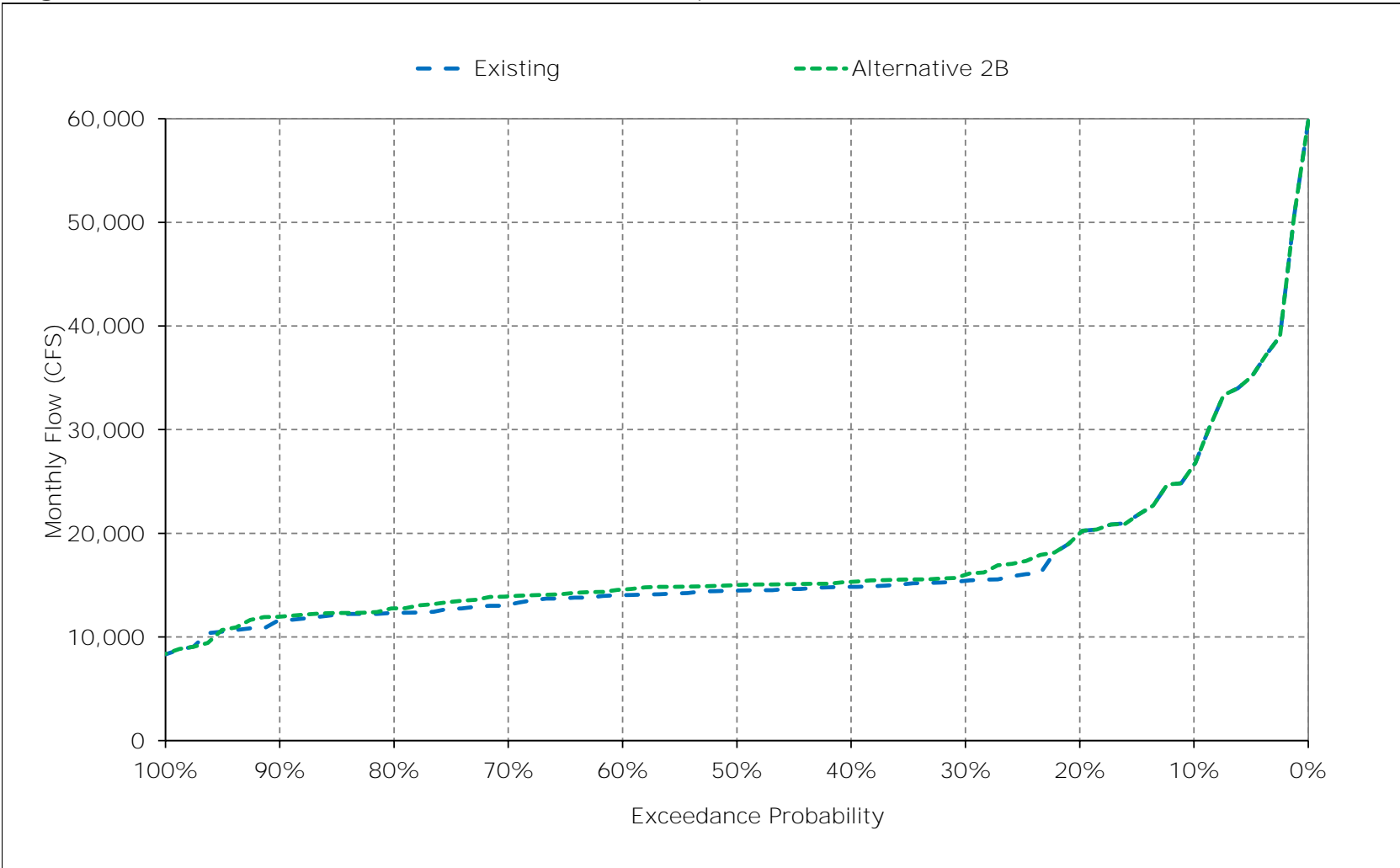


Figure 1-16. Sacramento River Flow at Freeport, July

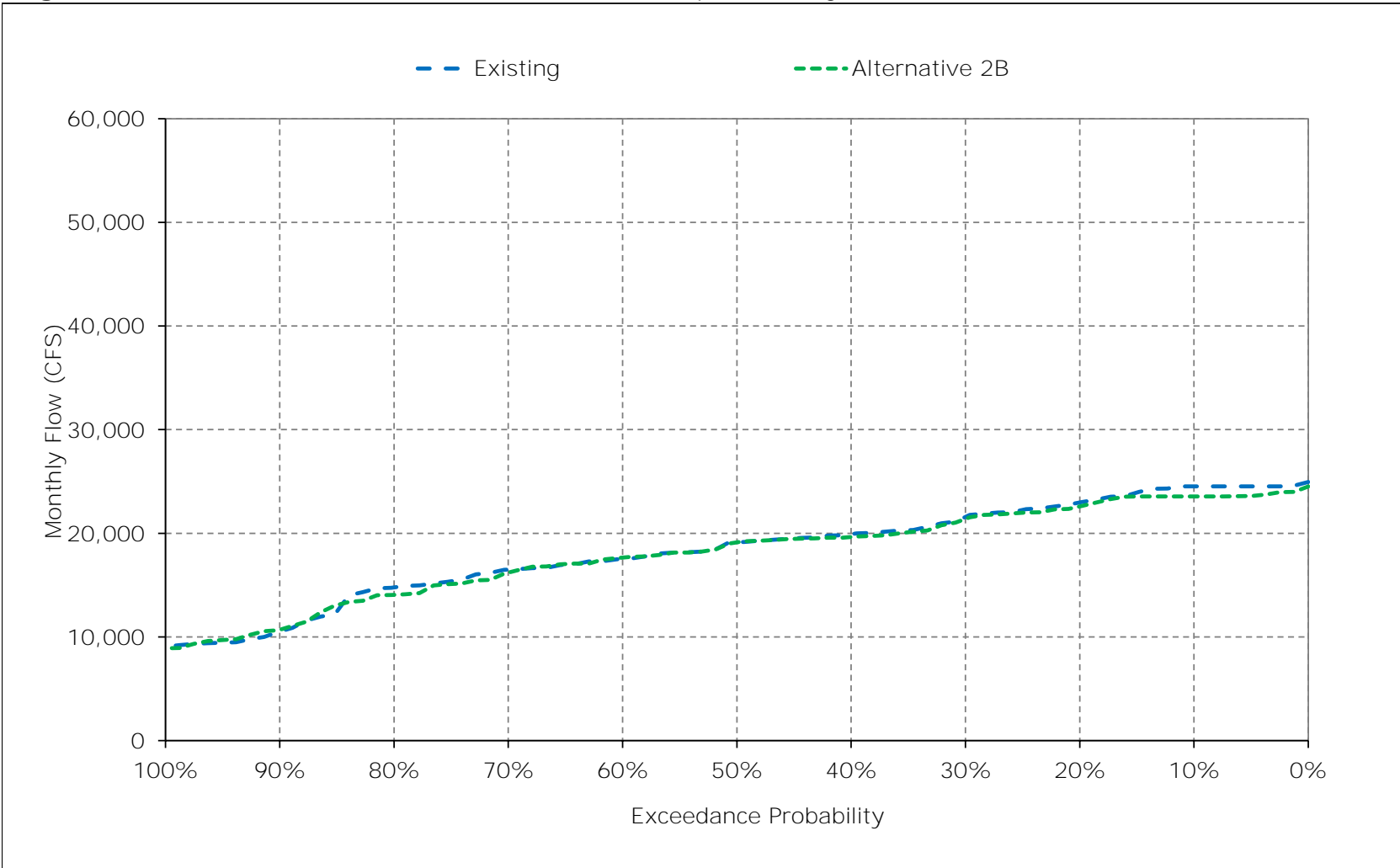


Figure 1-17. Sacramento River Flow at Freeport, August

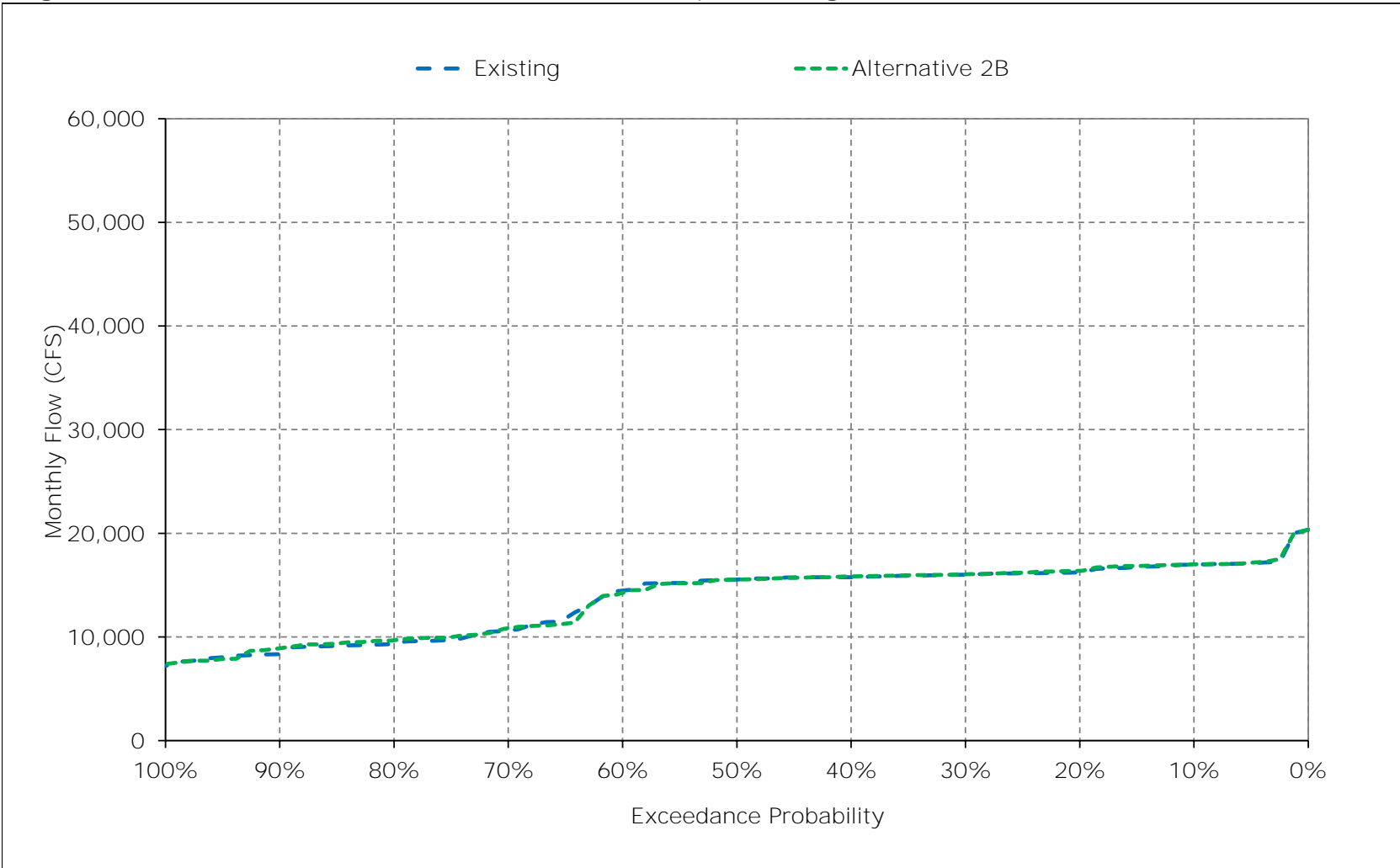


Figure 1-18. Sacramento River Flow at Freeport, September

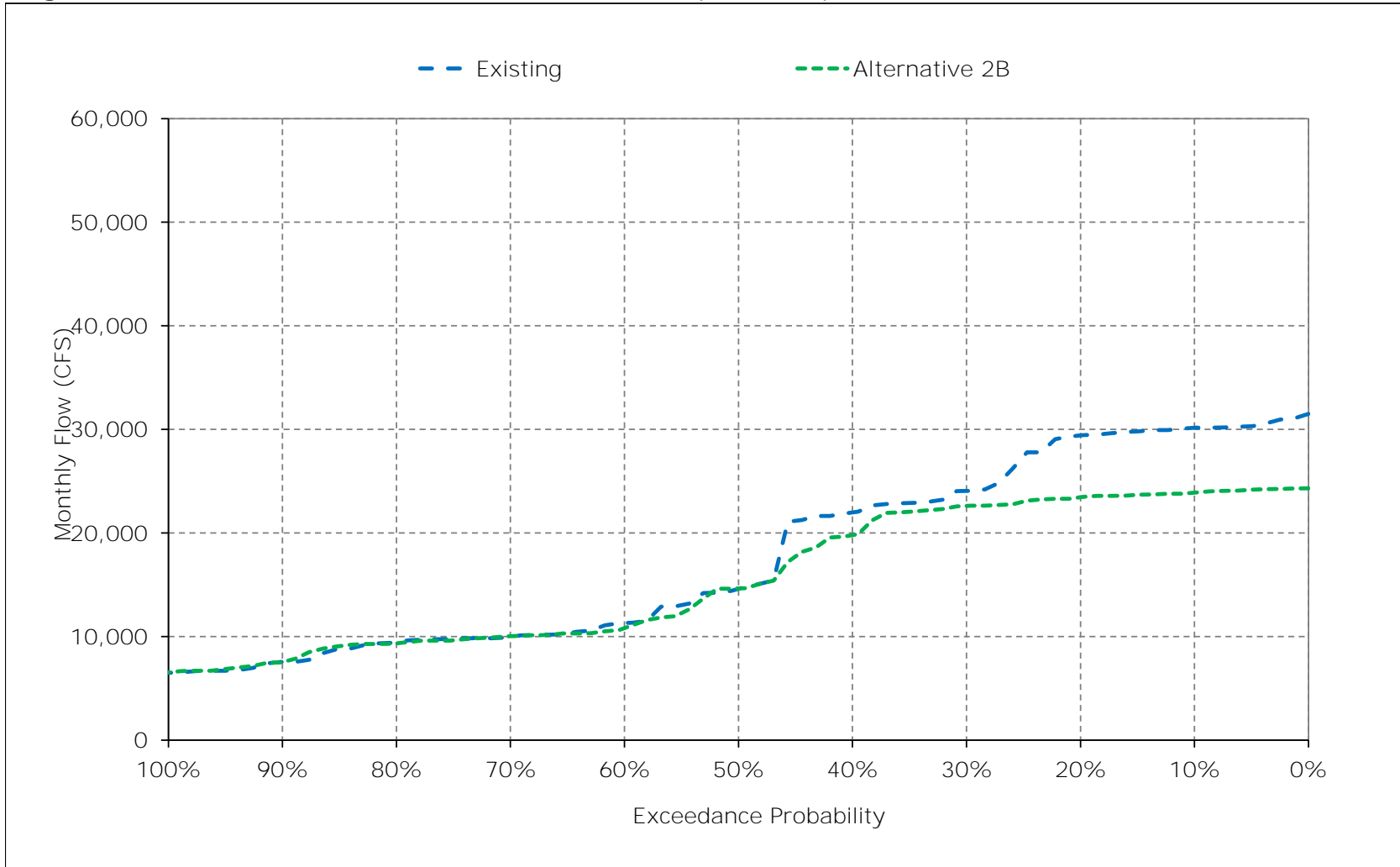


Table 2-1. Georgiana Slough, Monthly Flow

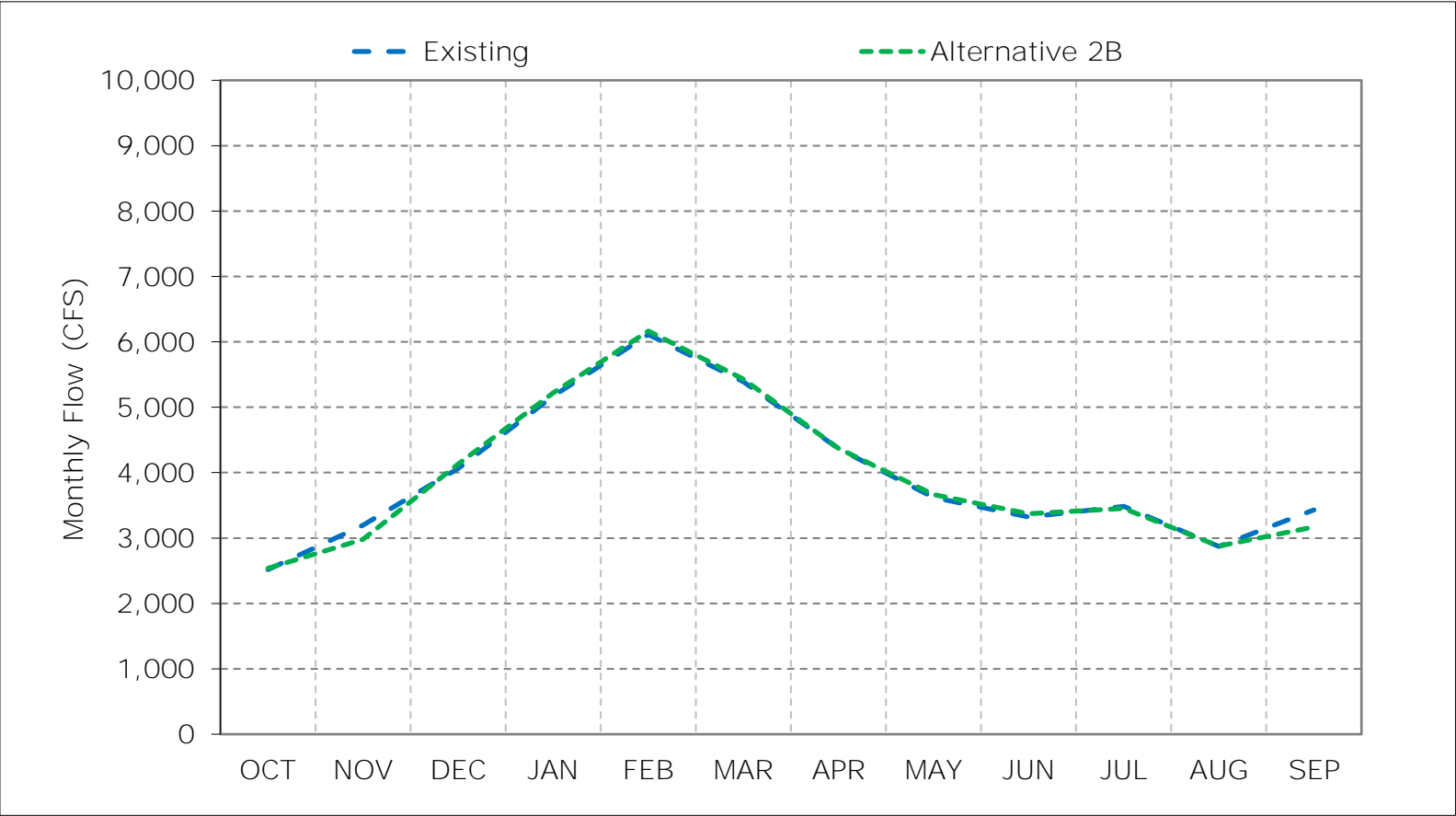
Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,894	4,016	7,532	9,442	10,171	9,326	8,070	6,594	4,577	4,298	3,309	5,056
20%	2,838	3,672	5,350	8,425	9,129	8,051	6,444	5,015	3,701	4,091	3,213	4,961
30%	2,761	3,549	3,984	6,172	7,686	6,360	4,518	3,610	3,093	3,908	3,181	4,254
40%	2,601	3,219	3,504	4,639	7,040	5,565	4,133	3,038	3,020	3,691	3,150	3,979
50%	2,467	3,047	3,144	3,834	5,668	4,581	3,519	2,772	2,970	3,588	3,122	3,004
60%	2,293	2,686	3,074	3,562	4,573	3,949	3,099	2,627	2,912	3,372	2,979	2,568
70%	2,203	2,455	2,835	3,037	3,735	3,629	2,844	2,491	2,789	3,236	2,469	2,395
80%	2,138	2,273	2,526	2,837	3,316	3,159	2,605	2,421	2,682	3,011	2,302	2,321
90%	1,960	2,118	2,364	2,700	2,935	2,586	2,397	2,213	2,592	2,441	2,176	2,071
Long Term												
Full Simulation Period <sup>a</sup>	2,516	3,197	4,067	5,171	6,112	5,389	4,366	3,621	3,321	3,483	2,872	3,428
Water Year Types <sup>b,c</sup>												
Wet (32%)	2,749	3,866	5,862	7,729	8,718	7,680	6,391	5,287	4,208	3,727	3,217	4,881
Above Normal (15%)	2,478	3,324	4,042	6,036	7,102	6,770	4,710	3,958	3,229	3,949	3,235	4,029
Below Normal (17%)	2,457	2,943	3,277	3,997	5,357	4,119	3,663	2,967	2,986	3,815	3,124	2,789
Dry (22%)	2,403	2,852	3,084	3,275	4,164	3,812	2,991	2,492	2,913	3,274	2,363	2,349
Critical (15%)	2,290	2,434	2,598	2,978	3,277	2,890	2,521	2,133	2,497	2,411	2,232	2,046
Alternative 2B												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,987	4,053	7,736	9,530	10,199	9,377	8,071	6,595	4,577	4,170	3,313	4,233
20%	2,879	3,049	5,623	8,539	9,204	8,068	6,445	5,038	3,702	4,046	3,230	4,174
30%	2,765	2,932	4,069	6,479	7,910	6,690	4,486	3,610	3,173	3,883	3,187	4,061
40%	2,608	2,869	3,544	4,764	7,164	5,572	4,129	3,037	3,080	3,655	3,161	3,690
50%	2,514	2,779	3,143	4,321	5,661	4,580	3,516	2,925	3,042	3,584	3,119	3,010
60%	2,289	2,610	2,982	3,597	4,576	3,993	3,049	2,761	2,986	3,389	2,950	2,504
70%	2,172	2,470	2,892	3,076	3,945	3,634	2,820	2,566	2,895	3,200	2,500	2,402
80%	2,138	2,219	2,670	2,756	3,409	3,058	2,651	2,425	2,742	2,914	2,349	2,310
90%	1,971	2,049	2,362	2,629	2,994	2,634	2,450	2,303	2,636	2,463	2,245	2,071
Long Term												
Full Simulation Period <sup>a</sup>	2,537	2,979	4,131	5,221	6,166	5,428	4,369	3,666	3,374	3,452	2,878	3,168
Water Year Types <sup>b,c</sup>												
Wet (32%)	2,792	3,578	6,078	7,800	8,760	7,703	6,384	5,292	4,217	3,683	3,211	4,006
Above Normal (15%)	2,500	3,022	4,010	6,182	7,182	6,897	4,705	3,964	3,332	3,881	3,243	4,164
Below Normal (17%)	2,491	2,744	3,267	4,161	5,521	4,157	3,661	3,047	3,103	3,790	3,113	2,748
Dry (22%)	2,386	2,698	3,107	3,245	4,148	3,827	3,011	2,602	2,974	3,219	2,385	2,351
Critical (15%)	2,303	2,333	2,578	2,872	3,310	2,916	2,530	2,167	2,505	2,474	2,254	2,069
Alternative 2B minus Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	93	36	204	88	28	50	1	0	0	-128	4	-824
20%	41	-624	273	114	75	17	1	22	1	-45	17	-787
30%	4	-618	85	306	225	330	-32	0	81	-25	6	-192
40%	7	-350	40	125	124	6	-4	-1	60	-36	11	-289
50%	47	-268	-1	487	-7	-1	-3	153	72	-3	-3	6
60%	-5	-75	-92	35	3	44	-49	134	73	16	-30	-64
70%	-30	15	57	39	210	5	-24	75	106	-37	32	7
80%	0	-53	144	-81	93	-102	47	4	60	-97	46	-12
90%	11	-69	-2	-72	59	49	53	90	44	22	69	0
Long Term												
Full Simulation Period <sup>a</sup>	21	-218	64	50	54	40	3	45	52	-31	6	-261
Water Year Types <sup>b,c</sup>												
Wet (32%)	43	-288	216	71	42	23	-6	5	10	-44	-5	-875
Above Normal (15%)	22	-303	-32	145	80	128	-5	6	102	-68	9	135
Below Normal (17%)	35	-198	-10	164	164	37	-2	79	117	-25	-11	-41
Dry (22%)	-17	-154	23	-30	-16	15	20	110	60	-55	22	2
Critical (15%)	13	-101	-20	-106	33	26	10	34	8	63	22	23

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 water year - year type sorting.

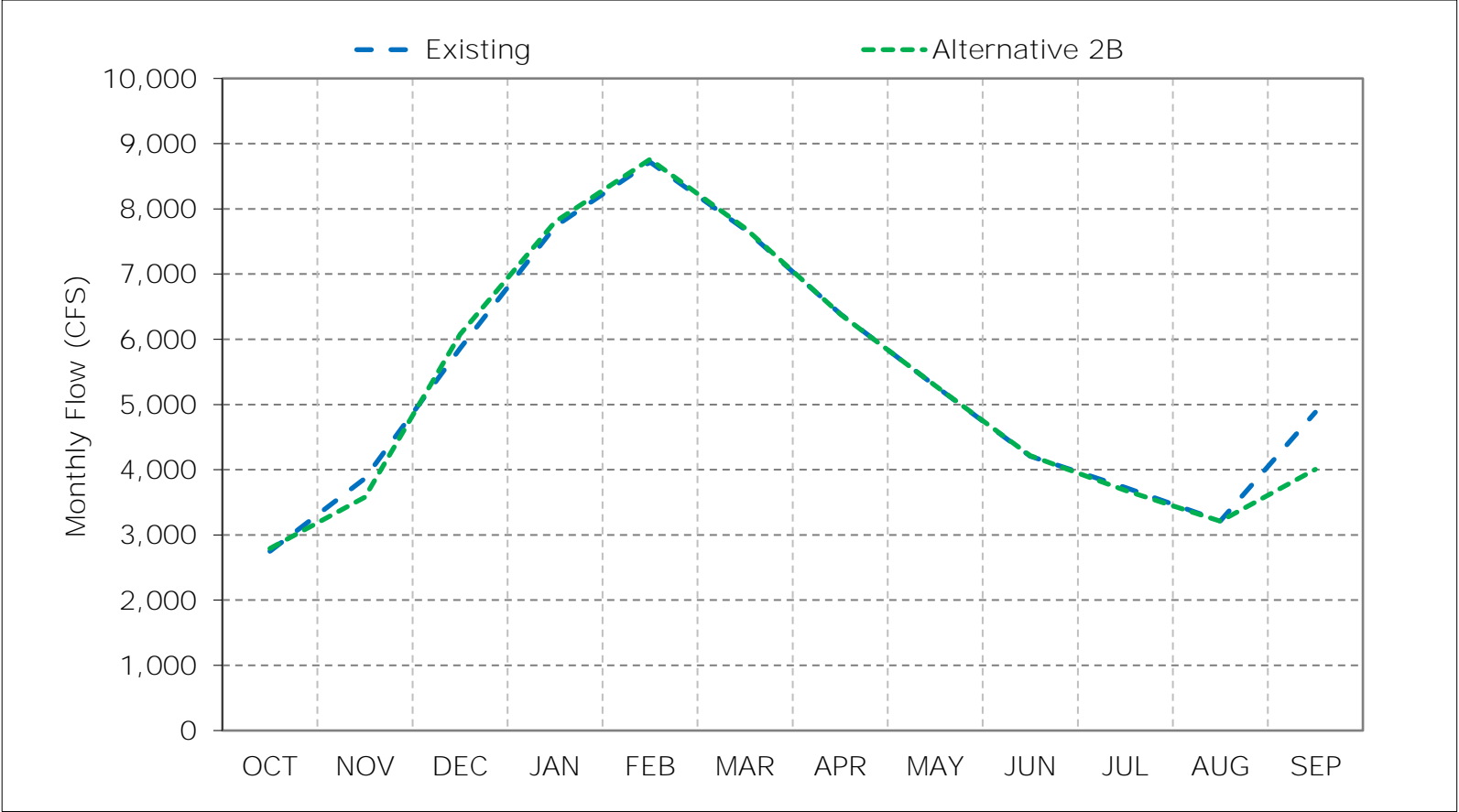
Figure 2-1. Georgiana Slough, Long-Term Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.



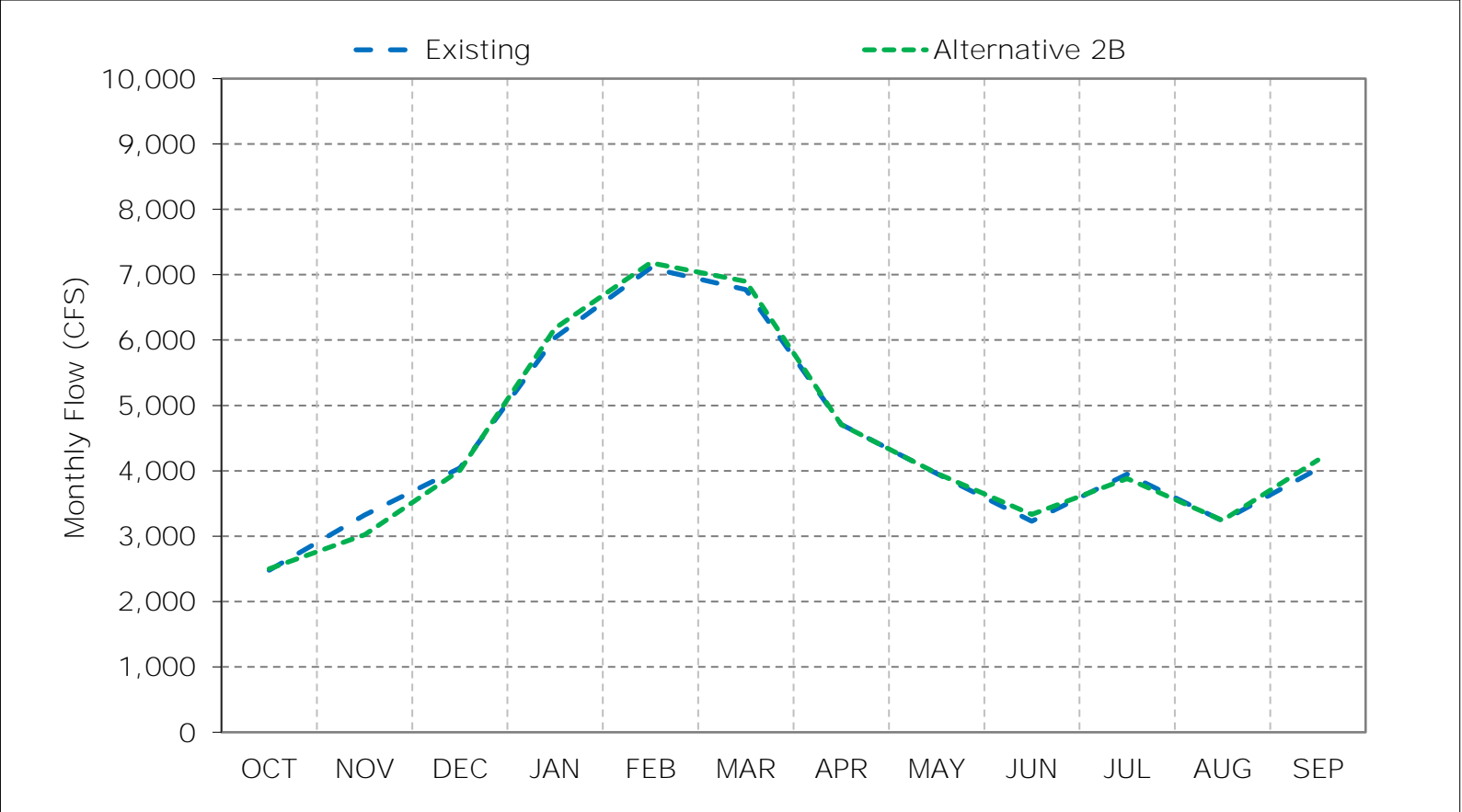
Figure 2-2. Georgiana Slough, Wet Year Average Flow



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

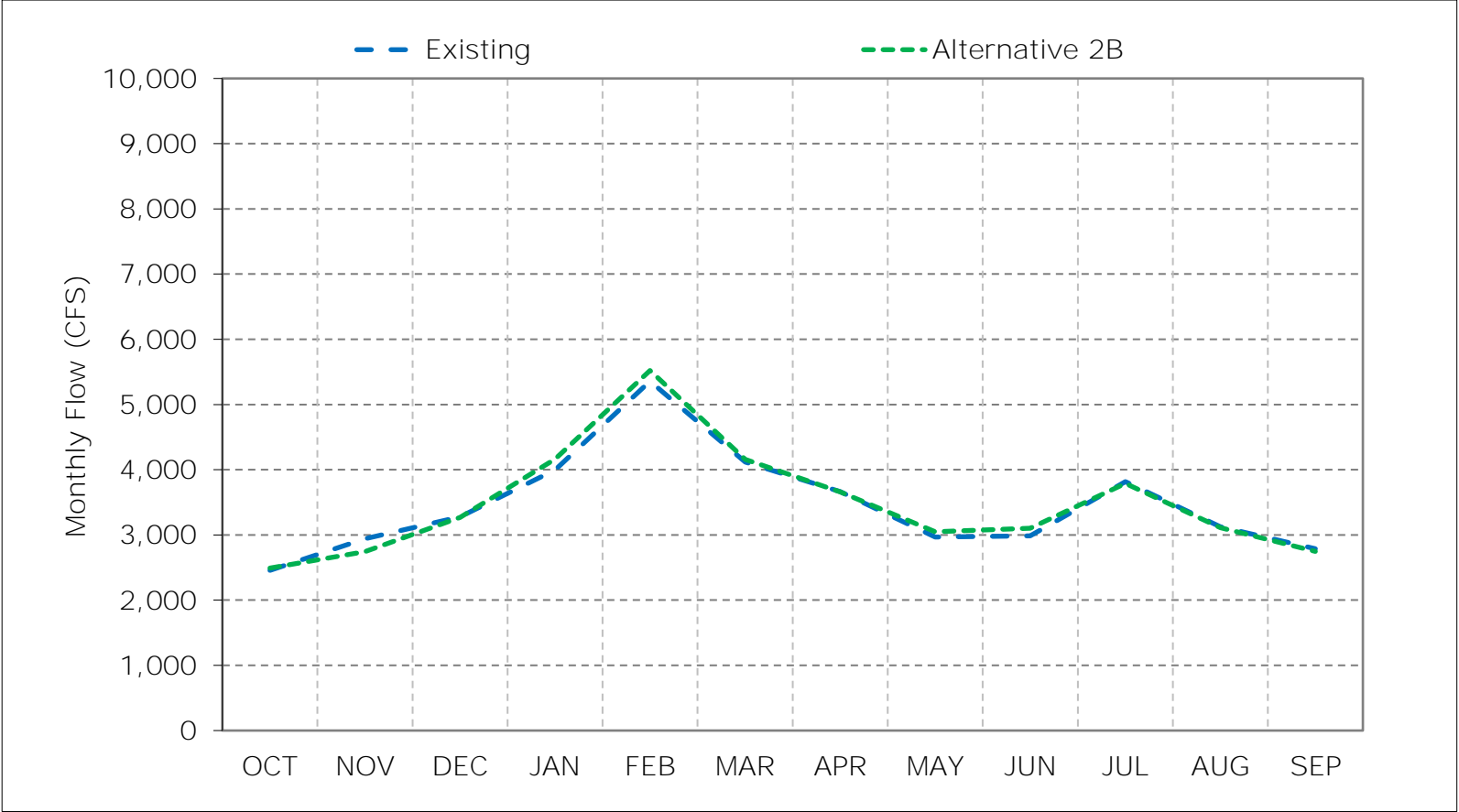
\*These results are displayed with water year - year type sorting.

Figure 2-3. Georgiana Slough, Above Normal Year Average Flow



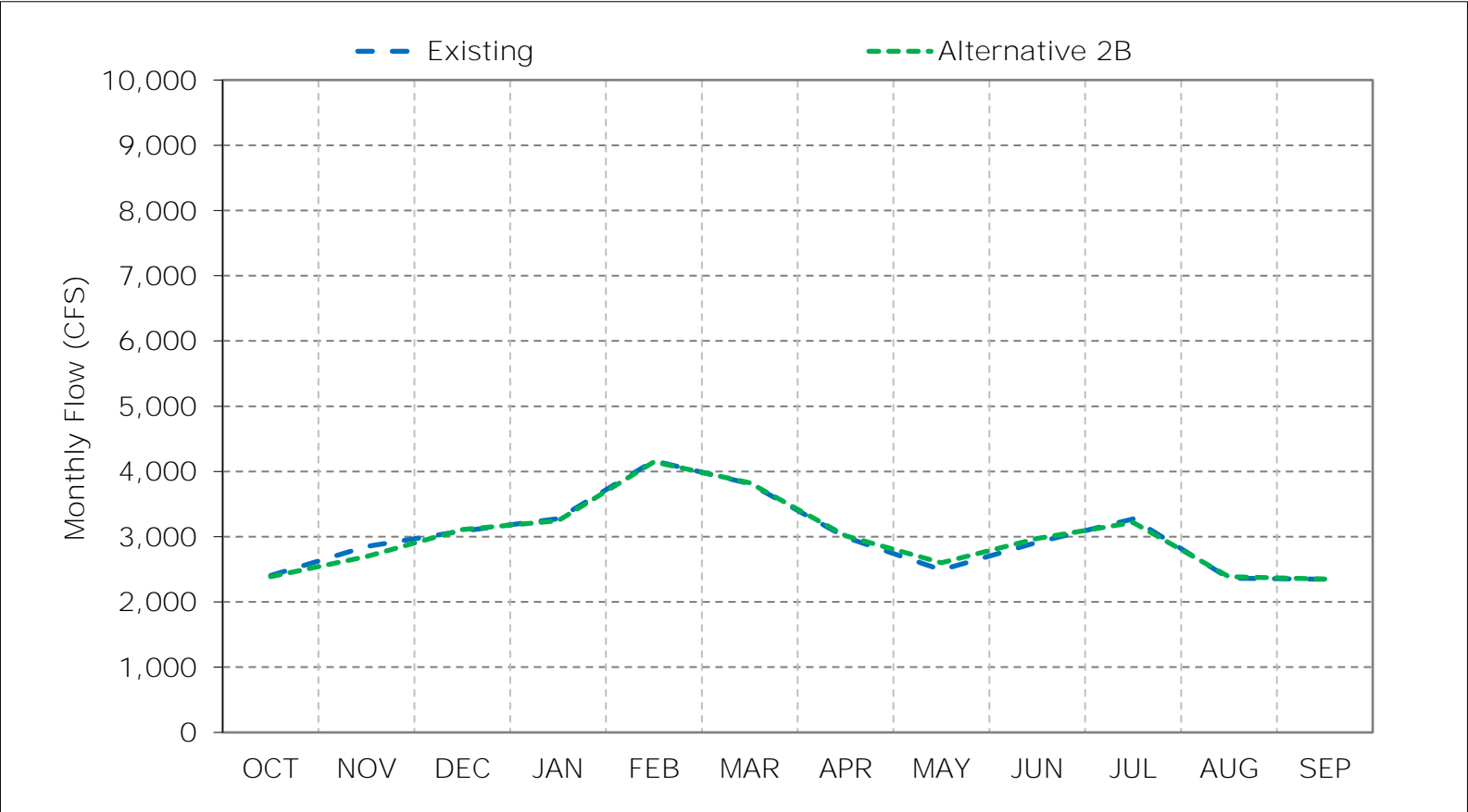
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 2-4. Georgiana Slough, Below Normal Year Average Flow



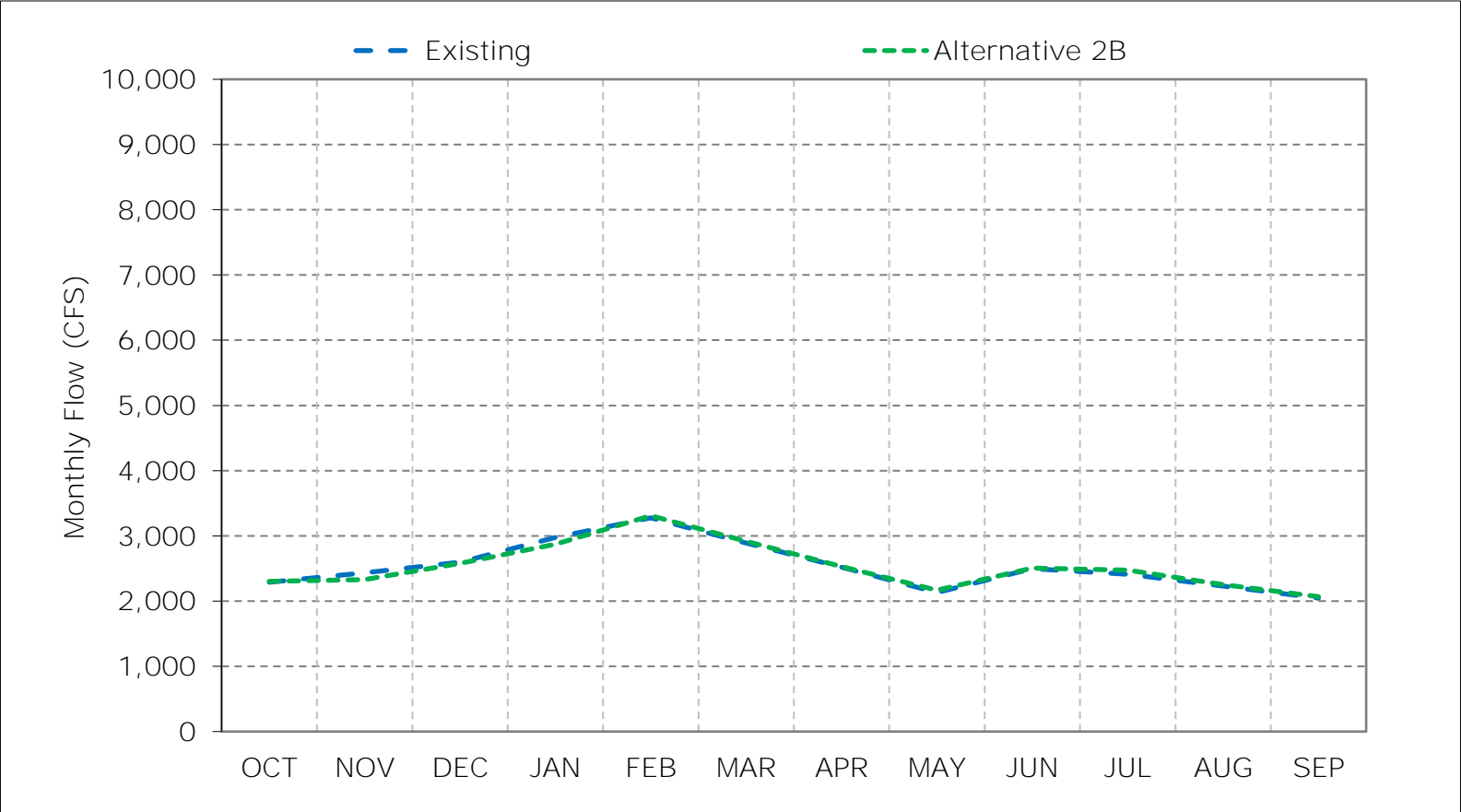
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 2-5. Georgiana Slough, Dry Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 2-6. Georgiana Slough, Critical Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 2-7. Georgiana Slough, October

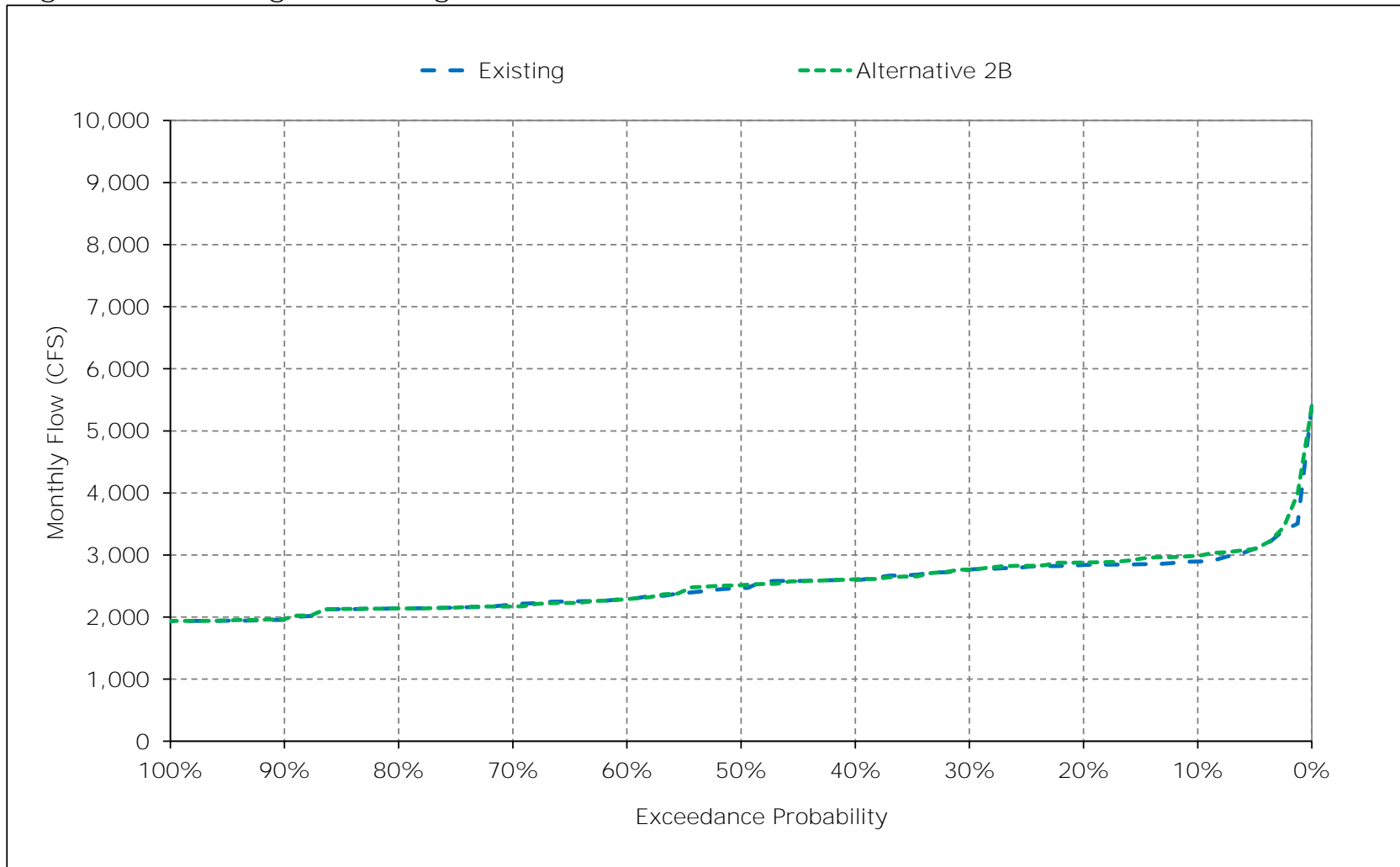


Figure 2-8. Georgiana Slough, November

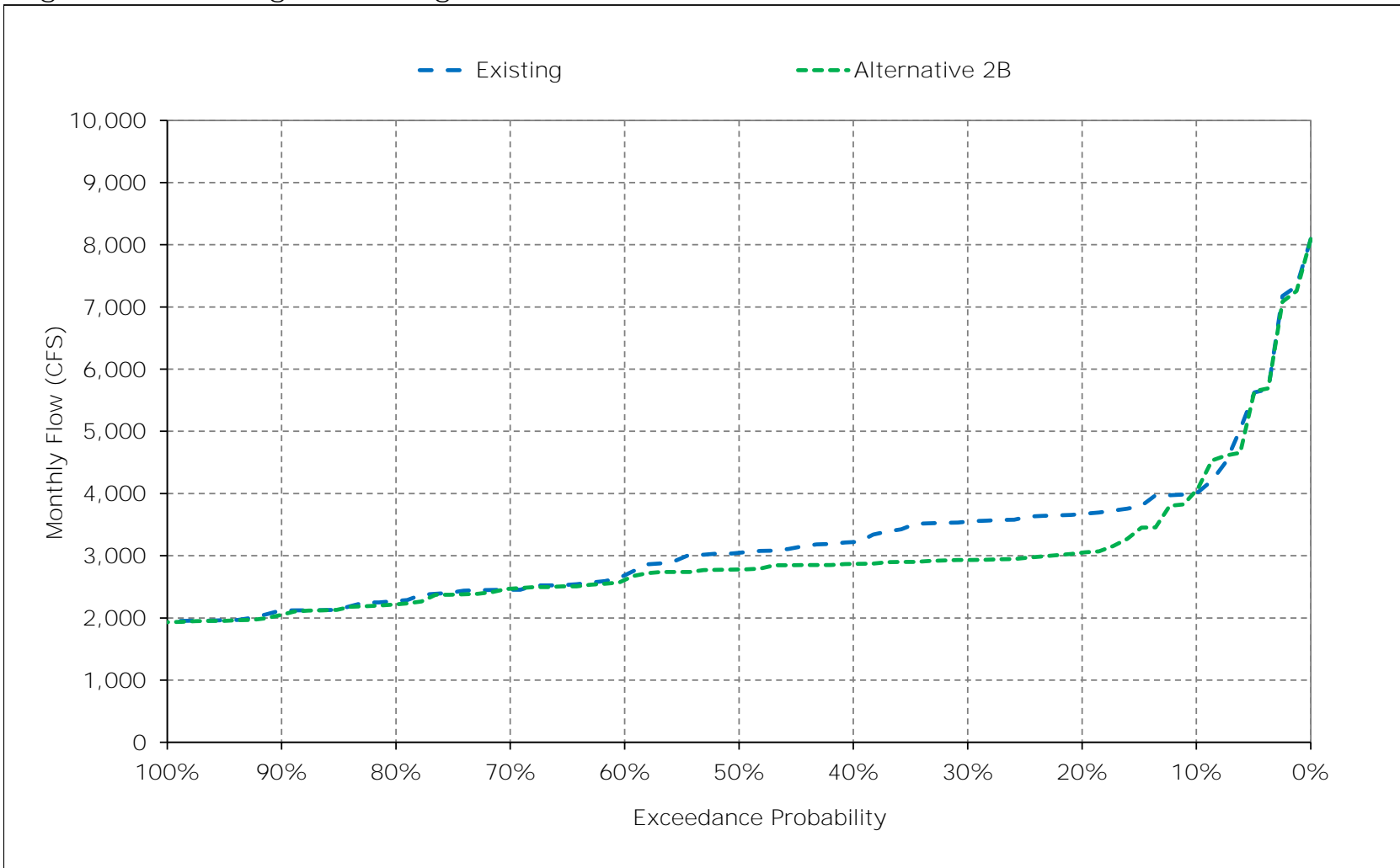


Figure 2-9. Georgiana Slough, December

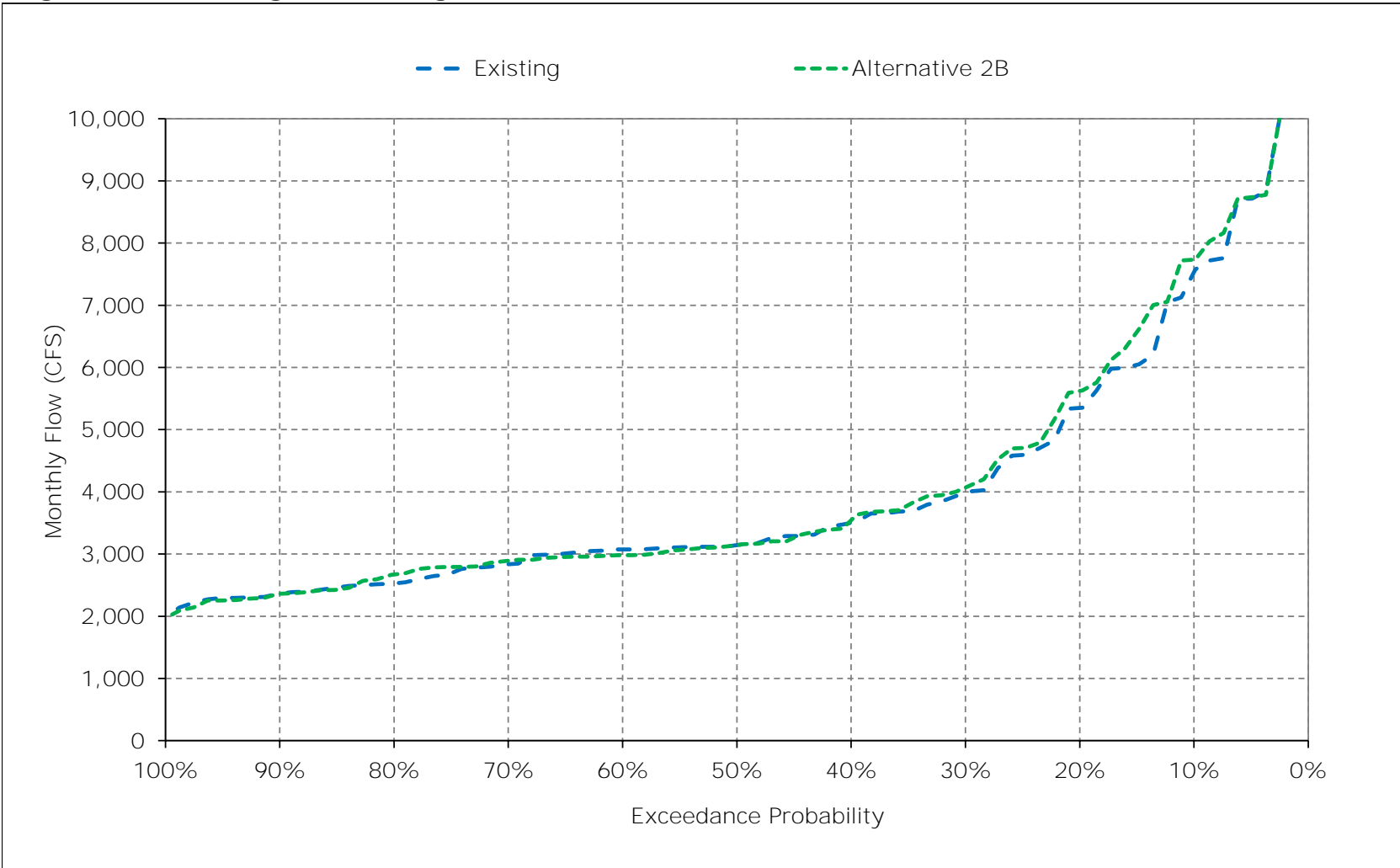




Figure 2-10. Georgiana Slough, January

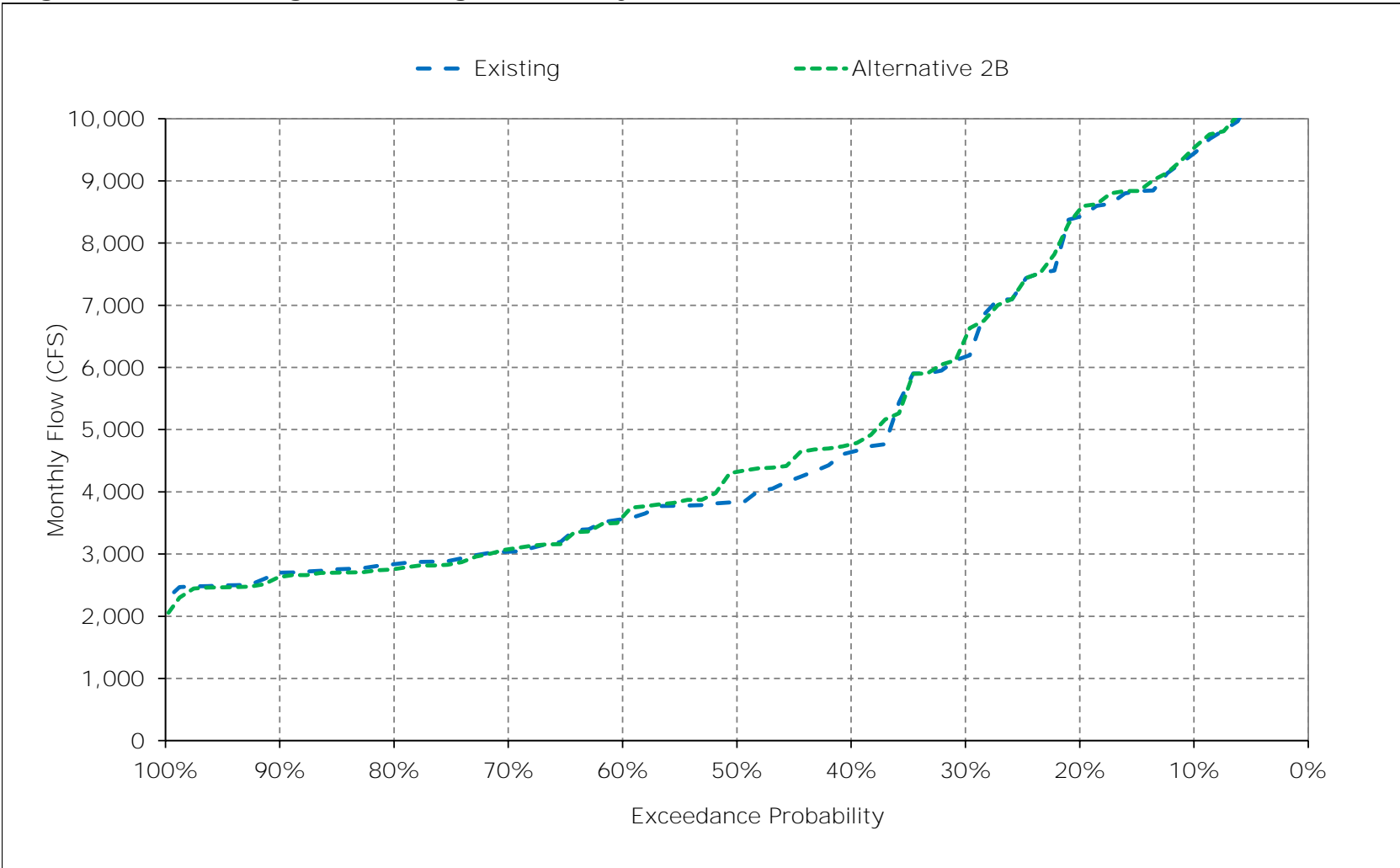


Figure 2-11. Georgiana Slough, February

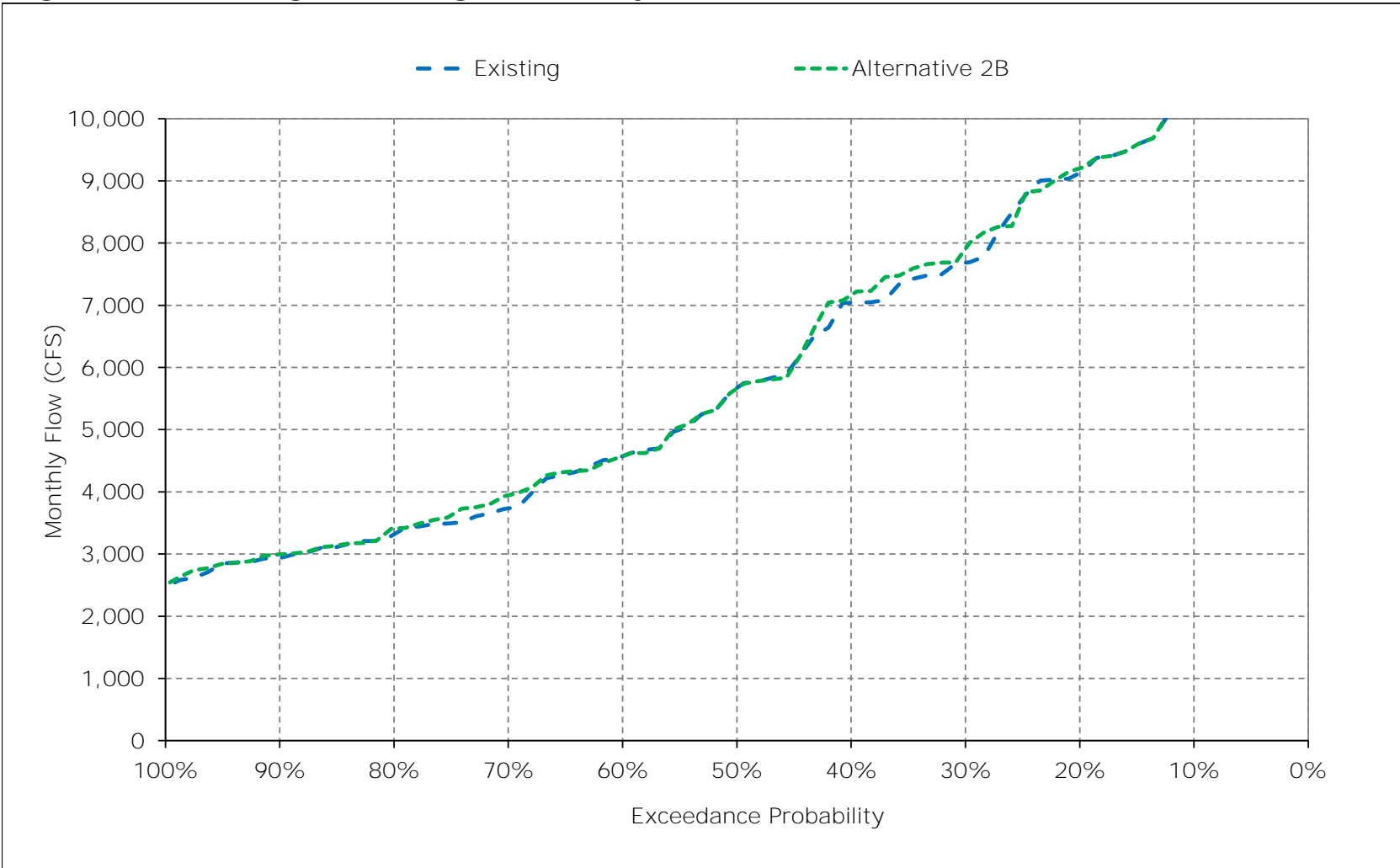


Figure 2-12. Georgiana Slough, March

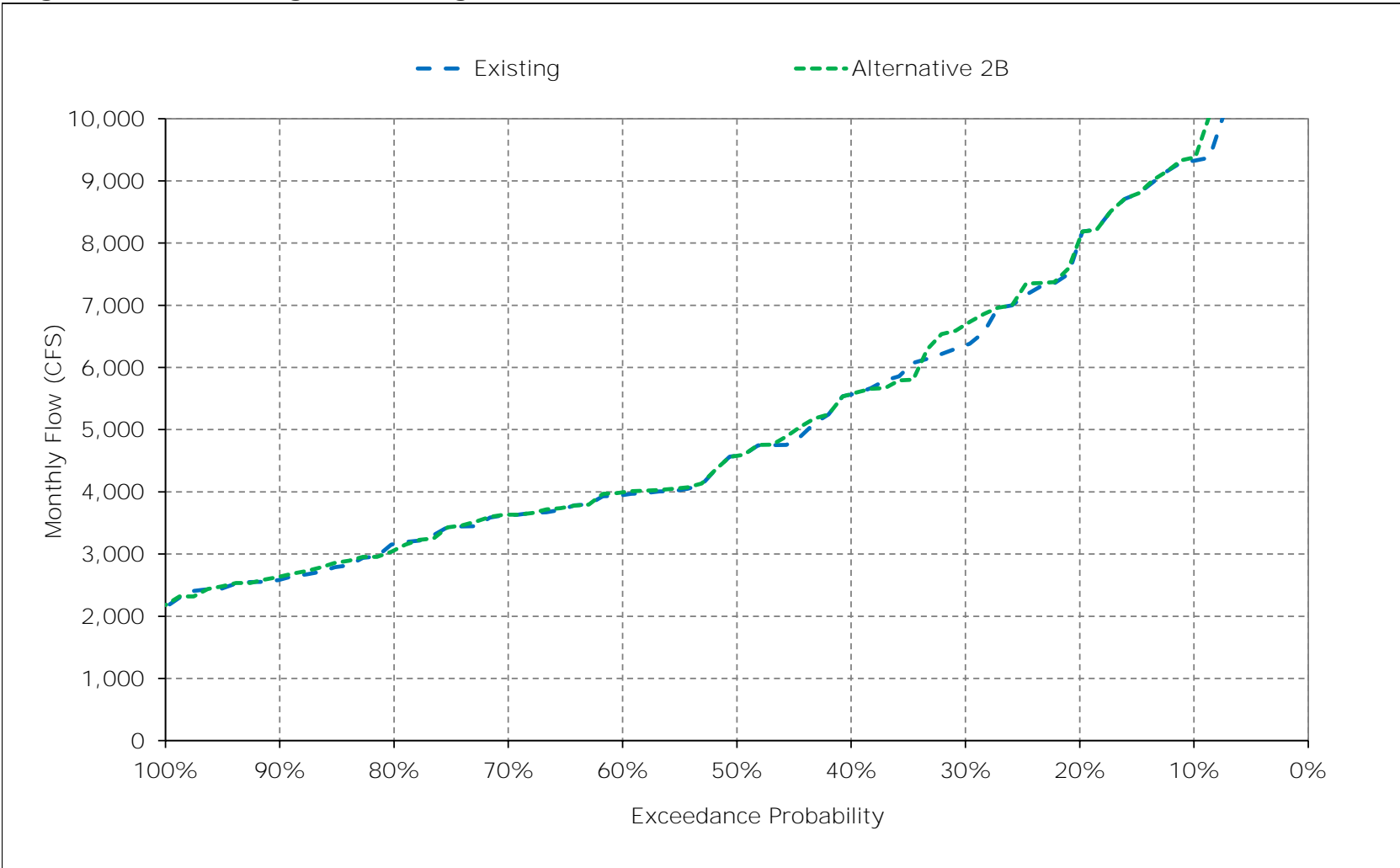


Figure 2-13. Georgiana Slough, April

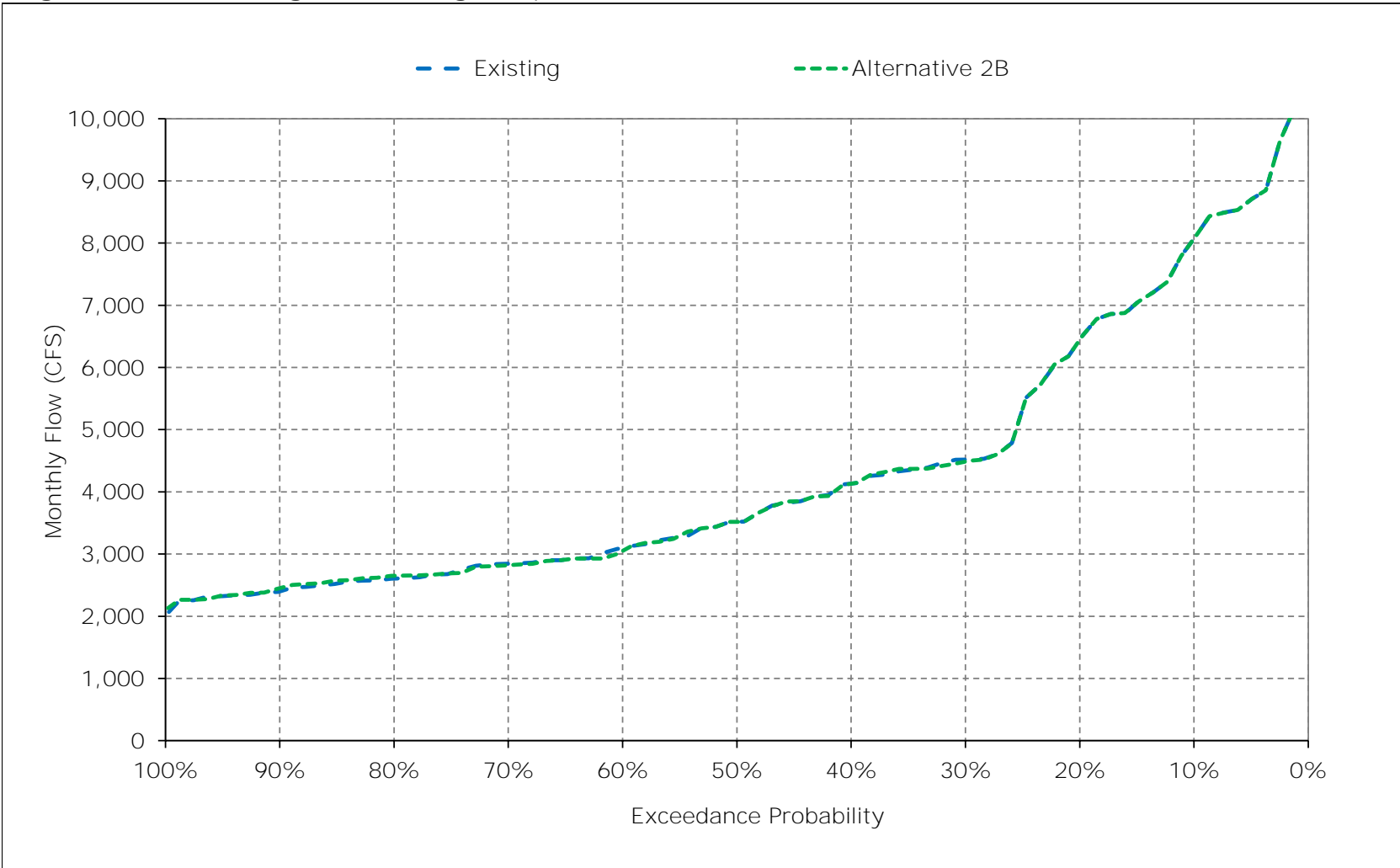


Figure 2-14. Georgiana Slough, May

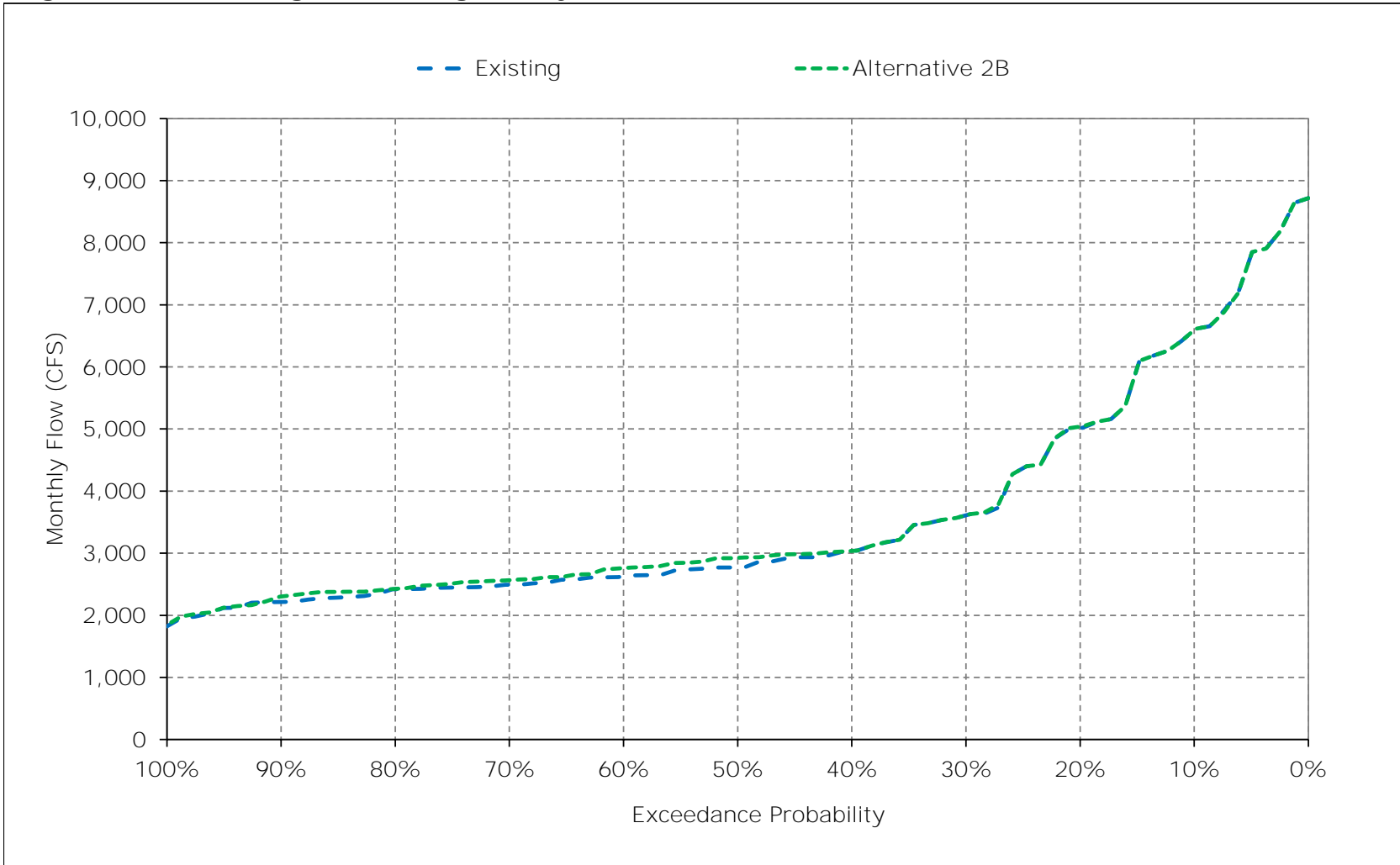


Figure 2-15. Georgiana Slough, June

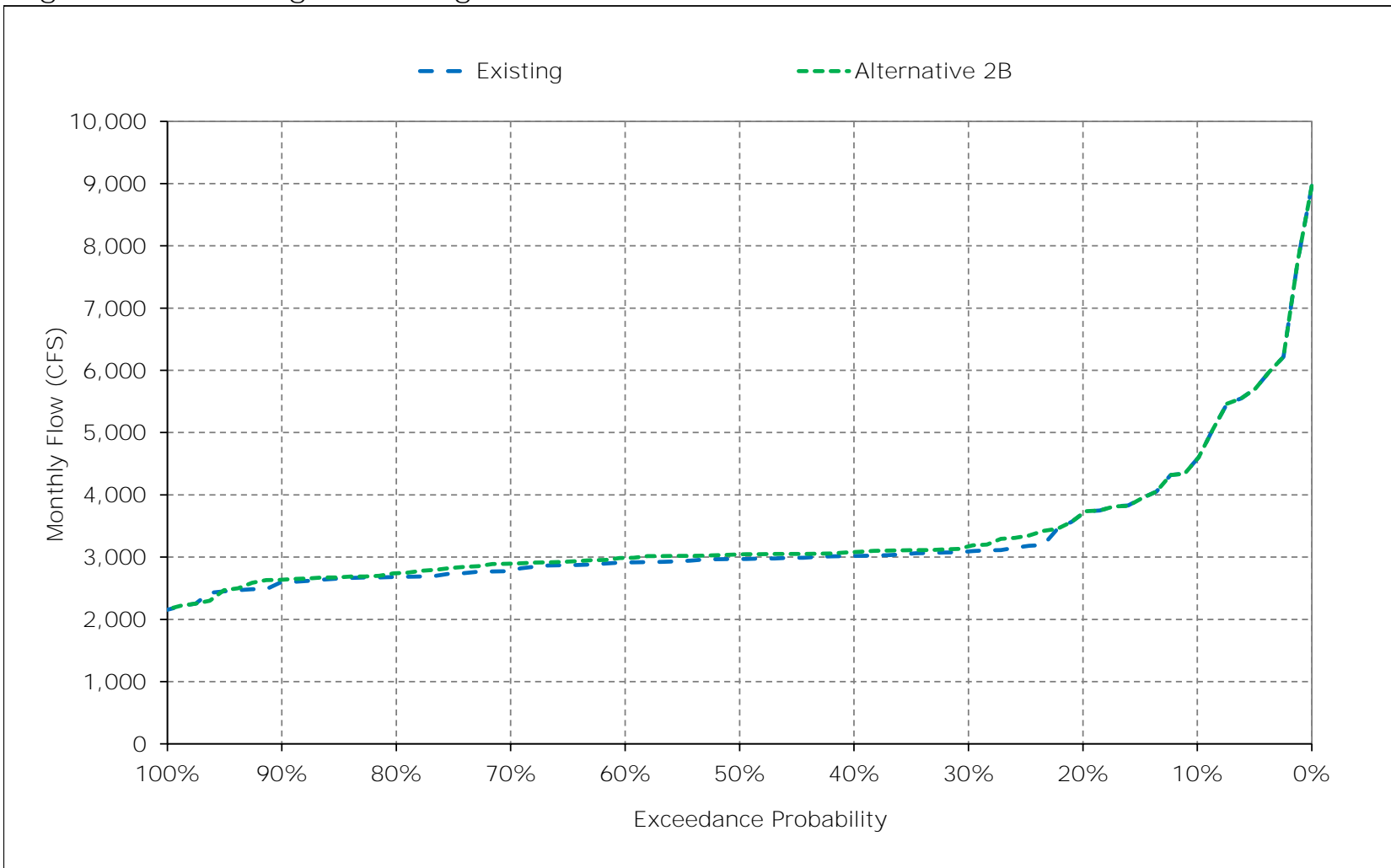


Figure 2-16. Georgiana Slough, July

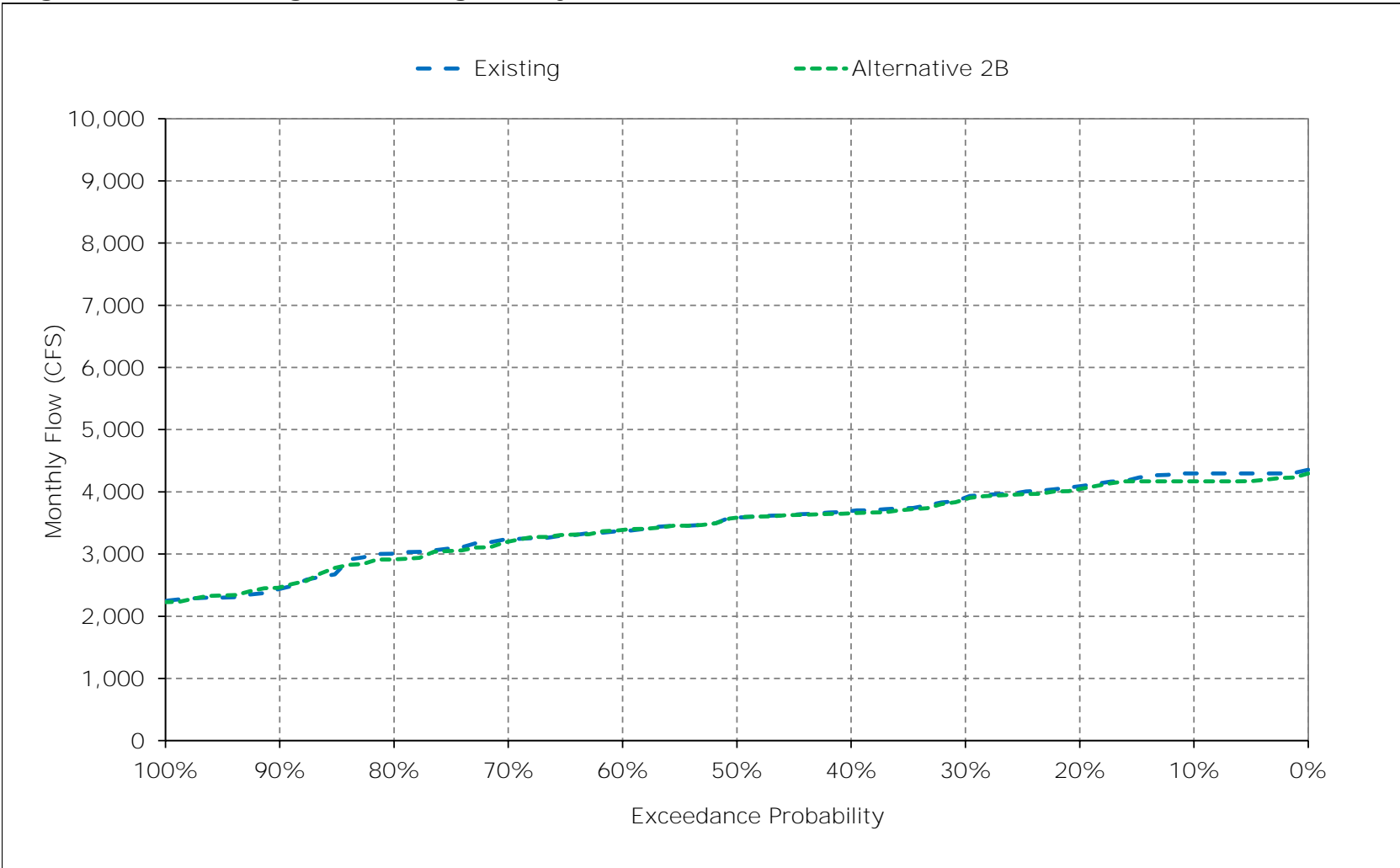


Figure 2-17. Georgiana Slough, August

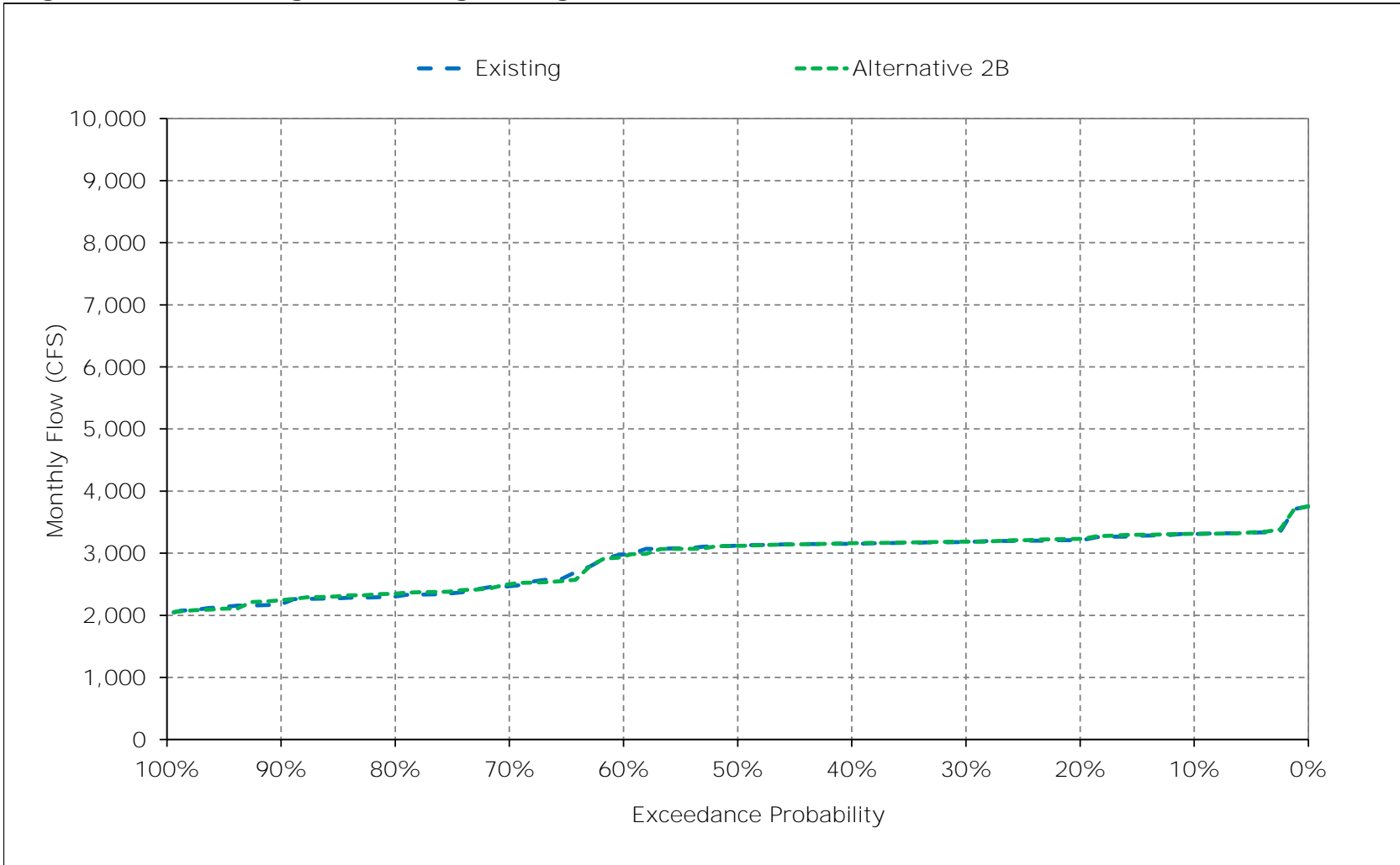




Figure 2-18. Georgiana Slough, September

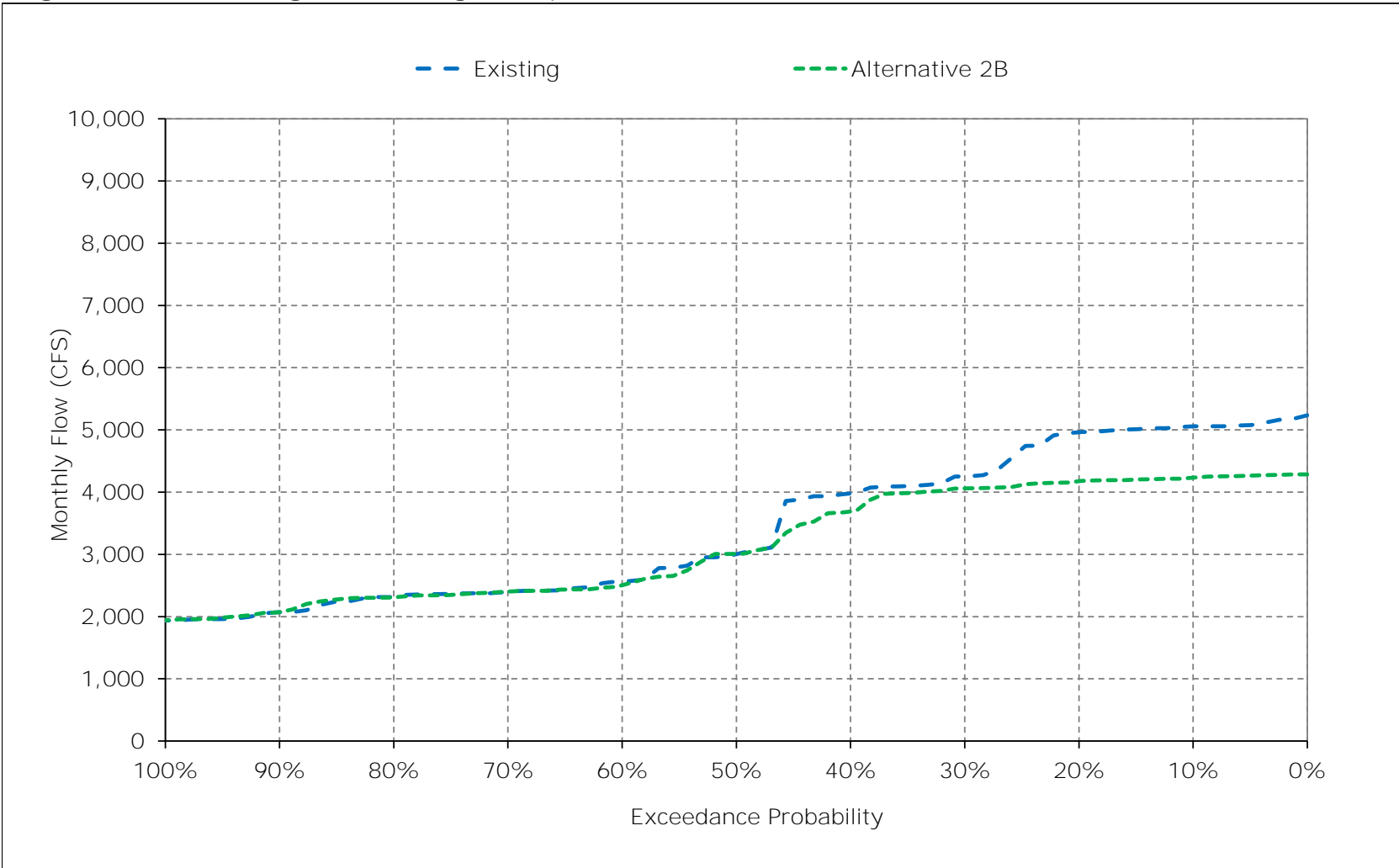


Table 3-1. Yolo Bypass Flow, Monthly Flow

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Existing												
Probability of Exceedance												
10%	63	475	7,065	32,116	44,401	22,630	7,266	275	68	48	183	190
20%	61	145	2,778	10,983	16,552	8,079	3,162	78	68	48	55	110
30%	58	46	917	3,830	7,981	3,276	1,068	73	68	48	55	59
40%	53	10	316	1,912	4,787	1,767	229	70	68	48	55	59
50%	45	8	148	495	2,163	918	135	68	67	48	55	59
60%	40	5	60	269	609	279	111	65	67	48	55	59
70%	29	0	15	62	233	115	88	63	66	48	55	58
80%	16	0	0	27	82	45	78	59	64	48	55	56
90%	5	0	0	0	0	7	56	53	62	48	54	52
Long Term												
Full Simulation Period <sup>a</sup>	128	384	3,071	9,666	12,947	8,304	2,671	284	126	48	100	105
Water Year Types <sup>b,c</sup>												
Wet (32%)	263	1,057	8,104	26,331	32,235	21,722	7,047	684	255	48	143	177
Above Normal (15%)	32	176	1,191	6,758	11,720	7,440	1,747	194	66	48	95	65
Below Normal (17%)	47	33	1,415	932	3,239	704	574	67	66	48	114	85
Dry (22%)	116	68	331	557	1,842	751	308	77	67	48	62	65
Critical (15%)	41	19	89	317	365	292	107	68	64	48	54	70

Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Alternative 2B												
Probability of Exceedance												
10%	63	475	8,672	32,210	45,210	23,613	7,264	275	68	48	183	127
20%	62	145	2,779	11,177	16,677	8,265	3,162	78	68	48	55	59
30%	59	50	917	3,878	8,107	3,320	1,068	73	68	48	55	59
40%	53	17	316	1,912	6,161	1,804	229	70	68	48	55	59
50%	46	9	148	509	2,334	1,005	135	68	67	48	55	59
60%	40	5	60	327	729	373	111	65	67	48	55	59
70%	31	0	15	80	261	122	88	63	66	48	55	57
80%	16	0	0	51	82	47	78	59	64	48	55	55
90%	5	0	0	13	0	7	56	53	62	48	54	52
Long Term												
Full Simulation Period <sup>a</sup>	130	378	3,263	9,825	13,249	8,486	2,671	284	126	48	100	72
Water Year Types <sup>b,c</sup>												
Wet (32%)	269	1,007	8,707	26,795	32,585	21,863	7,047	684	255	48	143	73
Above Normal (15%)	32	155	1,202	6,765	12,428	8,298	1,747	194	66	48	95	65
Below Normal (17%)	47	33	1,412	1,015	3,771	703	574	67	66	48	114	85
Dry (22%)	118	120	331	543	1,827	805	308	77	67	48	62	65
Critical (15%)	41	27	89	316	367	292	107	68	64	48	54	75

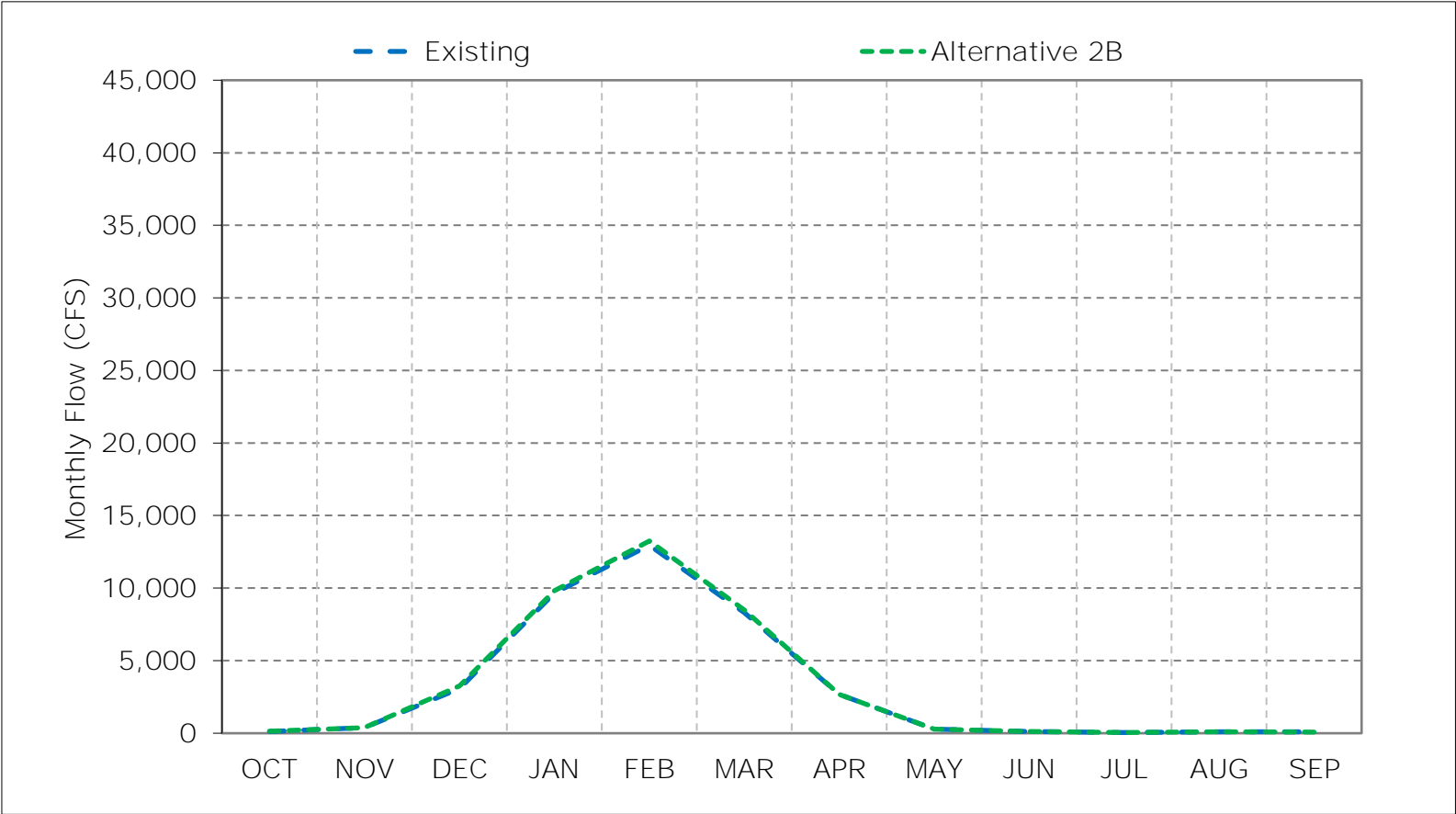
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Alternative 2B minus Existing												
Probability of Exceedance												
10%	0	0	1,607	94	808	983	-3	0	0	0	0	-63
20%	0	0	2	194	125	186	0	0	0	0	0	-51
30%	1	5	0	47	125	44	0	0	0	0	0	0
40%	0	7	0	0	1,374	37	0	0	0	0	0	0
50%	1	0	0	14	171	87	0	0	0	0	0	0
60%	0	1	0	57	120	94	0	0	0	0	0	-1
70%	1	0	0	18	28	8	0	0	0	0	0	-1
80%	0	0	0	24	0	2	0	0	0	0	0	-1
90%	0	0	0	13	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period <sup>a</sup>	2	-6	192	159	302	182	0	0	0	0	0	-33
Water Year Types <sup>b,c</sup>												
Wet (32%)	6	-50	603	464	350	141	0	0	0	0	0	-105
Above Normal (15%)	0	-21	12	7	708	859	0	0	0	0	0	0
Below Normal (17%)	0	0	-3	83	532	-1	0	0	0	0	0	0
Dry (22%)	2	53	0	-15	-15	54	0	0	0	0	0	0
Critical (15%)	0	8	0	-1	2	0	0	0	0	0	0	5

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).

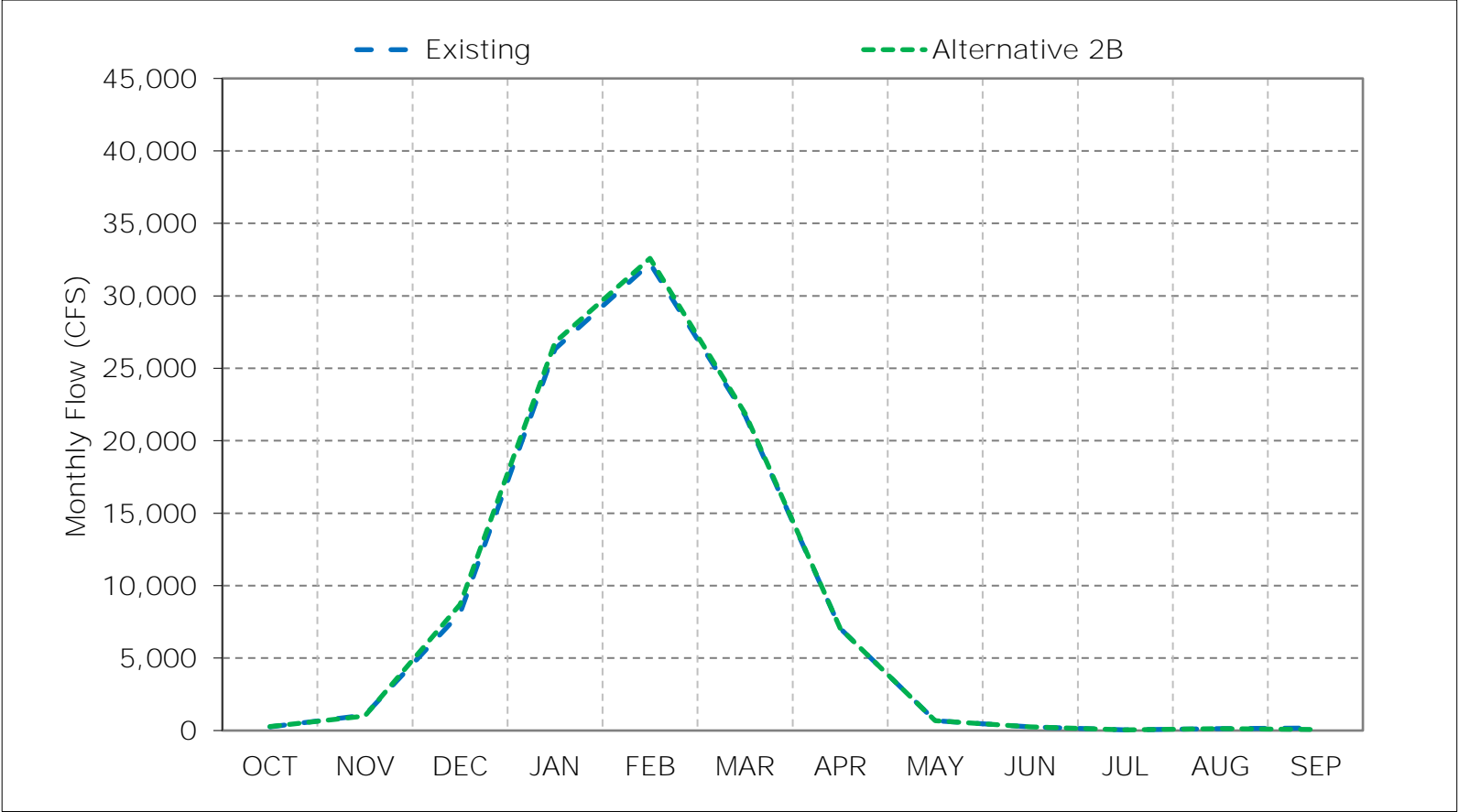
c These results are displayed with water year - year type sorting.

Figure 3-1. Yolo Bypass Flow, Long-Term Average Flow



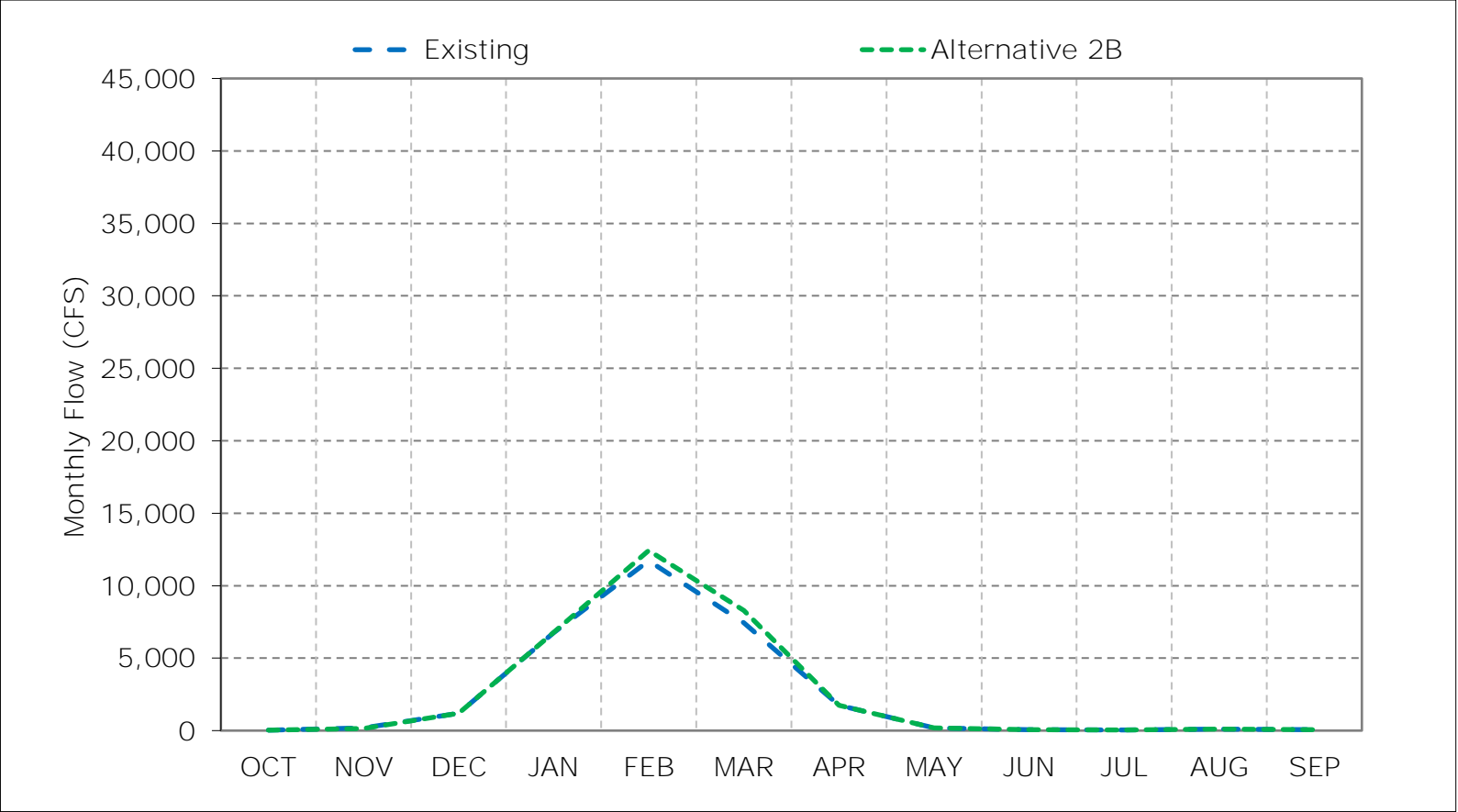
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 3-2. Yolo Bypass Flow, Wet Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

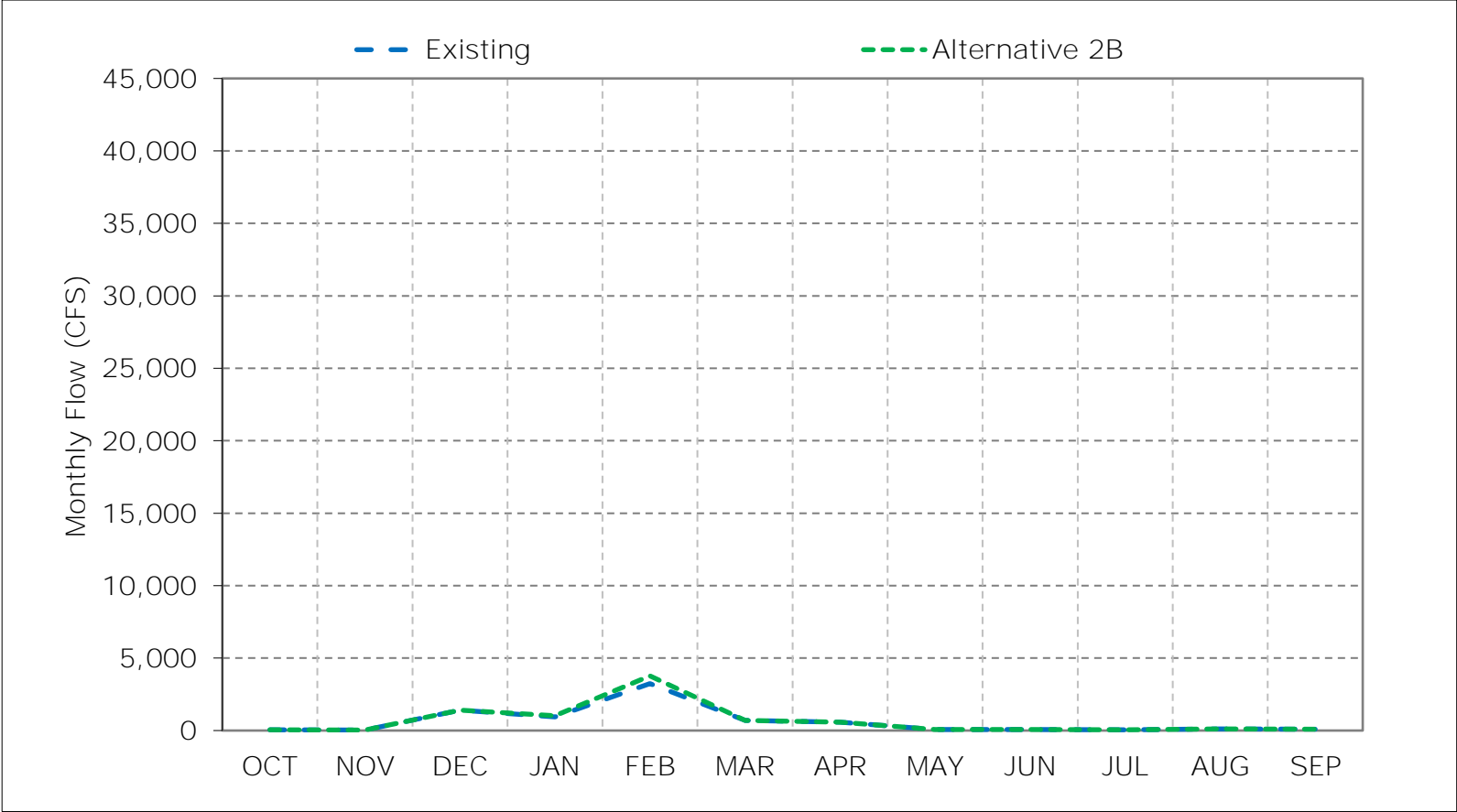
Figure 3-3. Yolo Bypass Flow, Above Normal Year Average Flow



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

\*These results are displayed with water year - year type sorting.

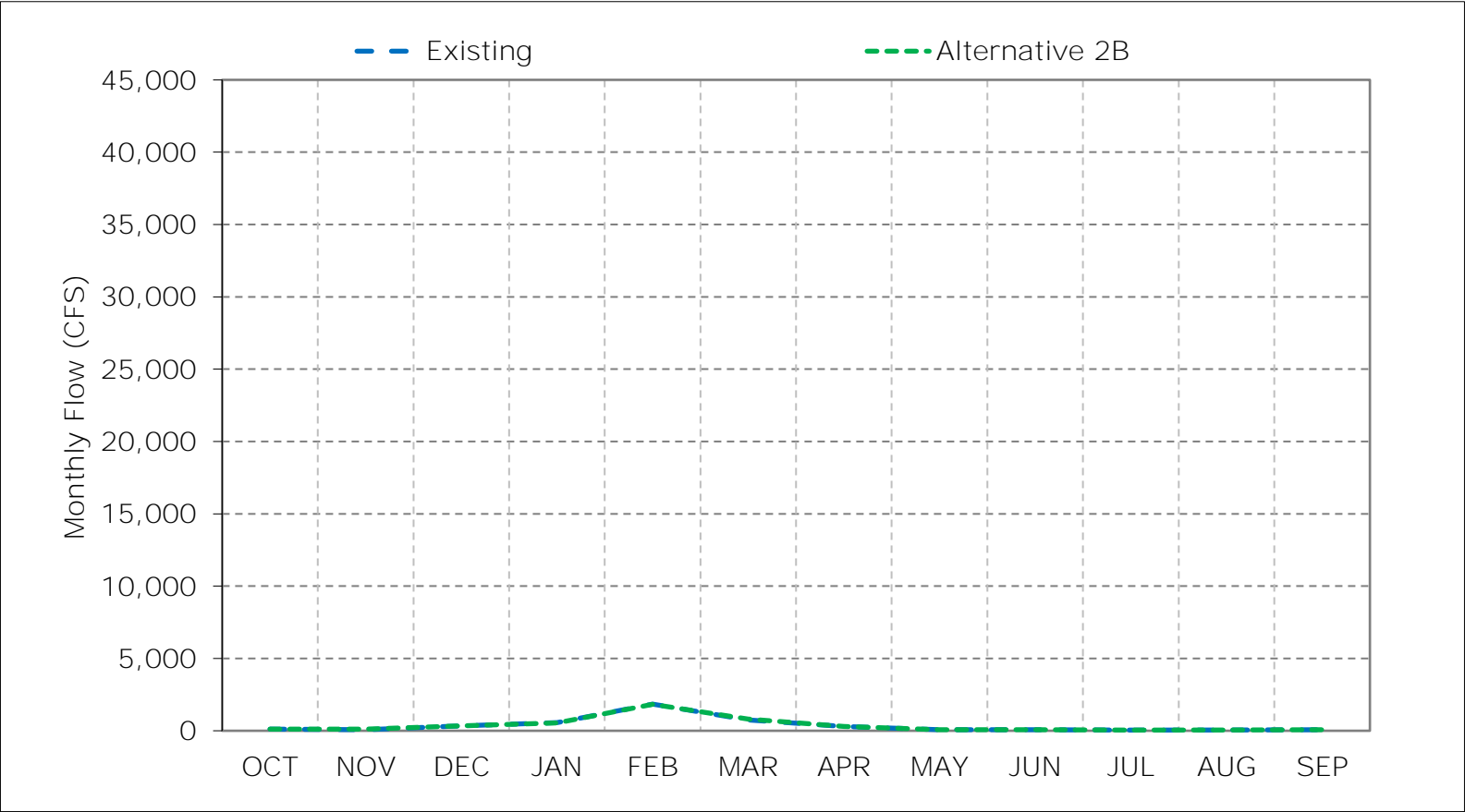
Figure 3-4. Yolo Bypass Flow, Below Normal Year Average Flow



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

\*These results are displayed with water year - year type sorting.

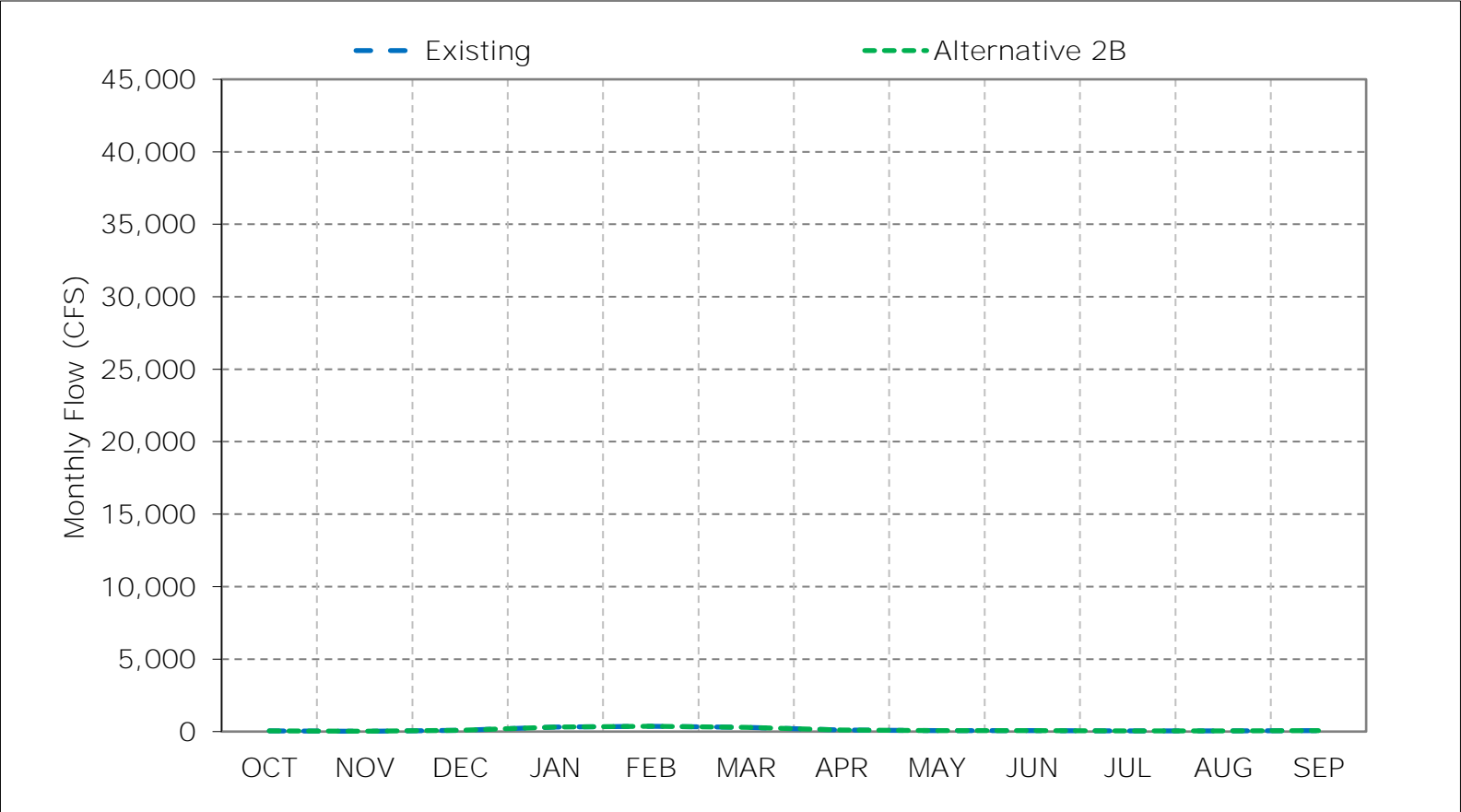
Figure 3-5. Yolo Bypass Flow, Dry Year Average Flow



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

\*These results are displayed with water year - year type sorting.

Figure 3-6. Yolo Bypass Flow, Critical Year Average Flow



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

\*These results are displayed with water year - year type sorting.



Figure 3-7. Yolo Bypass Flow, October

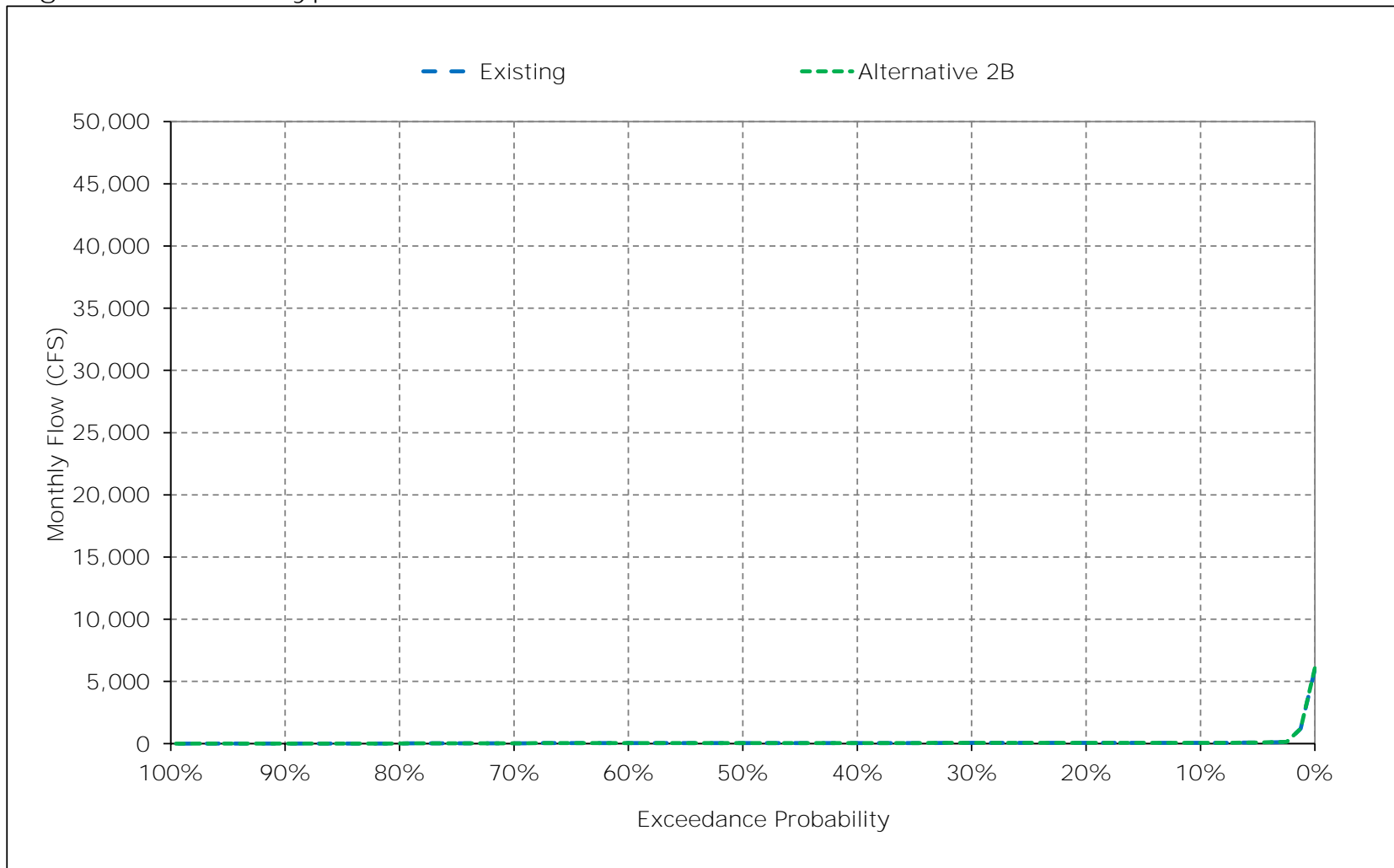


Figure 3-8. Yolo Bypass Flow, November

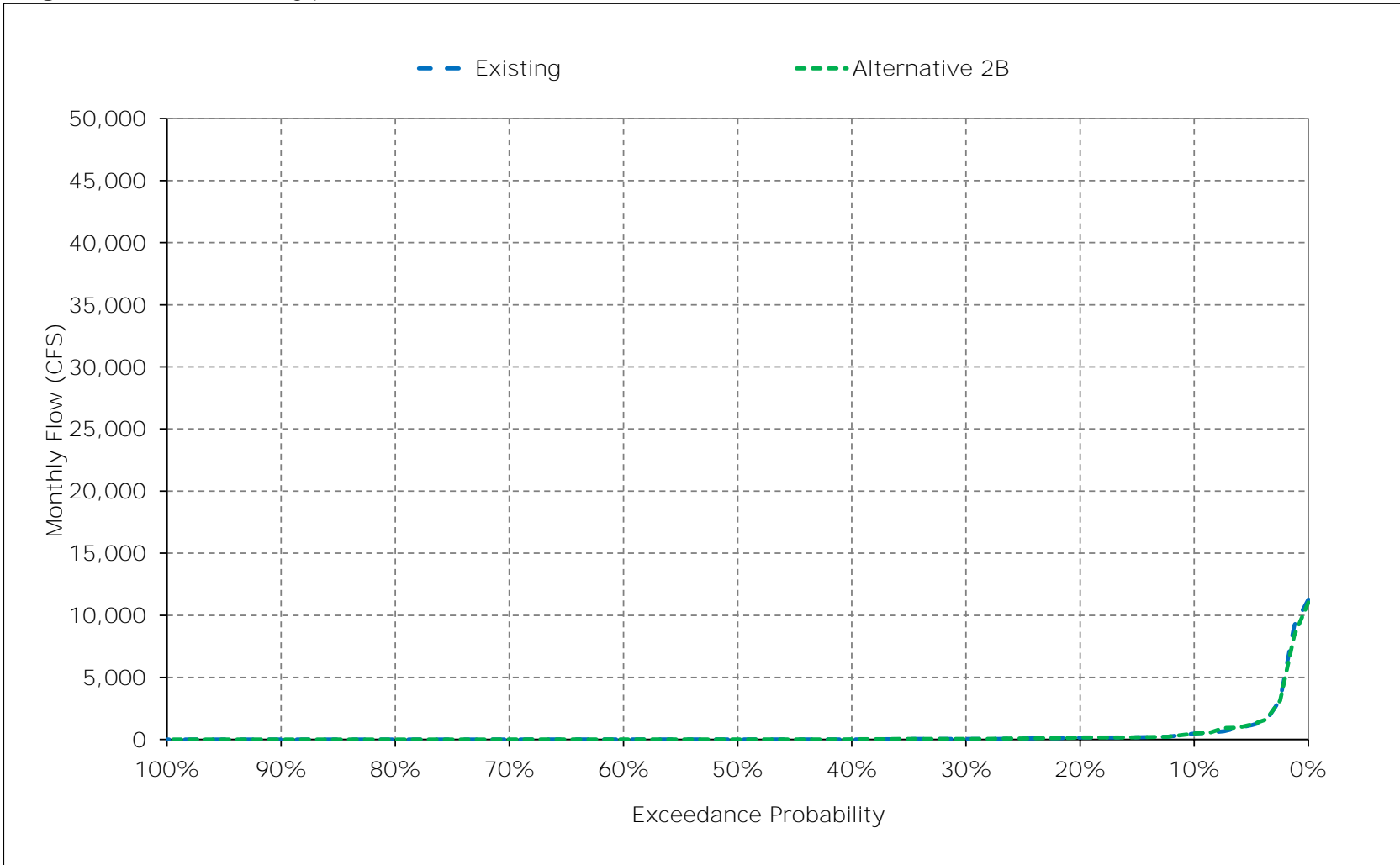


Figure 3-9. Yolo Bypass Flow, December

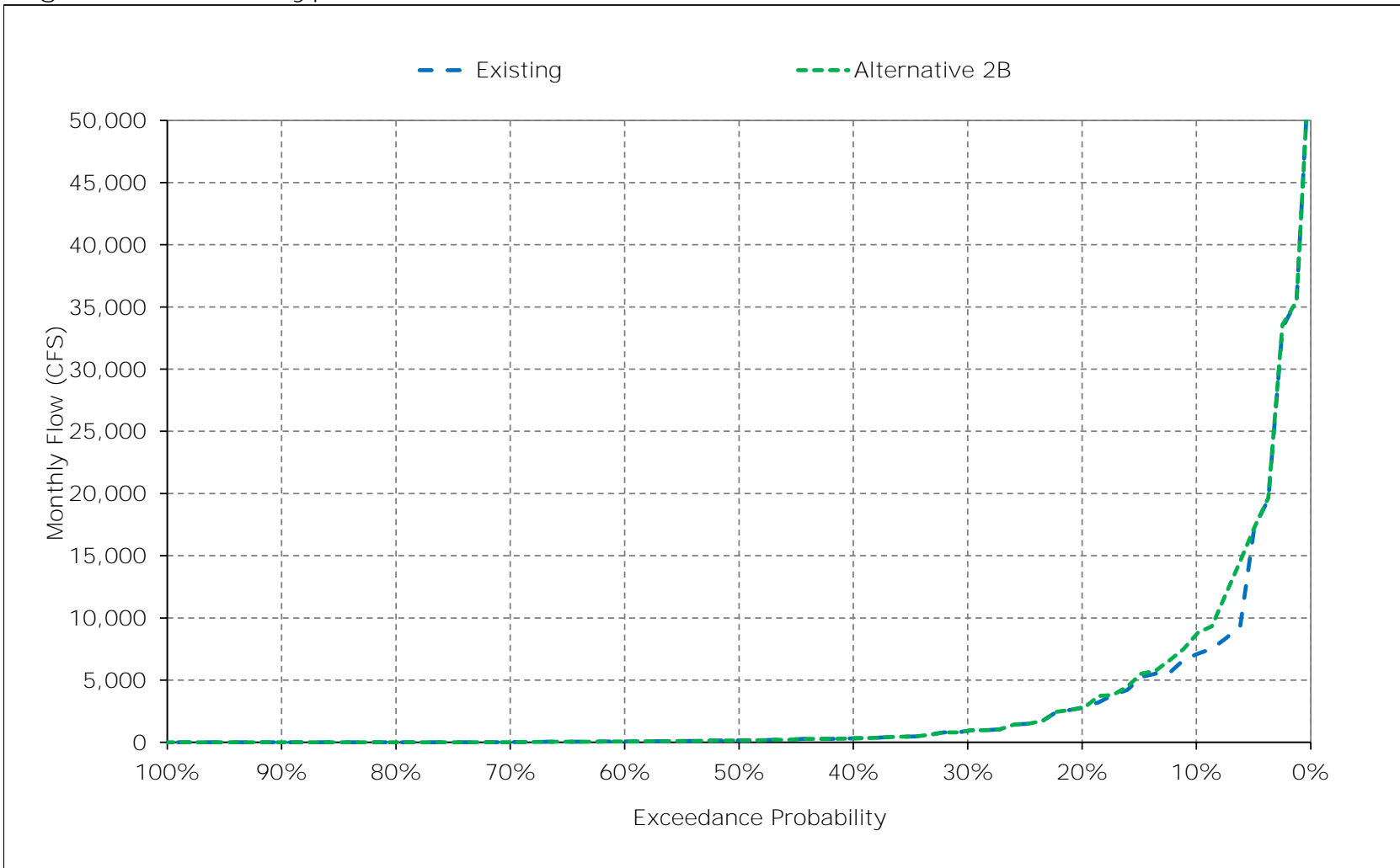


Figure 3-10. Yolo Bypass Flow, January

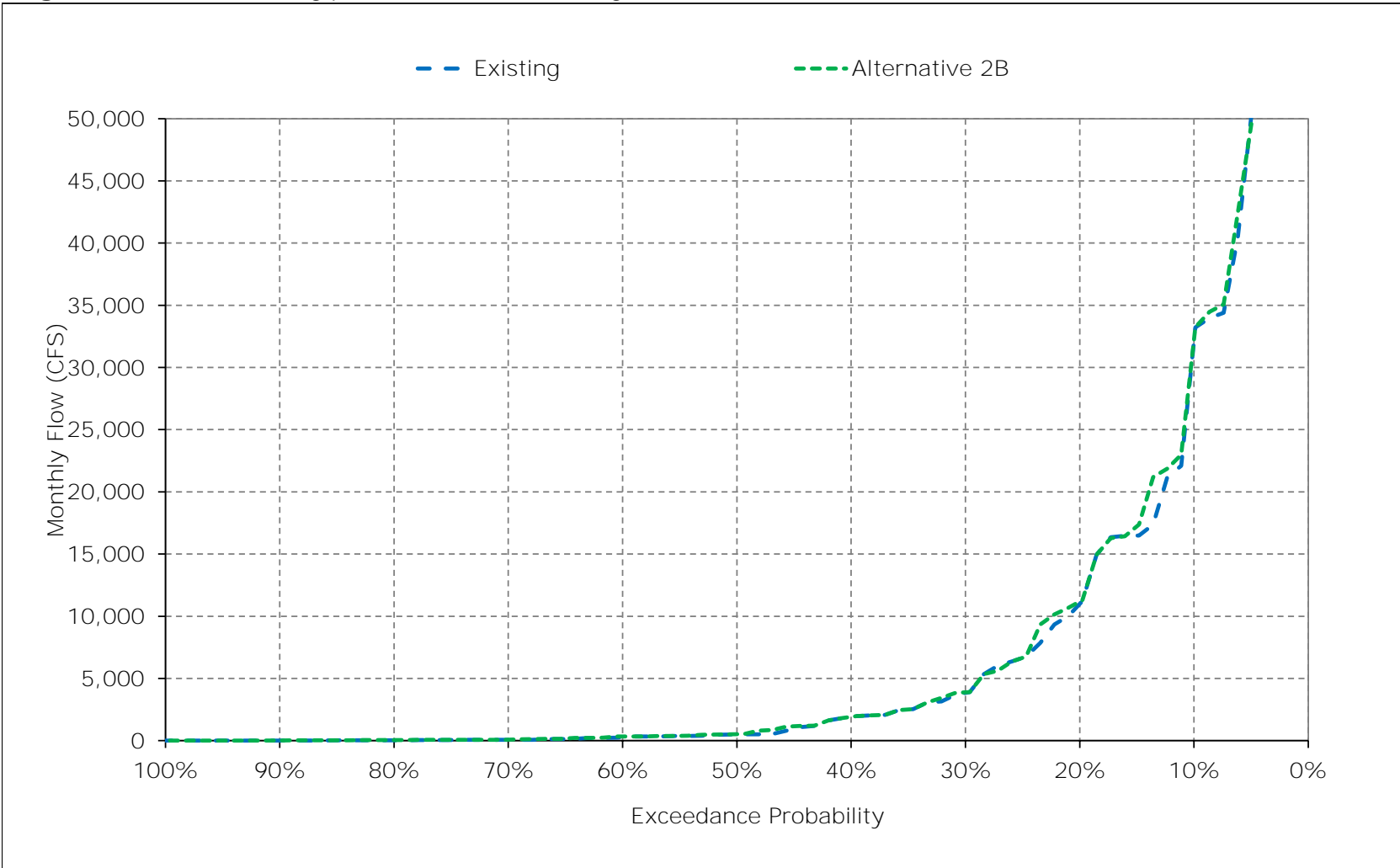


Figure 3-11. Yolo Bypass Flow, February

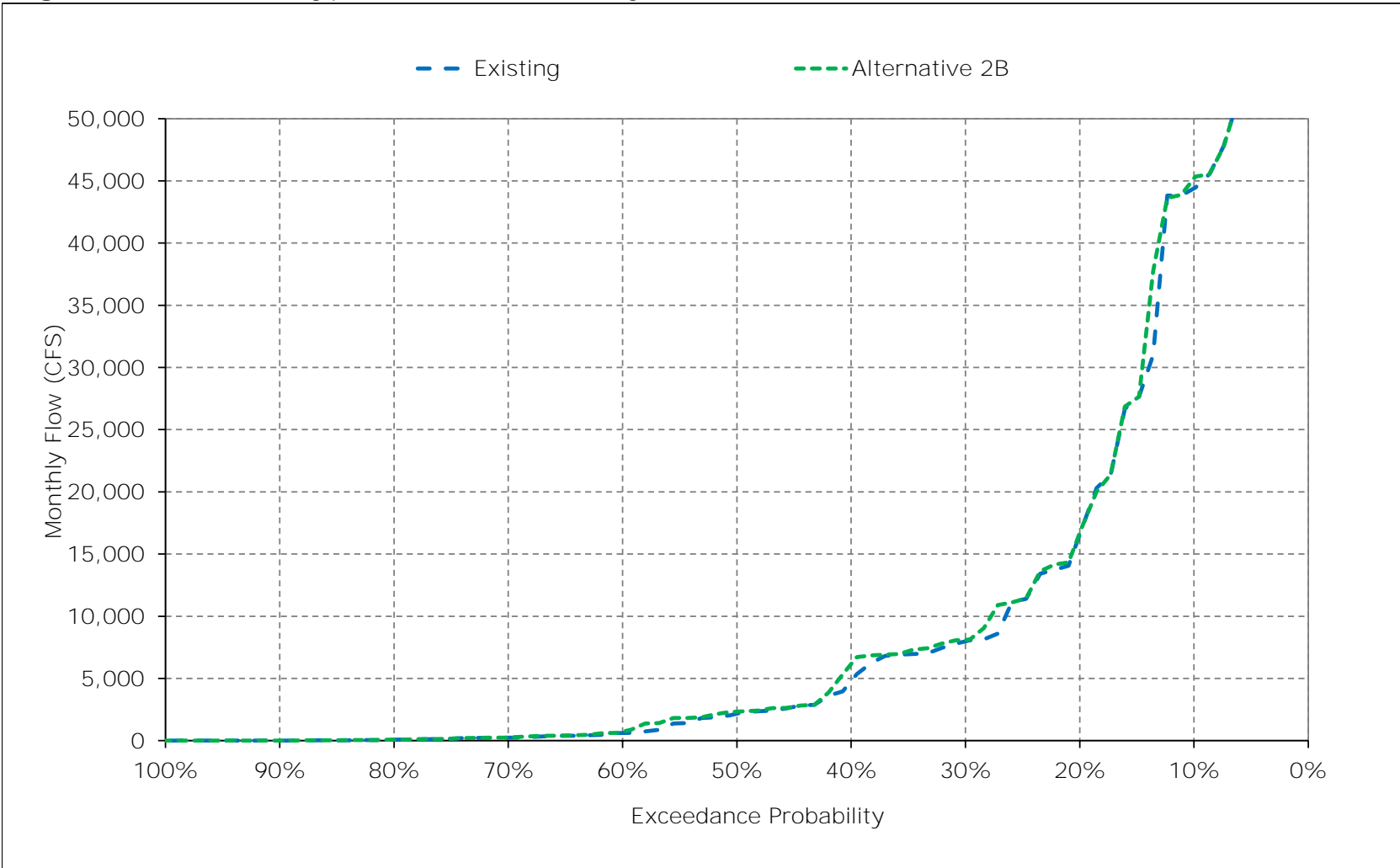


Figure 3-12. Yolo Bypass Flow, March

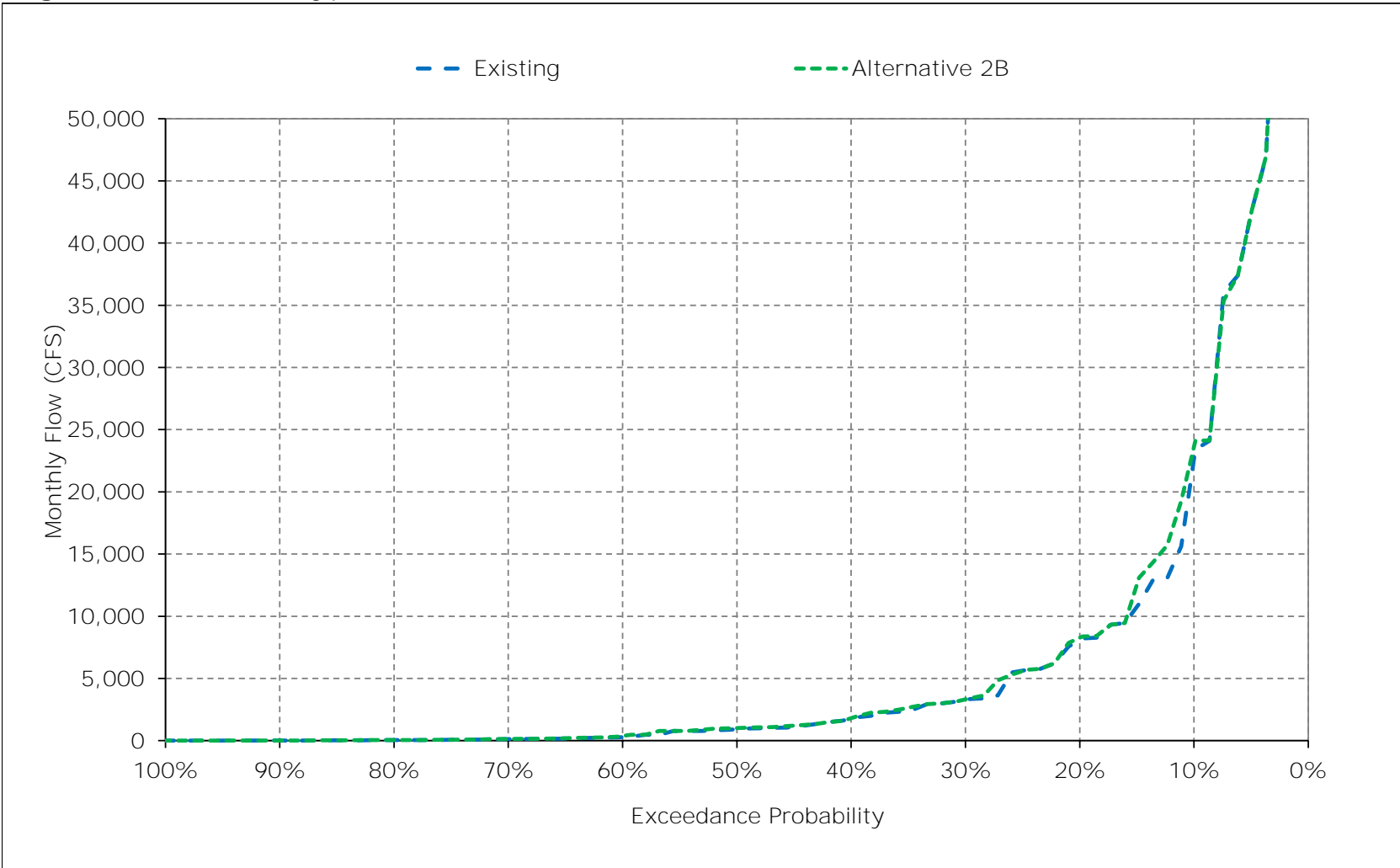


Figure 3-13. Yolo Bypass Flow, April

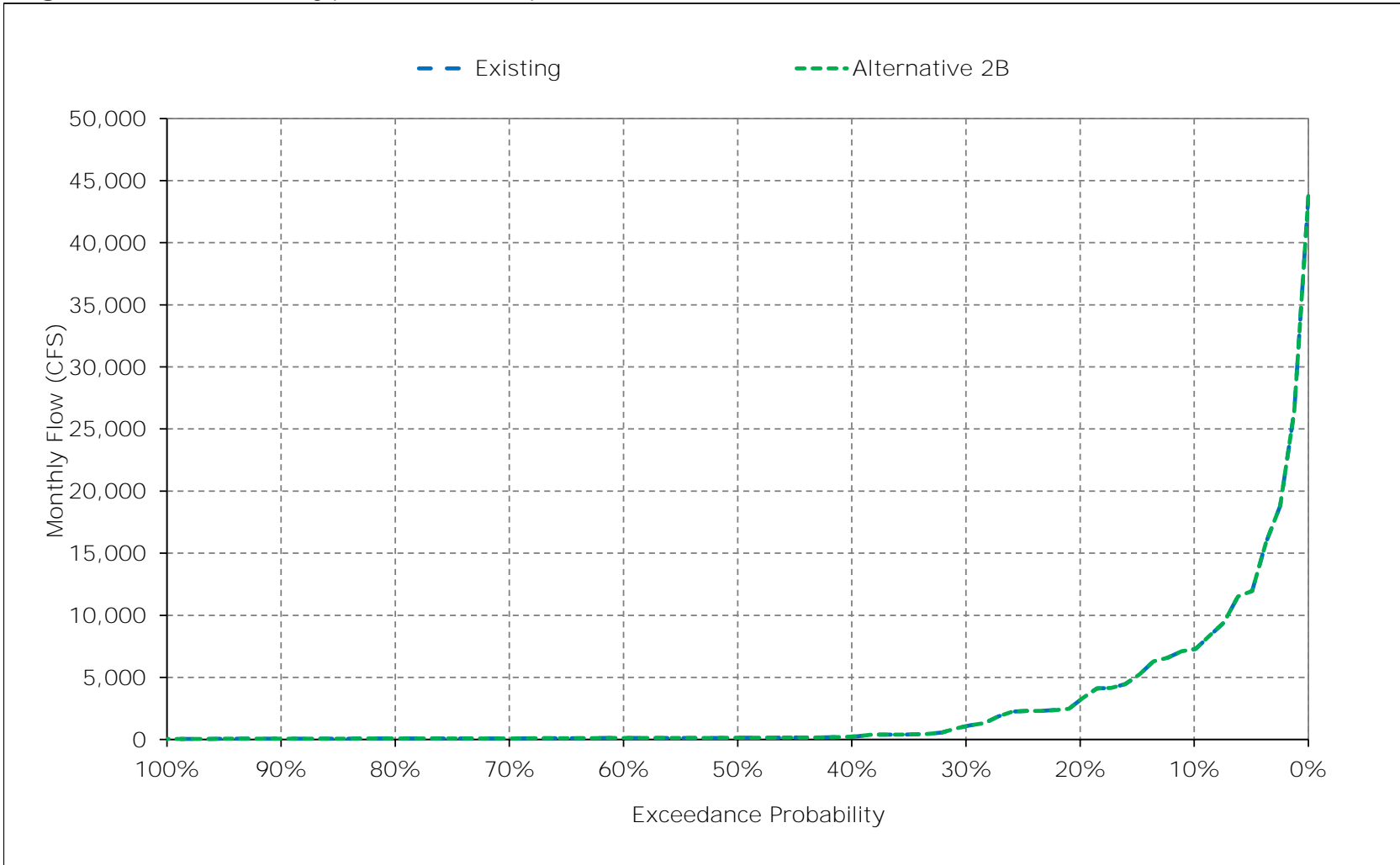


Figure 3-14. Yolo Bypass Flow, May

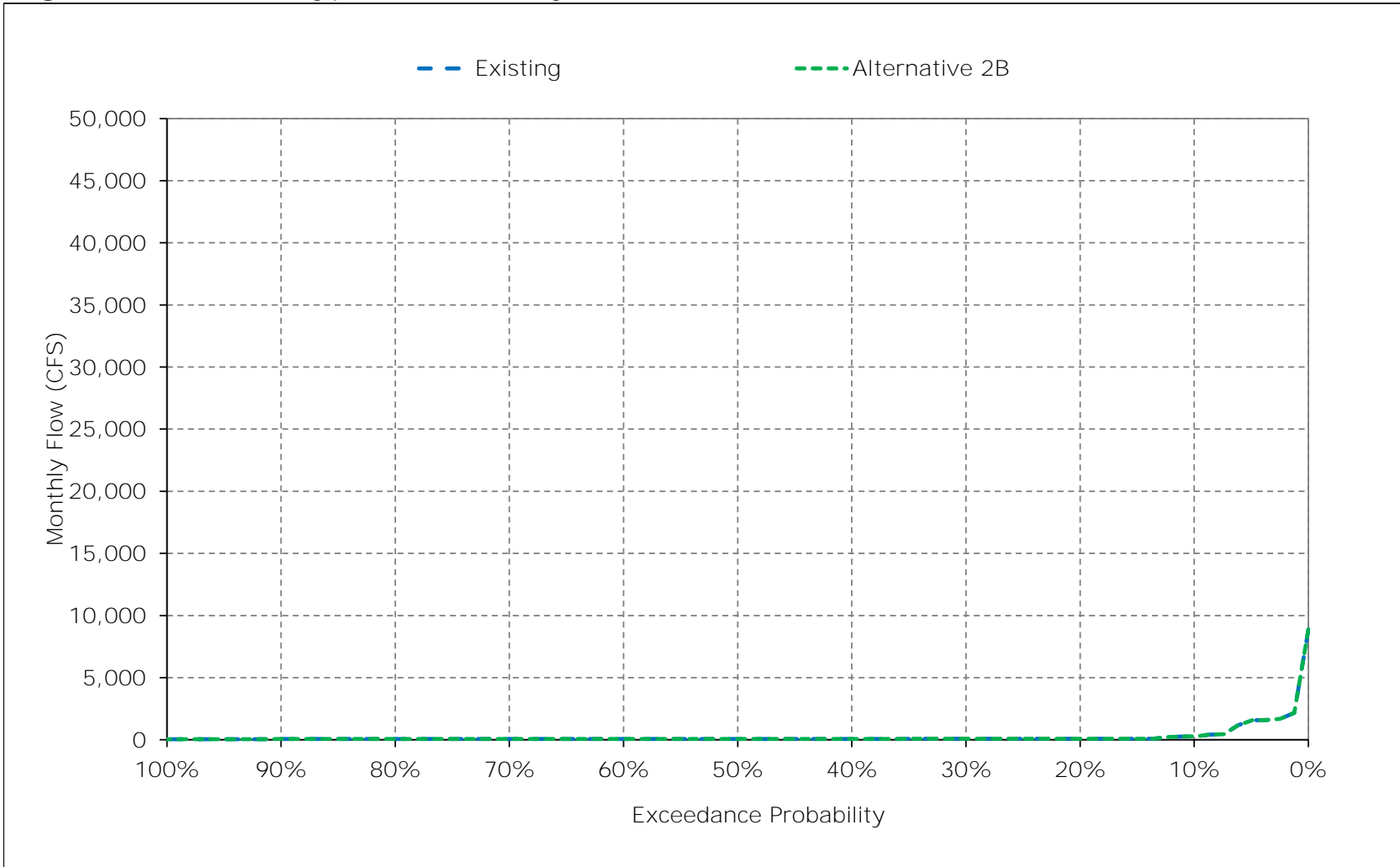




Figure 3-15. Yolo Bypass Flow, June

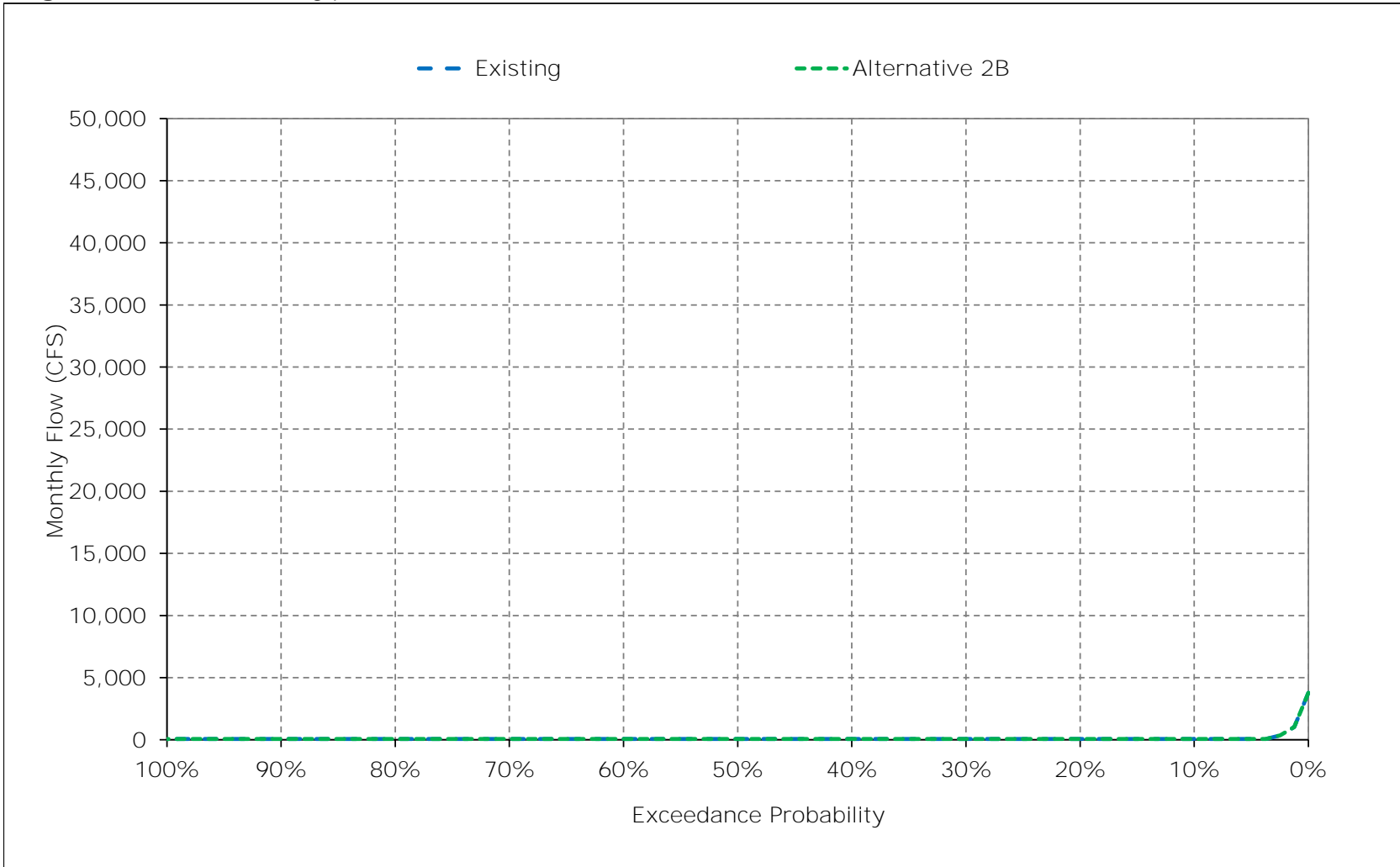


Figure 3-16. Yolo Bypass Flow, July

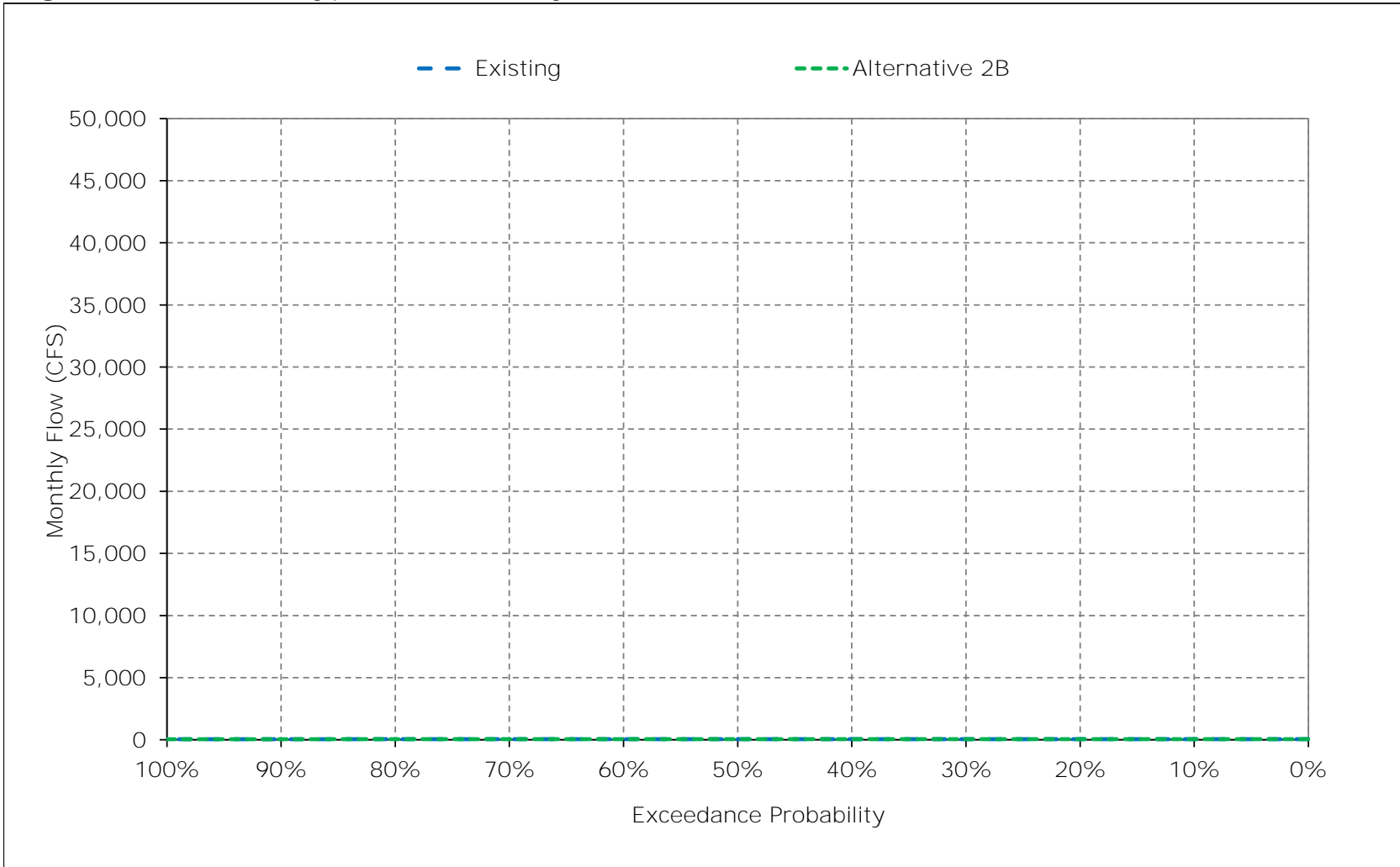


Figure 3-17. Yolo Bypass Flow, August

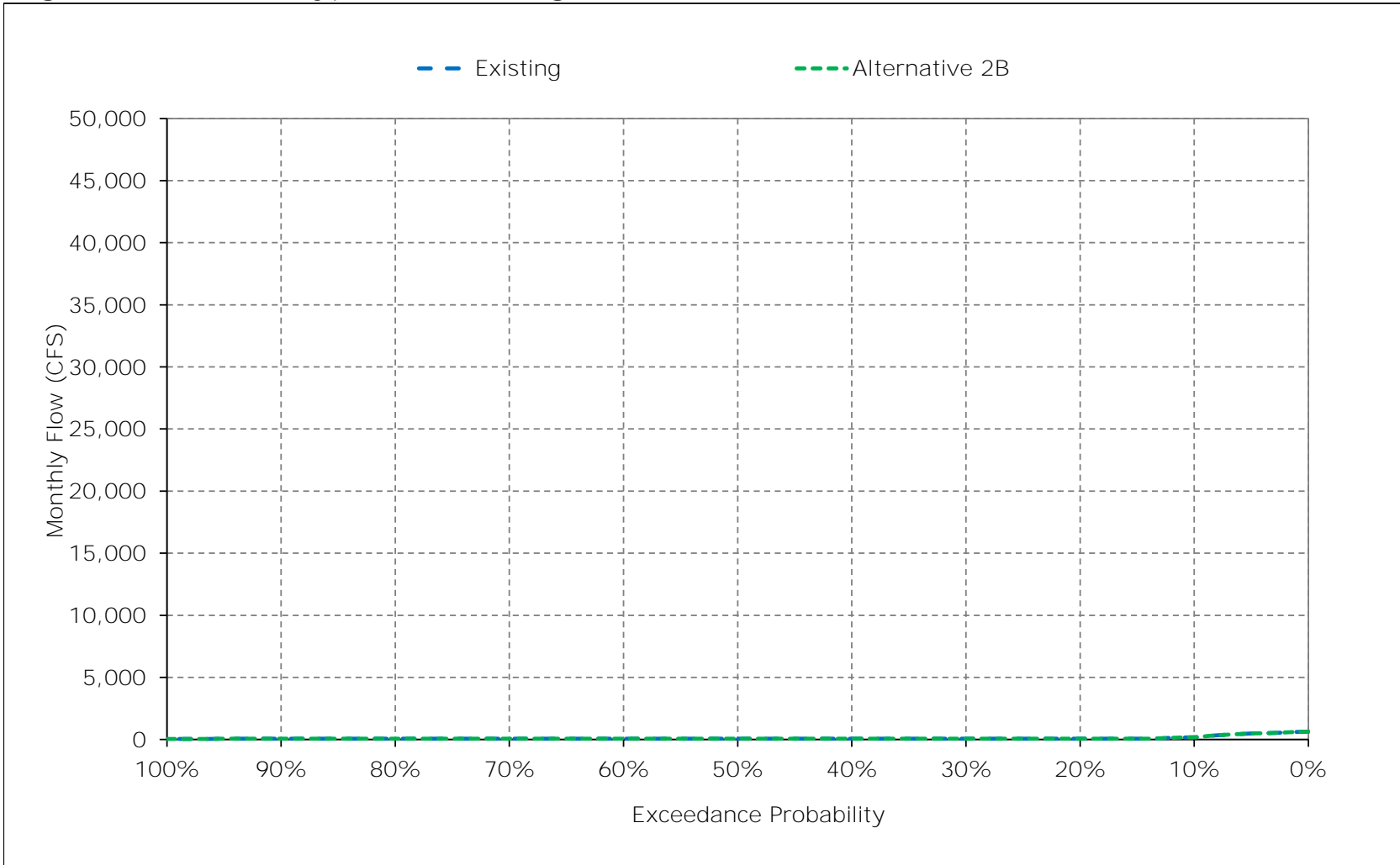


Figure 3-18. Yolo Bypass Flow, September

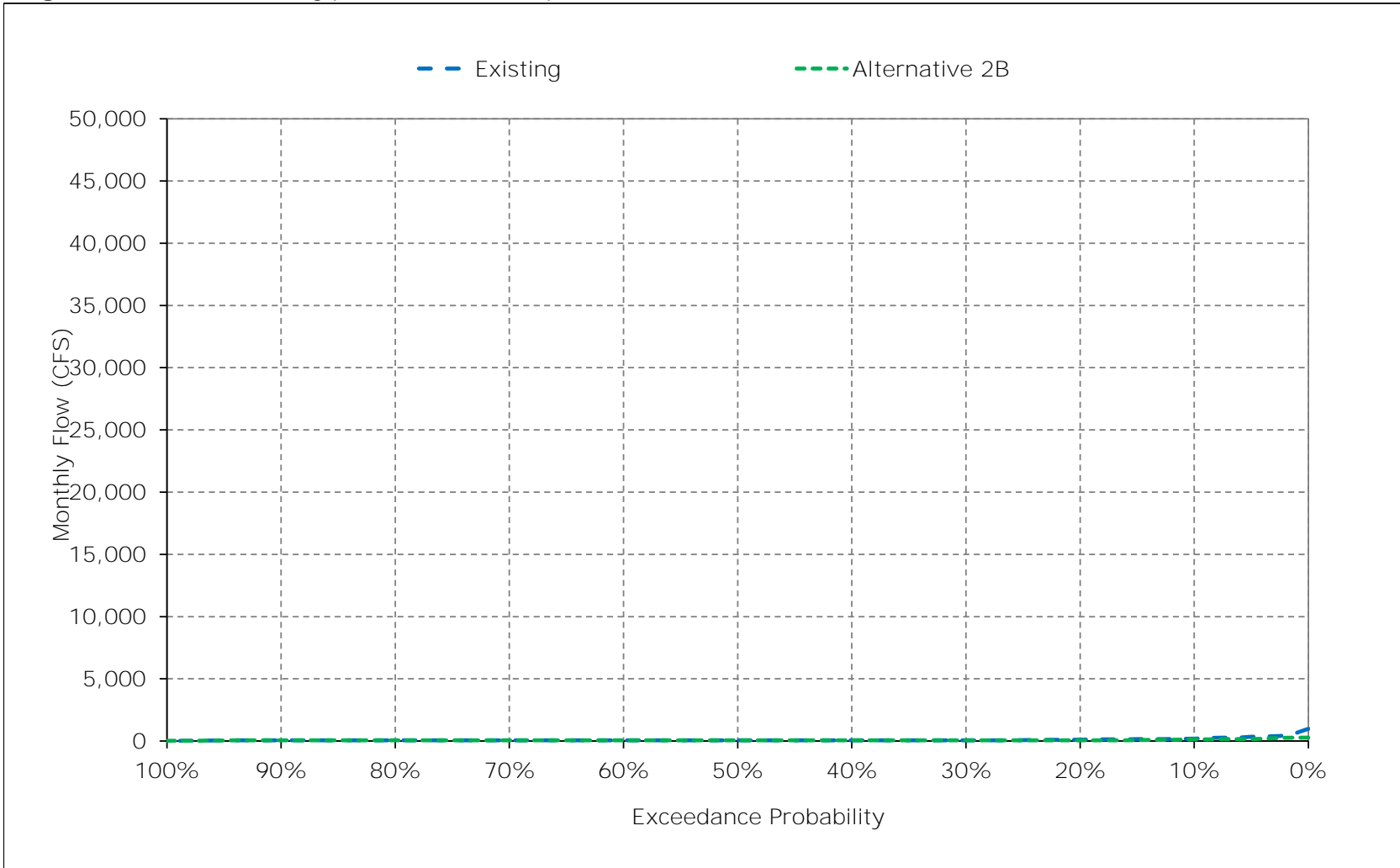


Table 4-1. Sacramento River Flow at Rio Vista, Monthly Flow

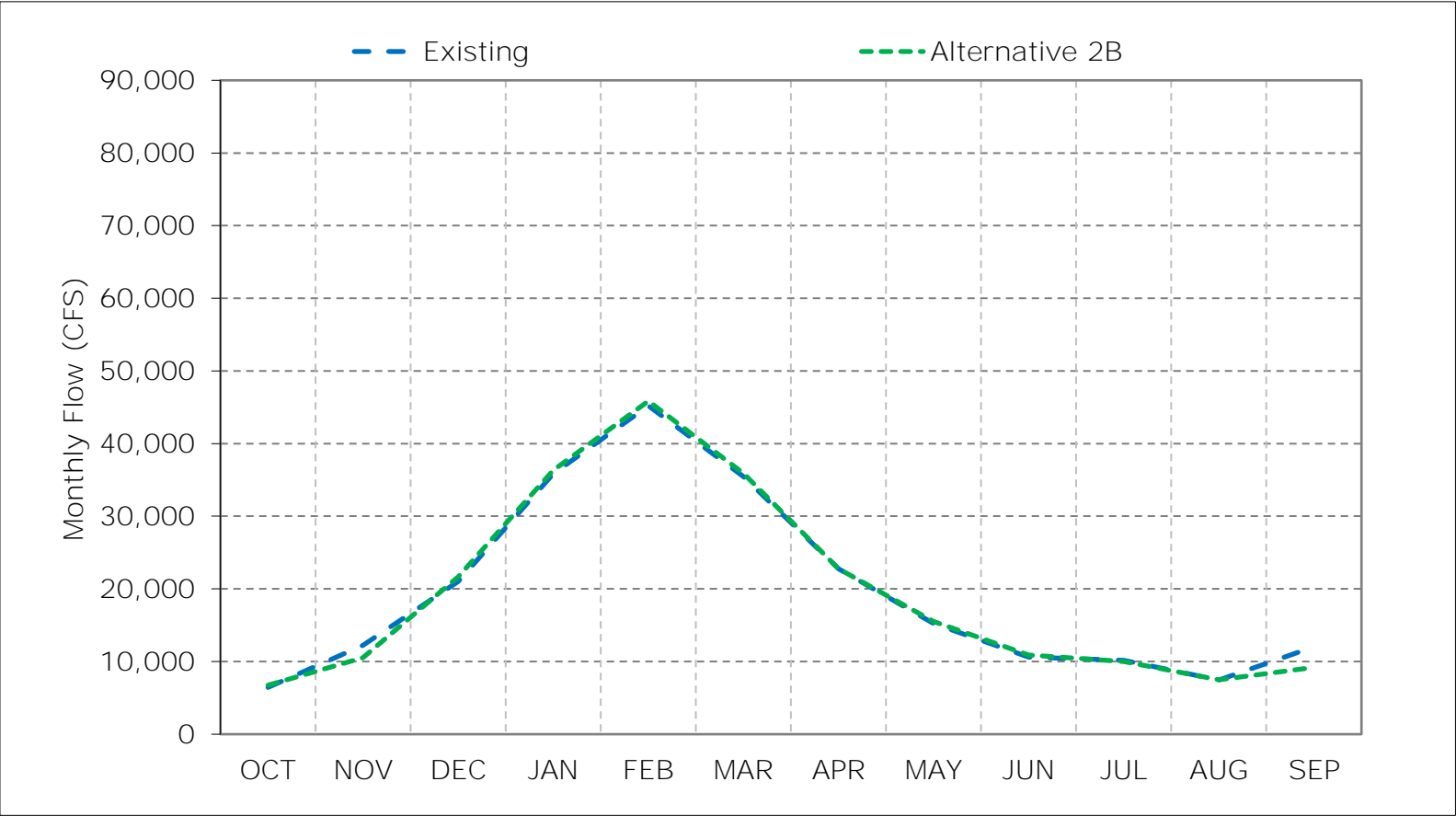
Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,140	18,806	52,284	86,457	105,186	73,918	54,112	34,926	20,648	14,280	9,718	24,620
20%	8,138	15,685	29,468	55,667	67,393	52,550	37,257	24,211	11,911	13,237	9,428	23,952
30%	7,537	14,649	18,168	40,343	52,127	35,838	21,850	14,901	8,567	12,292	9,053	14,756
40%	6,476	12,272	14,804	25,624	42,524	30,001	19,665	11,196	8,253	11,254	8,870	13,303
50%	5,940	10,585	12,150	18,372	30,086	22,487	14,597	9,601	7,982	10,683	8,695	8,343
60%	4,923	7,745	10,857	15,373	22,618	17,884	11,737	8,431	7,635	9,608	7,960	6,083
70%	4,401	6,657	9,754	12,155	16,358	15,500	10,094	7,427	6,990	8,871	5,327	5,285
80%	4,000	5,787	7,341	10,446	13,659	12,316	8,529	7,028	6,450	7,752	4,466	4,822
90%	3,039	4,471	6,370	9,425	11,071	8,460	7,156	5,787	6,145	4,765	3,992	3,521
Long Term												
Full Simulation Period <sup>a</sup>	6,443	12,240	21,031	35,843	45,193	35,436	22,760	15,220	10,618	10,157	7,442	12,045
Water Year Types <sup>b,c</sup>												
Wet (32%)	8,294	17,532	38,344	69,721	81,768	64,062	40,542	26,583	16,592	11,403	9,239	22,778
Above Normal (15%)	6,029	13,013	19,036	38,894	50,702	43,650	24,065	17,363	10,171	12,539	9,314	13,569
Below Normal (17%)	5,727	10,062	13,889	19,160	30,527	19,416	15,992	10,661	8,060	11,839	8,755	7,242
Dry (22%)	5,567	9,566	11,619	13,948	21,093	17,438	11,327	7,586	7,664	9,106	4,779	4,991
Critical (15%)	4,995	6,556	7,962	11,698	13,697	10,887	7,974	5,223	5,535	4,689	4,142	3,451
Alternative 2B												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,941	18,358	56,362	86,648	105,354	76,142	54,108	34,927	20,647	13,648	9,720	14,626
20%	8,824	10,629	32,104	57,576	67,494	52,551	37,260	24,435	11,912	13,107	9,437	14,347
30%	7,805	9,424	19,282	40,706	54,857	39,587	21,359	14,901	9,001	12,182	9,167	13,736
40%	6,603	8,756	15,314	26,116	44,822	29,831	19,751	11,192	8,504	11,084	8,896	11,861
50%	6,098	8,506	11,741	20,595	30,101	22,481	14,580	10,360	8,337	10,663	8,671	8,412
60%	4,957	7,628	10,318	15,715	23,097	18,289	11,413	9,269	8,105	9,691	7,740	5,782
70%	4,246	6,681	9,591	12,158	17,589	15,529	9,994	8,035	7,601	8,743	5,500	5,239
80%	4,052	5,256	8,148	9,937	14,131	11,638	8,849	7,066	6,825	7,212	4,771	4,826
90%	3,150	4,031	6,295	9,126	11,406	8,846	7,460	6,286	6,226	4,981	4,172	3,530
Long Term												
Full Simulation Period <sup>a</sup>	6,739	10,512	21,660	36,328	45,852	35,878	22,781	15,518	10,897	9,997	7,472	9,178
Water Year Types <sup>b,c</sup>												
Wet (32%)	8,714	15,230	40,390	70,652	82,393	64,357	40,500	26,616	16,644	11,175	9,209	13,463
Above Normal (15%)	6,302	10,678	18,881	39,856	51,937	45,346	24,033	17,401	10,718	12,191	9,359	14,262
Below Normal (17%)	6,221	8,468	13,829	20,322	32,134	19,660	15,977	11,187	8,682	11,713	8,700	7,029
Dry (22%)	5,548	8,339	11,771	13,737	20,972	17,594	11,467	8,314	7,985	8,823	4,893	5,005
Critical (15%)	5,289	5,768	7,824	10,995	13,921	11,050	8,044	5,450	5,578	5,011	4,255	3,576
Alternative 2B minus Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	801	-447	4,079	191	168	2,225	-4	1	-1	-633	2	-9,994
20%	686	-5,056	2,637	1,909	101	0	2	224	0	-130	10	-9,605
30%	268	-5,225	1,114	363	2,731	3,749	-491	0	434	-110	114	-1,020
40%	126	-3,516	511	492	2,298	-170	86	-5	251	-171	27	-1,442
50%	158	-2,078	-409	2,224	15	-6	-17	759	356	-20	-24	69
60%	34	-117	-539	342	479	405	-325	839	470	83	-220	-301
70%	-155	24	-163	3	1,231	29	-100	608	610	-128	174	-45
80%	52	-531	807	-509	472	-678	321	38	376	-539	306	4
90%	111	-439	-75	-299	335	385	304	499	80	217	181	9
Long Term												
Full Simulation Period <sup>a</sup>	296	-1,728	629	485	660	441	20	299	280	-160	29	-2,867
Water Year Types <sup>b,c</sup>												
Wet (32%)	419	-2,301	2,046	931	625	295	-43	32	52	-228	-30	-9,315
Above Normal (15%)	274	-2,334	-155	962	1,235	1,696	-32	38	547	-349	44	693
Below Normal (17%)	494	-1,594	-60	1,162	1,607	244	-14	525	622	-126	-55	-213
Dry (22%)	-19	-1,227	151	-212	-120	156	139	728	322	-283	114	13
Critical (15%)	293	-789	-138	-703	224	163	70	227	43	322	113	125

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 water year - year type sorting.

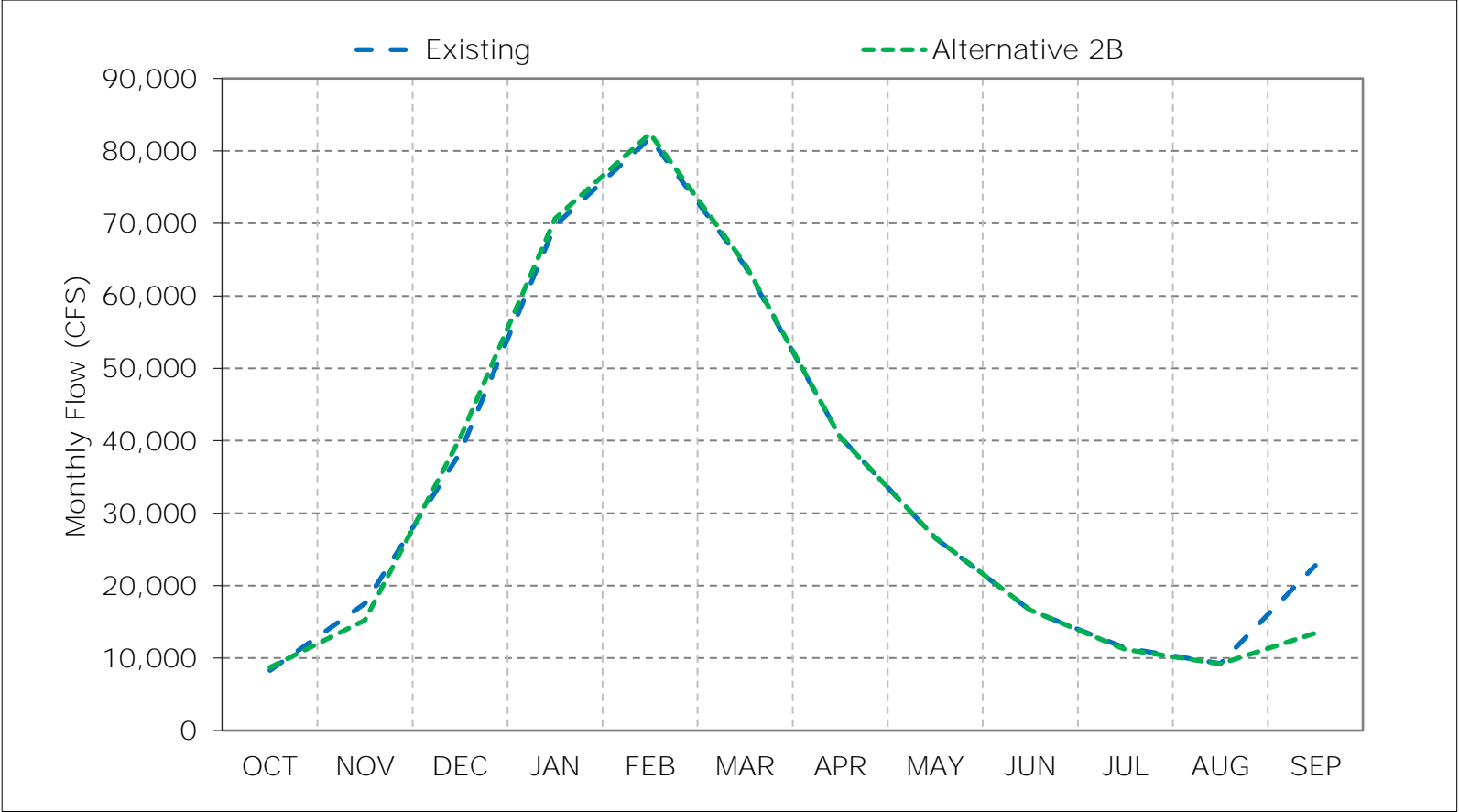
Figure 4-1. Sacramento River Flow at Rio Vista, Long-Term Average Flow



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

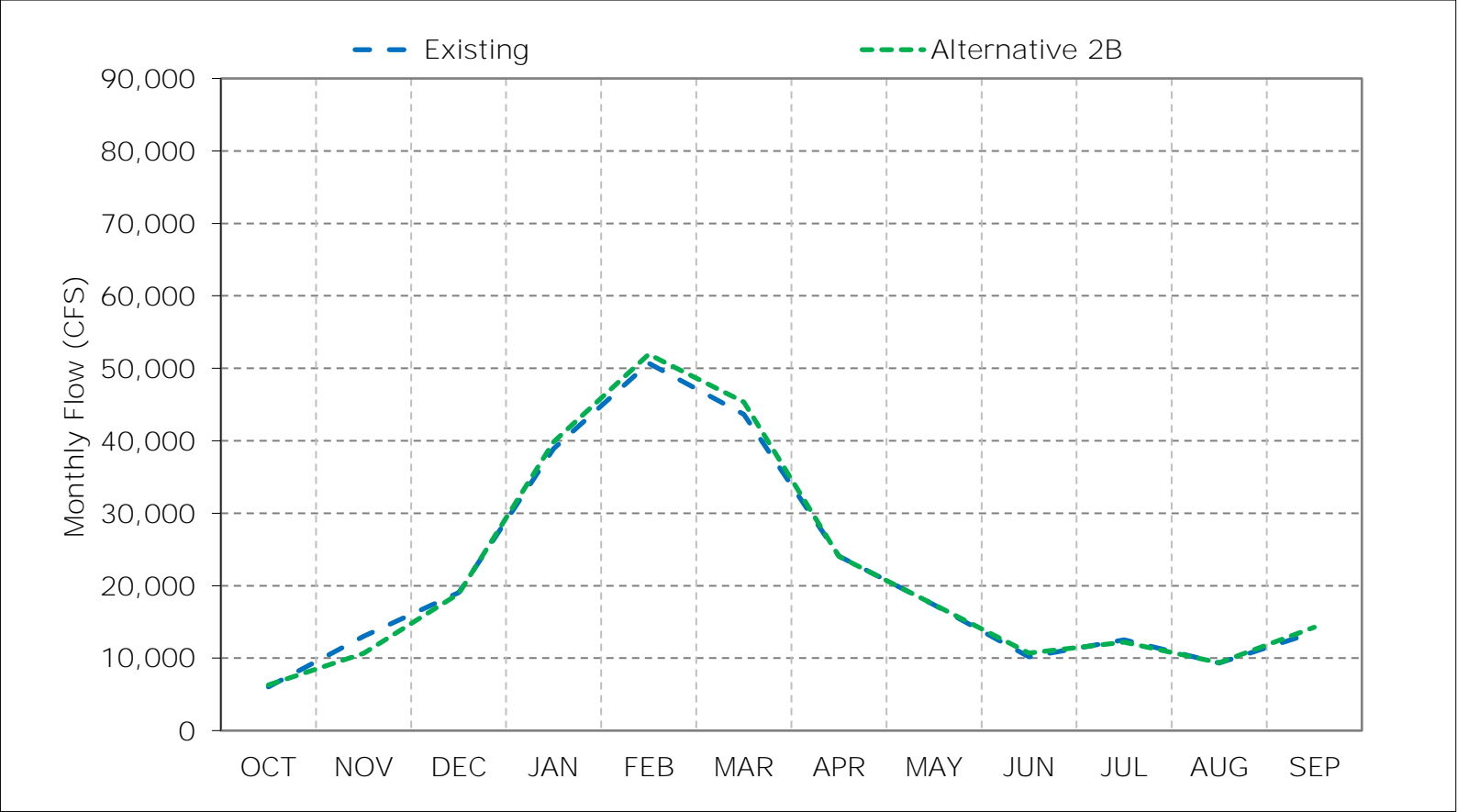
\*These results are displayed with water year - year type sorting.

Figure 4-2. Sacramento River Flow at Rio Vista, Wet Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

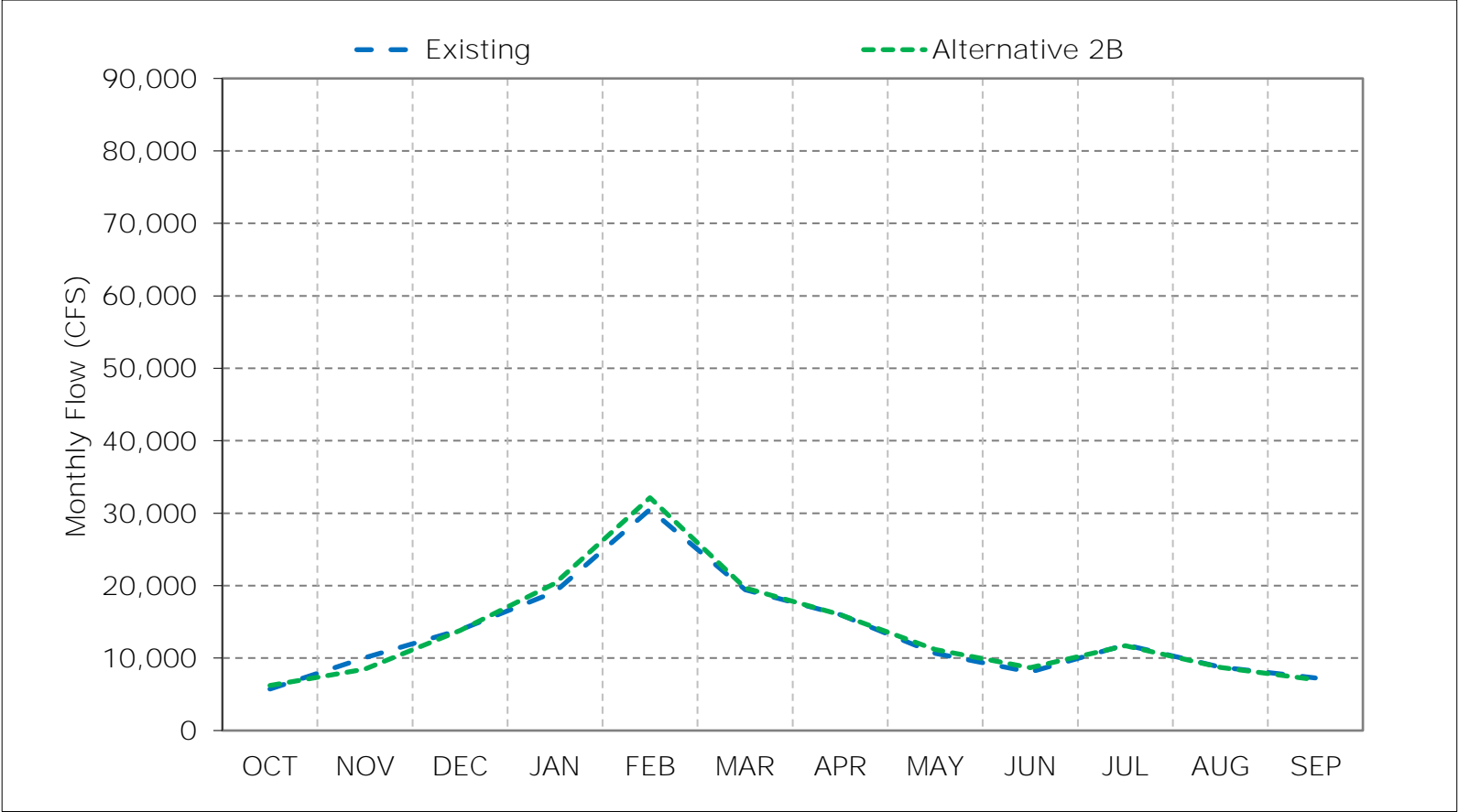
Figure 4-3. Sacramento River Flow at Rio Vista, Above Normal Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.



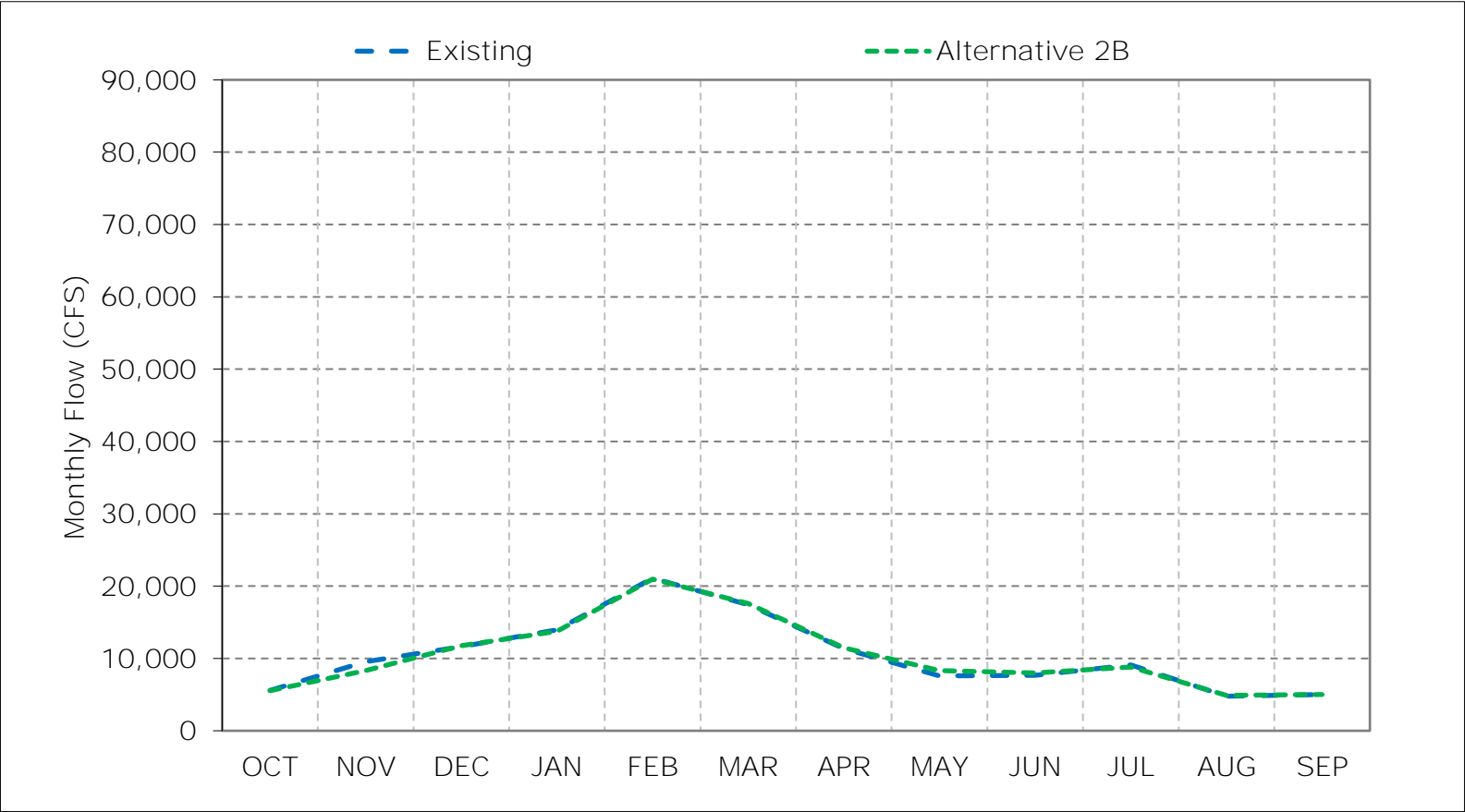
Figure 4-4. Sacramento River Flow at Rio Vista, Below Normal Year Average Flow



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

\*These results are displayed with water year - year type sorting.

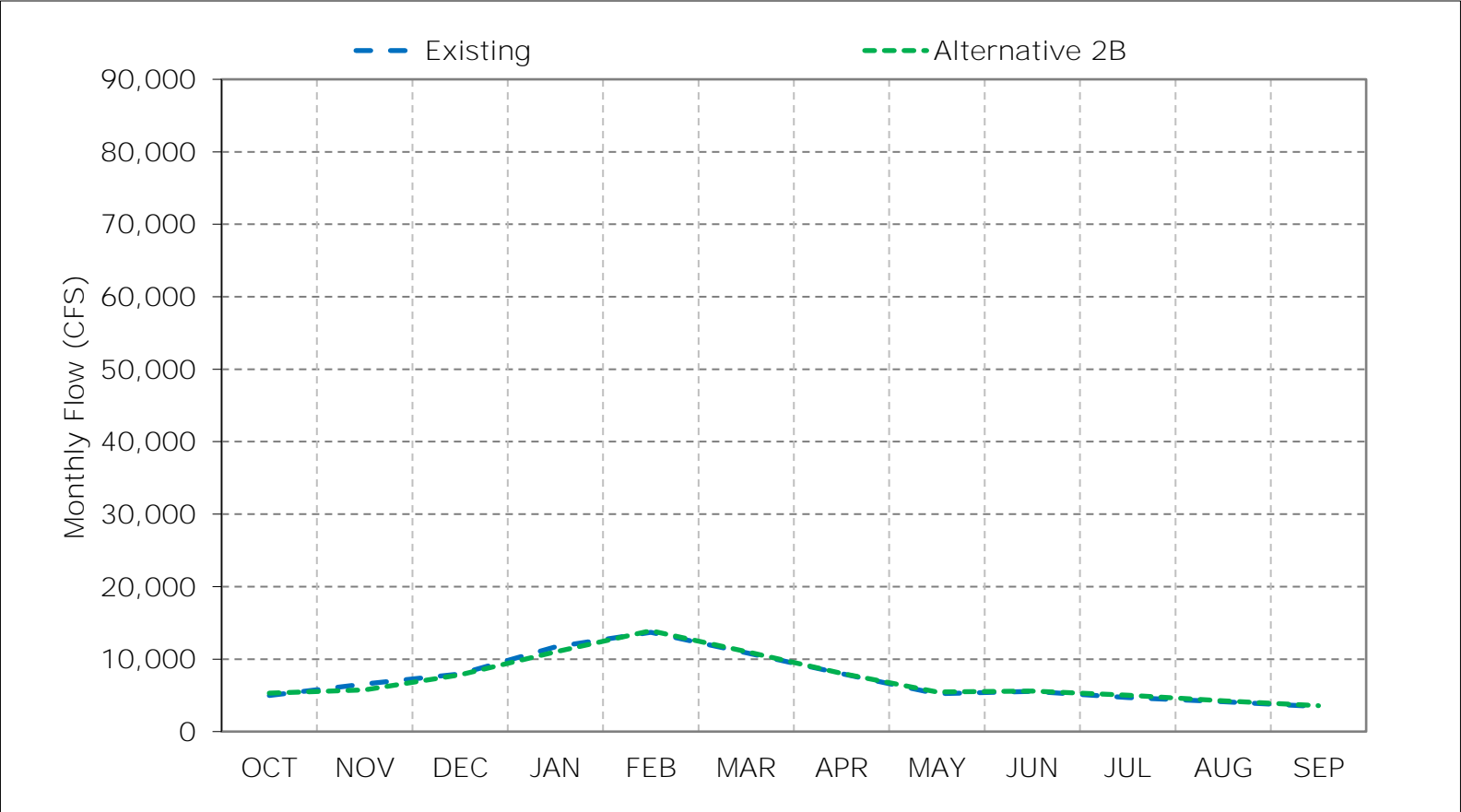
Figure 4-5. Sacramento River Flow at Rio Vista, Dry Year Average Flow



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

\*These results are displayed with water year - year type sorting.

Figure 4-6. Sacramento River Flow at Rio Vista, Critical Year Average Flow



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

\*These results are displayed with water year - year type sorting.

Figure 4-7. Sacramento River Flow at Rio Vista, October

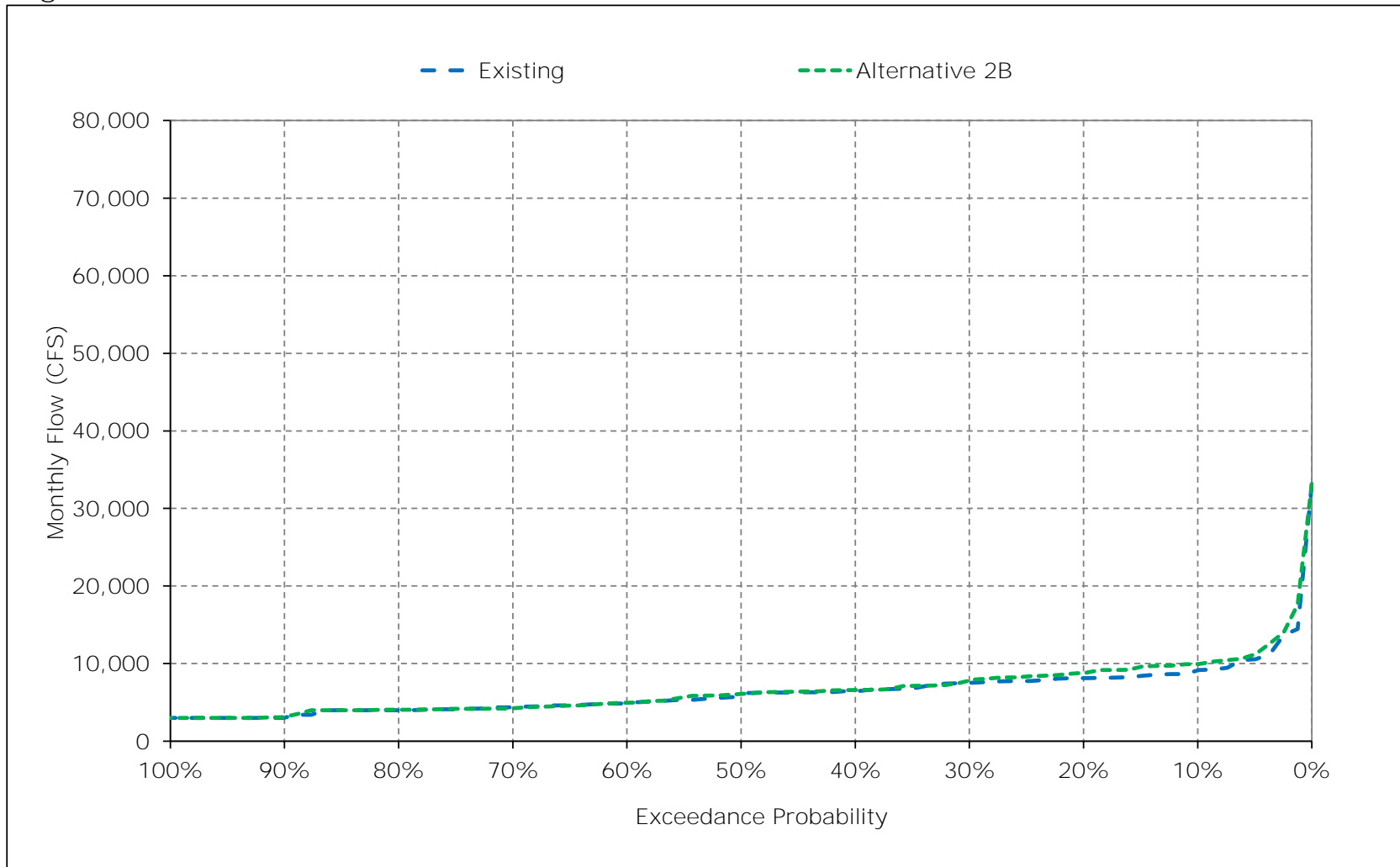


Figure 4-8. Sacramento River Flow at Rio Vista, November

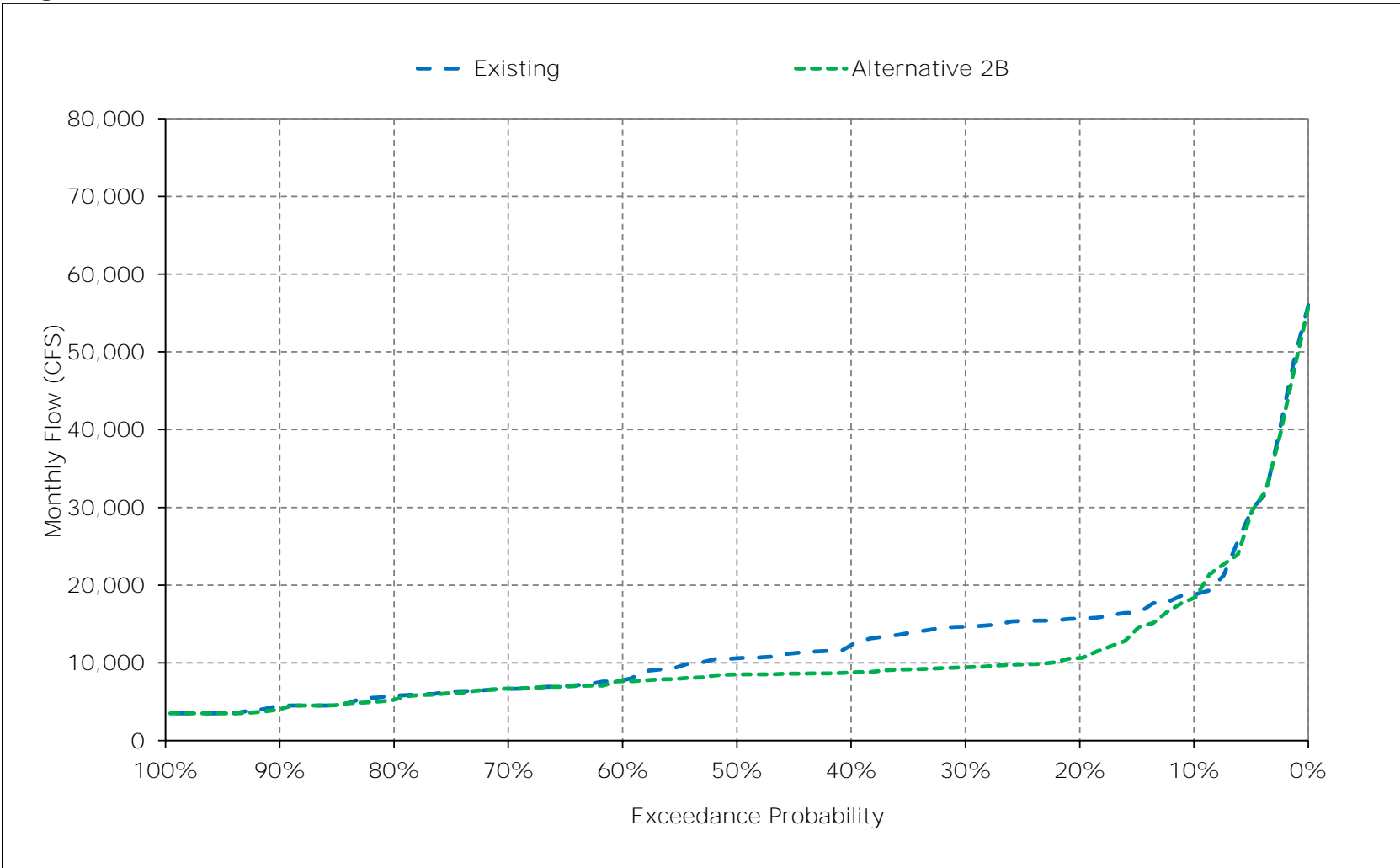


Figure 4-9. Sacramento River Flow at Rio Vista, December

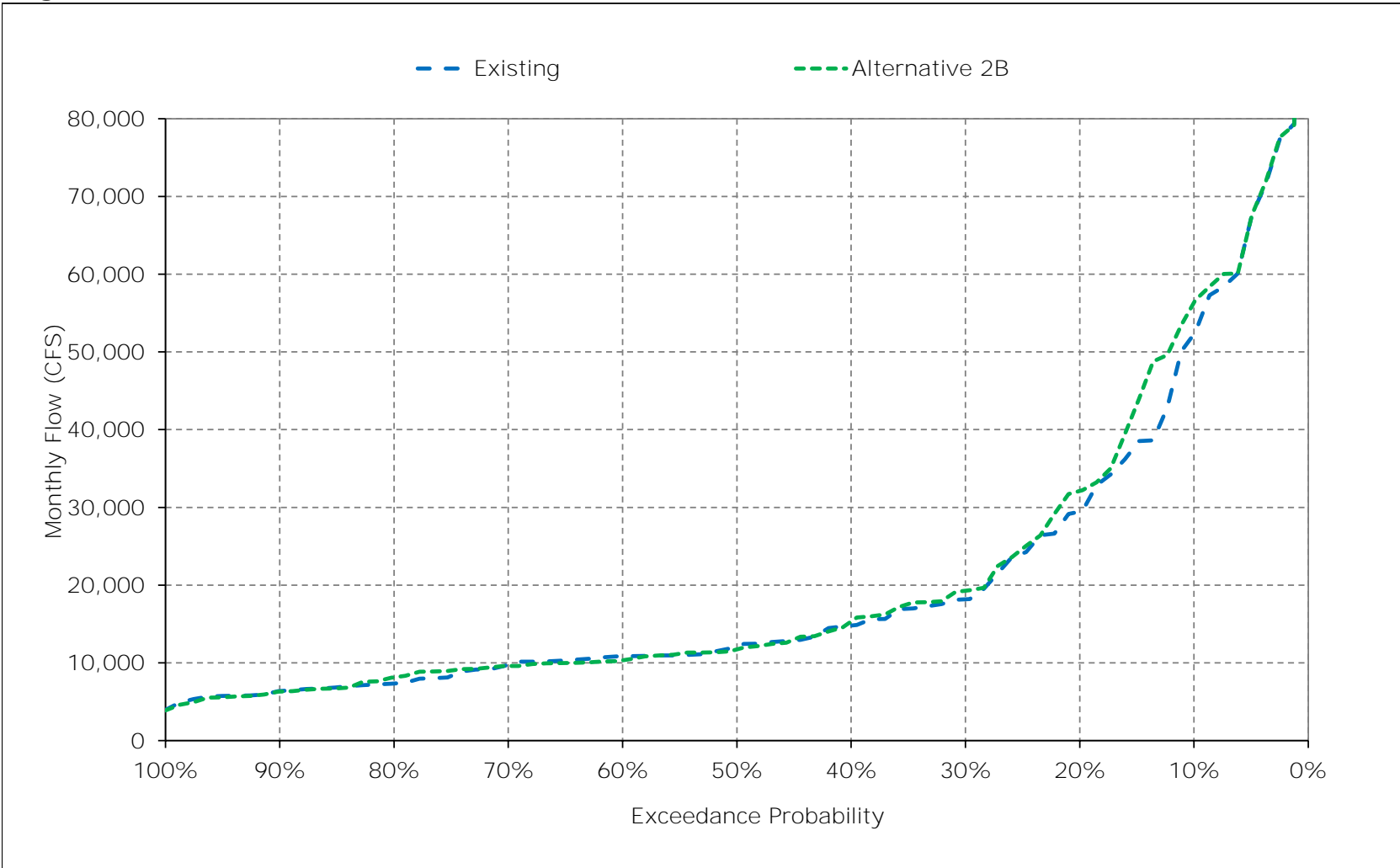


Figure 4-10. Sacramento River Flow at Rio Vista, January

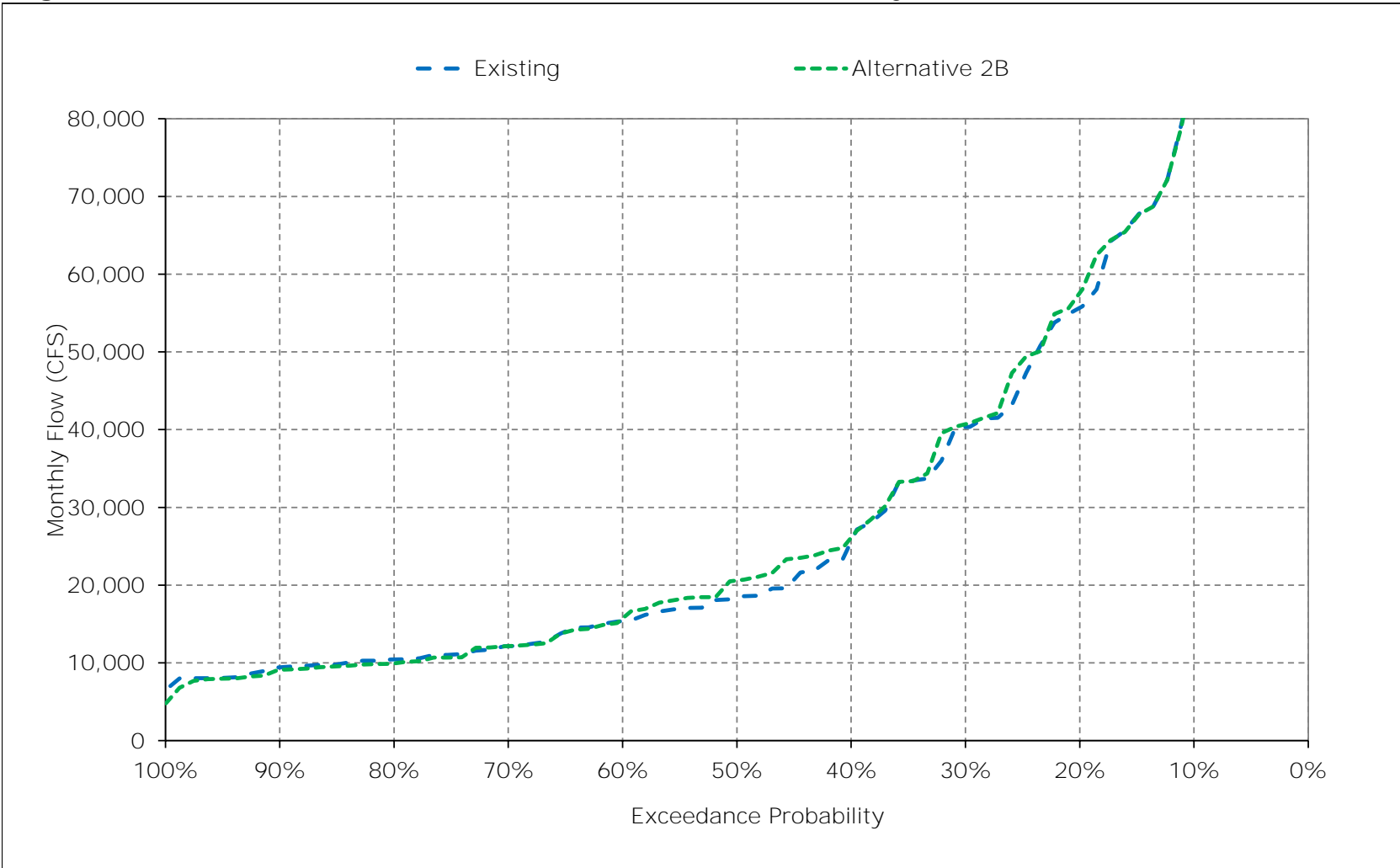


Figure 4-11. Sacramento River Flow at Rio Vista, February

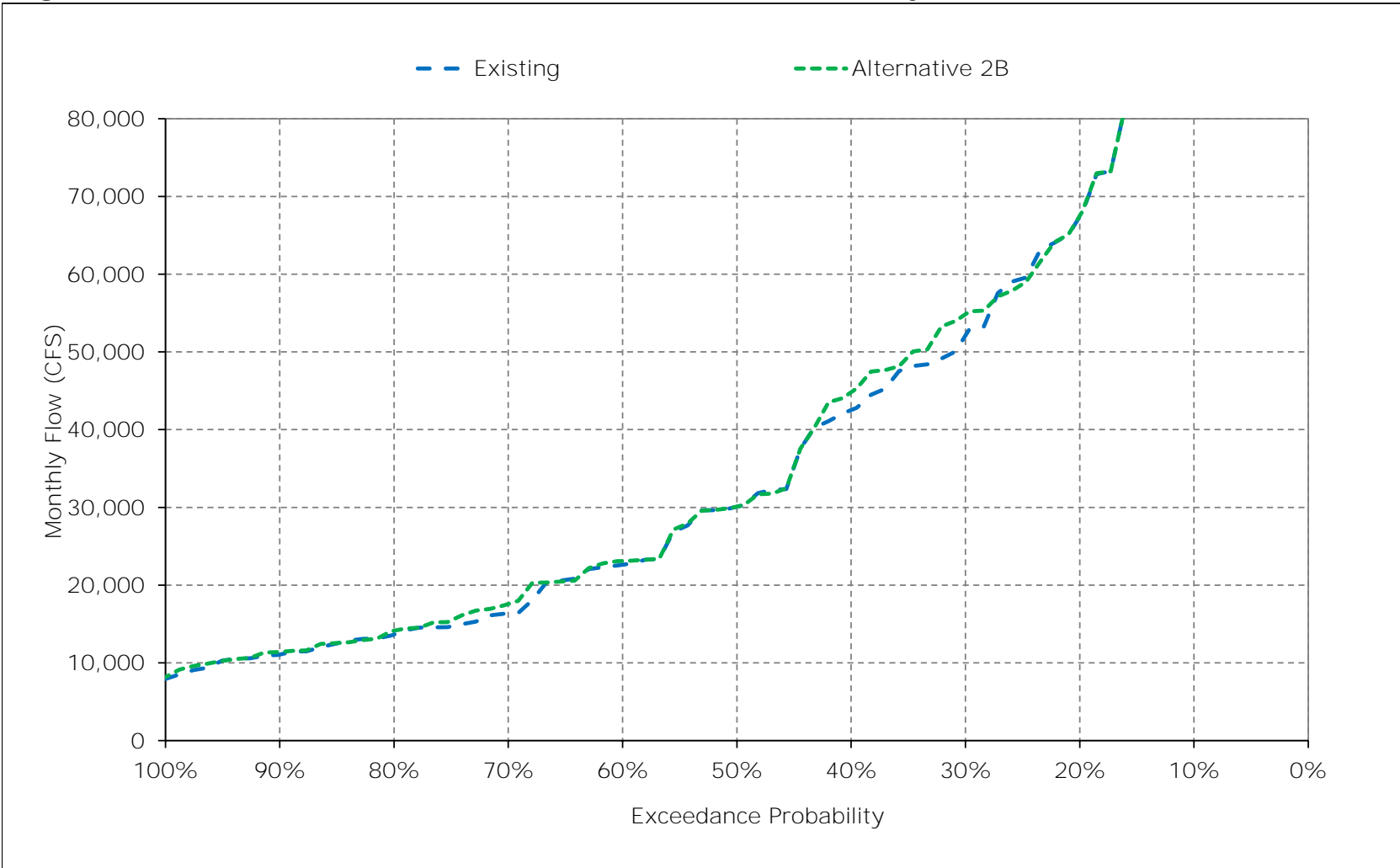




Figure 4-12. Sacramento River Flow at Rio Vista, March

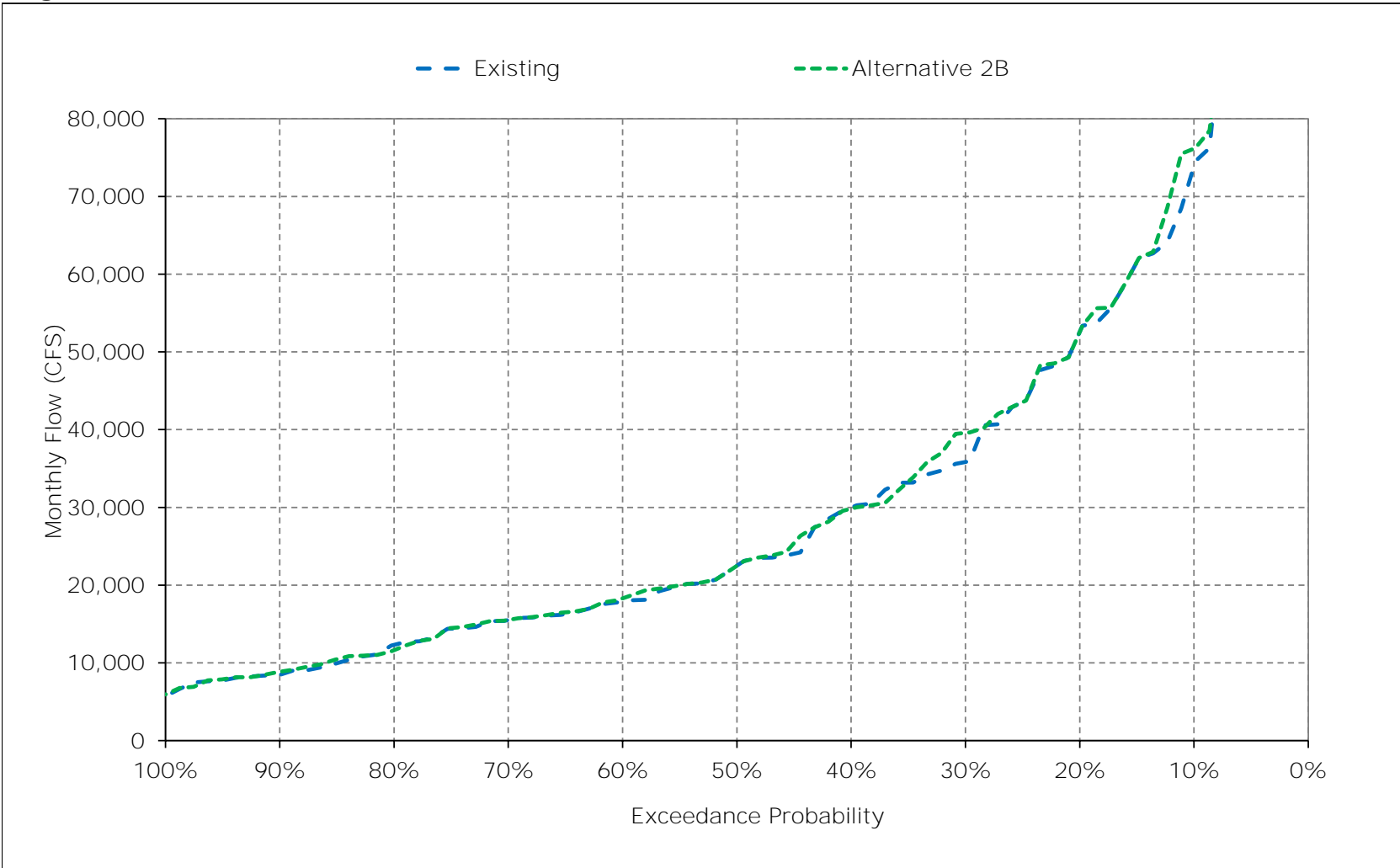


Figure 4-13. Sacramento River Flow at Rio Vista, April

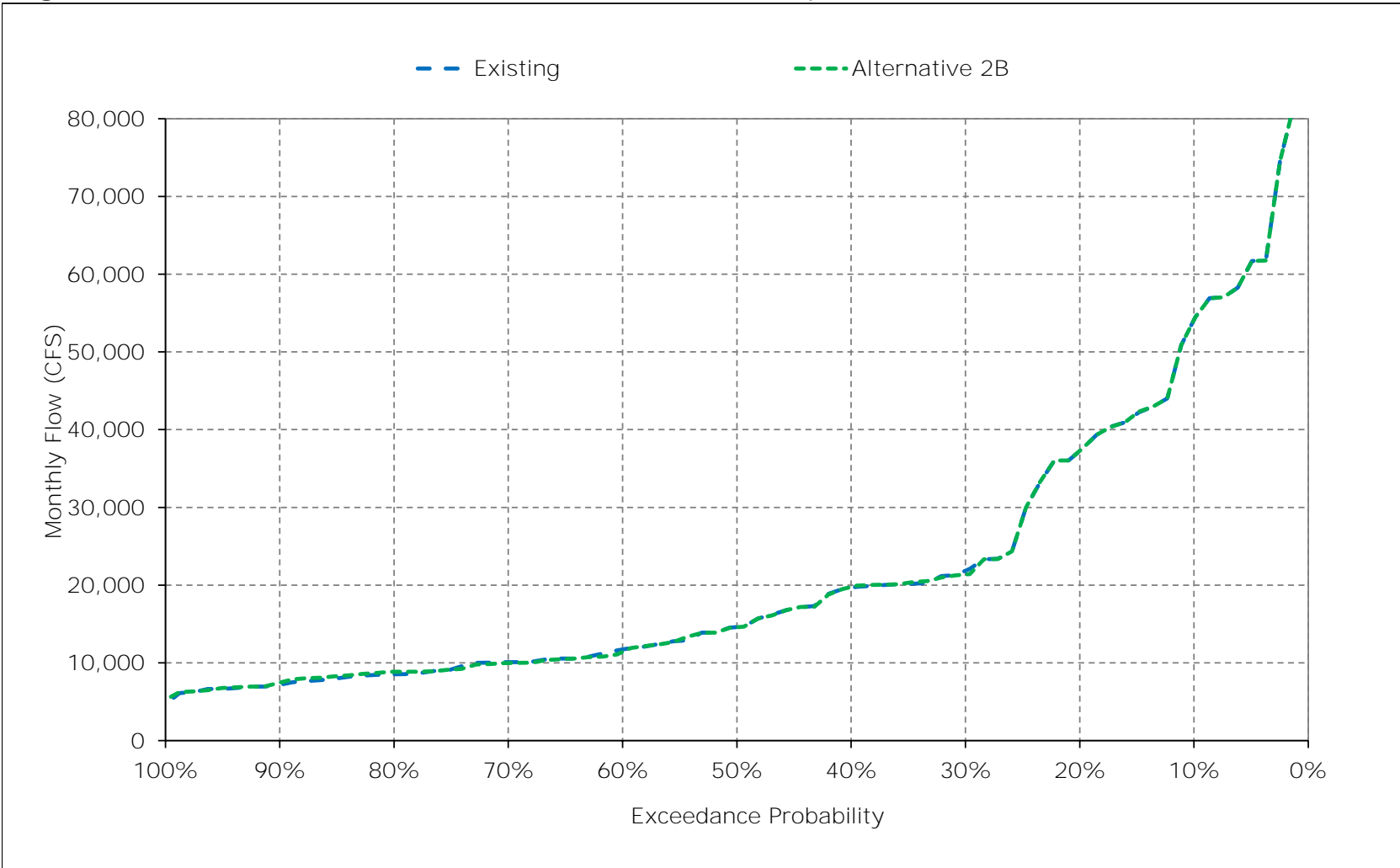


Figure 4-14. Sacramento River Flow at Rio Vista, May

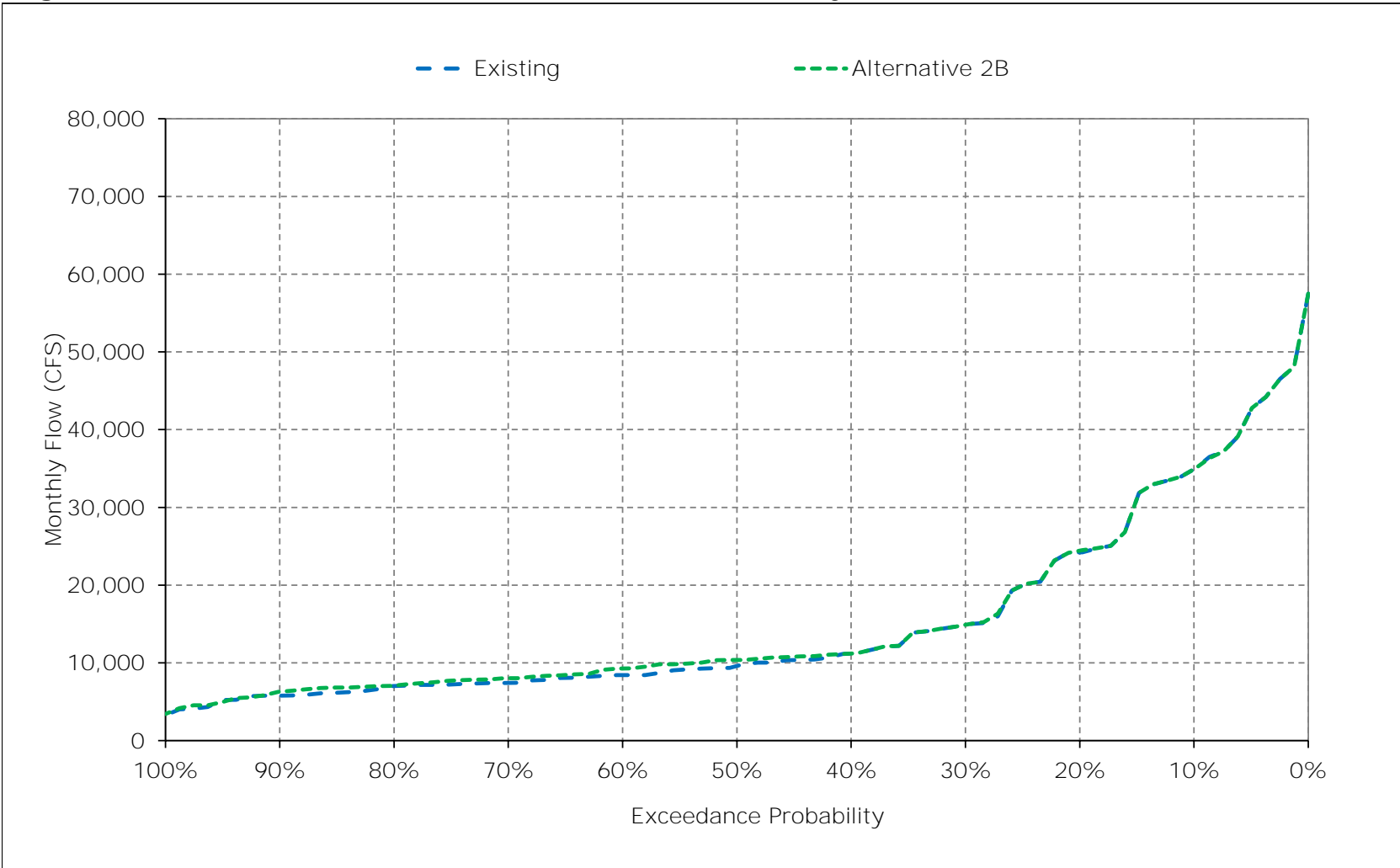


Figure 4-15. Sacramento River Flow at Rio Vista, June

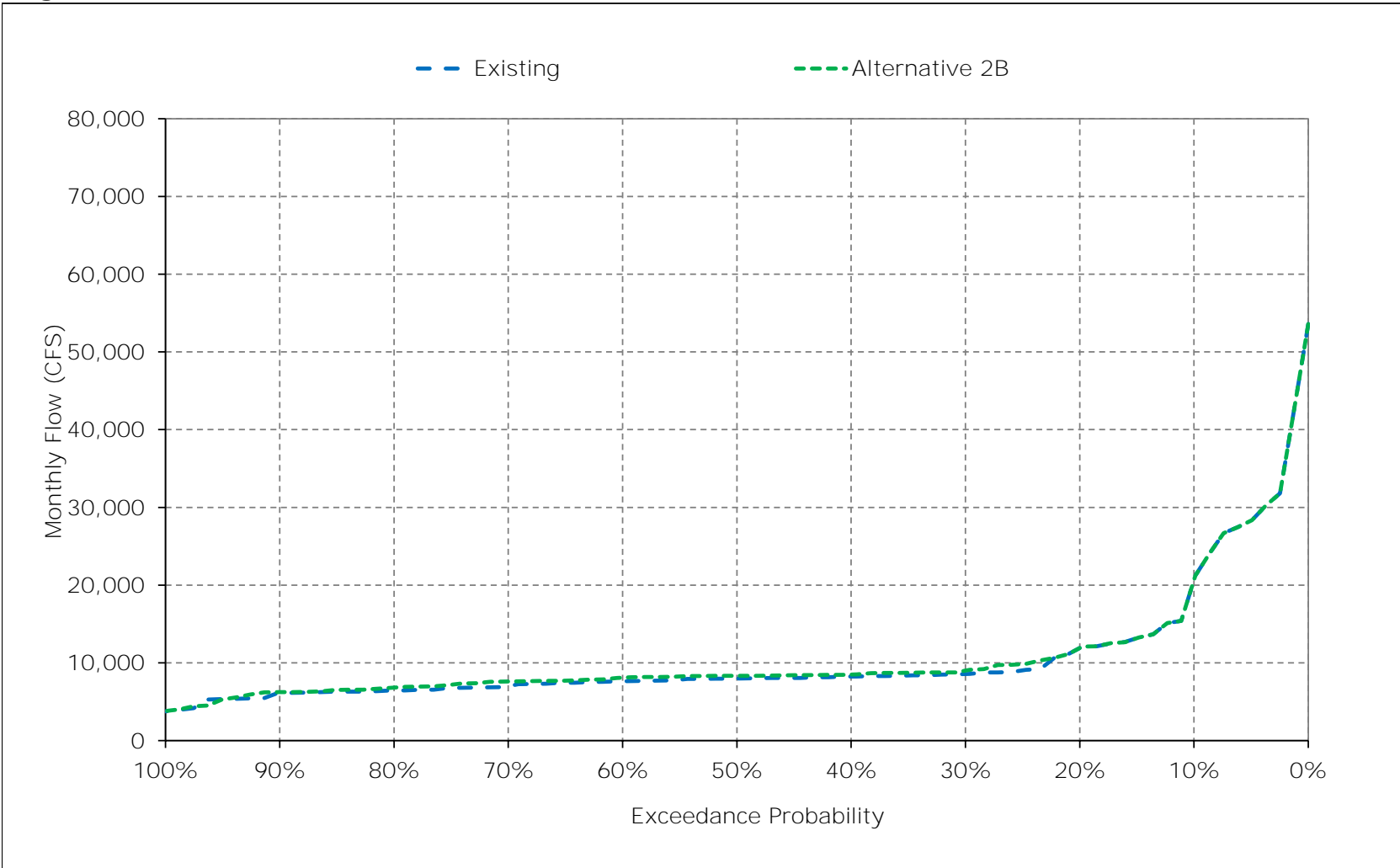


Figure 4-16. Sacramento River Flow at Rio Vista, July

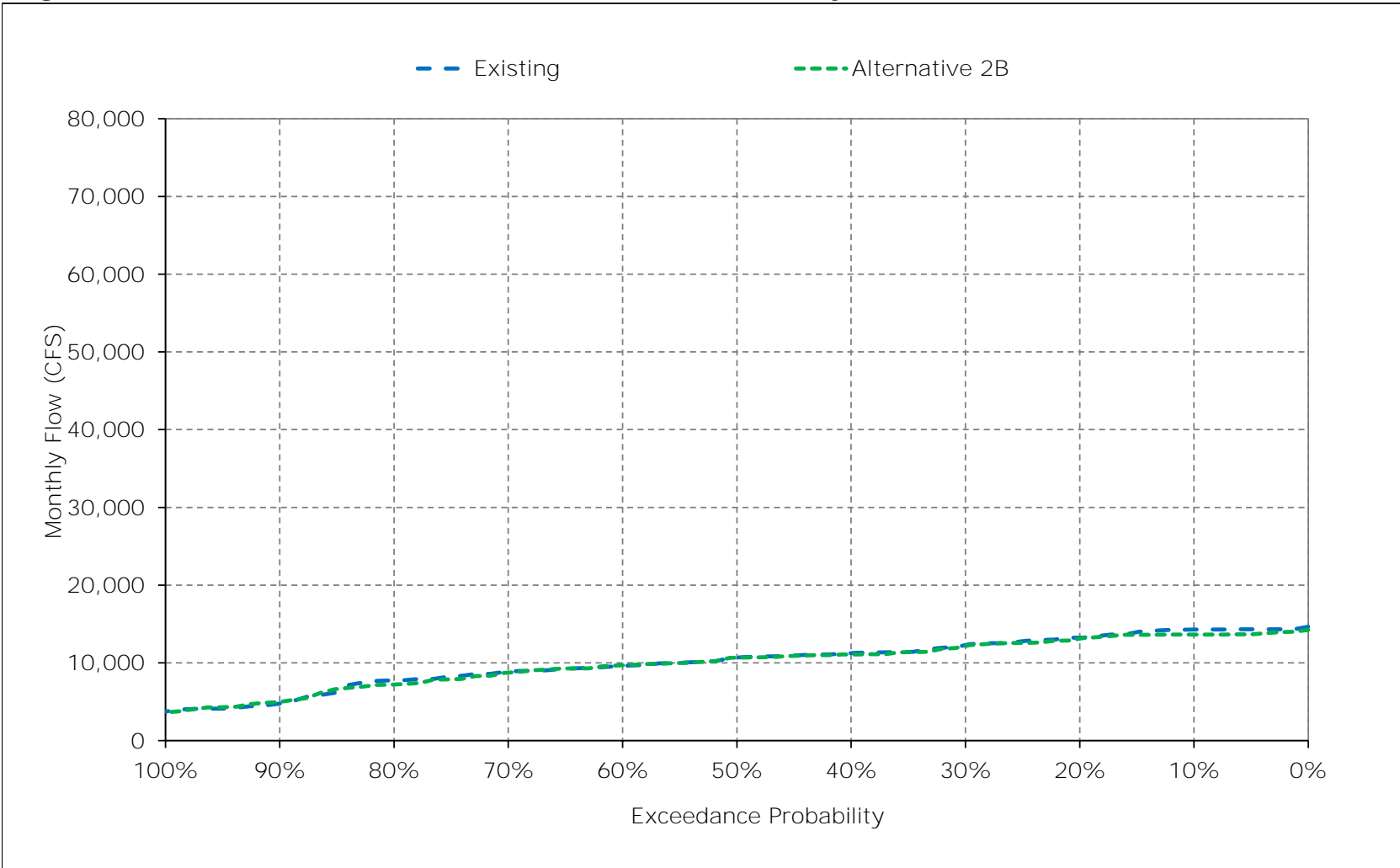


Figure 4-17. Sacramento River Flow at Rio Vista, August

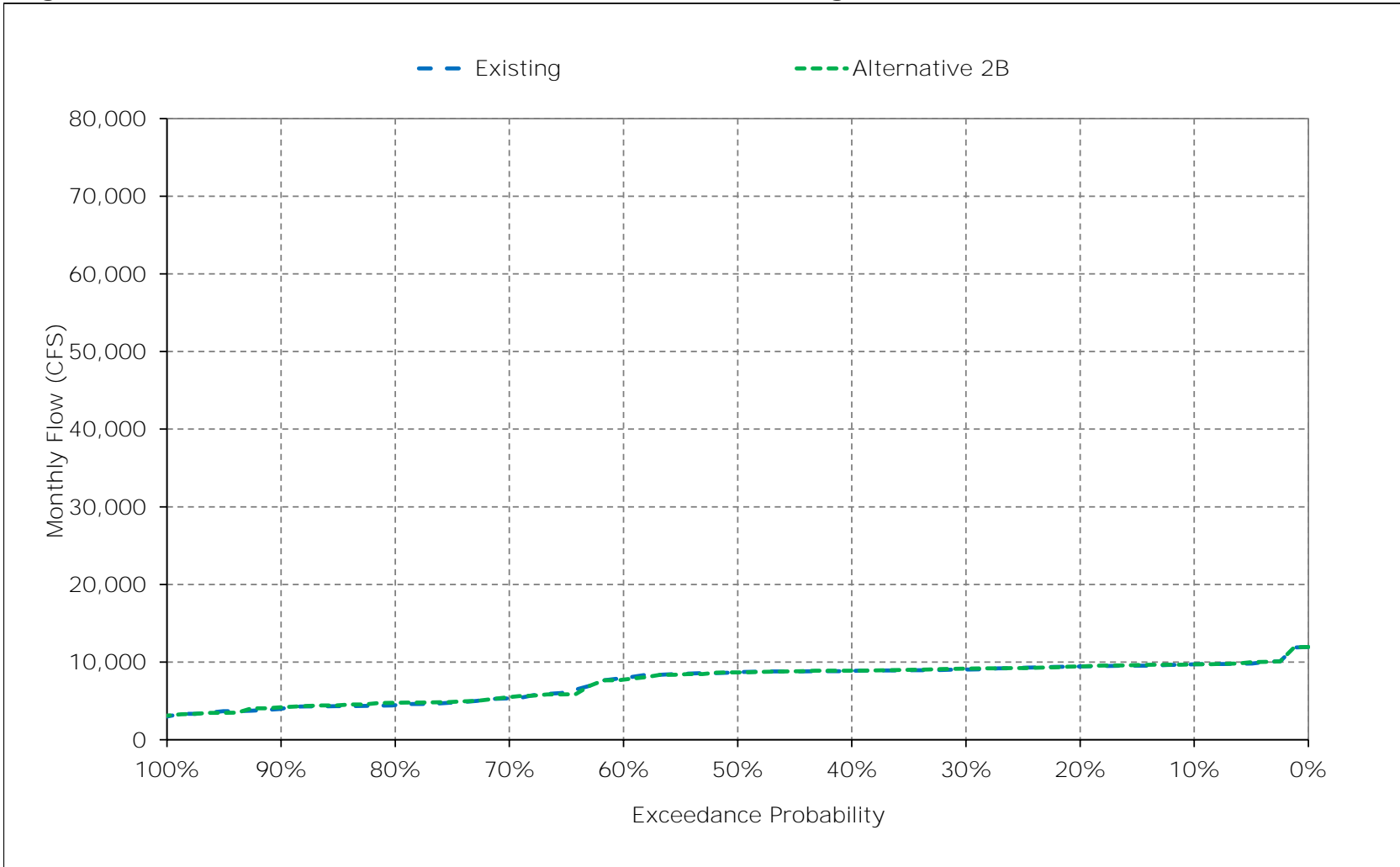


Figure 4-18. Sacramento River Flow at Rio Vista, September

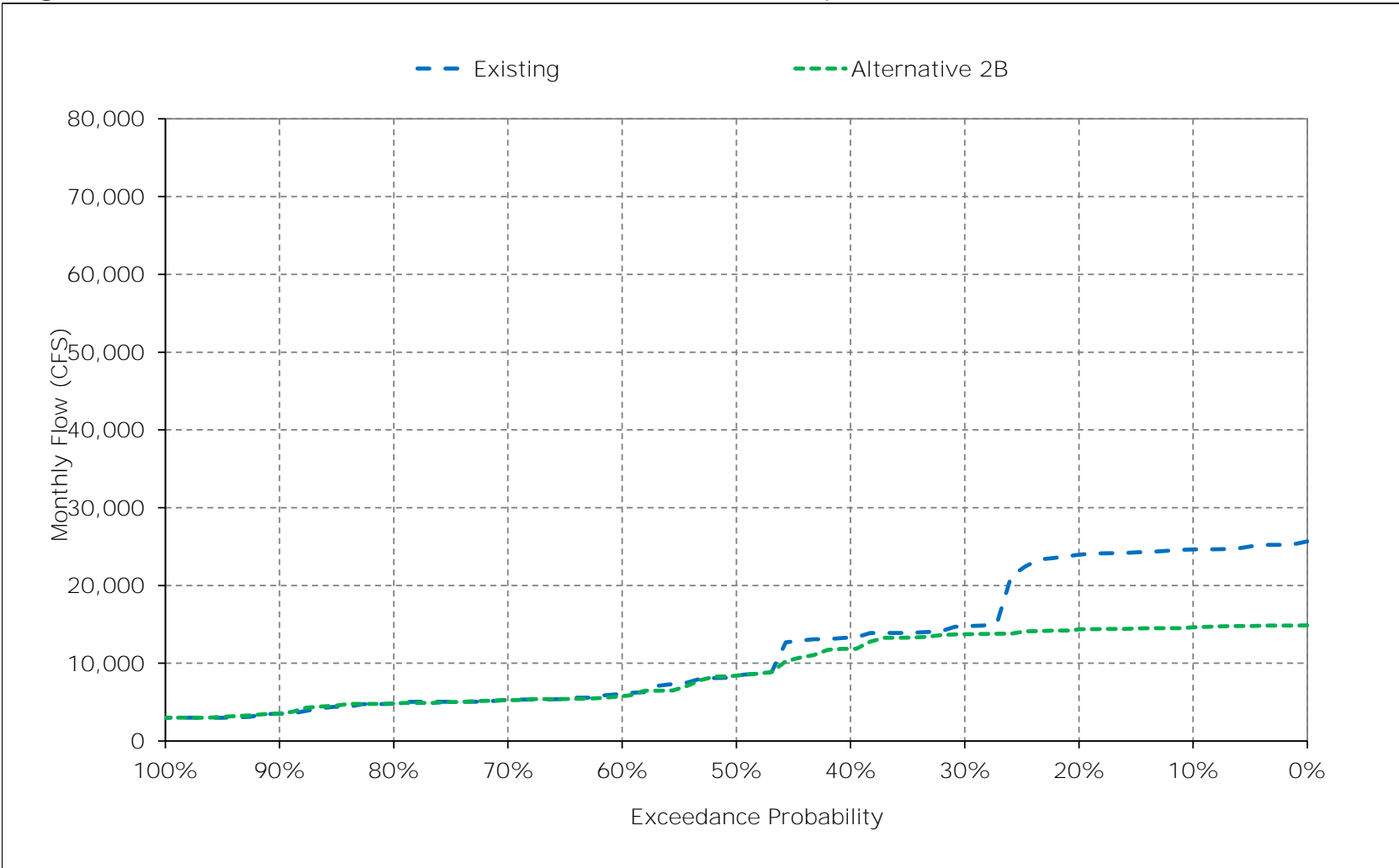


Table 5-1. San Joaquin River at Vernalis, Monthly Flow

Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,478	2,775	4,265	10,211	14,013	14,227	12,024	11,059	10,024	7,130	3,076	3,290
20%	3,115	2,561	2,816	5,121	9,911	9,351	7,937	7,369	6,949	3,529	2,780	2,817
30%	2,940	2,367	2,311	3,370	6,914	8,049	6,466	5,322	3,334	2,404	2,422	2,570
40%	2,757	2,182	2,116	2,572	4,292	6,202	5,382	4,426	2,962	1,783	1,880	2,321
50%	2,531	2,028	2,006	2,324	3,522	3,942	4,391	3,685	2,323	1,587	1,520	1,940
60%	2,405	1,957	1,936	2,179	2,808	3,420	3,513	2,937	1,845	1,393	1,437	1,842
70%	2,219	1,853	1,840	1,955	2,280	2,363	3,001	2,618	1,505	1,209	1,345	1,779
80%	2,049	1,746	1,740	1,749	2,228	1,888	2,262	2,176	1,426	1,140	1,265	1,670
90%	1,780	1,609	1,612	1,575	1,956	1,674	1,622	1,680	1,043	923	1,087	1,495
Long Term												
Full Simulation Period <sup>a</sup>	2,647	2,387	3,115	4,766	6,366	6,884	5,961	5,364	4,211	3,170	2,057	2,345
Water Year Types <sup>b,c</sup>												
Wet (32%)	2,976	3,062	4,916	9,348	11,567	13,134	10,528	9,615	8,281	6,511	3,177	3,318
Above Normal (15%)	2,337	1,975	2,828	4,077	6,178	7,223	5,874	5,054	4,541	2,744	2,026	2,377
Below Normal (17%)	2,623	2,191	2,628	3,008	5,667	4,920	4,897	4,380	2,478	1,779	1,840	2,096
Dry (22%)	2,632	2,157	2,036	2,065	2,477	2,650	3,125	2,672	1,589	1,220	1,330	1,767
Critical (15%)	2,293	1,907	1,686	1,627	1,937	1,643	1,646	1,652	1,021	907	1,004	1,358
Alternative 2B												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,479	2,776	4,265	10,216	14,896	14,724	12,155	11,839	10,077	7,137	3,464	3,511
20%	3,111	2,546	2,824	5,151	9,879	9,600	8,478	7,364	6,957	3,546	2,798	2,829
30%	2,941	2,353	2,291	3,541	7,093	7,868	6,634	5,277	2,857	2,424	2,431	2,528
40%	2,793	2,183	2,106	2,630	4,533	6,153	5,518	4,506	2,411	1,776	1,870	2,295
50%	2,556	2,028	2,006	2,407	3,487	3,942	4,457	3,530	2,101	1,579	1,519	1,944
60%	2,400	1,957	1,936	2,183	2,685	3,280	3,748	3,197	1,790	1,378	1,426	1,836
70%	2,198	1,853	1,840	1,941	2,272	2,362	2,799	2,355	1,438	1,207	1,347	1,746
80%	2,034	1,747	1,740	1,753	2,005	1,733	2,004	2,067	1,318	1,105	1,250	1,671
90%	1,758	1,609	1,612	1,569	1,769	1,498	1,515	1,524	998	908	1,075	1,480
Long Term												
Full Simulation Period <sup>a</sup>	2,650	2,383	3,103	4,759	6,446	6,776	5,970	5,328	4,070	3,189	2,068	2,360
Water Year Types <sup>b,c</sup>												
Wet (32%)	2,976	3,059	4,886	9,328	11,915	13,096	10,523	9,494	8,147	6,606	3,236	3,378
Above Normal (15%)	2,320	1,975	2,828	4,075	6,267	7,189	6,110	5,220	4,353	2,751	2,032	2,380
Below Normal (17%)	2,660	2,191	2,628	3,013	5,574	4,753	5,178	4,554	2,275	1,782	1,843	2,095
Dry (22%)	2,611	2,147	2,025	2,061	2,405	2,510	2,887	2,501	1,455	1,199	1,309	1,754
Critical (15%)	2,322	1,907	1,686	1,628	1,856	1,431	1,513	1,554	968	851	973	1,351
Alternative 2B minus Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	5	883	496	131	780	54	8	388	222
20%	-5	-15	8	30	-31	250	541	-6	8	18	18	11
30%	2	-14	-21	172	179	-180	167	-45	-477	20	9	-43
40%	36	0	-10	58	241	-48	136	80	-551	-7	-10	-27
50%	26	0	0	83	-36	0	66	-155	-222	-9	-1	4
60%	-5	0	0	4	-123	-140	235	260	-55	-14	-11	-6
70%	-21	0	0	-14	-8	0	-203	-263	-67	-1	1	-33
80%	-15	0	0	3	-223	-155	-258	-109	-108	-35	-15	2
90%	-21	0	0	-6	-187	-175	-107	-156	-44	-16	-12	-16
Long Term												
Full Simulation Period <sup>a</sup>	3	-3	-12	-7	80	-107	9	-36	-142	19	11	15
Water Year Types <sup>b,c</sup>												
Wet (32%)	0	-3	-30	-21	348	-38	-5	-122	-133	95	59	60
Above Normal (15%)	-17	0	0	-2	89	-33	236	166	-188	7	5	3
Below Normal (17%)	36	0	0	5	-93	-167	280	174	-204	3	3	-1
Dry (22%)	-21	-11	-11	-4	-72	-140	-238	-171	-134	-21	-21	-13
Critical (15%)	29	0	0	2	-81	-212	-132	-98	-53	-56	-31	-7

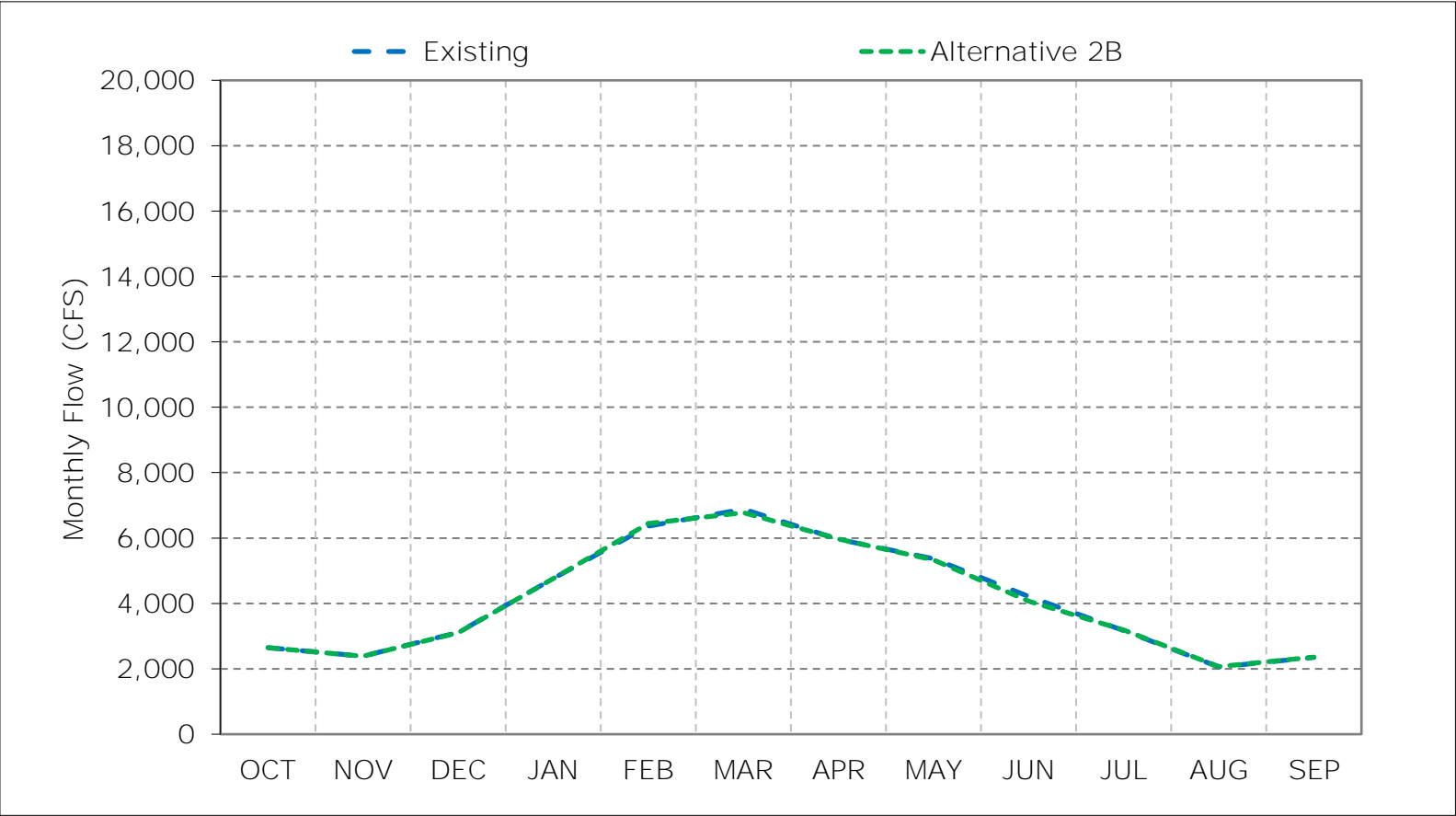
a Based on the 82-year simulation period.

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 water year - year type sorting.

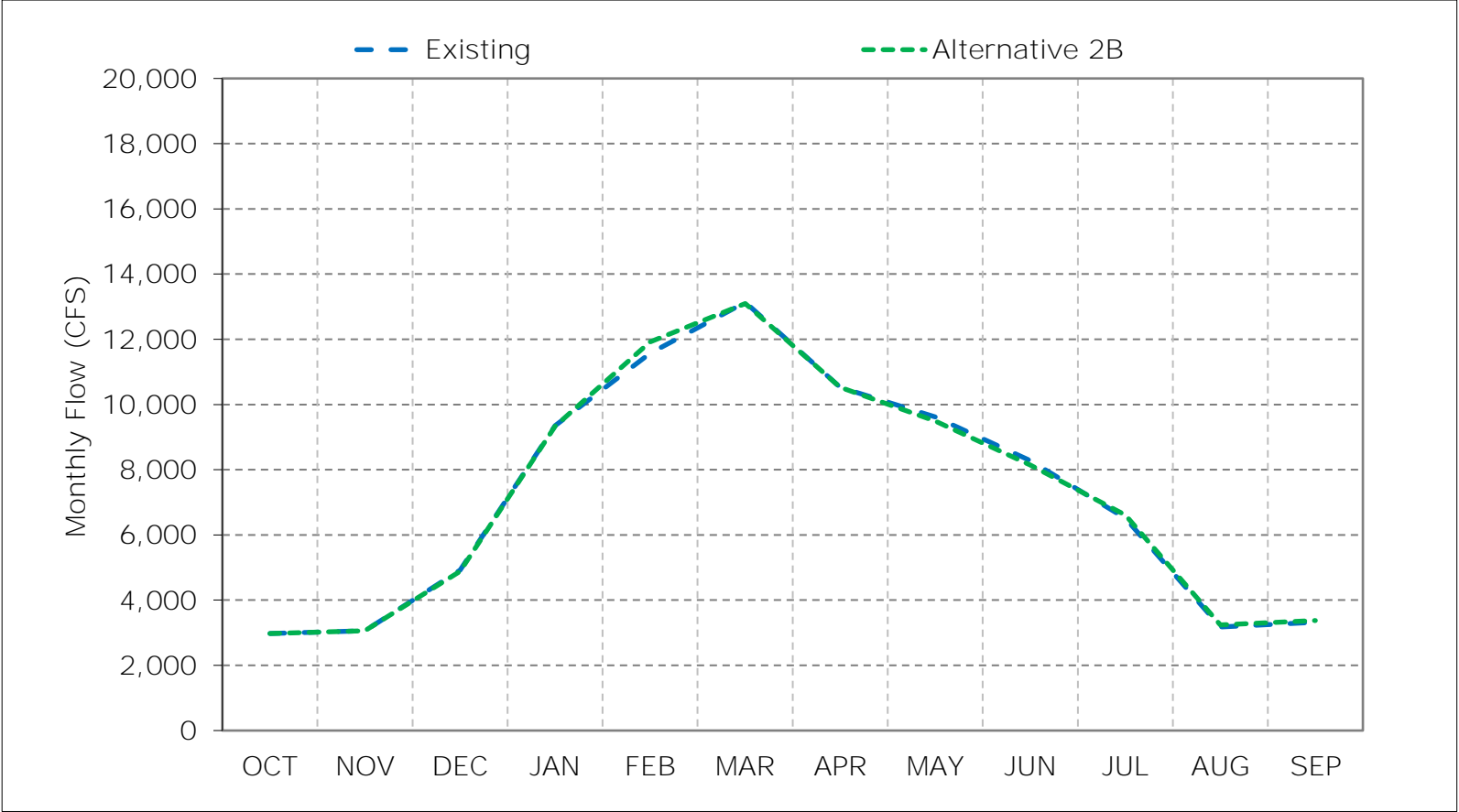


Figure 5-1. San Joaquin River at Vernalis, Long-Term Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

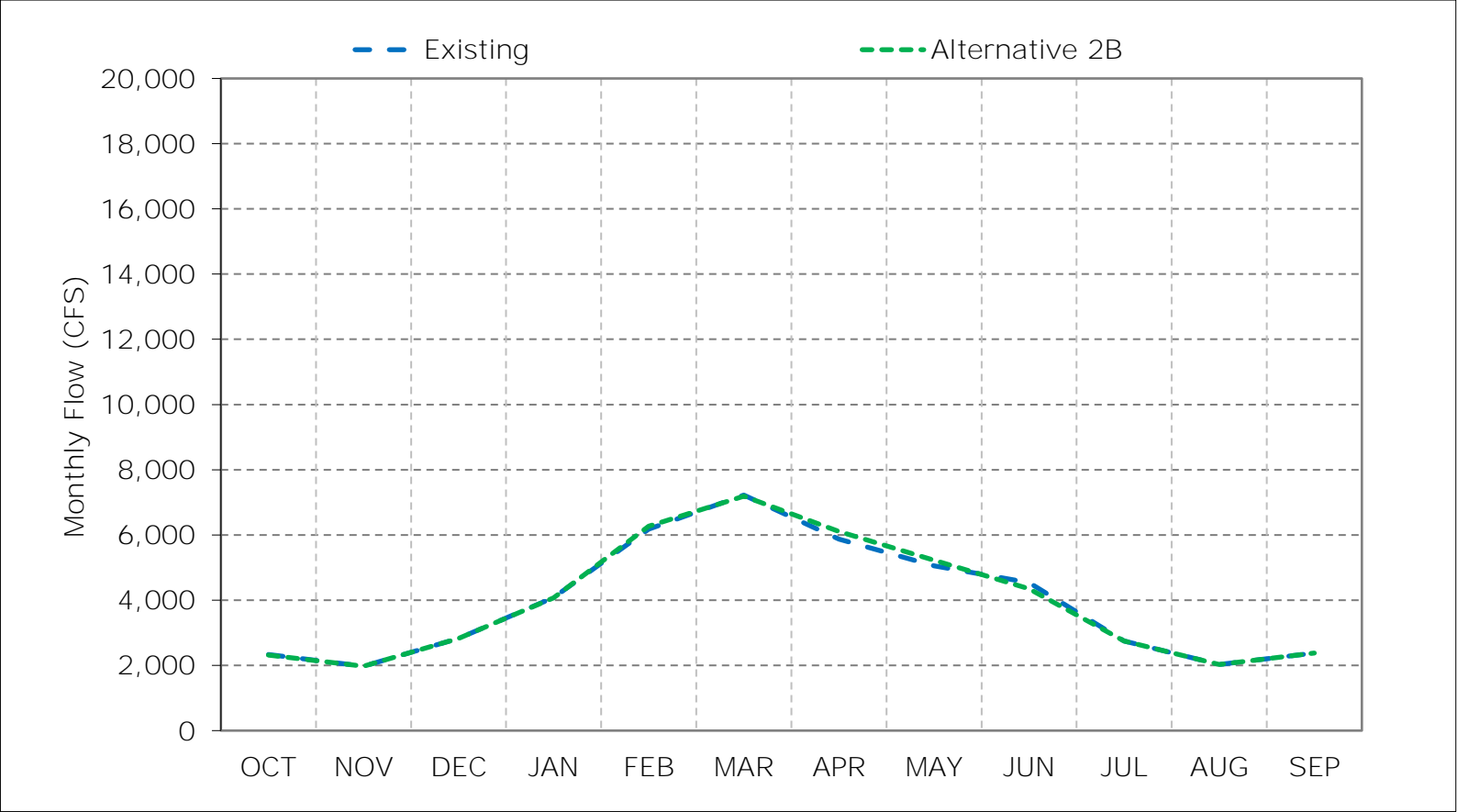
Figure 5-2. San Joaquin River at Vernalis, Wet Year Average Flow



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

\*These results are displayed with water year - year type sorting.

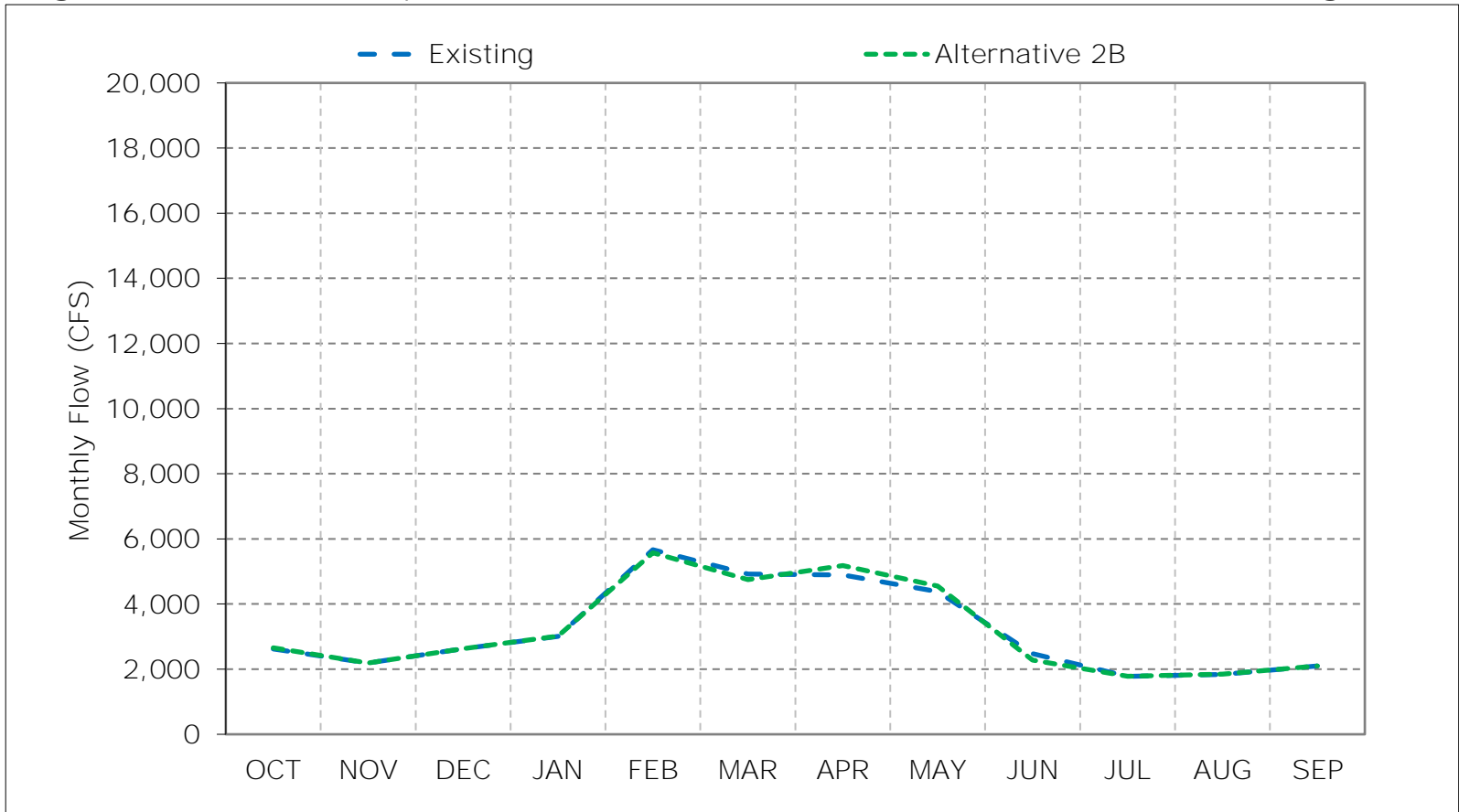
Figure 5-3. San Joaquin River at Vernalis, Above Normal Year Average Flow



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

\*These results are displayed with water year - year type sorting.

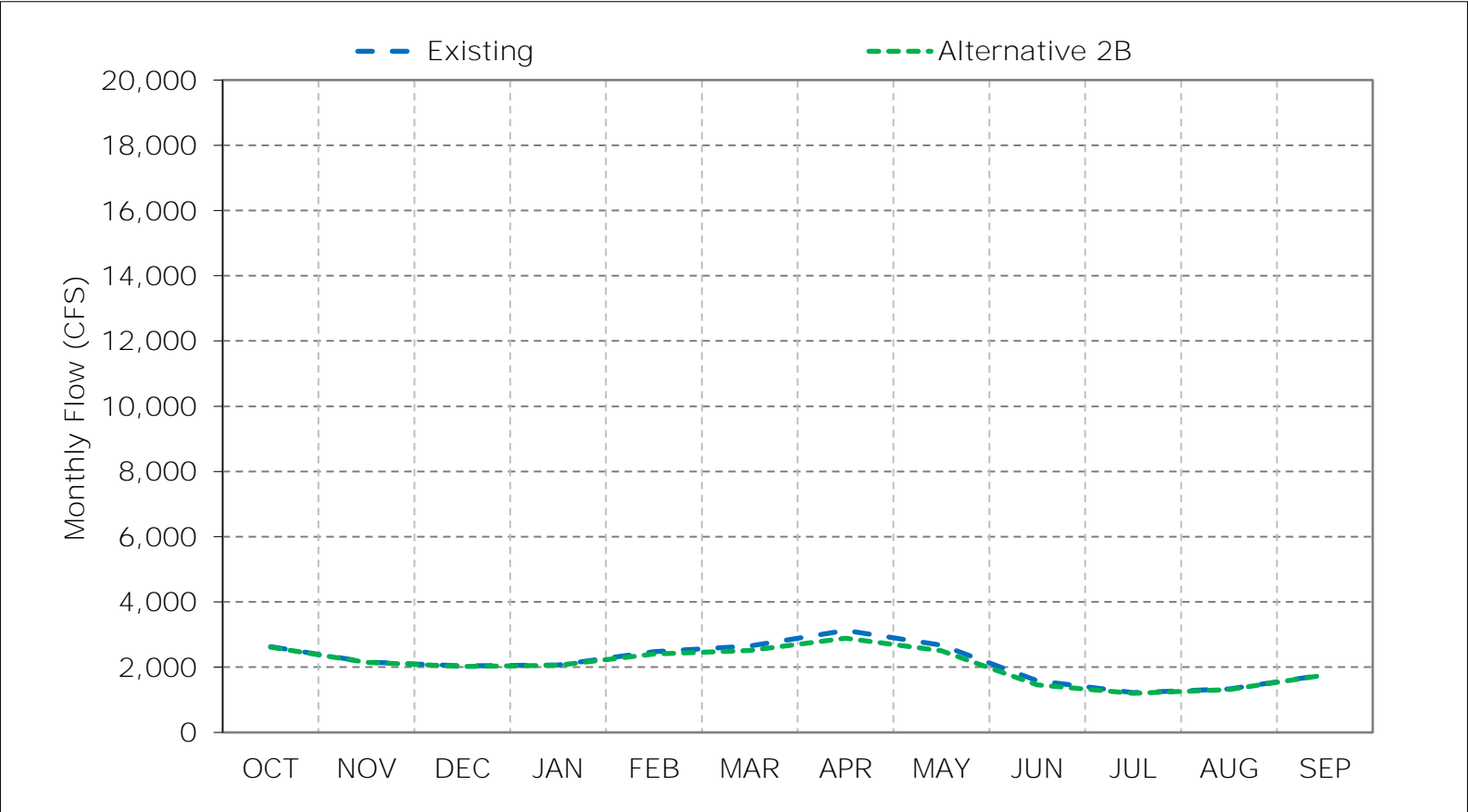
Figure 5-4. San Joaquin River at Vernalis, Below Normal Year Average Flow



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

\*These results are displayed with water year - year type sorting.

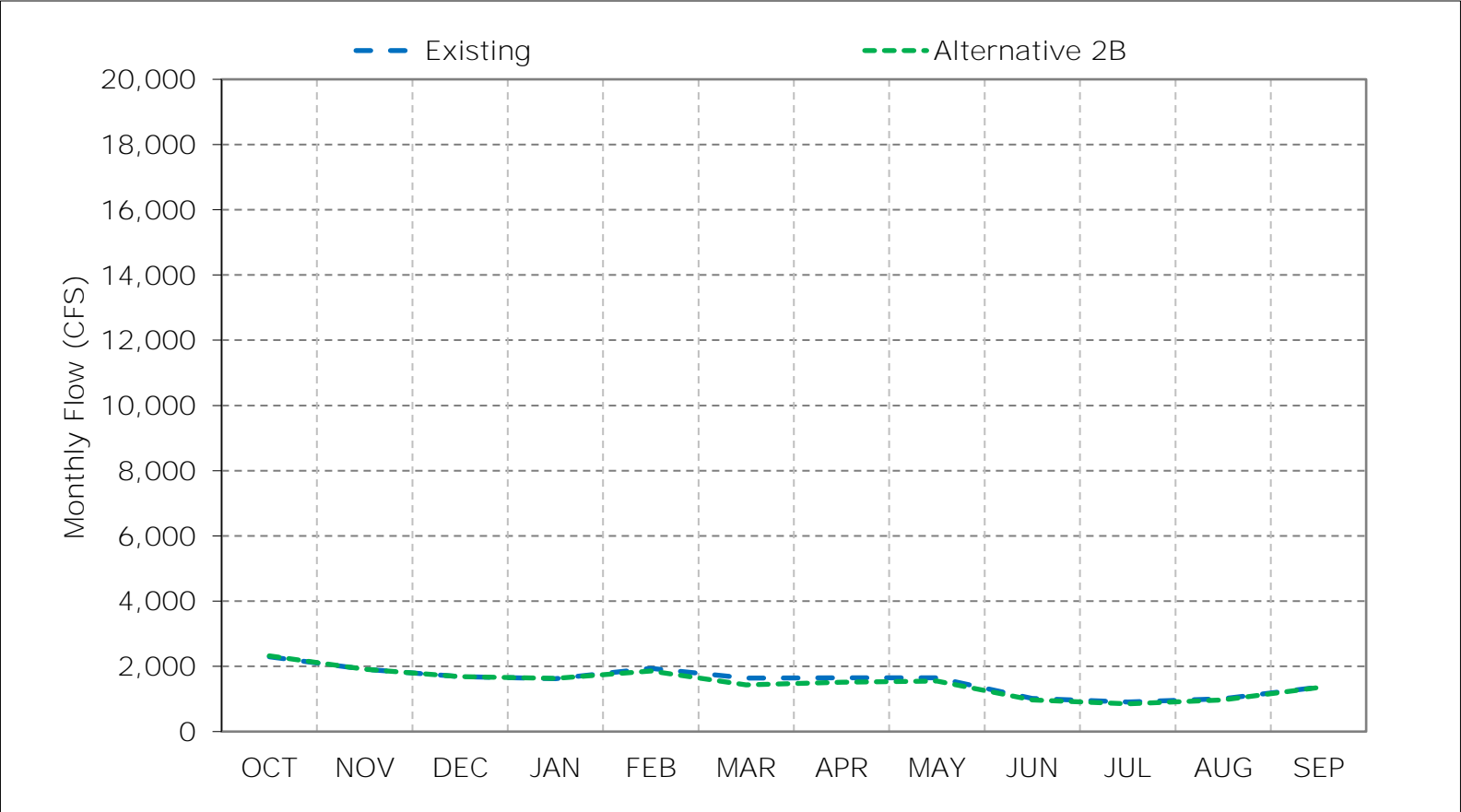
Figure 5-5. San Joaquin River at Vernalis, Dry Year Average Flow



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

\*These results are displayed with water year - year type sorting.

Figure 5-6. San Joaquin River at Vernalis, Critical Year Average Flow



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

\*These results are displayed with water year - year type sorting.

Figure 5-7. San Joaquin River at Vernalis, October

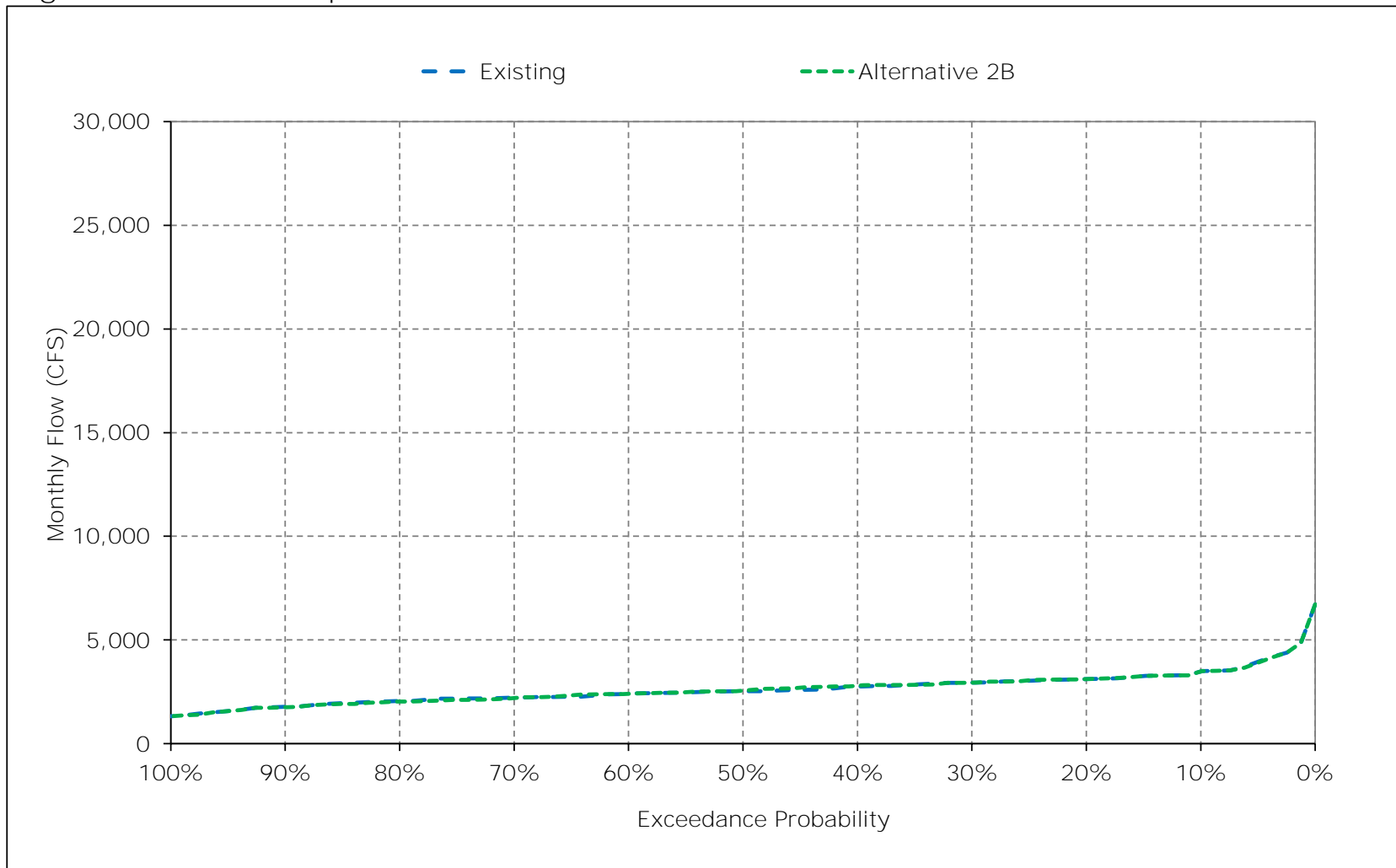


Figure 5-8. San Joaquin River at Vernalis, November

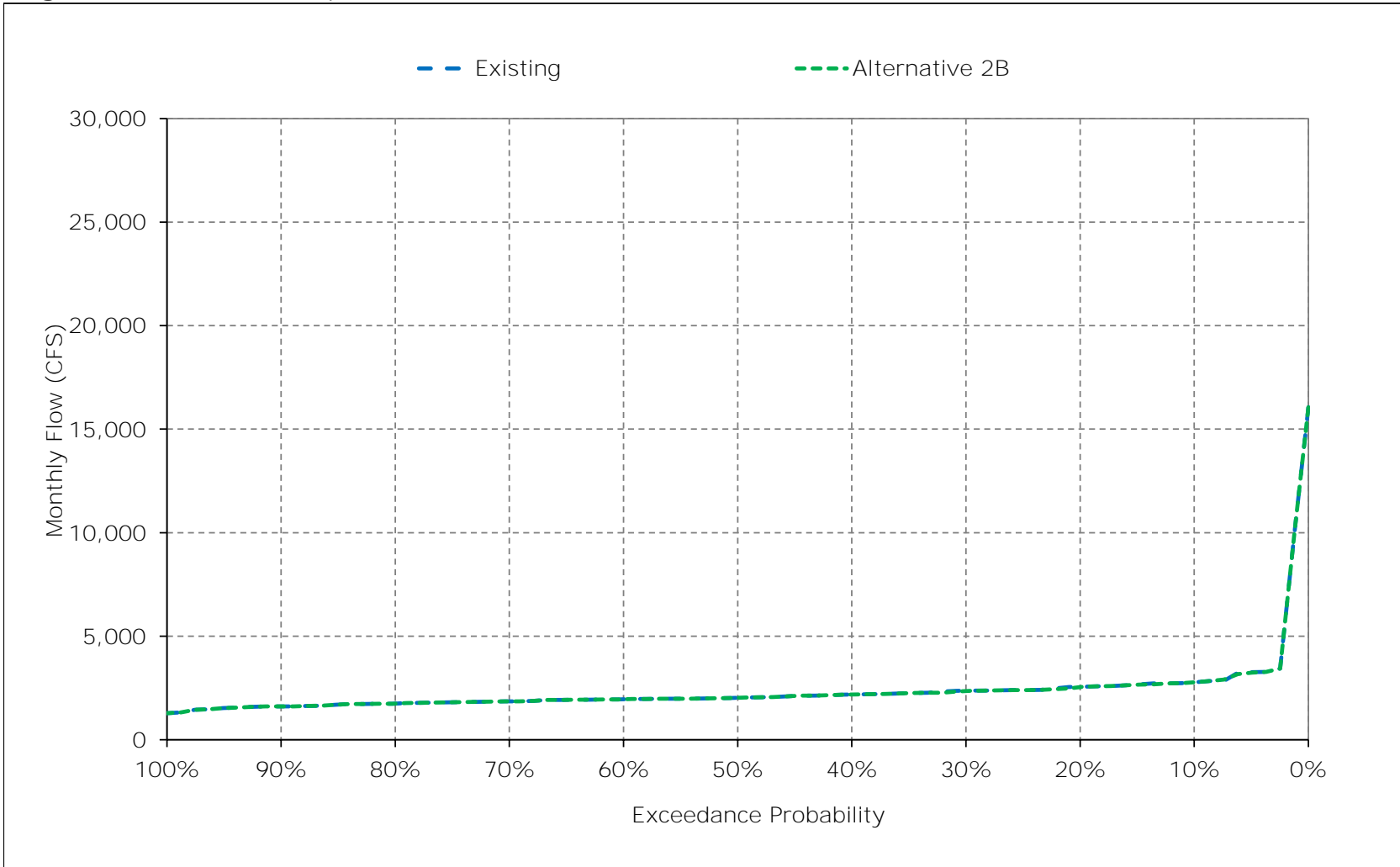




Figure 5-9. San Joaquin River at Vernalis, December

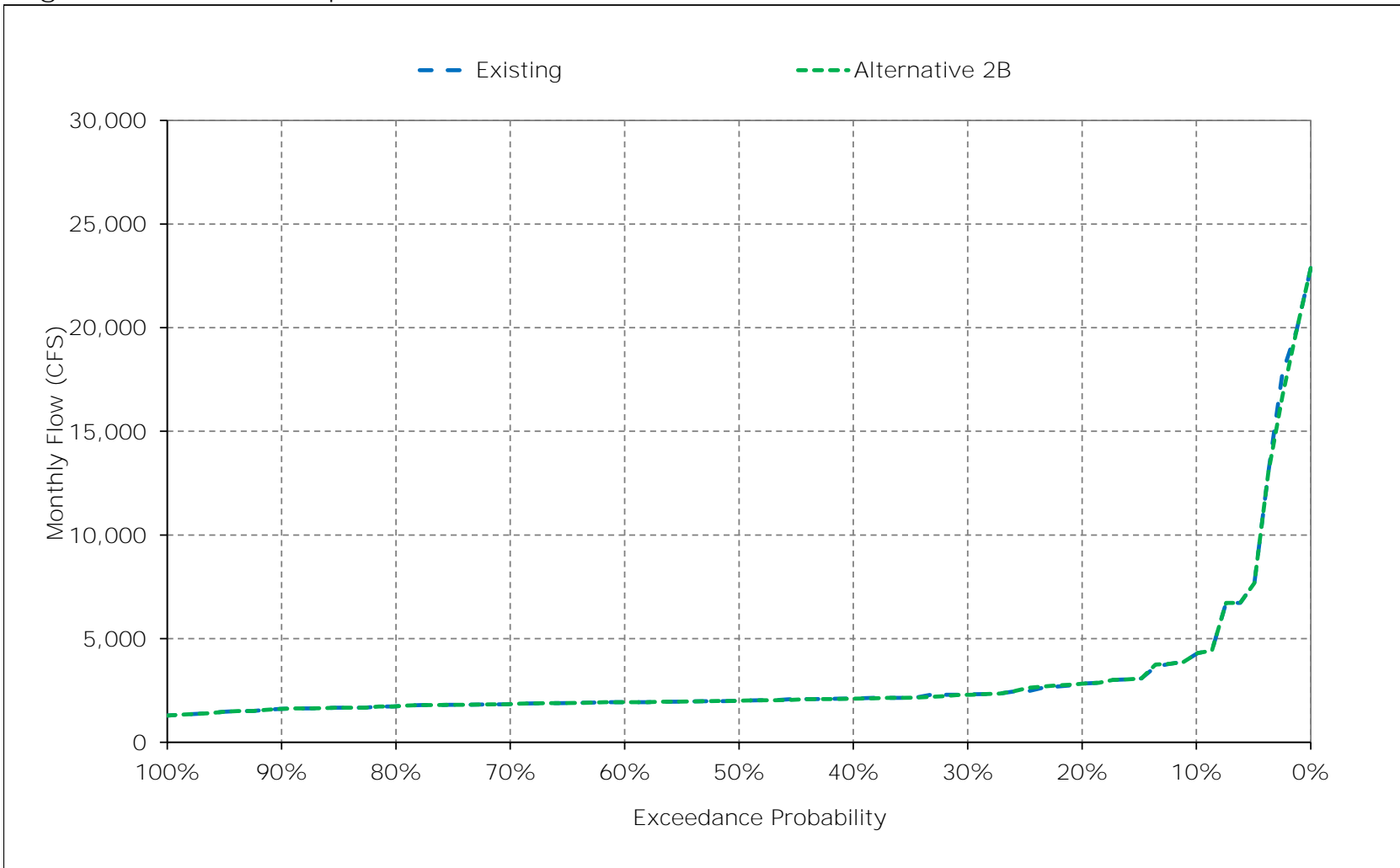


Figure 5-10. San Joaquin River at Vernalis, January

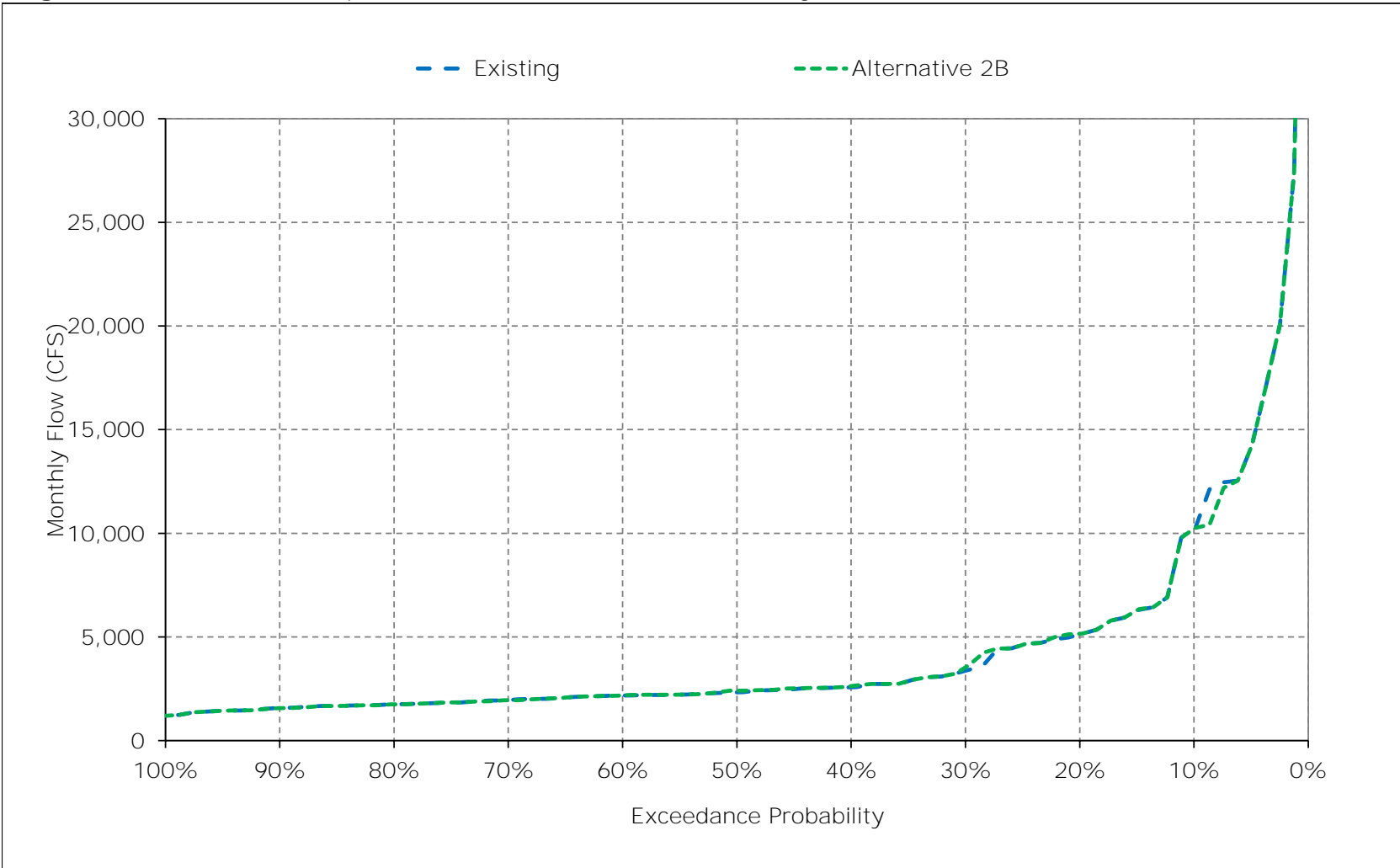


Figure 5-11. San Joaquin River at Vernalis, February

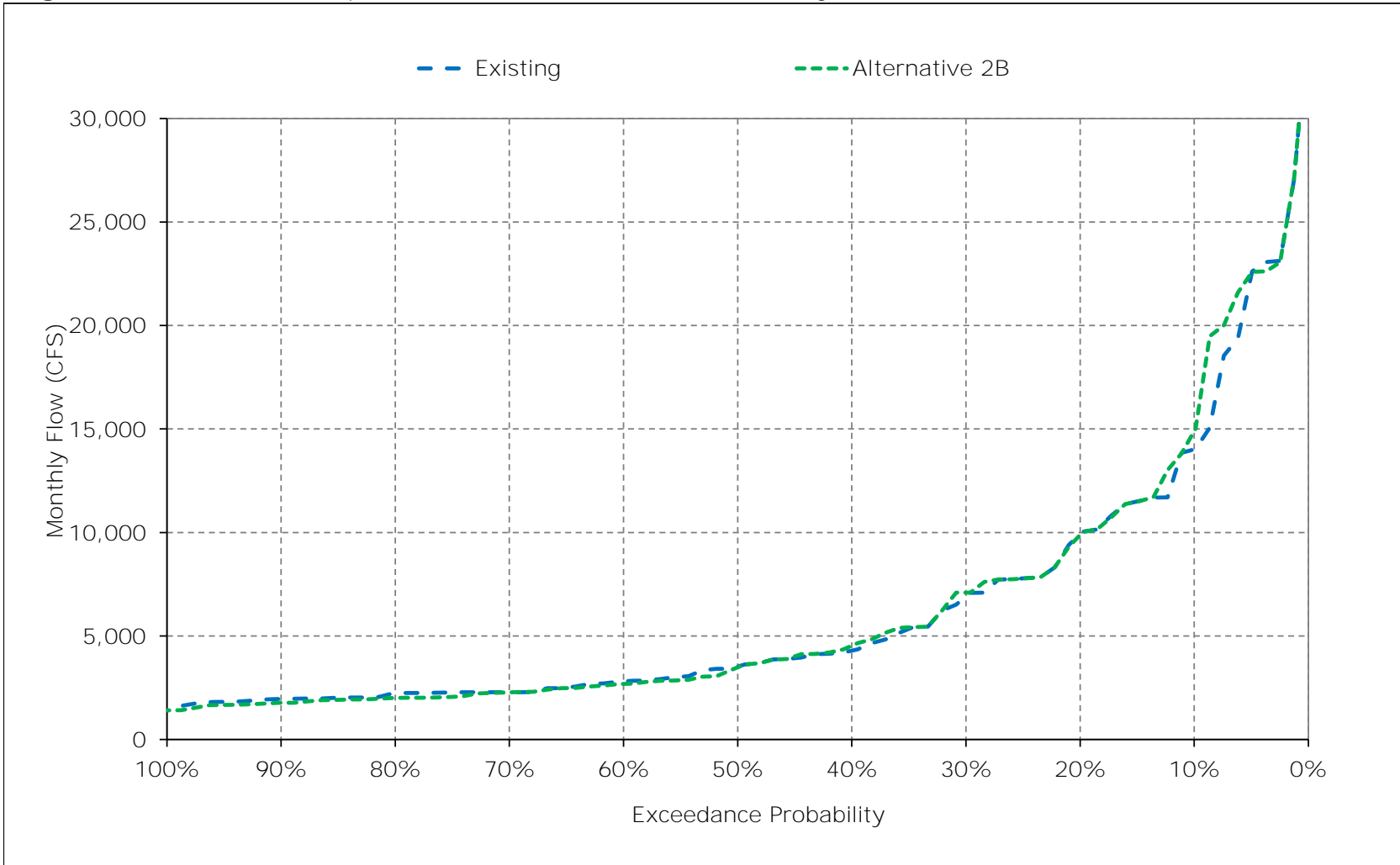


Figure 5-12. San Joaquin River at Vernalis, March

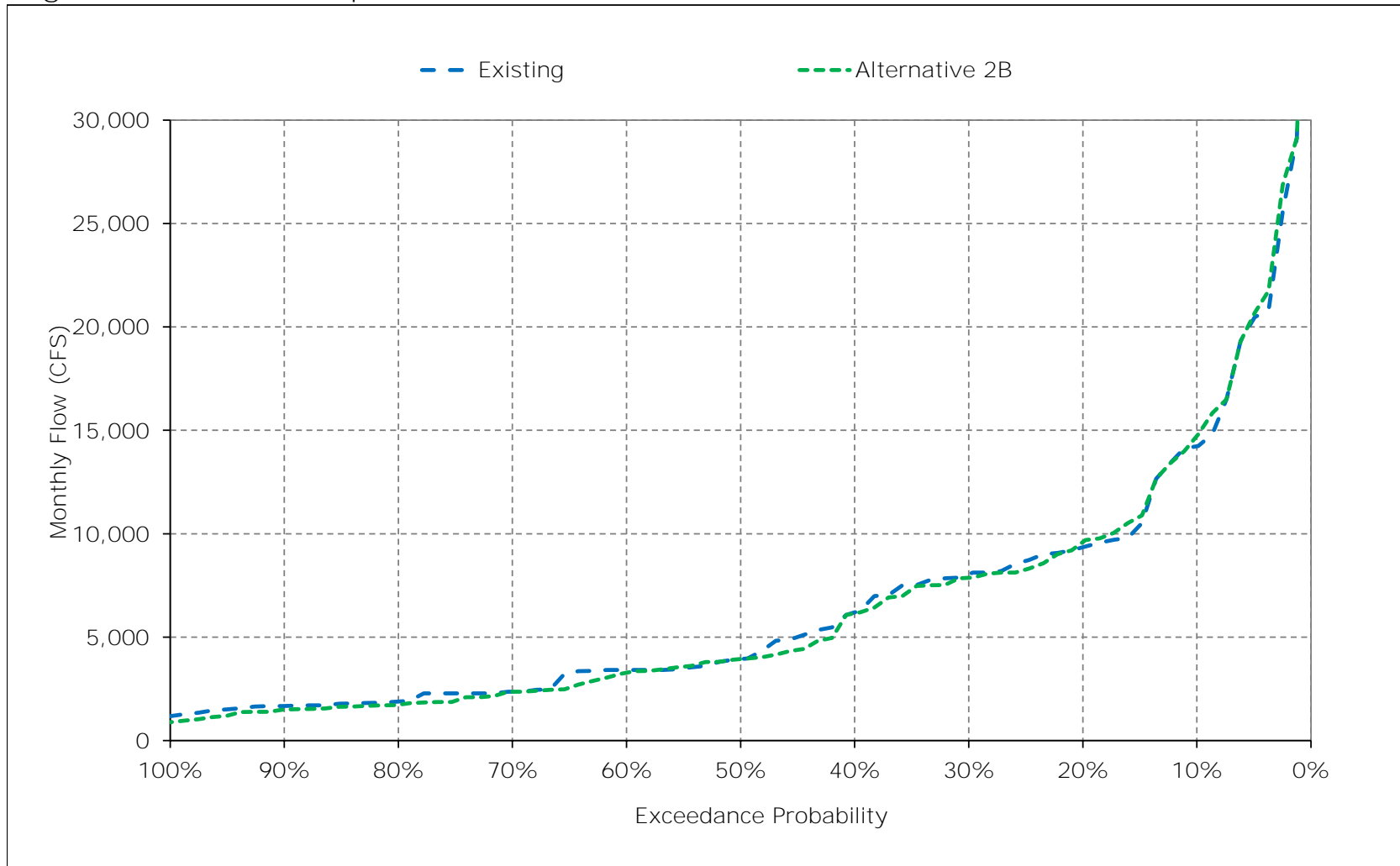


Figure 5-13. San Joaquin River at Vernalis, April

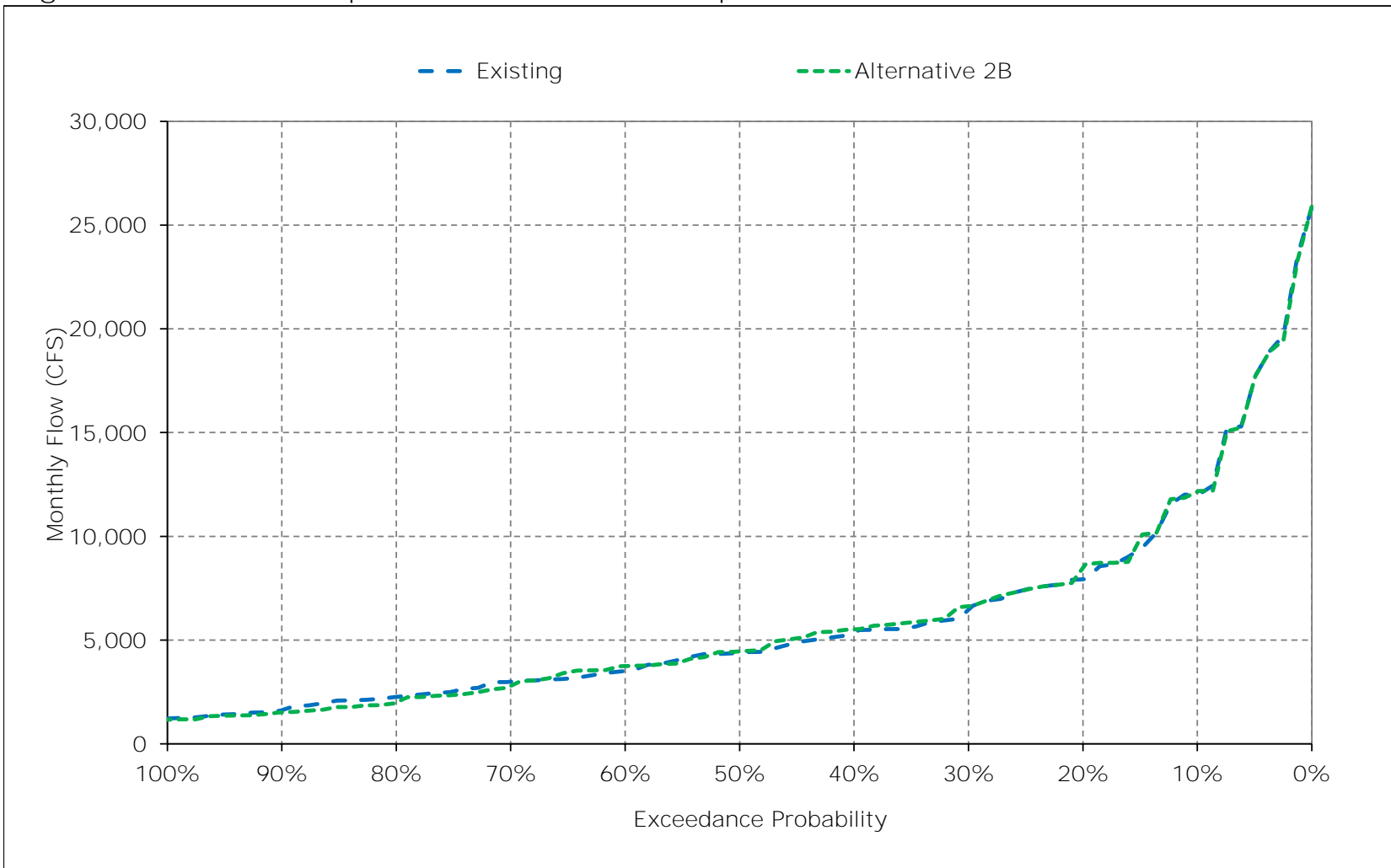


Figure 5-14. San Joaquin River at Vernalis, May

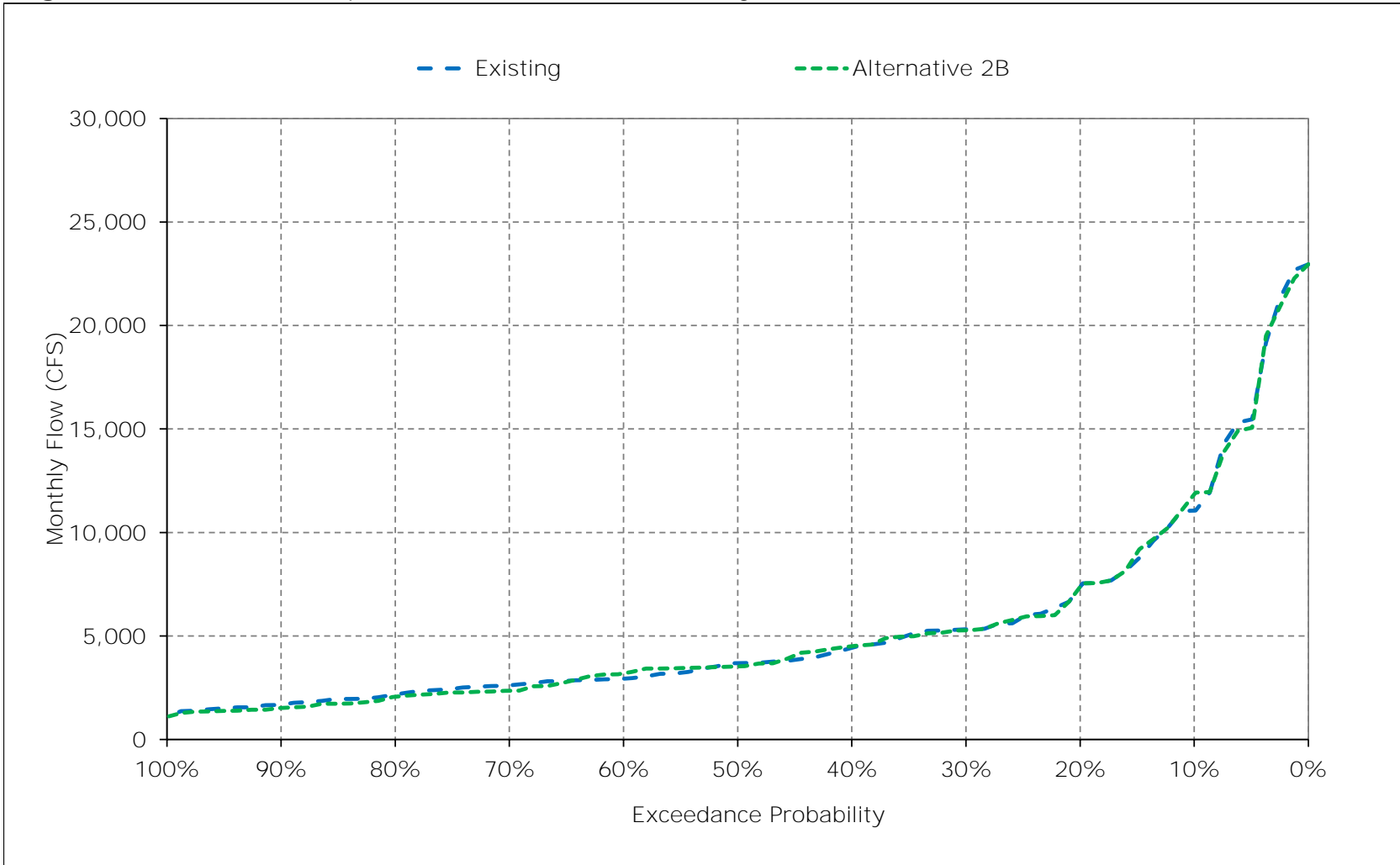


Figure 5-15. San Joaquin River at Vernalis, June

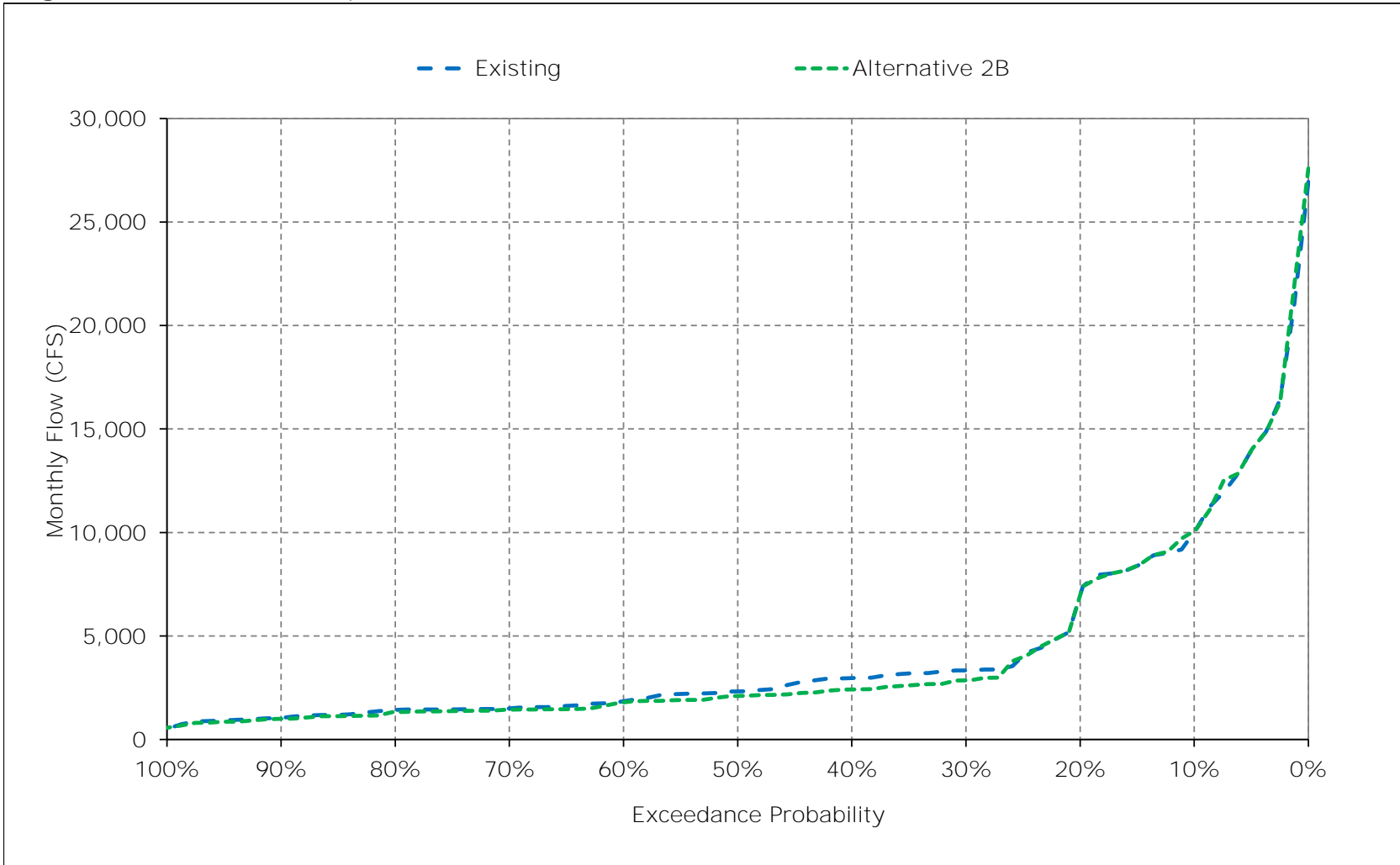


Figure 5-16. San Joaquin River at Vernalis, July

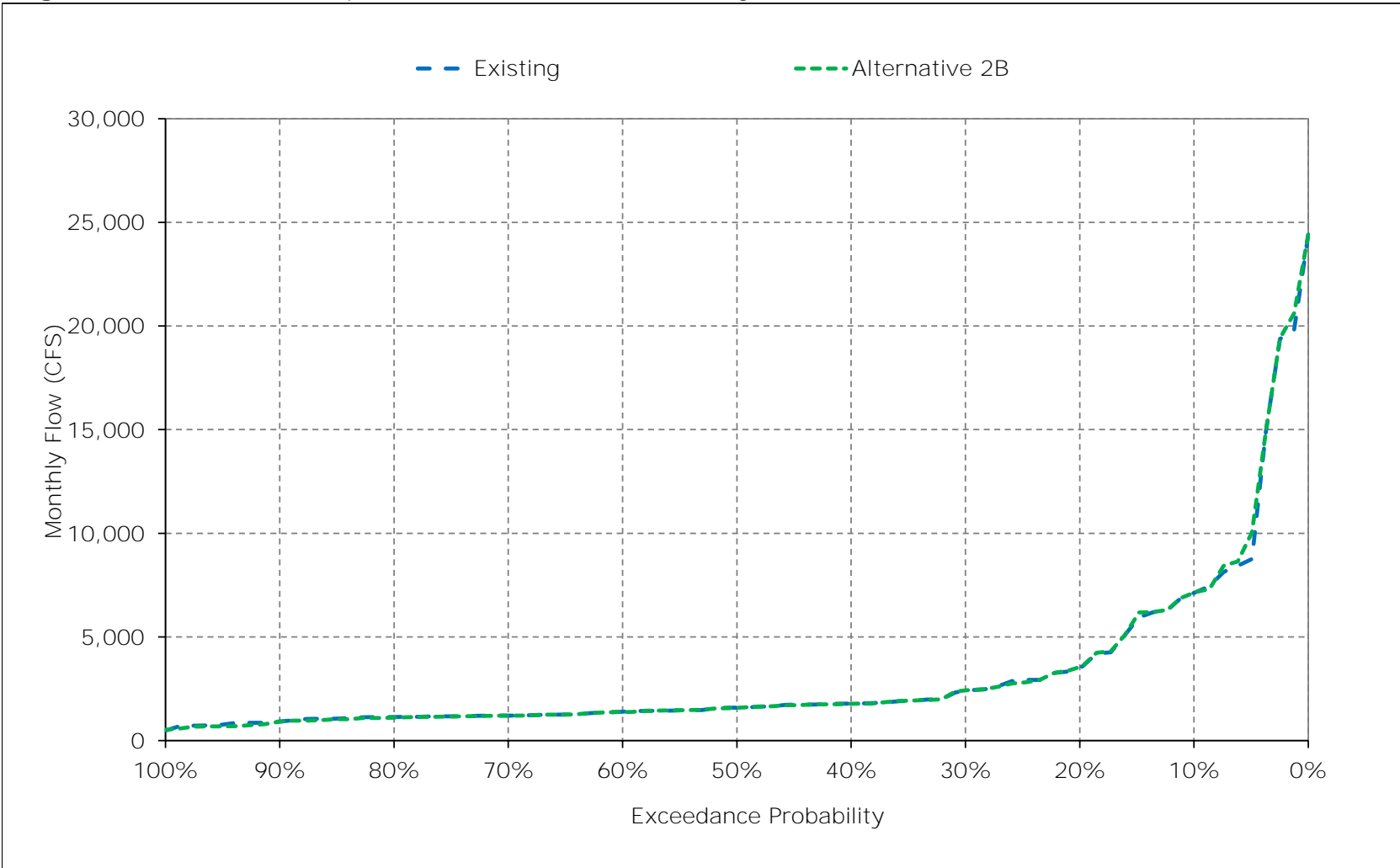




Figure 5-17. San Joaquin River at Vernalis, August

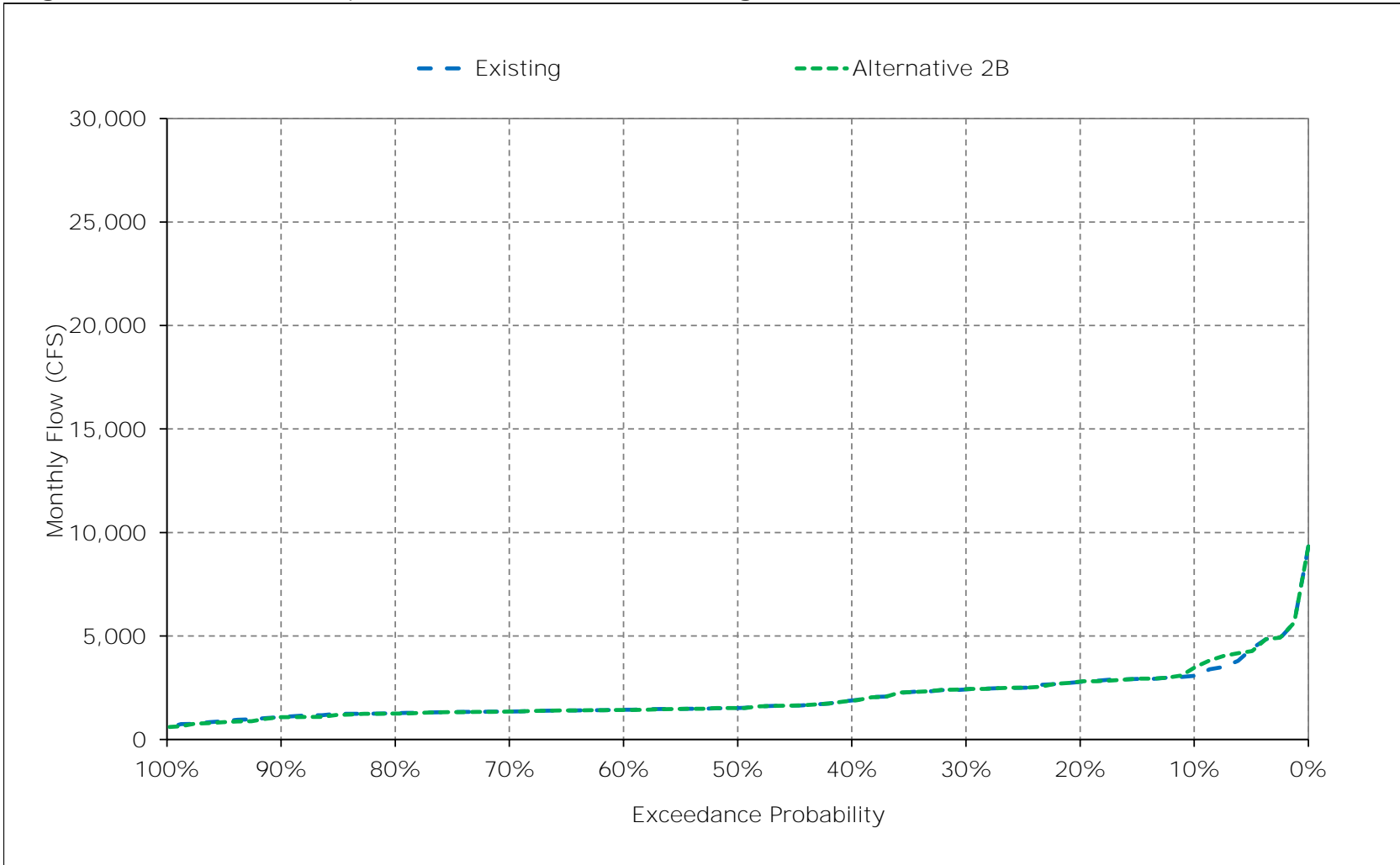


Figure 5-18. San Joaquin River at Vernalis, September

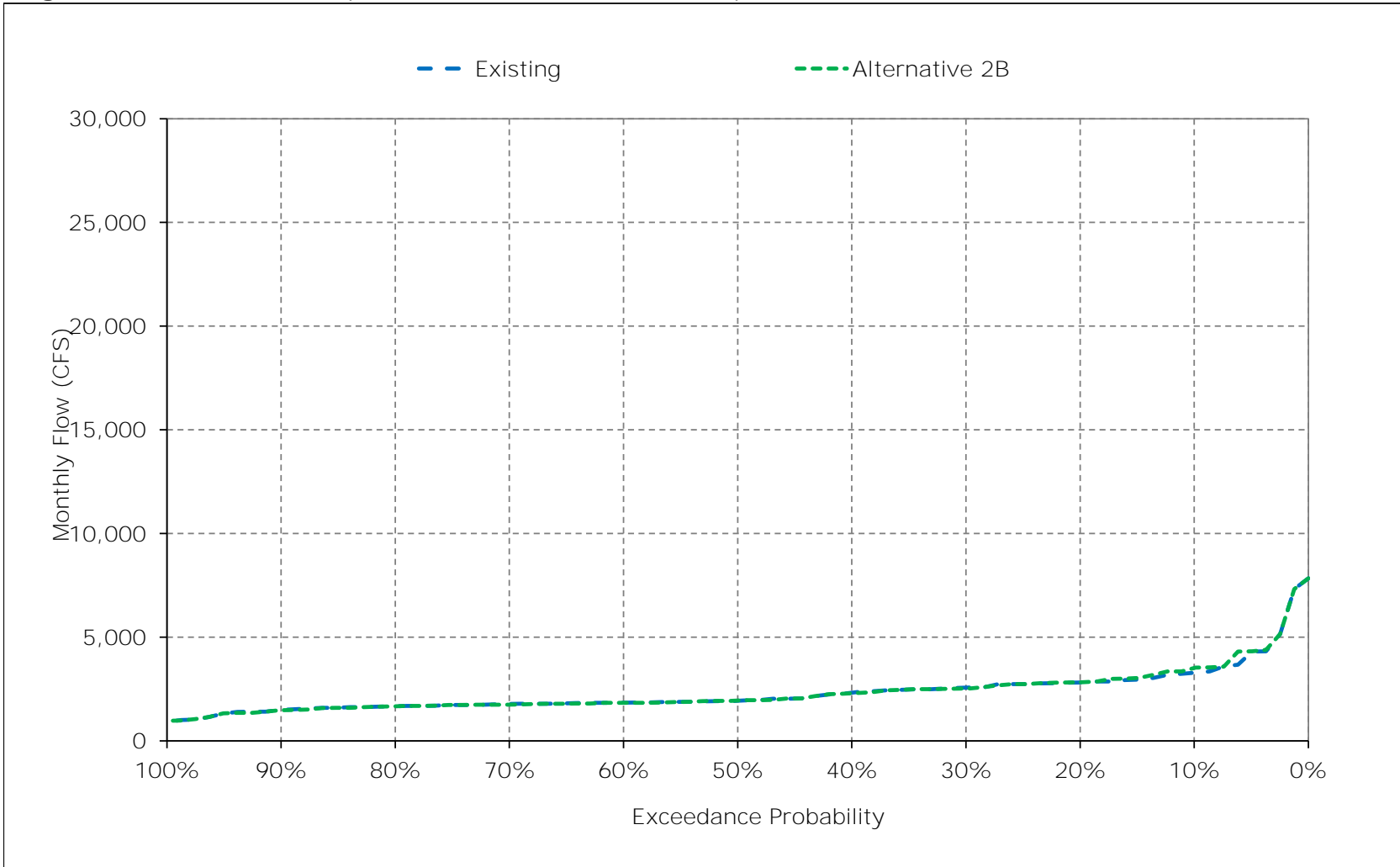


Table 6-1. Mokelumne River below Consumnes, Monthly Flow

Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	803	1,033	2,131	3,558	4,038	3,475	3,831	3,723	2,588	828	305	385
20%	631	714	879	2,337	3,063	2,618	2,518	2,729	1,706	578	237	282
30%	556	571	581	1,479	2,338	2,419	2,004	1,769	1,308	340	143	219
40%	475	509	488	886	1,605	1,704	1,592	1,406	713	268	73	164
50%	414	459	435	703	1,246	1,297	1,322	1,029	465	95	54	102
60%	321	407	388	520	868	1,018	923	790	349	56	46	85
70%	277	365	330	432	685	842	707	502	163	50	44	50
80%	222	241	265	355	509	687	607	354	83	46	41	42
90%	183	188	216	292	393	522	313	200	53	43	37	38
Long Term												
Full Simulation Period <sup>a</sup>	444	598	902	1,479	1,858	1,892	1,693	1,527	977	385	136	172
Water Year Types <sup>b,c</sup>												
Wet (32%)	545	831	1,643	2,918	3,368	3,357	2,962	2,824	2,025	905	276	318
Above Normal (15%)	398	773	966	1,811	2,019	2,280	1,836	1,627	1,083	331	129	174
Below Normal (17%)	464	529	702	833	1,536	1,325	1,596	1,314	670	151	72	107
Dry (22%)	404	413	377	455	775	889	739	620	215	79	46	68
Critical (15%)	305	280	257	315	422	495	345	225	103	44	50	85

Alternative 2B												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	803	1,033	2,131	3,558	4,038	3,475	3,831	3,723	2,588	828	305	385
20%	631	714	879	2,337	3,063	2,618	2,518	2,729	1,707	578	237	282
30%	556	571	581	1,479	2,341	2,421	2,005	1,769	1,309	342	143	219
40%	475	509	488	886	1,605	1,704	1,592	1,406	713	268	73	164
50%	414	459	435	704	1,246	1,297	1,322	1,030	465	95	54	102
60%	322	409	388	520	868	1,019	923	792	349	56	47	86
70%	277	365	331	433	685	843	707	502	165	50	44	51
80%	222	242	267	355	509	687	609	354	83	46	41	42
90%	184	188	219	293	393	522	313	200	53	44	38	39
Long Term												
Full Simulation Period <sup>a</sup>	444	599	903	1,479	1,858	1,893	1,694	1,527	977	385	136	172
Water Year Types <sup>b,c</sup>												
Wet (32%)	546	831	1,643	2,919	3,369	3,357	2,962	2,824	2,025	905	276	318
Above Normal (15%)	398	773	967	1,812	2,020	2,281	1,836	1,627	1,083	331	129	174
Below Normal (17%)	464	529	702	834	1,536	1,326	1,596	1,315	670	152	72	107
Dry (22%)	404	413	378	455	776	890	740	621	216	81	47	68
Critical (15%)	305	280	257	315	423	495	345	225	103	44	51	85

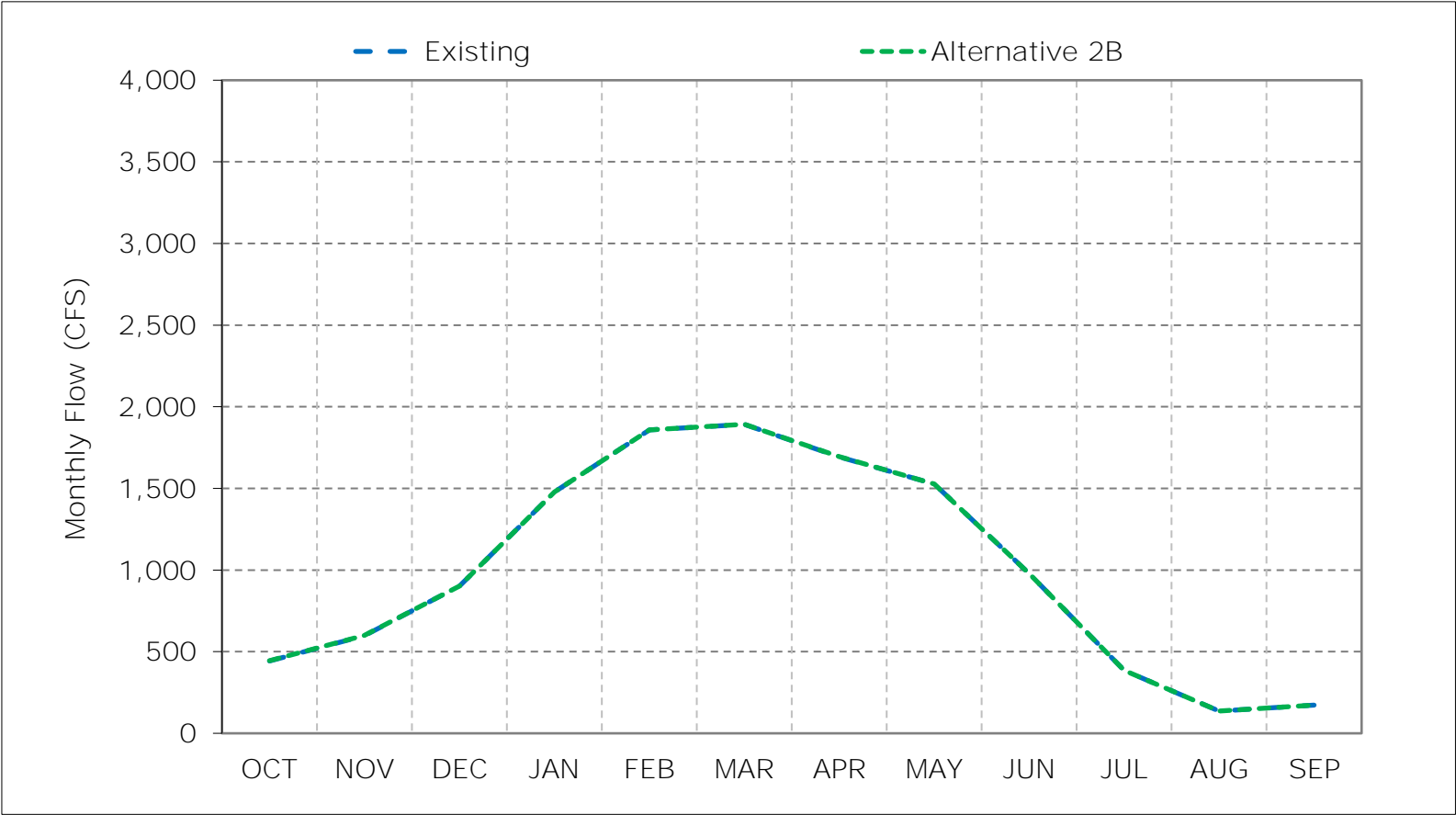
Alternative 2B minus Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	1	0	0	0
30%	0	0	0	0	3	2	1	0	0	1	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	1	0	1	0	1	0	0
60%	0	2	0	0	0	1	0	2	0	0	1	1
70%	0	0	2	1	0	0	0	0	2	0	0	2
80%	0	1	2	0	0	0	2	0	0	1	0	0
90%	1	0	3	1	0	0	0	0	0	1	1	0
Long Term												
Full Simulation Period <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types <sup>b,c</sup>												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (15%)	0	0	1	1	1	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	0	0	1	1	1	1	1	1	0
Dry (22%)	0	0	0	0	0	1	1	1	1	1	1	1
Critical (15%)	0	1	0	0	1	0	0	0	0	1	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).

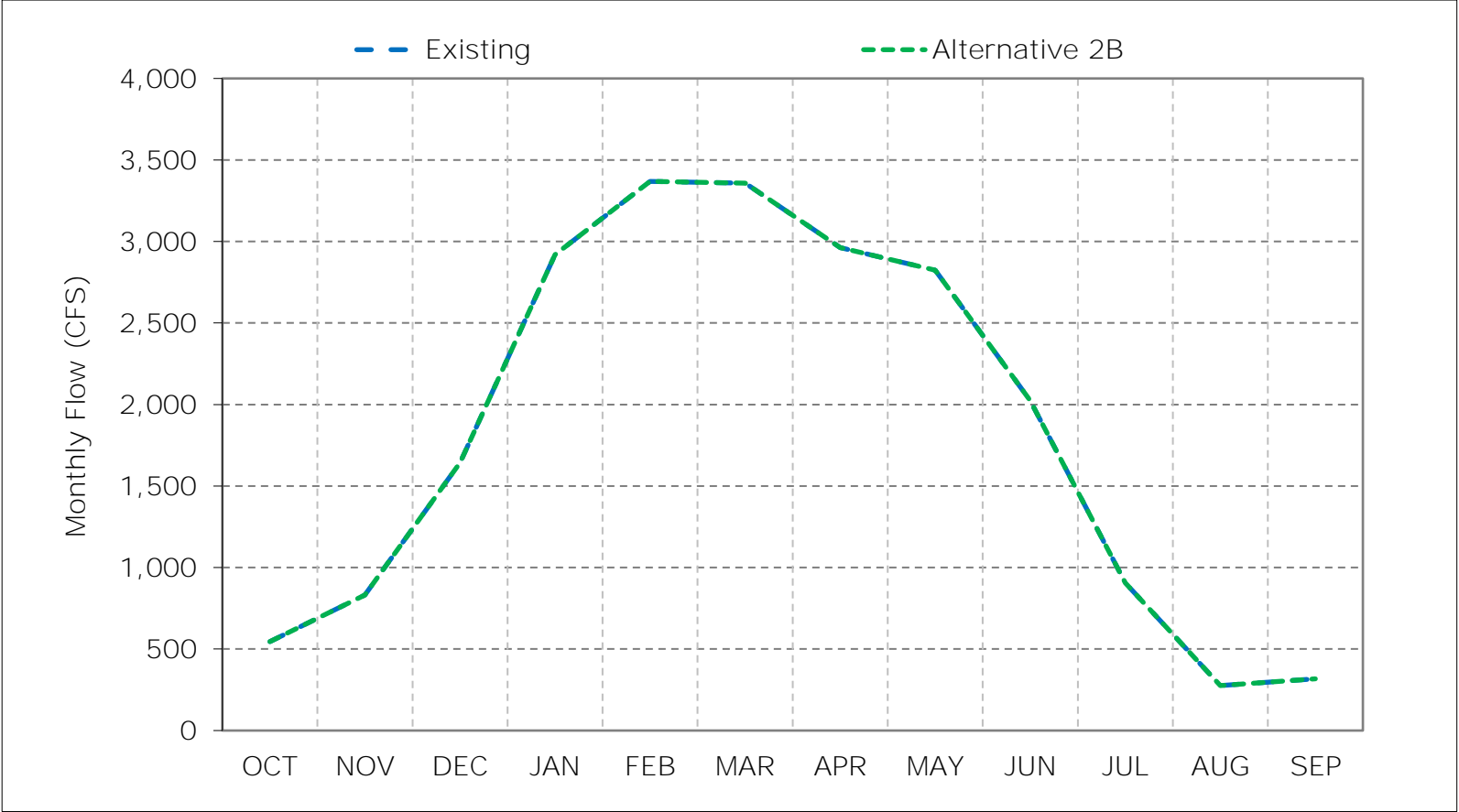
c These results are displayed with water year - year type sorting.

Figure 6-1. Mokelumne River below Consumnes, Long-Term Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

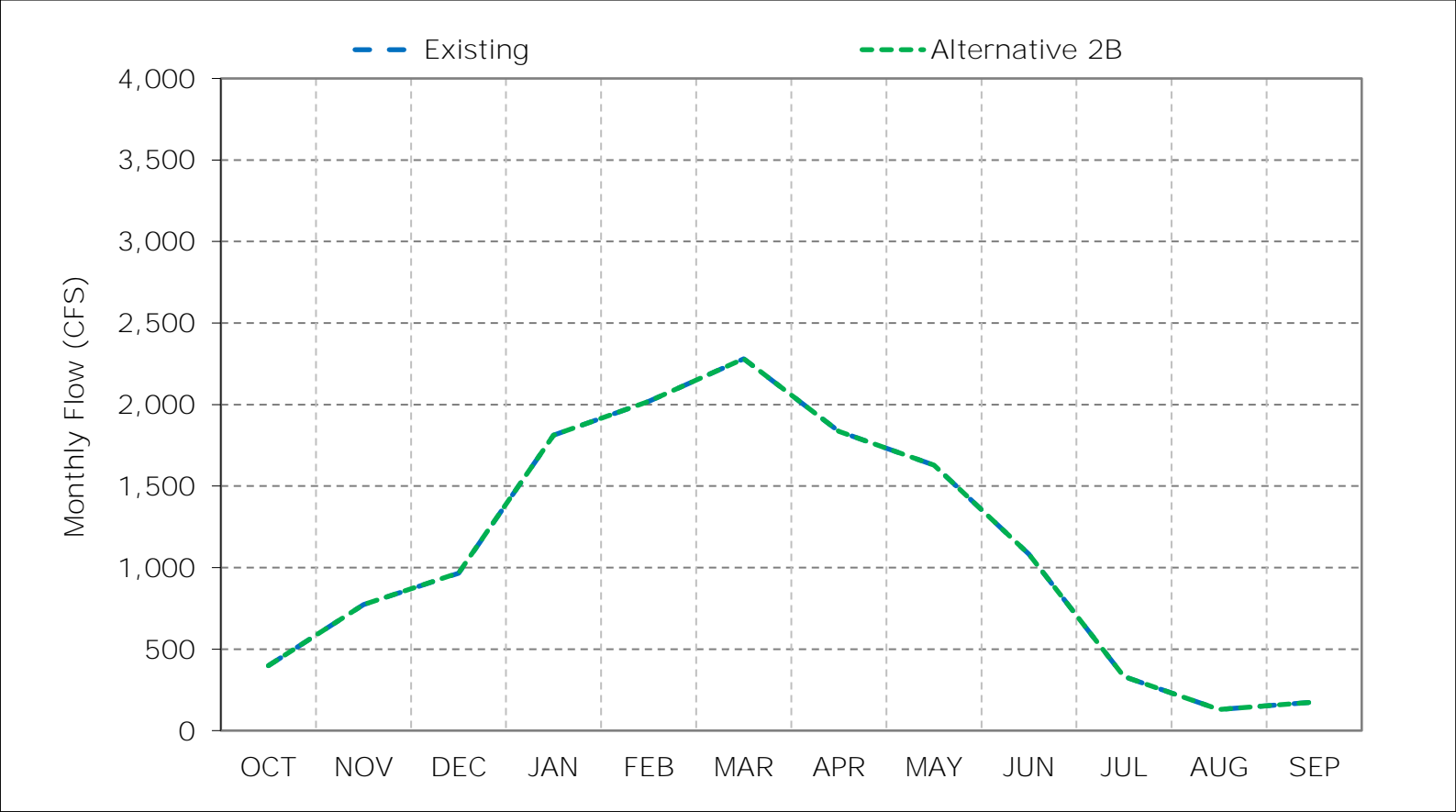
Figure 6-2. Mokelumne River below Consumnes, Wet Year Average Flow



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

\*These results are displayed with water year - year type sorting.

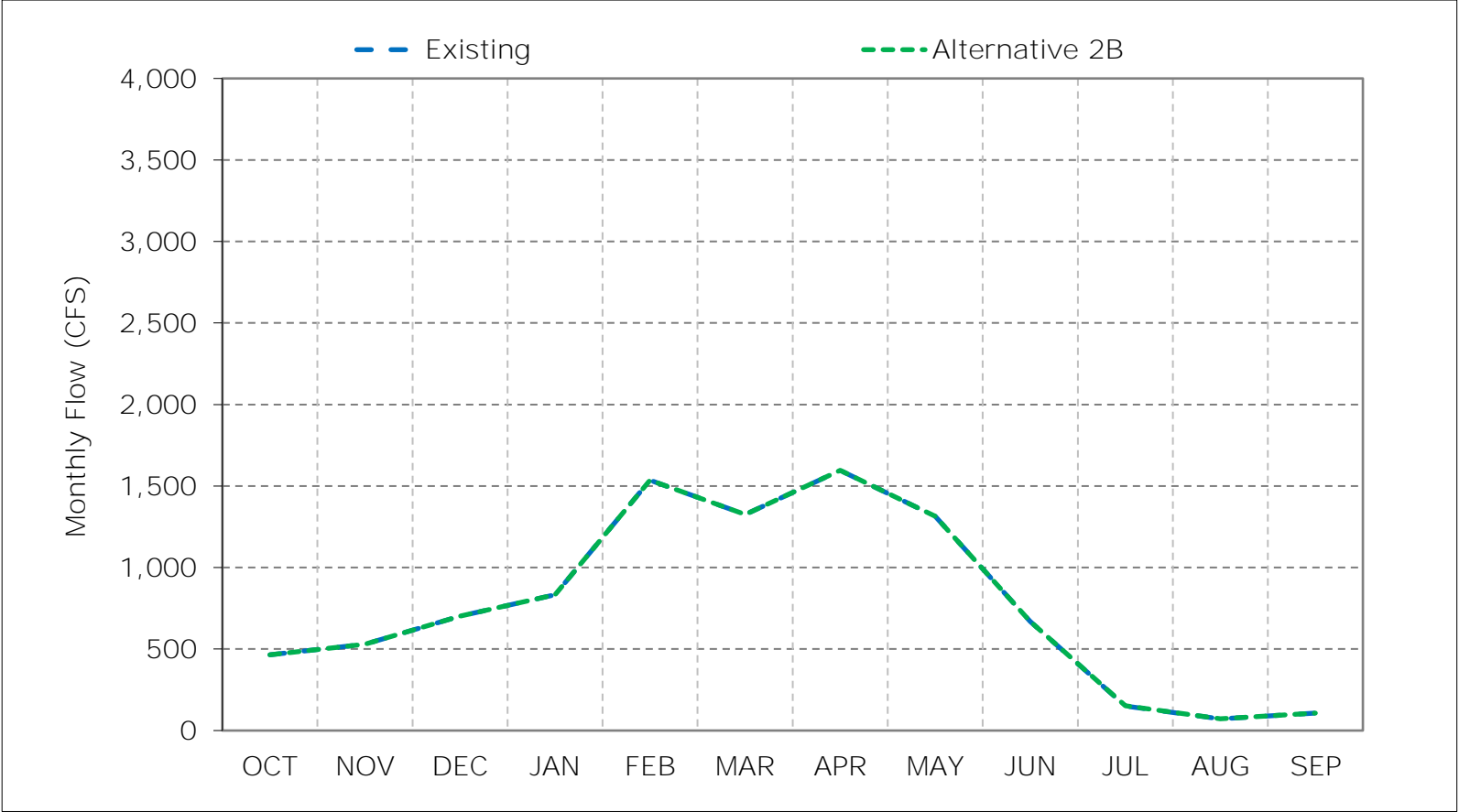
Figure 6-3. Mokelumne River below Consumnes, Above Normal Year Average Flow



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

\*These results are displayed with water year - year type sorting.

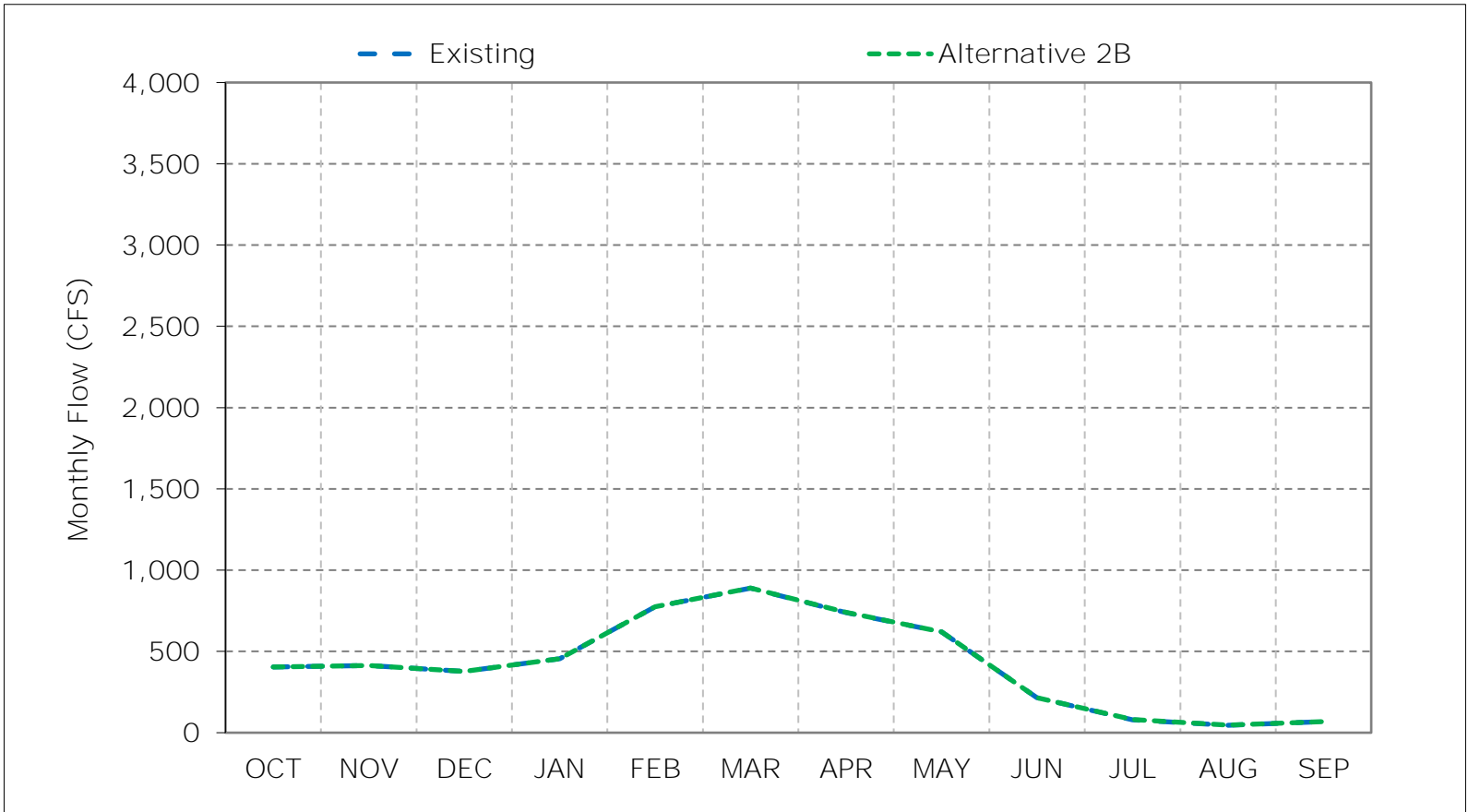
Figure 6-4. Mokelumne River below Consumnes, Below Normal Year Average Flow



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

\*These results are displayed with water year - year type sorting.

Figure 6-5. Mokelumne River below Consumnes, Dry Year Average Flow

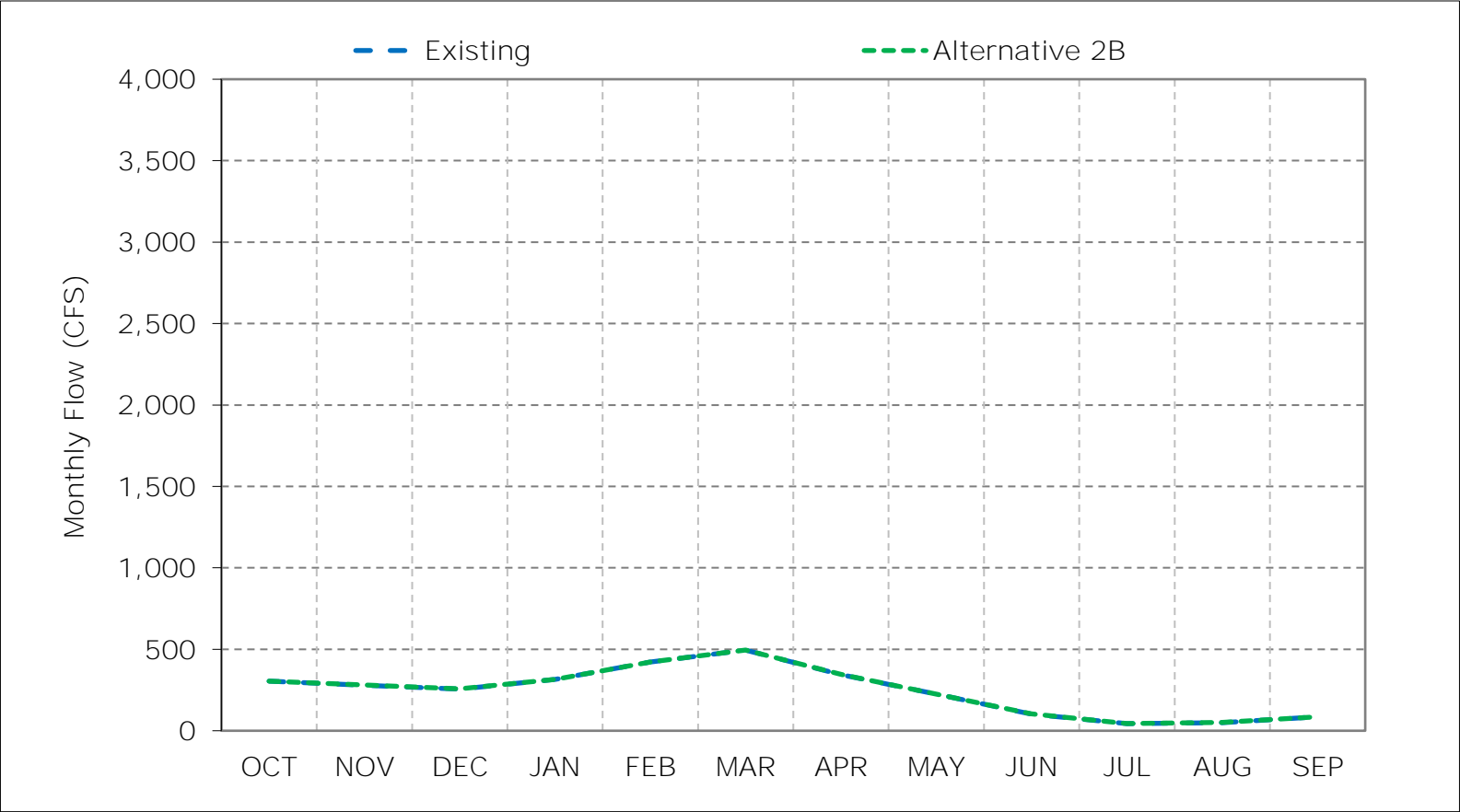


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



Figure 6-6. Mokelumne River below Consumnes, Critical Year Average Flow



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

\*These results are displayed with water year - year type sorting.

Figure 6-7. Mokelumne River below Consumnes, October

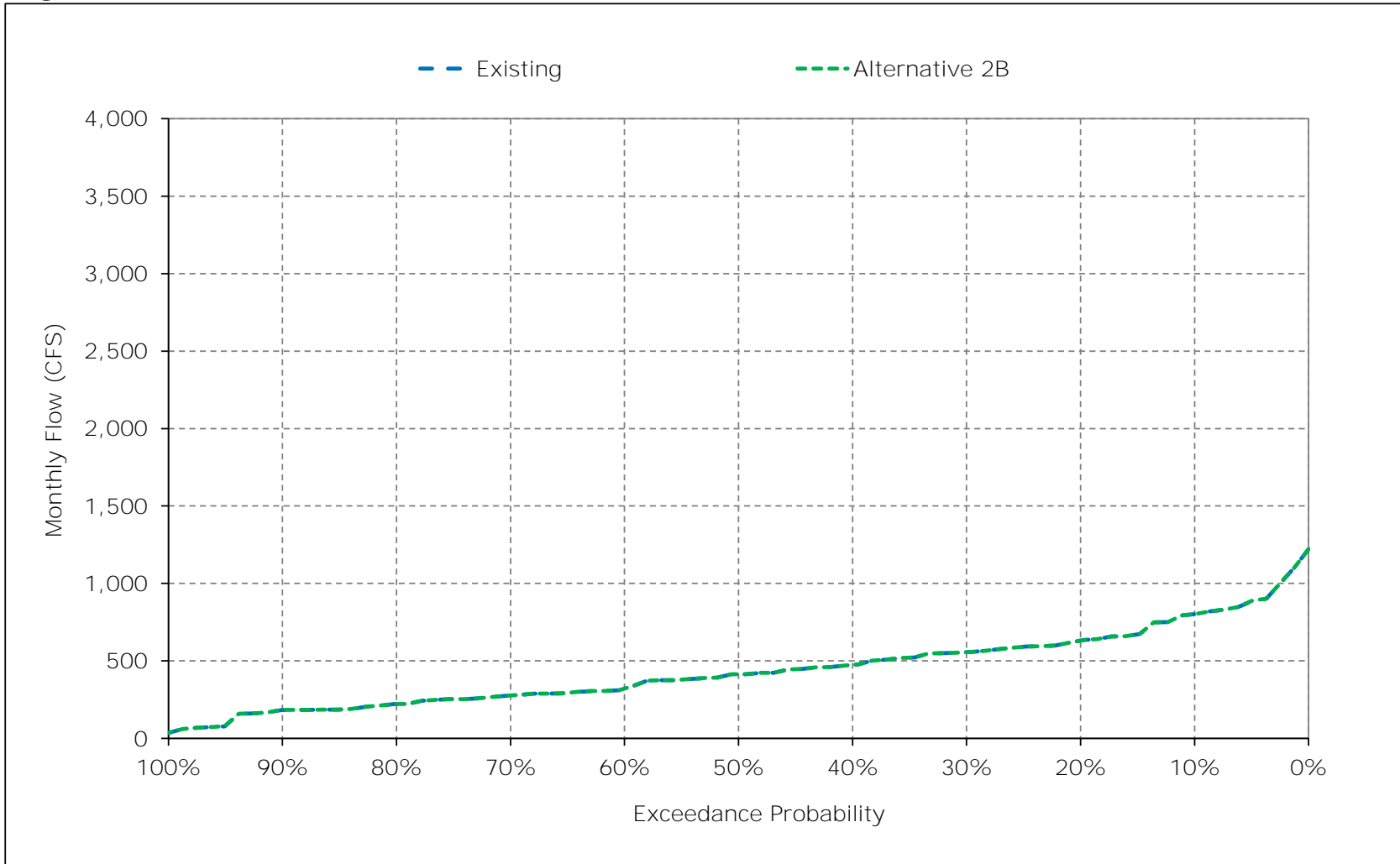


Figure 6-8. Mokelumne River below Consumnes, November

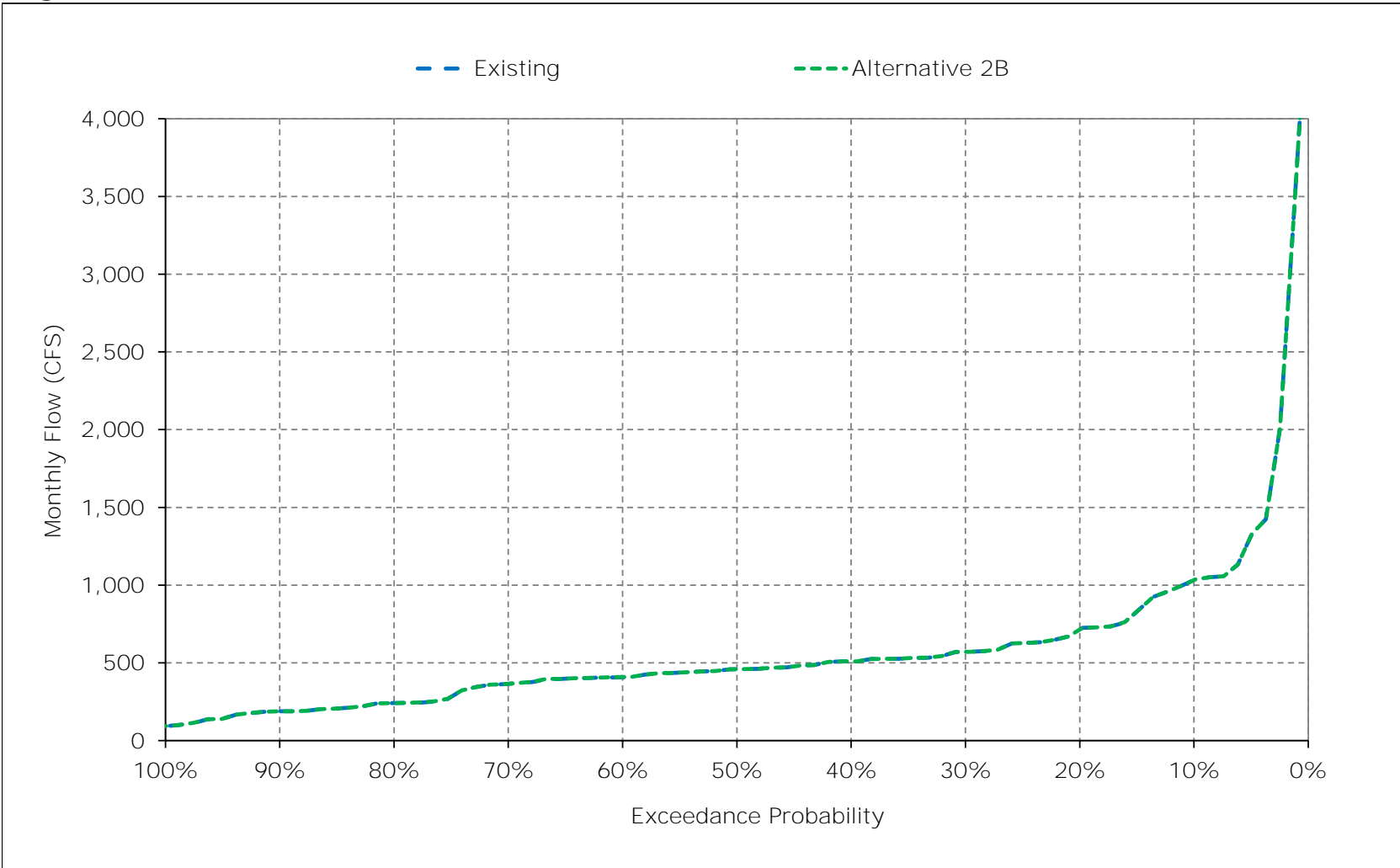


Figure 6-9. Mokelumne River below Consumnes, December

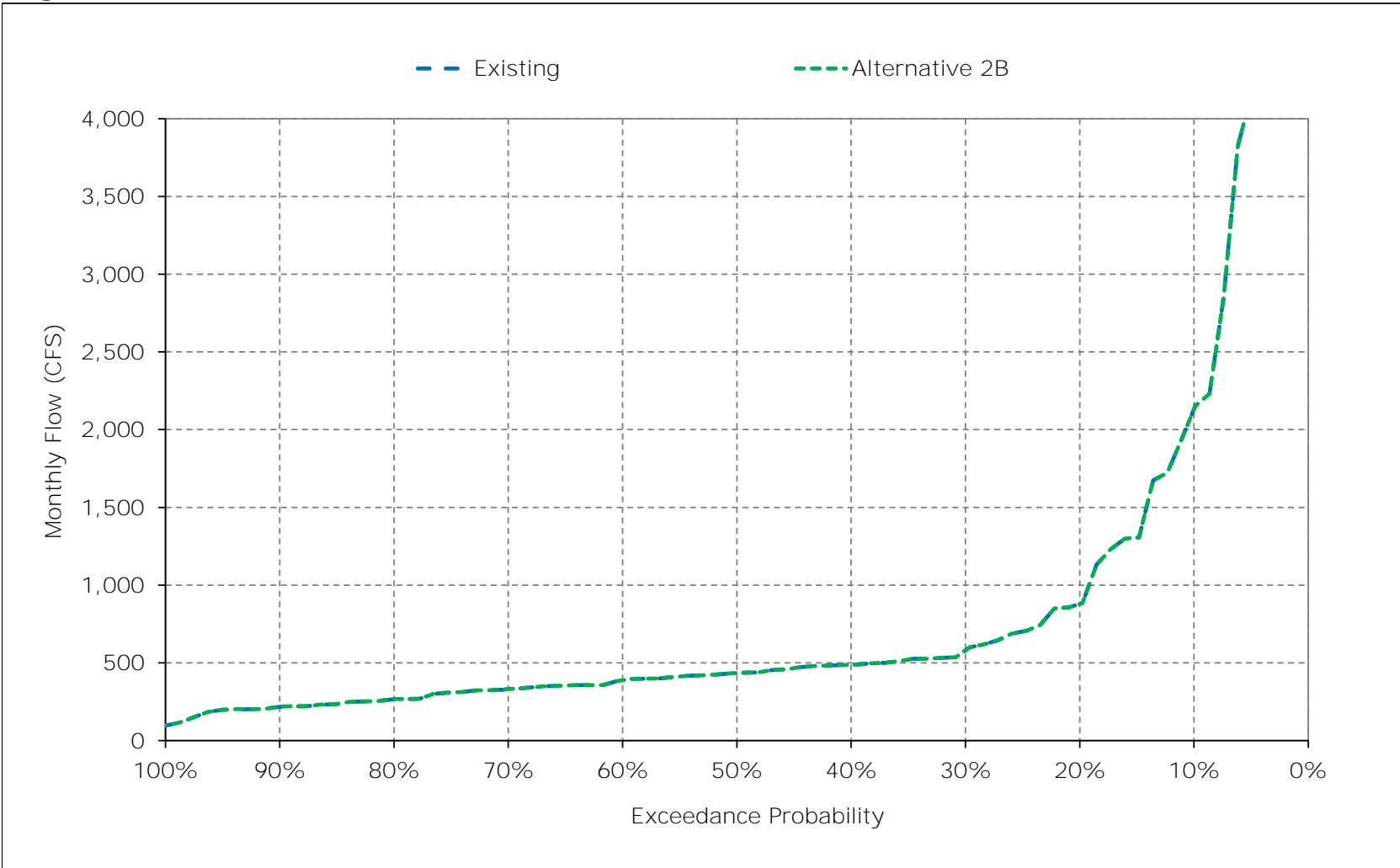


Figure 6-10. Mokelumne River below Consumnes, January

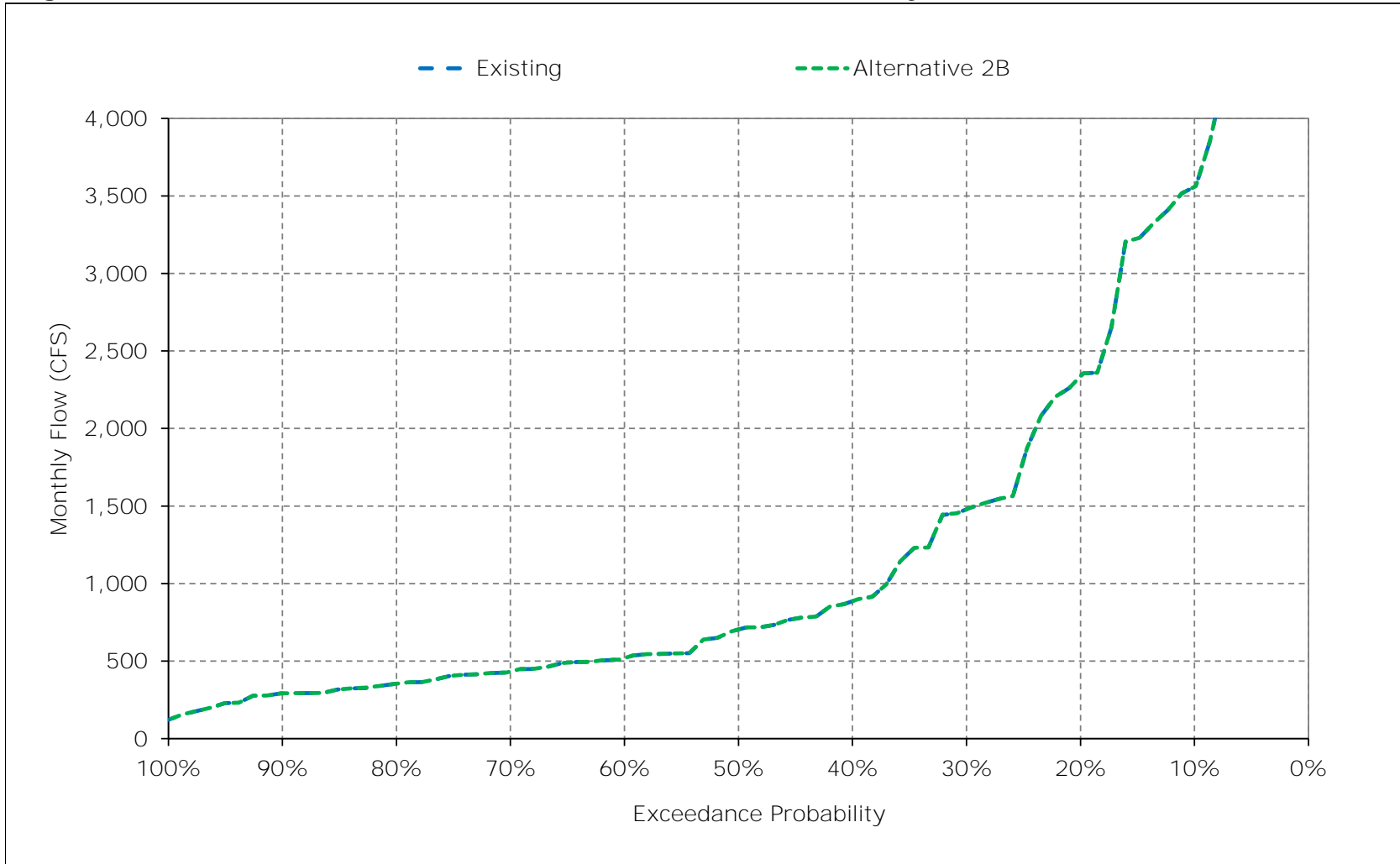


Figure 6-11. Mokelumne River below Consumnes, February

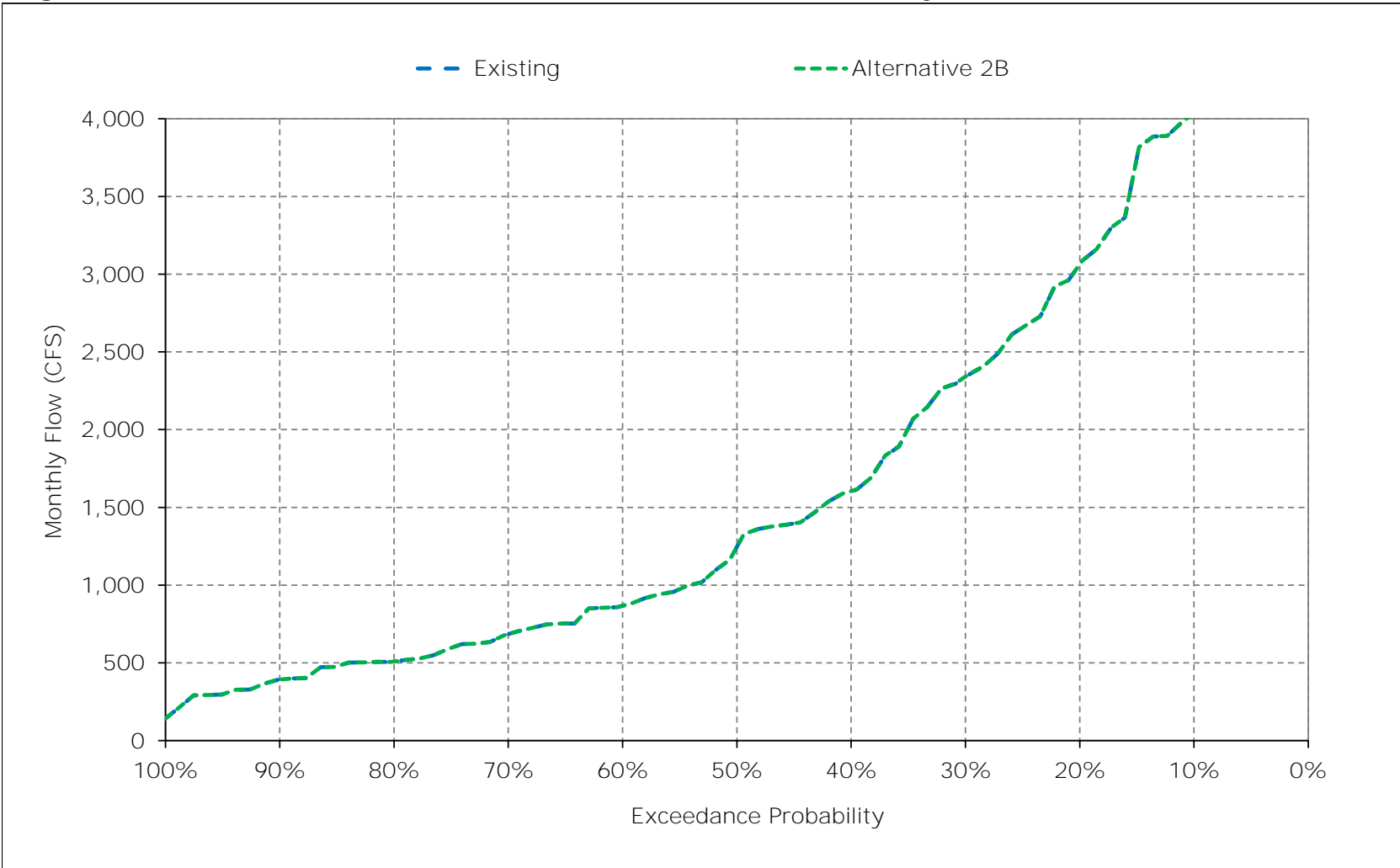


Figure 6-12. Mokelumne River below Consumnes, March

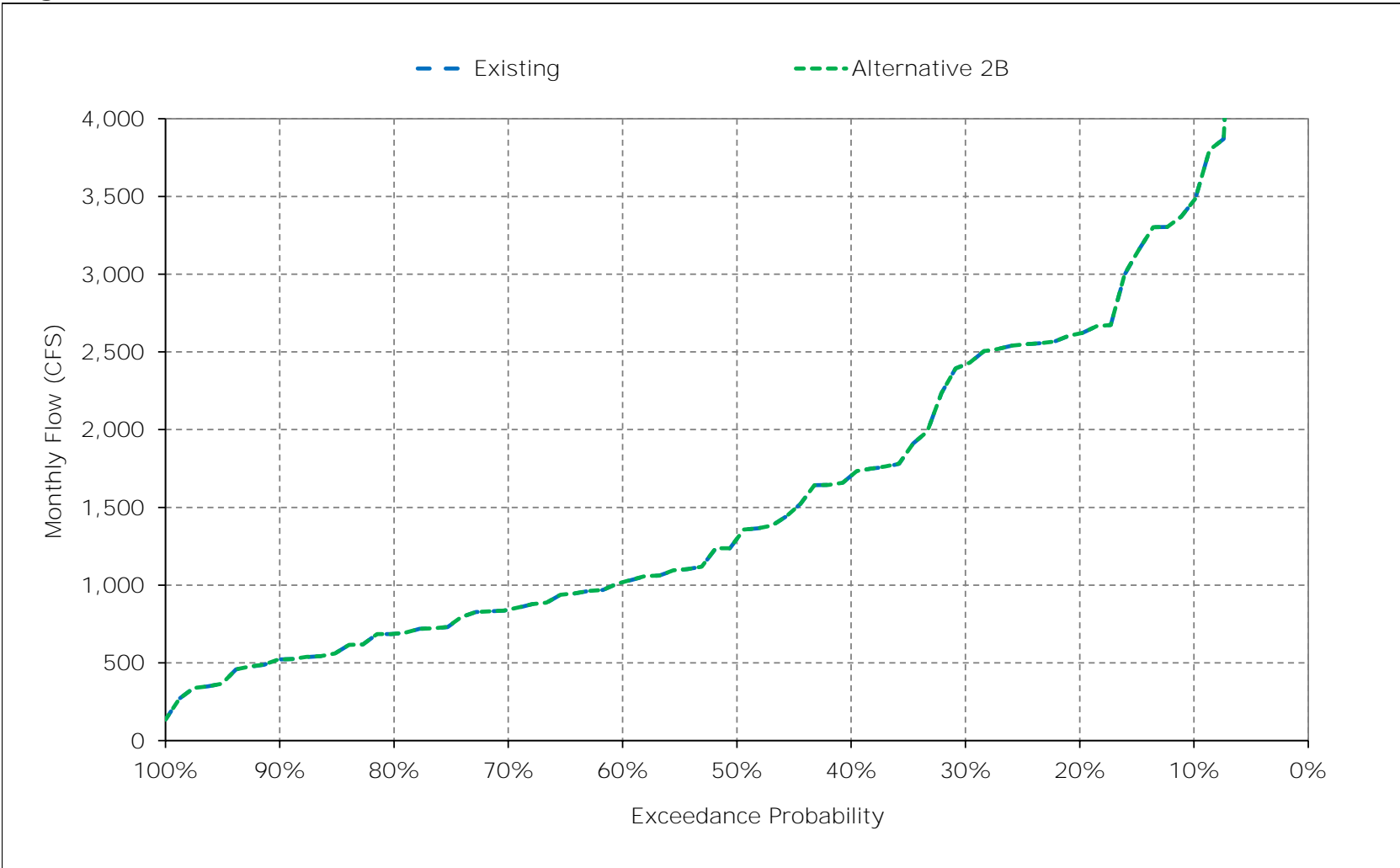


Figure 6-13. Mokelumne River below Consumnes, April

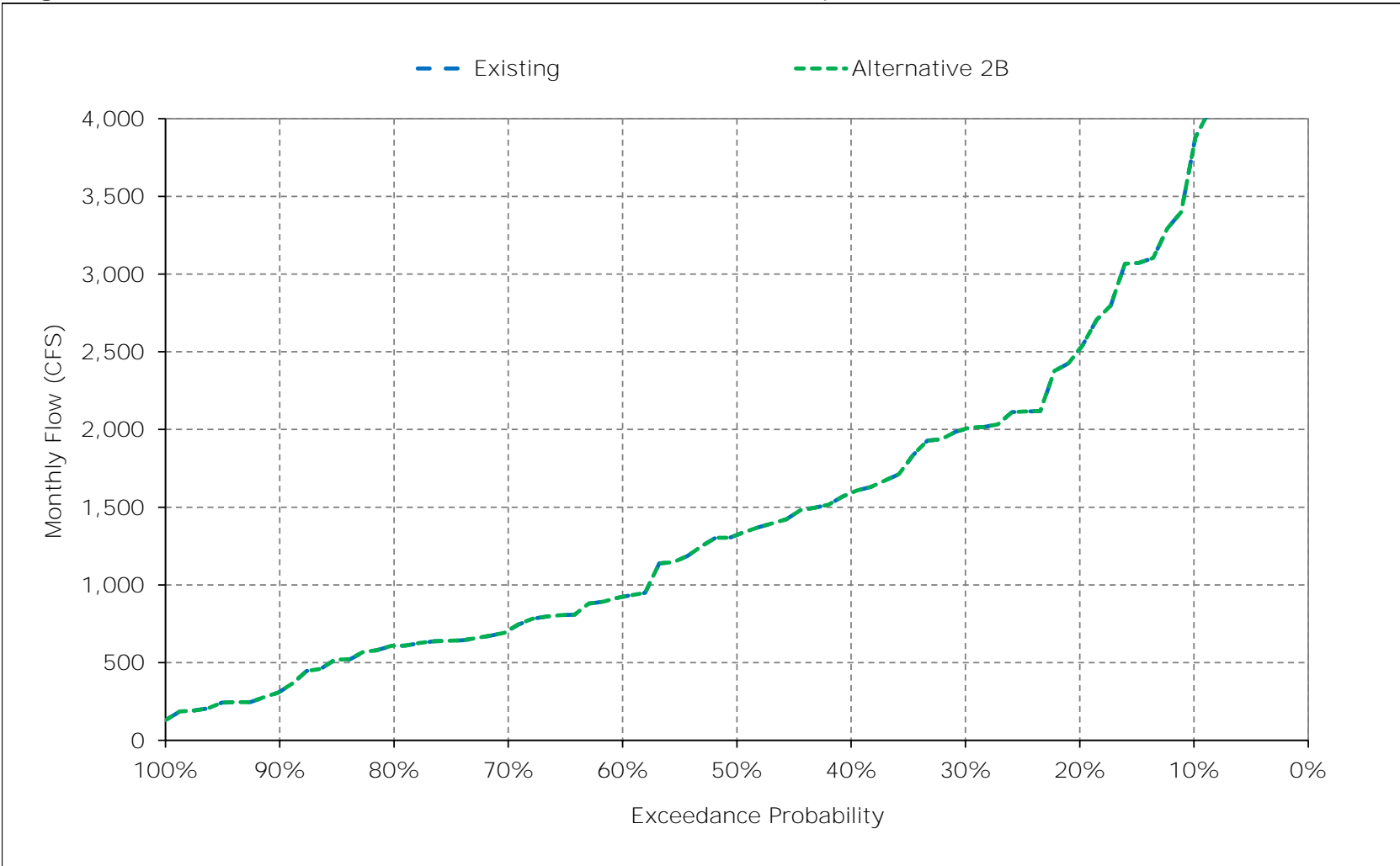




Figure 6-14. Mokelumne River below Consumnes, May

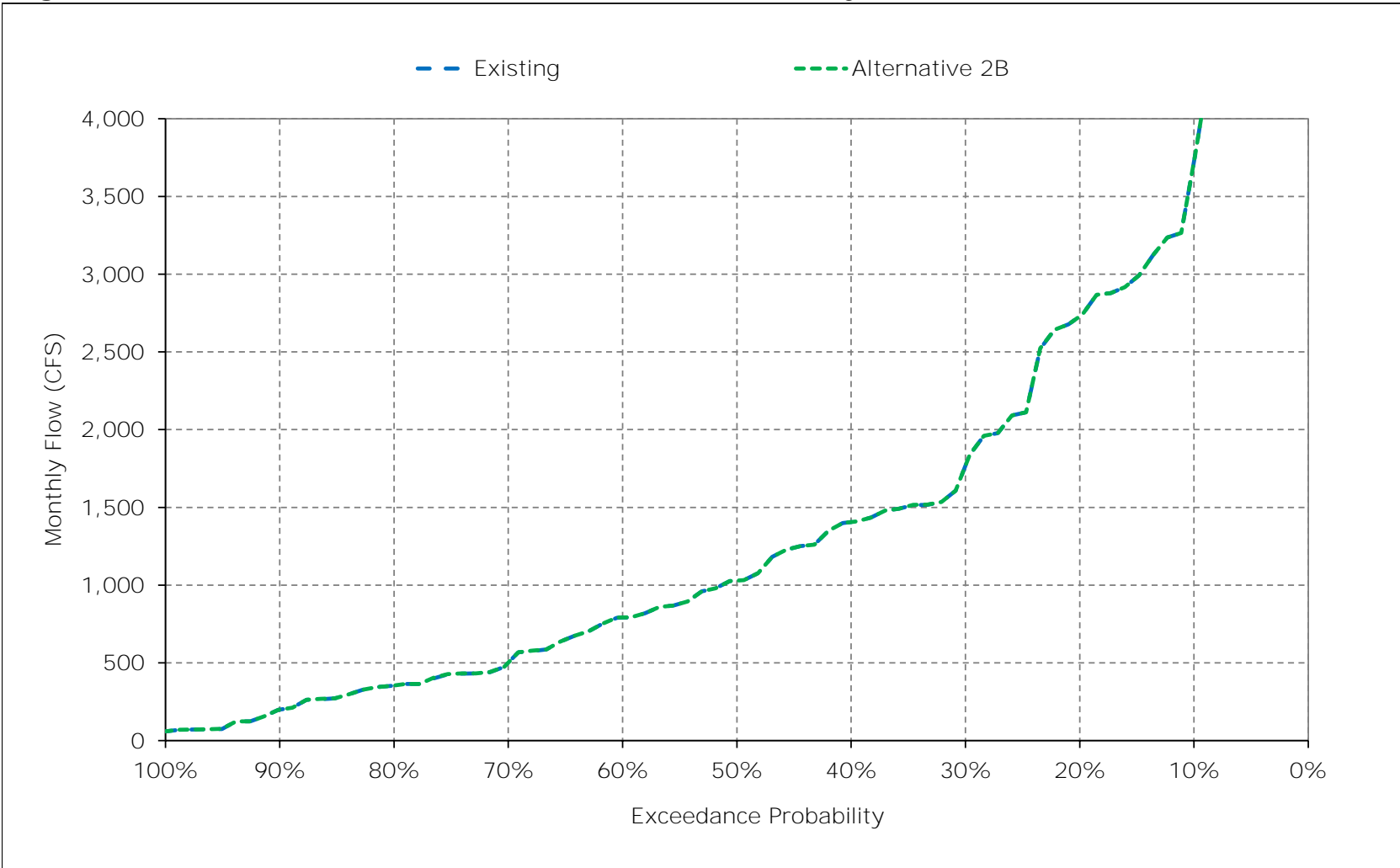


Figure 6-15. Mokelumne River below Consumnes, June

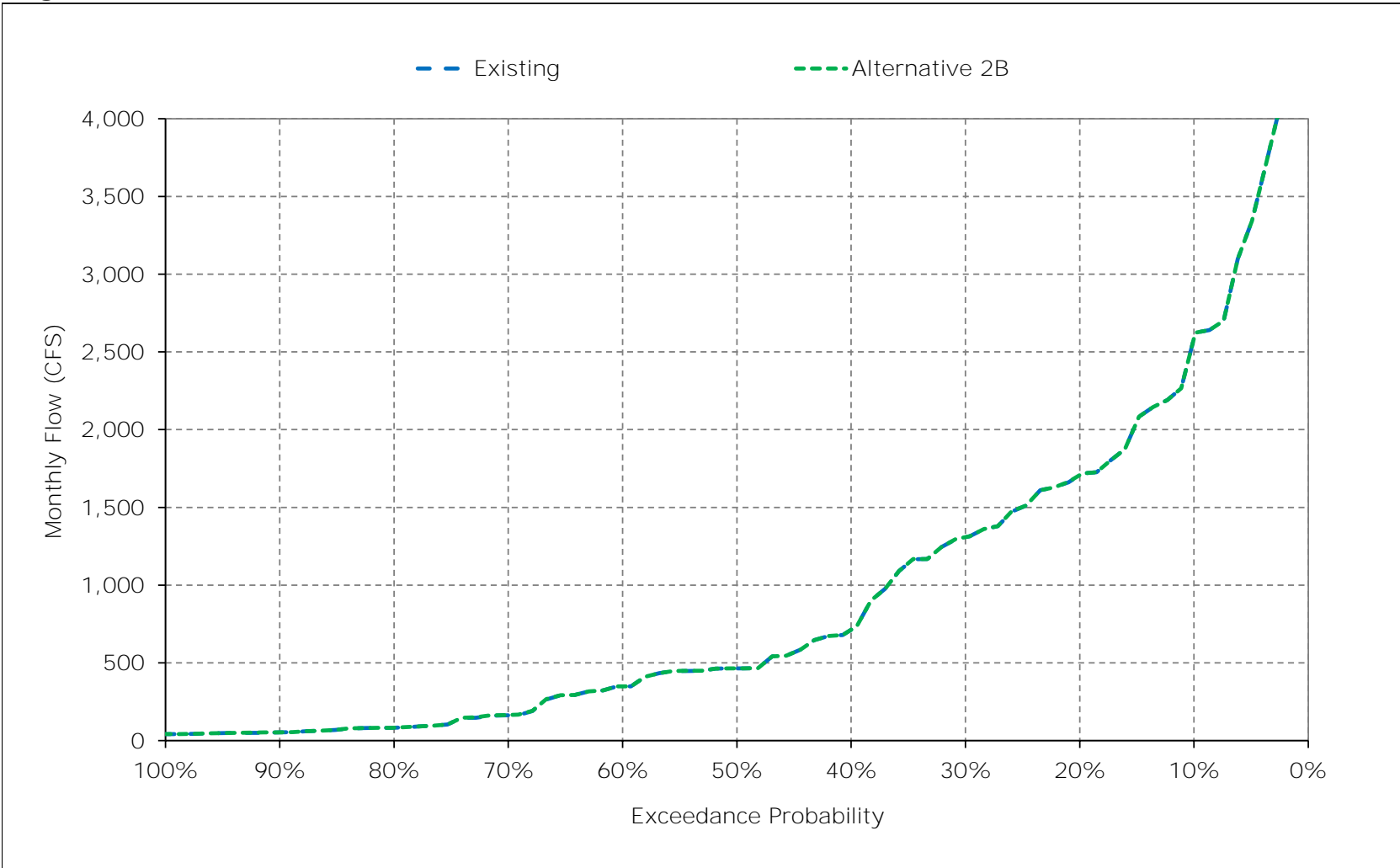


Figure 6-16. Mokelumne River below Consumnes, July

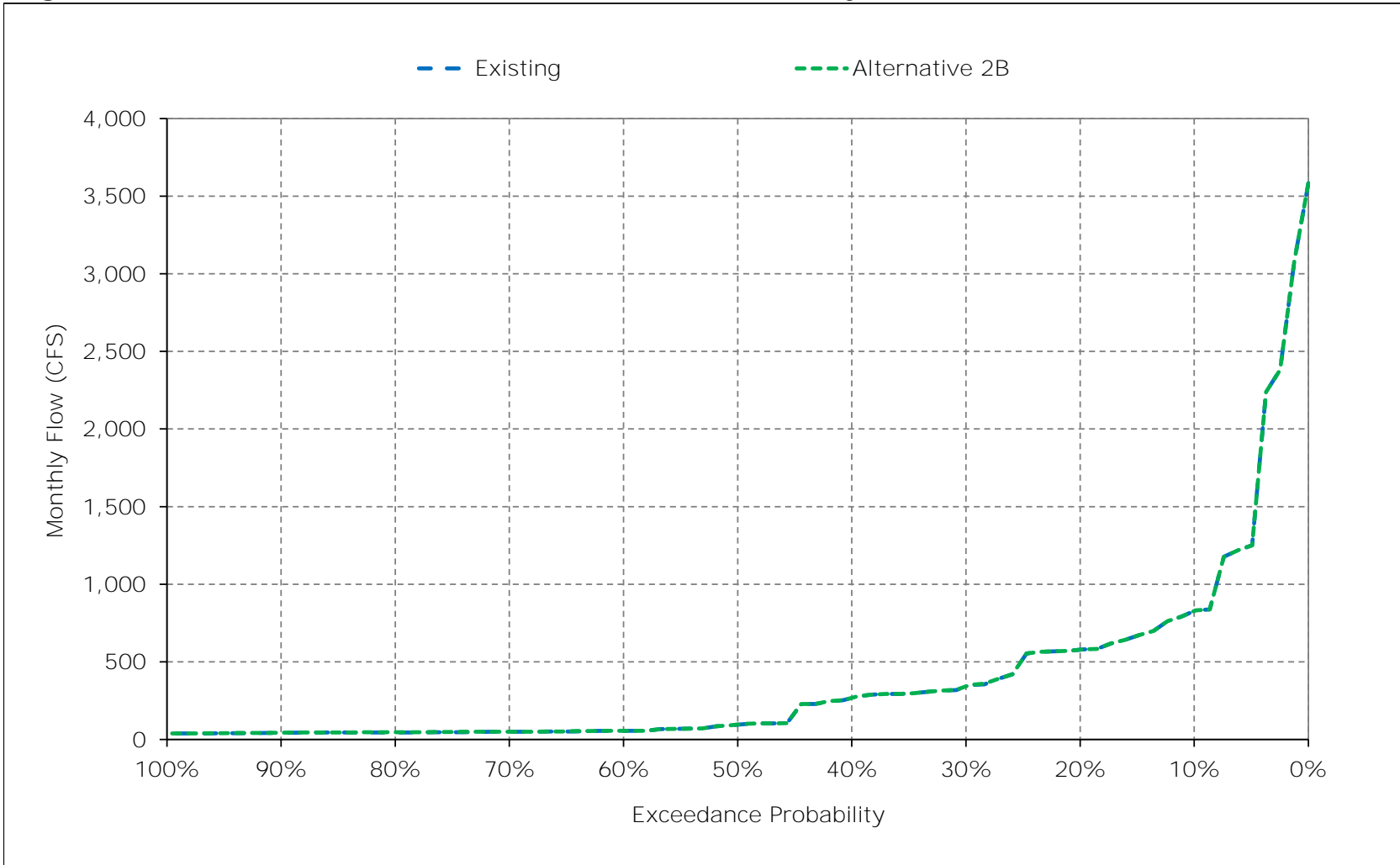


Figure 6-17. Mokelumne River below Consumnes, August

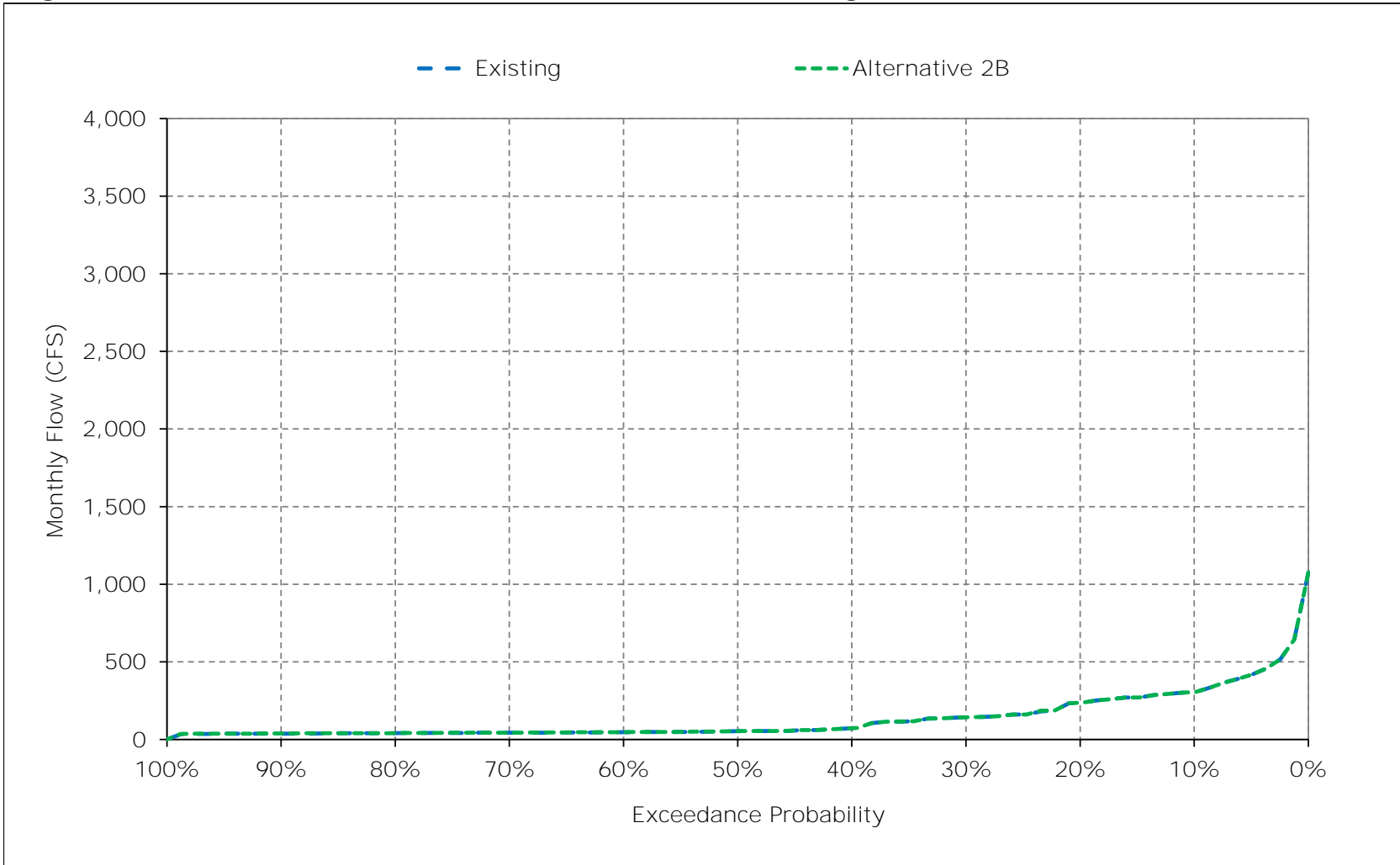


Figure 6-18. Mokelumne River below Consumnes, September

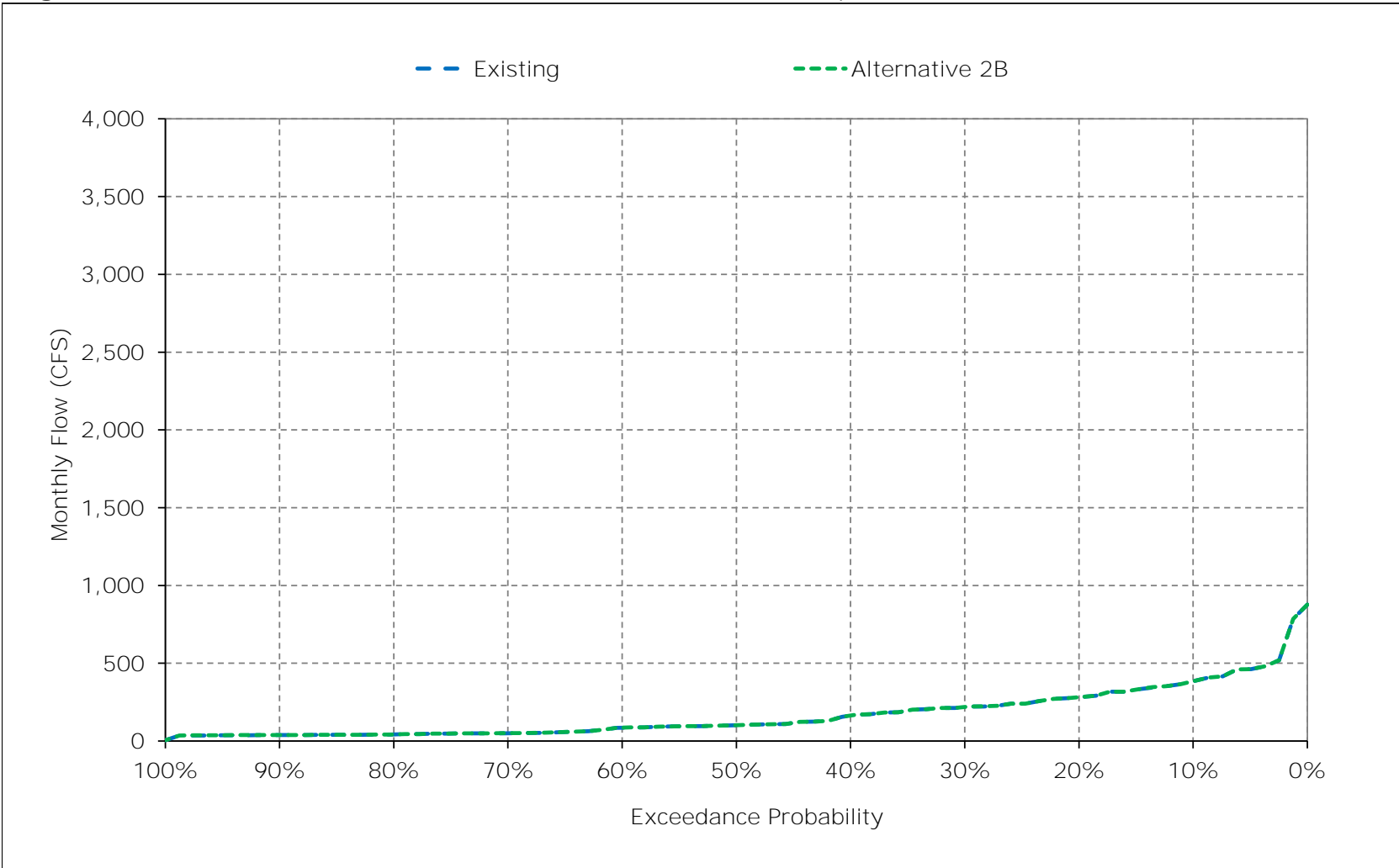


Table 7-1. Old and Middle River Flow, Monthly Flow (combined flows)

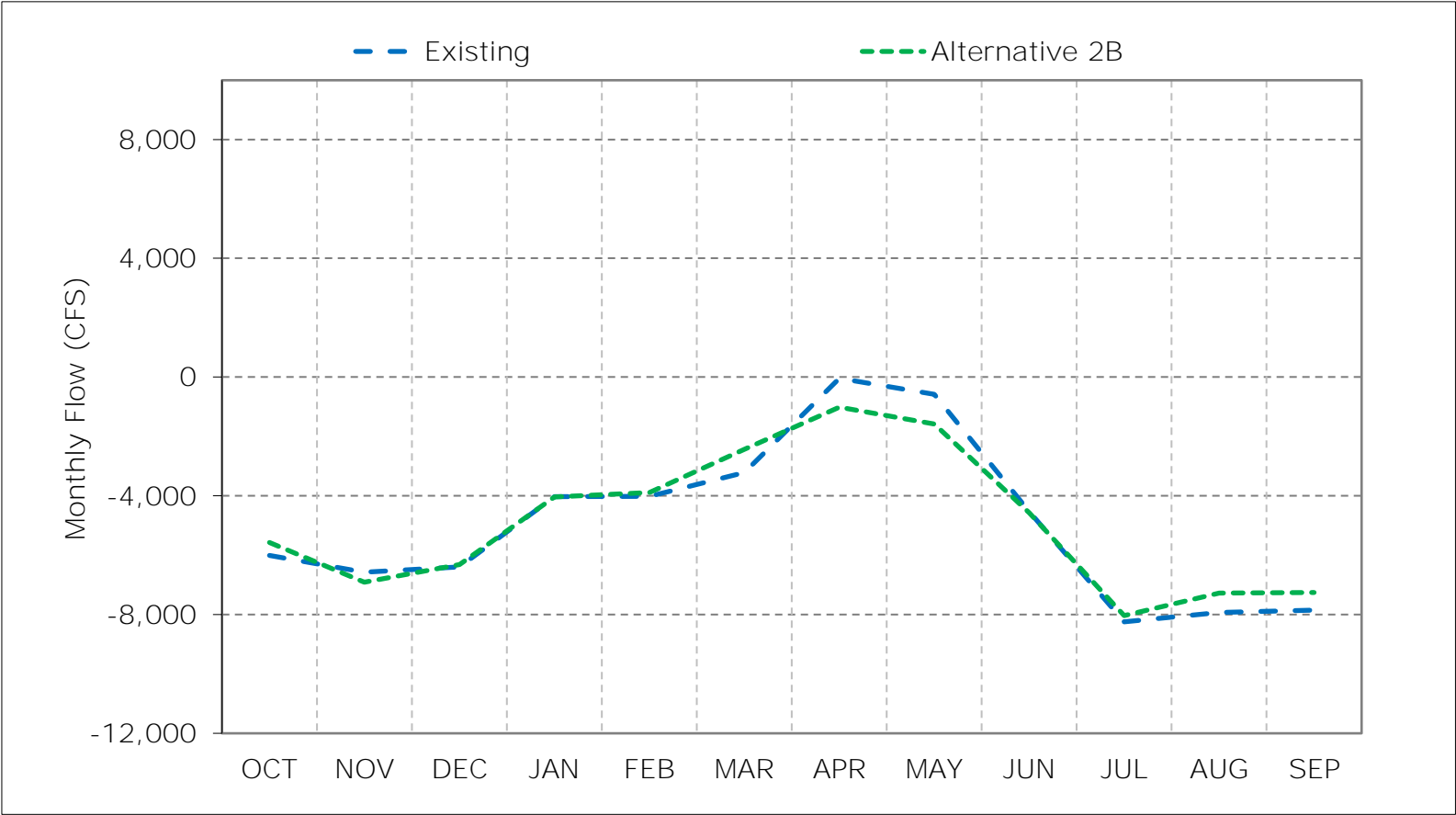
Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3,881	-3,777	-4,457	-3,645	-3,332	-1,406	2,480	2,164	-2,590	-3,012	-3,262	-3,631
20%	-4,680	-4,317	-5,290	-3,645	-4,464	-3,539	1,530	1,037	-4,475	-5,673	-4,219	-5,827
30%	-5,019	-5,410	-5,290	-4,516	-4,464	-4,288	1,103	488	-5,000	-7,848	-5,410	-6,363
40%	-5,299	-5,958	-5,290	-4,516	-4,464	-4,371	594	-1,530	-5,000	-8,435	-8,514	-7,721
50%	-5,929	-6,405	-5,616	-4,516	-4,474	-4,371	-1,385	-1,706	-5,000	-9,287	-9,802	-8,906
60%	-6,394	-6,805	-6,374	-5,000	-4,483	-4,371	-1,592	-1,767	-5,000	-9,669	-10,268	-9,620
70%	-6,761	-7,651	-7,242	-5,000	-4,984	-4,371	-1,636	-1,796	-5,000	-10,199	-10,450	-9,841
80%	-7,446	-8,620	-9,502	-5,000	-5,000	-4,371	-1,743	-1,833	-5,000	-10,673	-10,558	-9,950
90%	-8,256	-10,054	-9,701	-5,000	-5,000	-4,371	-1,928	-1,977	-5,000	-10,901	-10,815	-10,152
Long Term												
Full Simulation Period <sup>a</sup>	-6,004	-6,570	-6,394	-4,029	-4,014	-3,219	-43	-582	-4,532	-8,245	-7,927	-7,854
Water Year Types <sup>b,c</sup>												
Wet (32%)	-6,495	-7,433	-5,515	-2,766	-2,728	-1,815	1,945	812	-4,667	-8,739	-10,214	-9,567
Above Normal (15%)	-5,955	-6,478	-7,343	-4,274	-4,248	-3,761	104	-383	-4,967	-9,553	-10,592	-9,992
Below Normal (17%)	-6,003	-6,910	-7,000	-4,578	-4,649	-4,294	-415	-695	-4,973	-10,256	-9,703	-8,760
Dry (22%)	-5,844	-6,372	-7,004	-4,889	-4,709	-4,151	-1,586	-1,773	-4,727	-8,401	-4,339	-6,036
Critical (15%)	-5,232	-4,692	-5,727	-4,588	-4,787	-3,067	-1,748	-1,881	-2,998	-3,286	-3,621	-3,678
Alternative 2B												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3,167	-3,264	-4,239	-3,645	-2,797	-1,136	525	-272	-2,784	-2,993	-3,622	-3,354
20%	-3,948	-4,403	-5,290	-3,645	-4,464	-3,231	-784	-1,388	-4,832	-5,406	-4,332	-5,324
30%	-4,242	-5,260	-5,290	-4,516	-4,464	-3,258	-938	-1,612	-5,000	-7,755	-5,510	-5,790
40%	-4,909	-6,418	-5,290	-4,516	-4,464	-3,258	-1,166	-1,759	-5,000	-8,584	-7,470	-6,277
50%	-5,606	-7,904	-5,328	-4,516	-4,474	-3,258	-1,422	-1,873	-5,000	-9,086	-8,637	-7,659
60%	-6,385	-8,879	-6,435	-5,000	-4,483	-3,258	-1,547	-2,025	-5,000	-9,551	-8,944	-8,877
70%	-6,870	-9,101	-7,370	-5,242	-4,997	-3,258	-1,669	-2,107	-5,000	-9,963	-9,161	-9,381
80%	-7,345	-9,264	-9,058	-5,242	-5,000	-3,258	-1,763	-2,191	-5,000	-10,372	-9,442	-9,532
90%	-8,127	-9,373	-9,534	-5,242	-5,268	-3,500	-2,005	-2,247	-5,000	-10,806	-9,937	-9,689
Long Term												
Full Simulation Period <sup>a</sup>	-5,578	-6,908	-6,318	-4,043	-3,893	-2,431	-1,014	-1,581	-4,572	-8,035	-7,274	-7,262
Water Year Types <sup>b,c</sup>												
Wet (32%)	-6,244	-7,894	-5,537	-2,688	-2,278	-877	-380	-1,060	-4,642	-8,498	-8,668	-8,541
Above Normal (15%)	-5,662	-6,518	-6,830	-4,335	-3,957	-2,754	-1,281	-2,029	-4,961	-9,522	-9,152	-9,495
Below Normal (17%)	-5,743	-7,352	-6,901	-4,717	-4,793	-3,277	-1,295	-1,871	-4,996	-9,784	-9,607	-8,123
Dry (22%)	-5,208	-6,556	-7,264	-5,094	-4,867	-3,254	-1,475	-1,909	-4,912	-8,000	-4,549	-5,707
Critical (15%)	-4,412	-5,175	-5,401	-4,320	-4,822	-3,251	-1,104	-1,435	-3,027	-3,559	-3,743	-3,582
Alternative 2B minus Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	714	513	218	0	535	269	-1,955	-2,436	-195	19	-360	278
20%	732	-86	0	0	0	308	-2,314	-2,425	-357	266	-113	503
30%	776	150	0	0	0	1,030	-2,041	-2,100	0	93	-100	573
40%	391	-461	0	0	0	1,113	-1,760	-228	0	-149	1,044	1,444
50%	322	-1,498	289	0	0	1,113	-37	-168	0	201	1,165	1,247
60%	10	-2,074	-61	0	0	1,113	45	-259	0	118	1,324	743
70%	-109	-1,450	-128	-242	-13	1,113	-33	-312	0	237	1,289	461
80%	101	-645	444	-242	0	1,113	-20	-358	0	301	1,116	418
90%	129	681	167	-242	-268	871	-78	-270	0	95	878	463
Long Term												
Full Simulation Period <sup>a</sup>	426	-339	75	-14	121	788	-972	-1,000	-40	210	653	593
Water Year Types <sup>b,c</sup>												
Wet (32%)	251	-461	-22	77	450	937	-2,325	-1,872	25	241	1,546	1,025
Above Normal (15%)	293	-40	513	-60	291	1,006	-1,386	-1,646	5	31	1,440	498
Below Normal (17%)	260	-442	99	-138	-143	1,017	-880	-1,176	-23	473	95	637
Dry (22%)	636	-184	-260	-206	-157	898	112	-136	-185	401	-210	329
Critical (15%)	820	-483	326	268	-35	-185	644	446	-30	-273	-122	96

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).

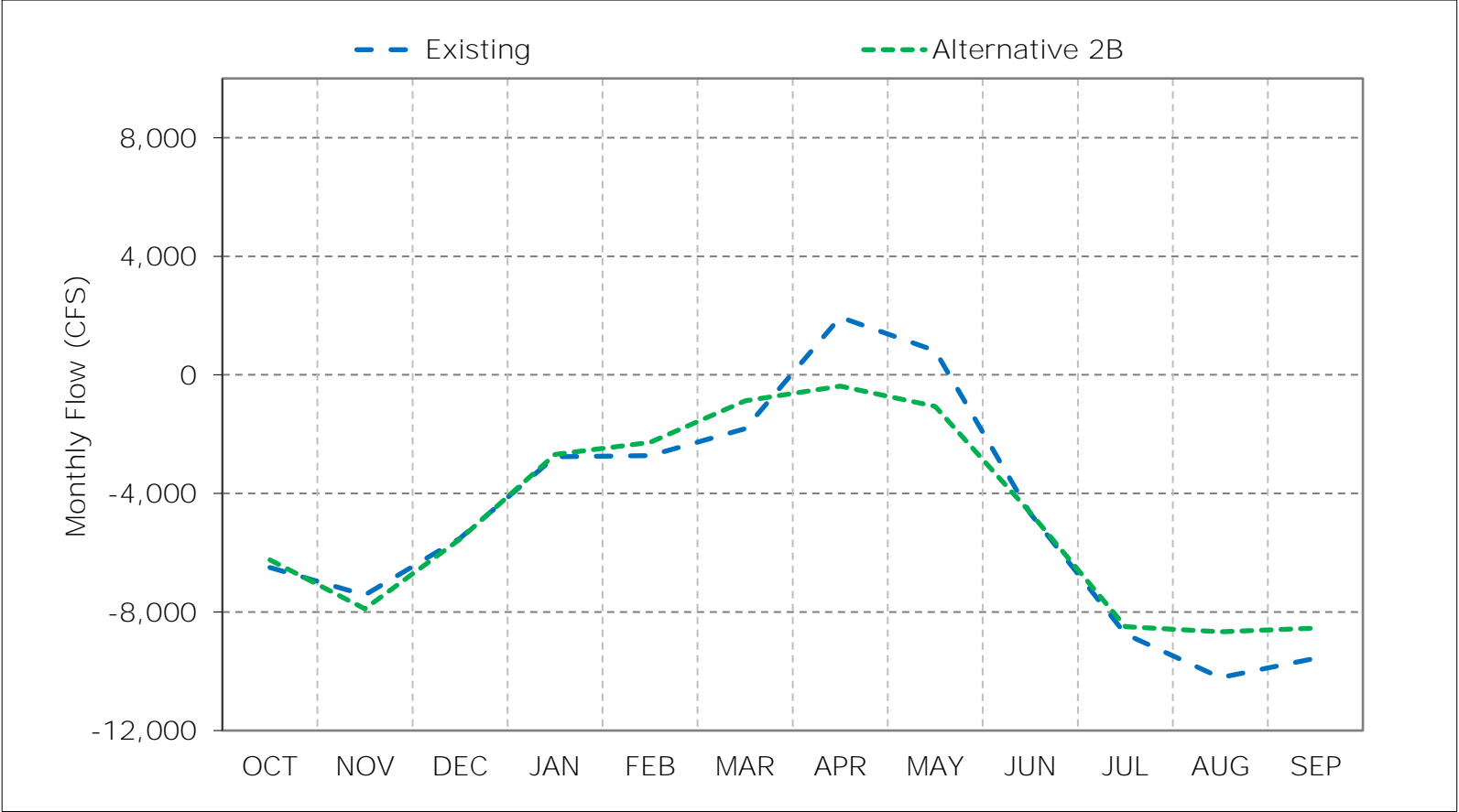
c These results are displayed with water year - year type sorting.

Figure 7-1. Old and Middle River Flow, Long-Term Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

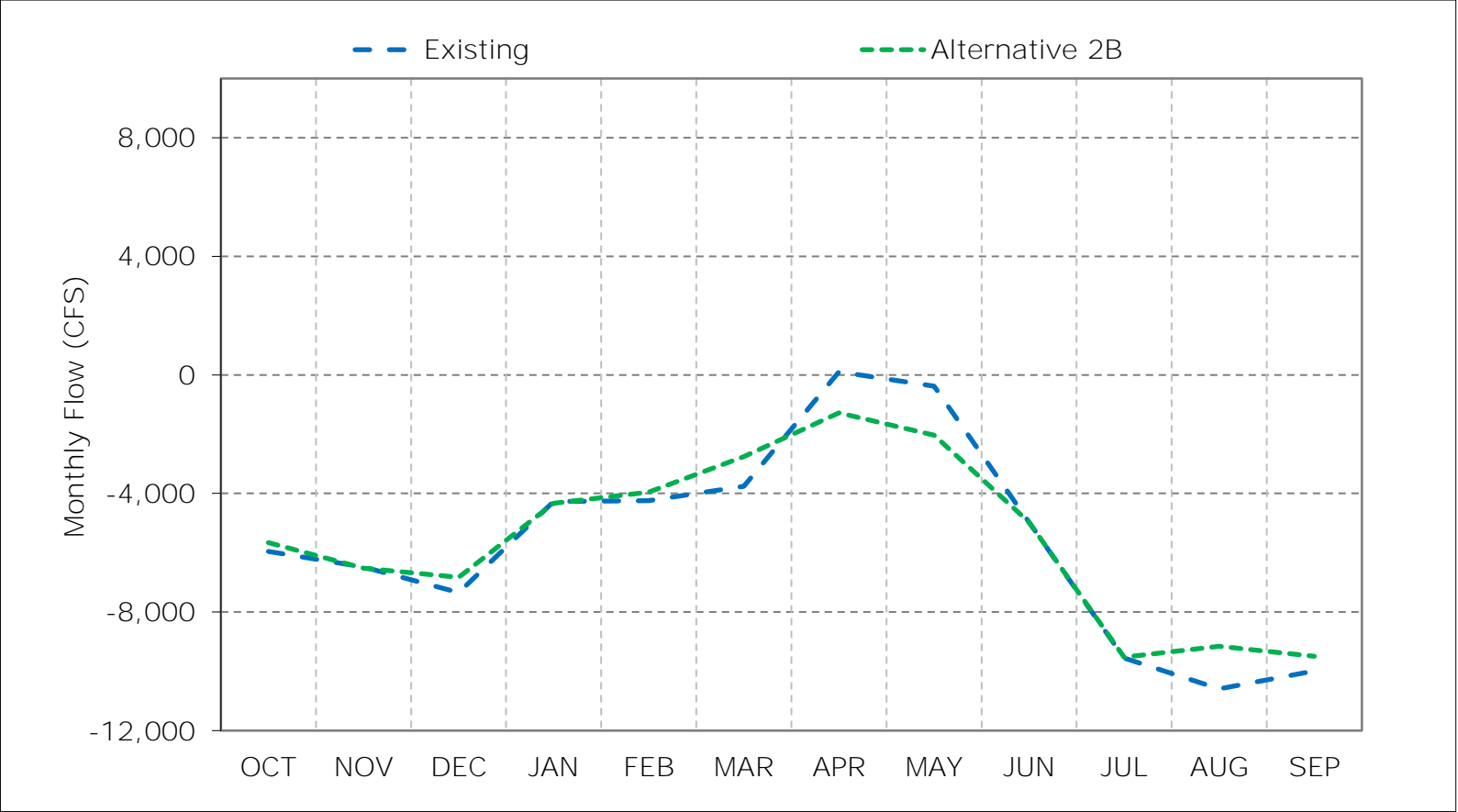
Figure 7-2. Old and Middle River Flow, Wet Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

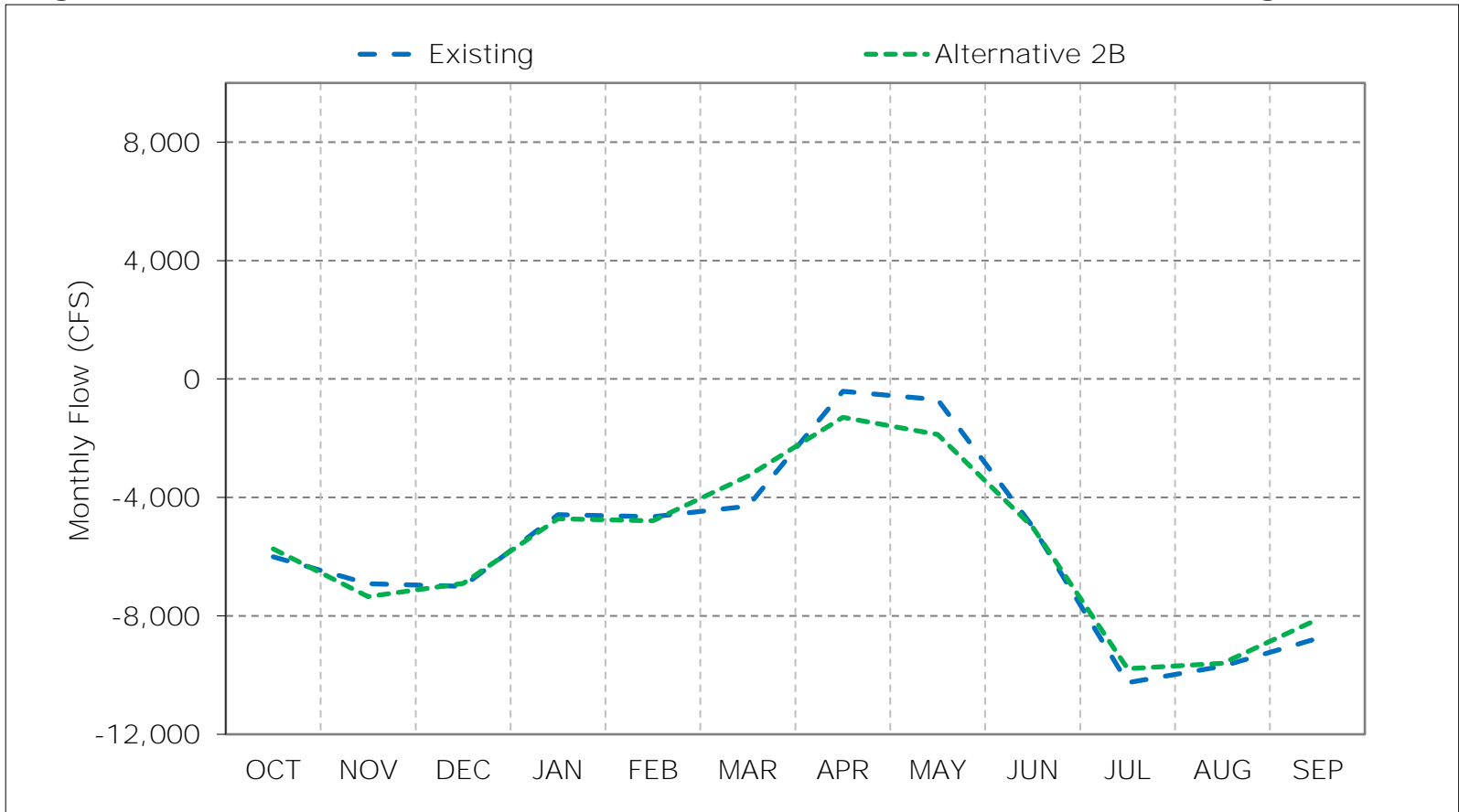


Figure 7-3. Old and Middle River Flow, Above Normal Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

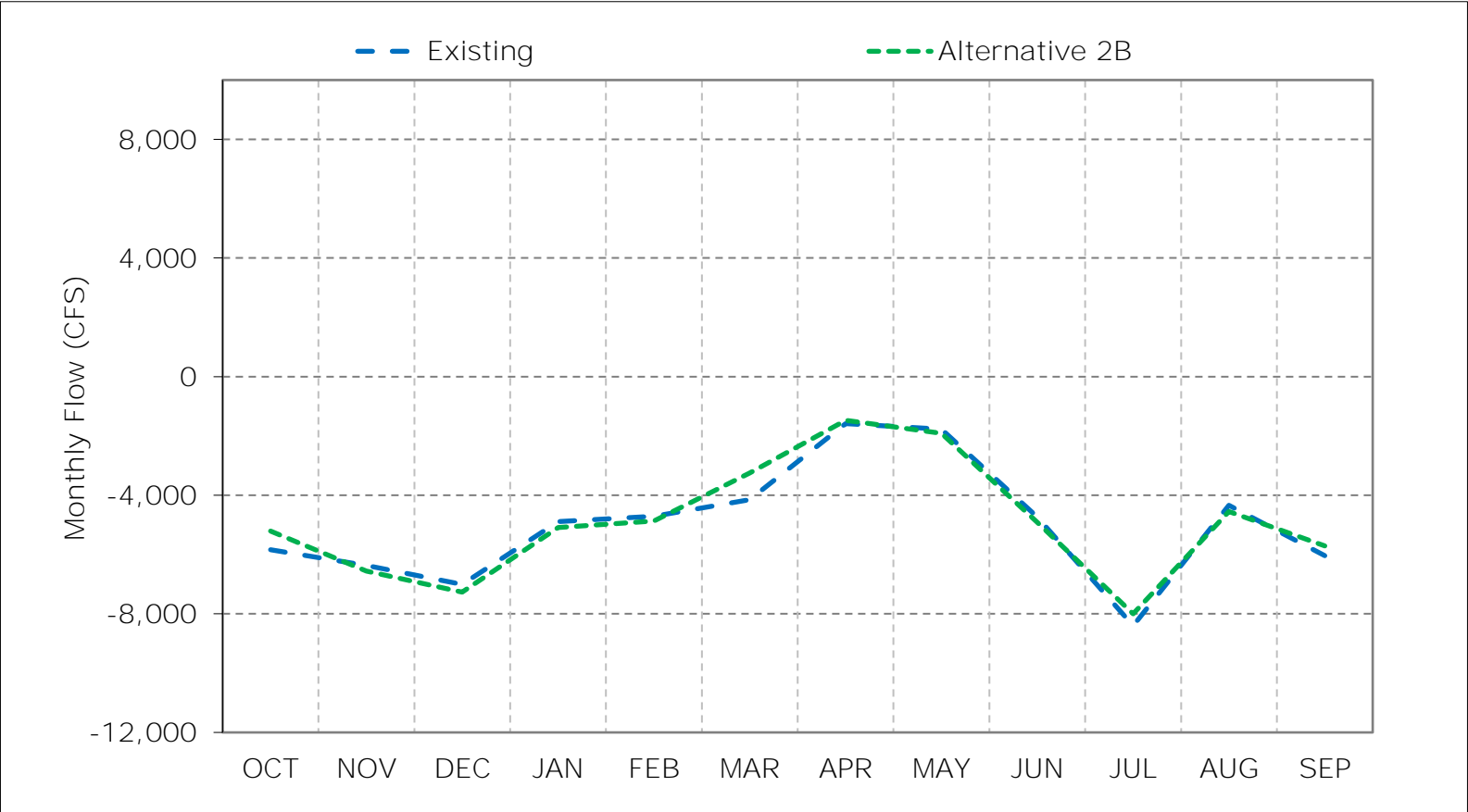
Figure 7-4. Old and Middle River Flow, Below Normal Year Average Flow



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

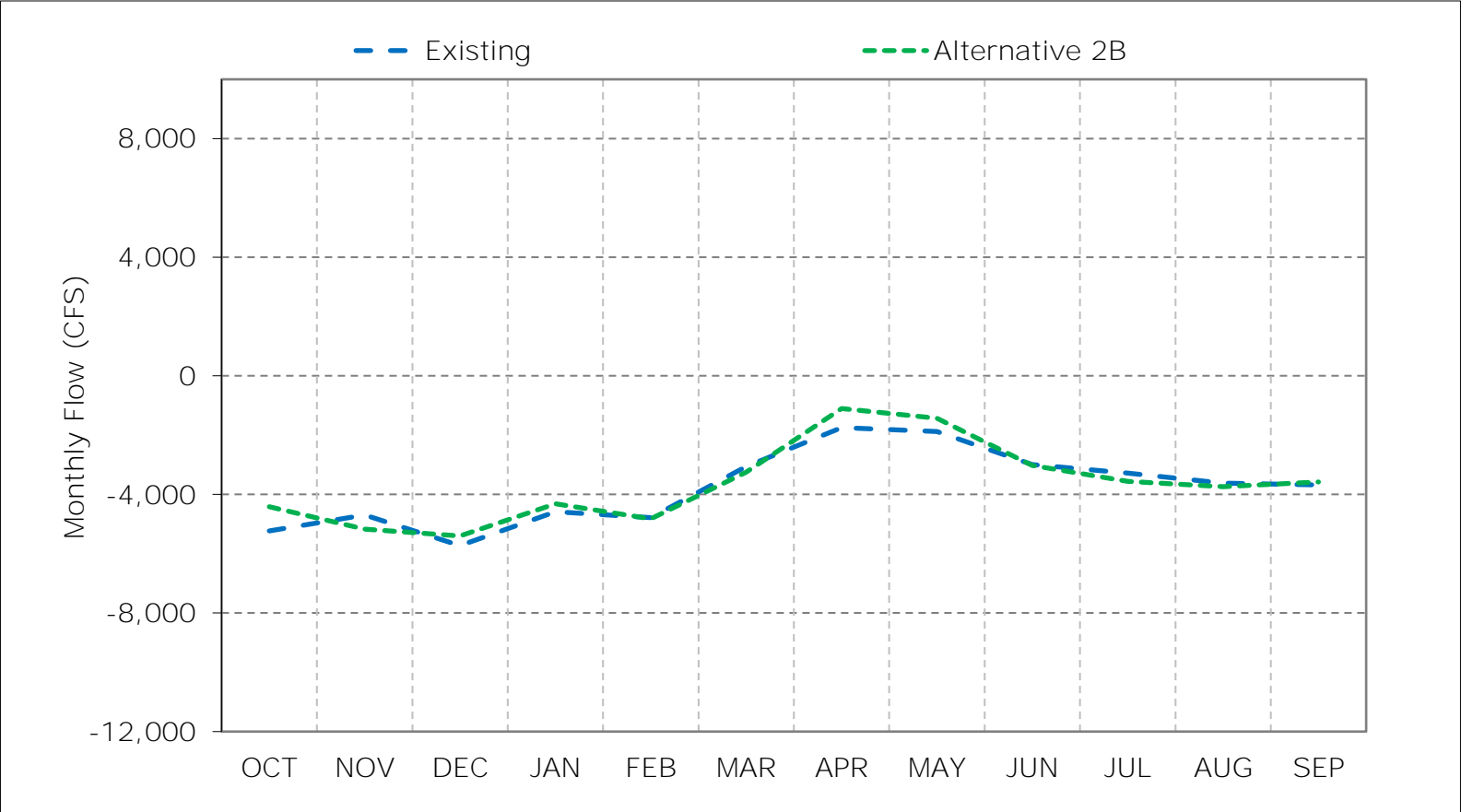
\*These results are displayed with water year - year type sorting.

Figure 7-5. Old and Middle River Flow, Dry Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 7-6. Old and Middle River Flow, Critical Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 7-7. Old and Middle River Flow, October

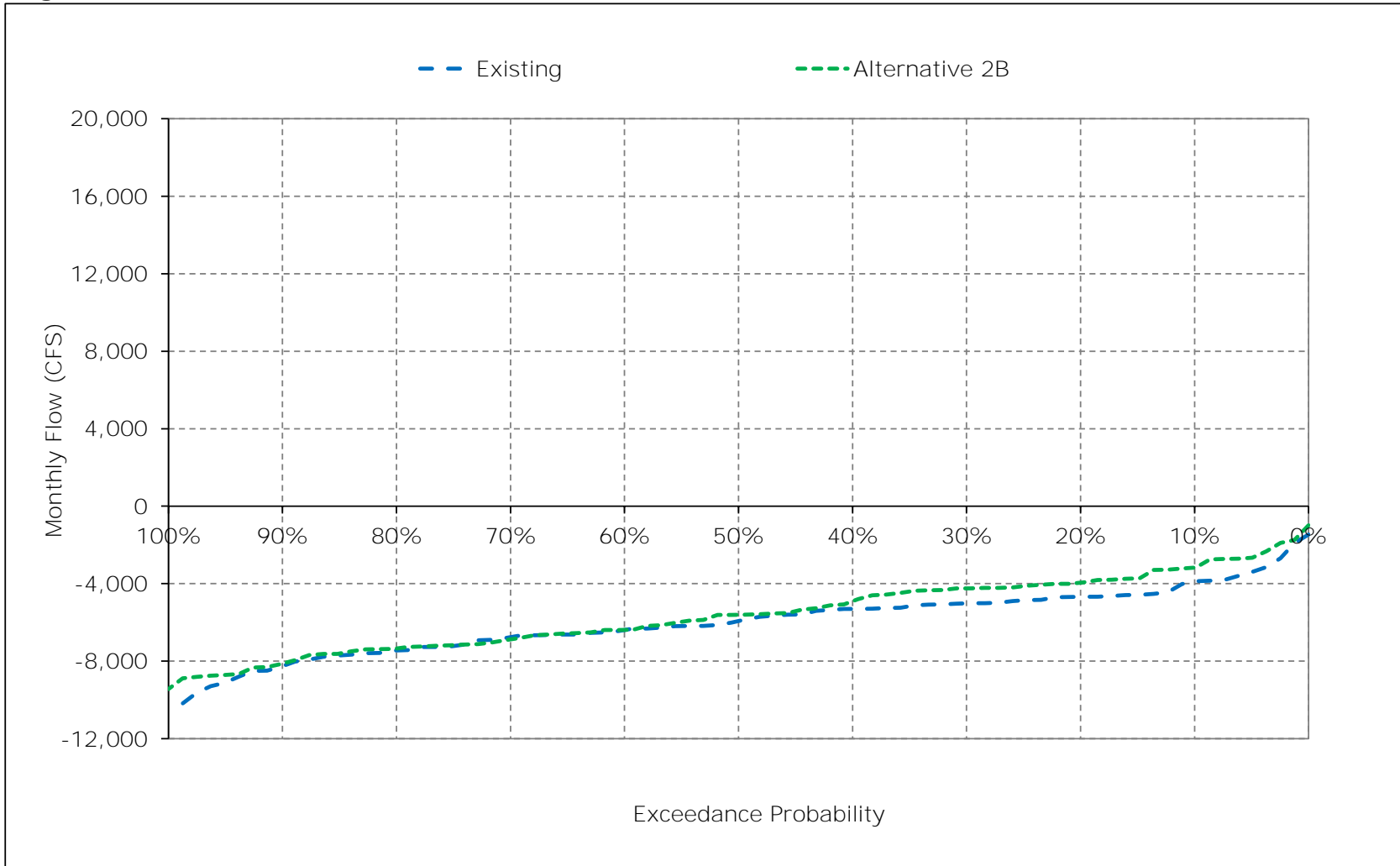


Figure 7-8. Old and Middle River Flow, November

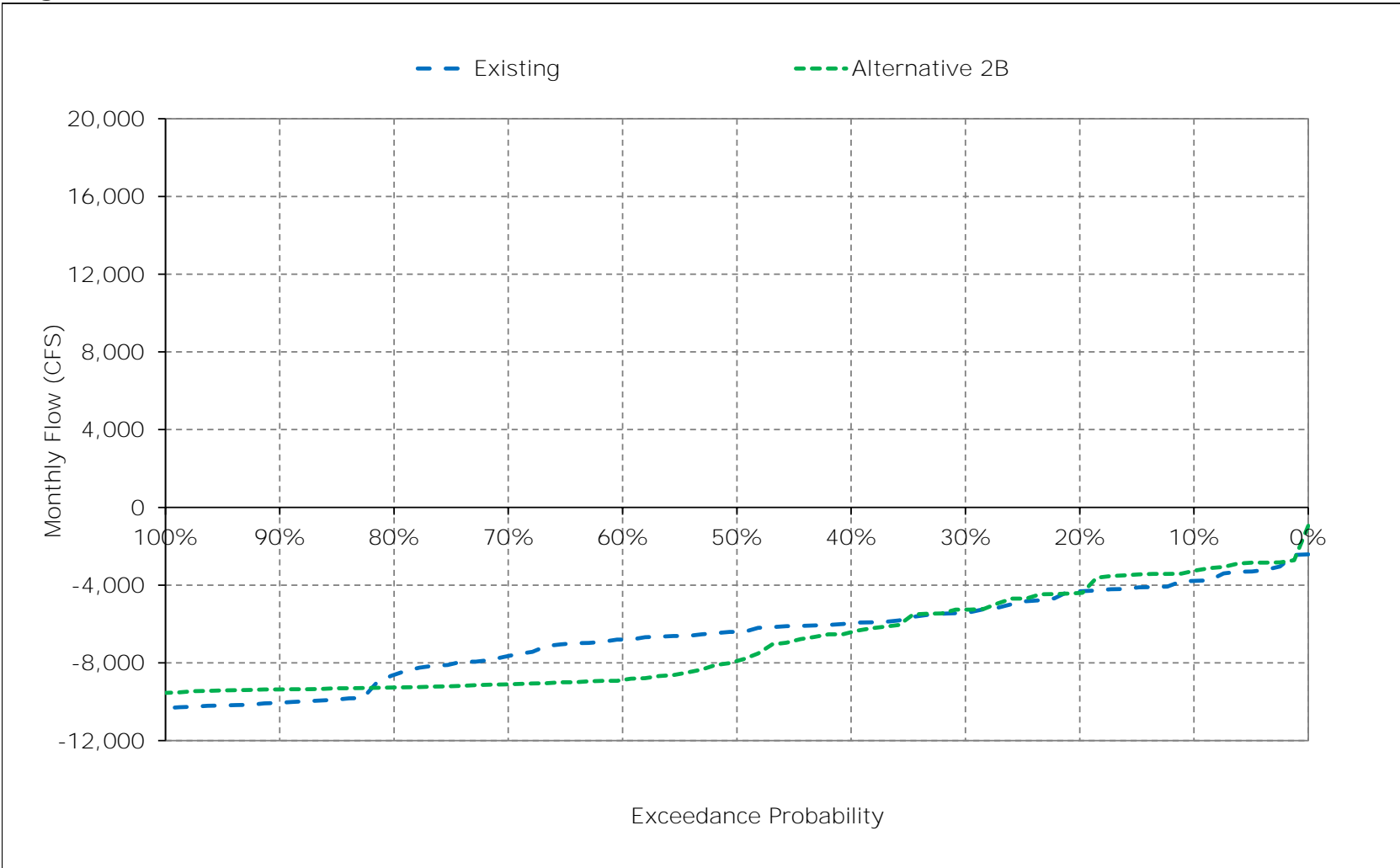


Figure 7-9. Old and Middle River Flow, December

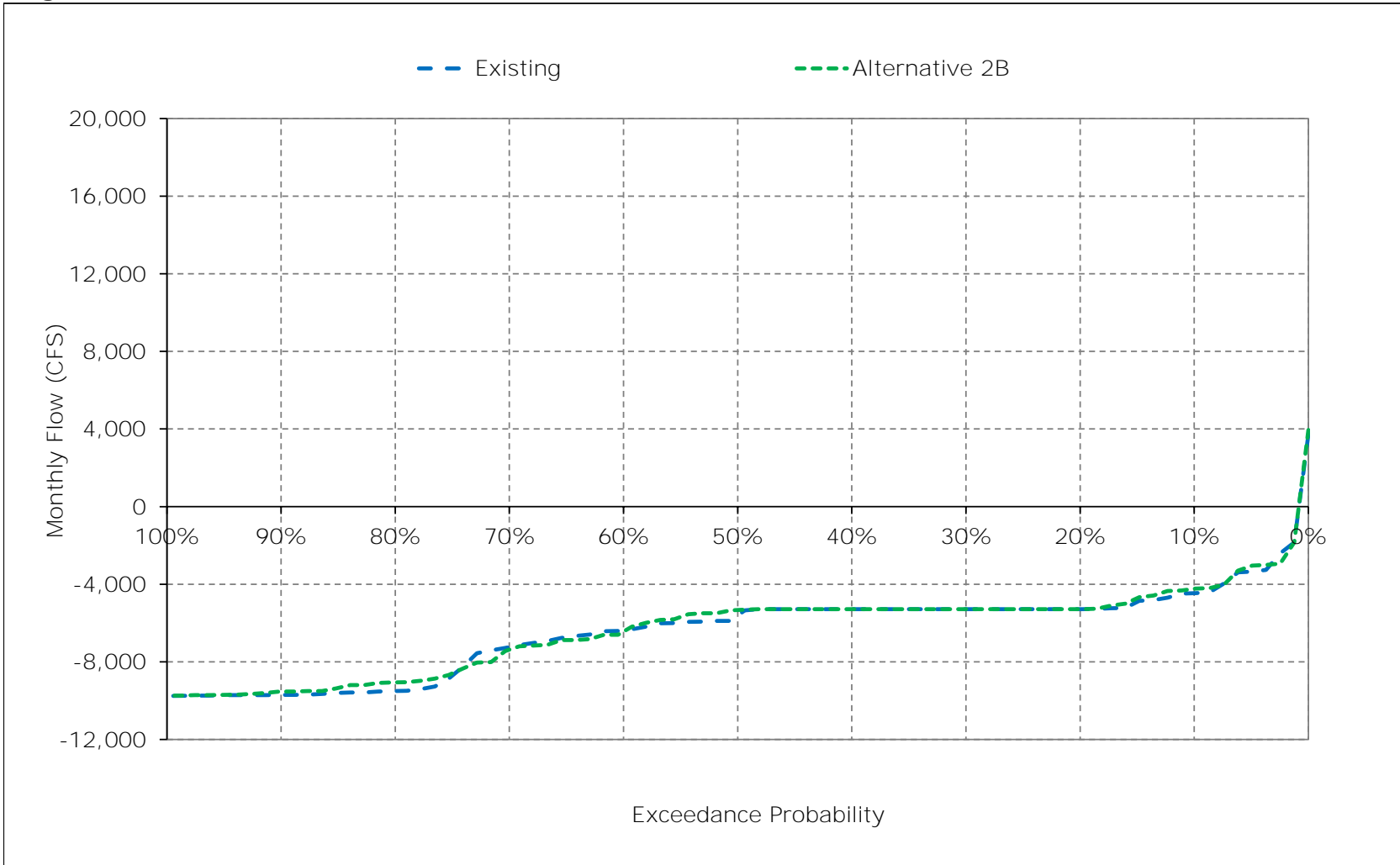


Figure 7-10. Old and Middle River Flow, January

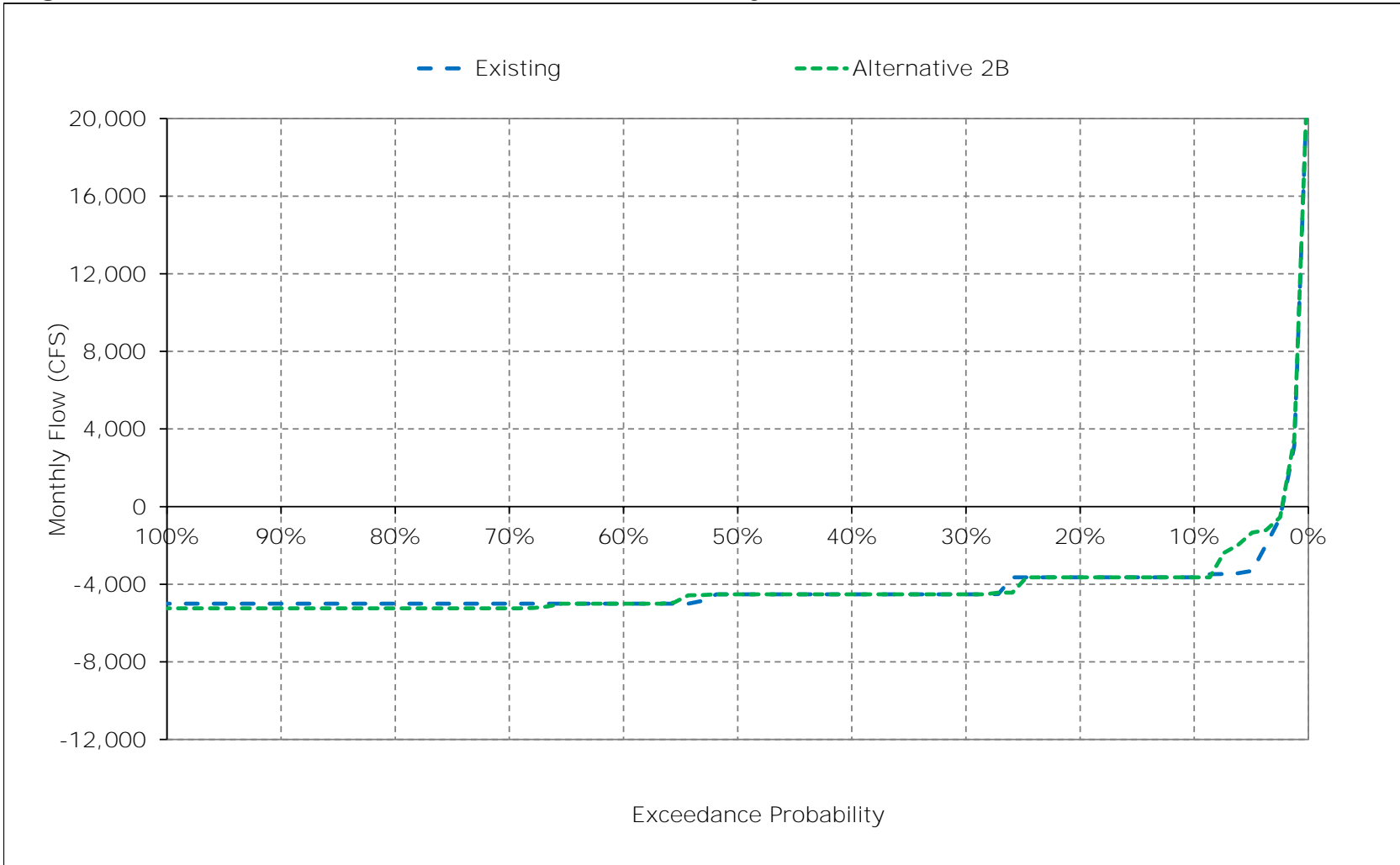




Figure 7-11. Old and Middle River Flow, February

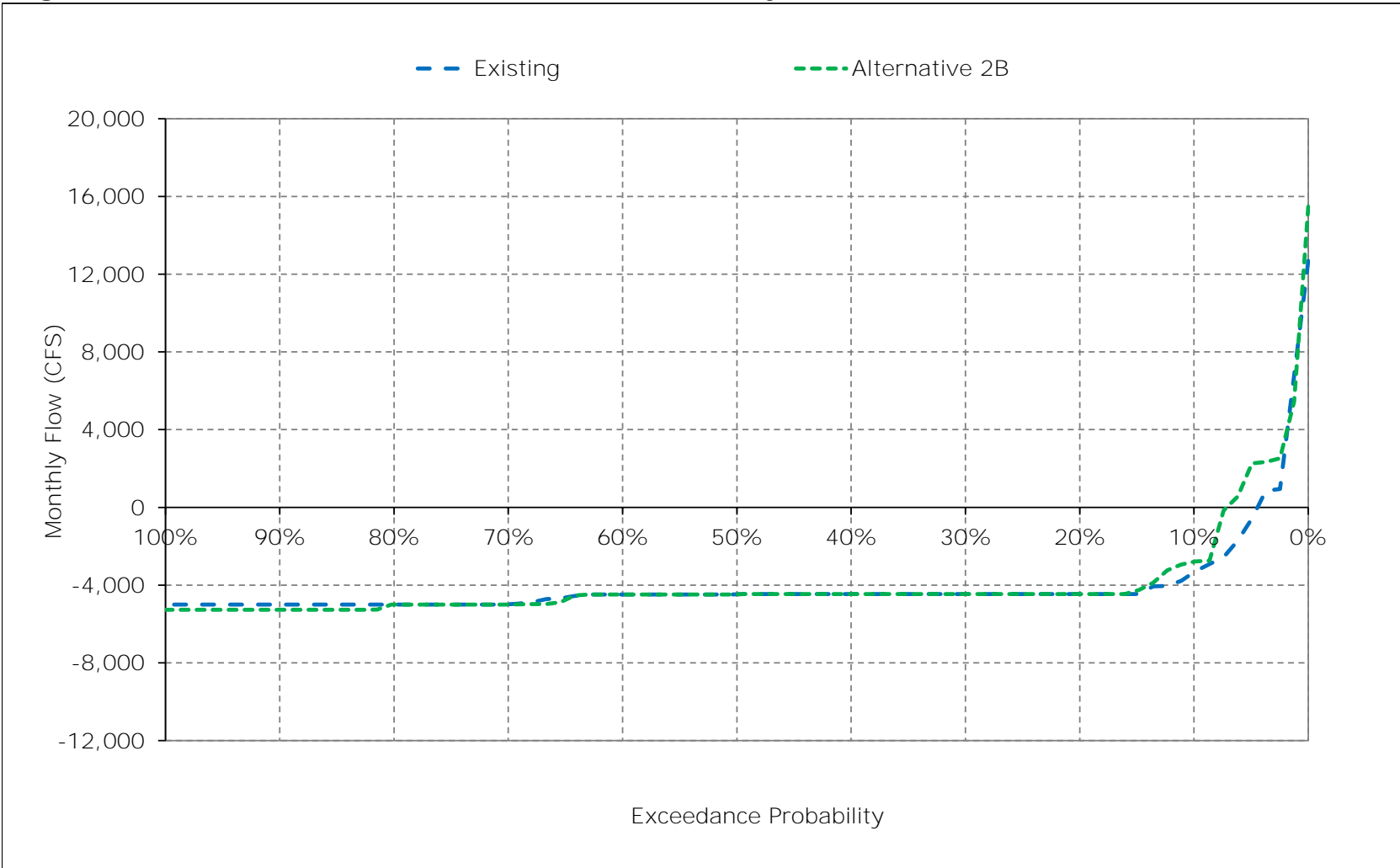


Figure 7-12. Old and Middle River Flow, March

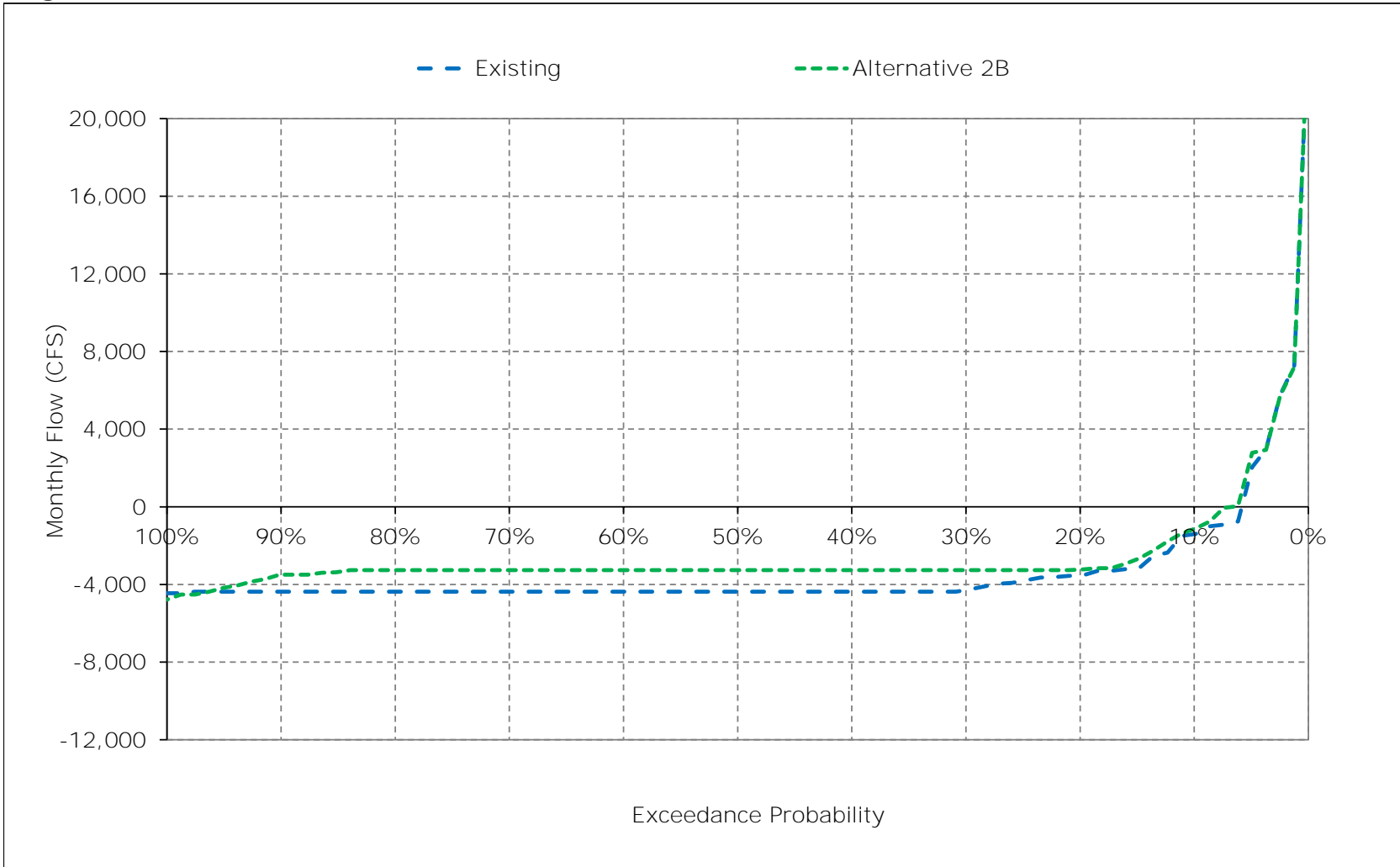


Figure 7-13. Old and Middle River Flow, April

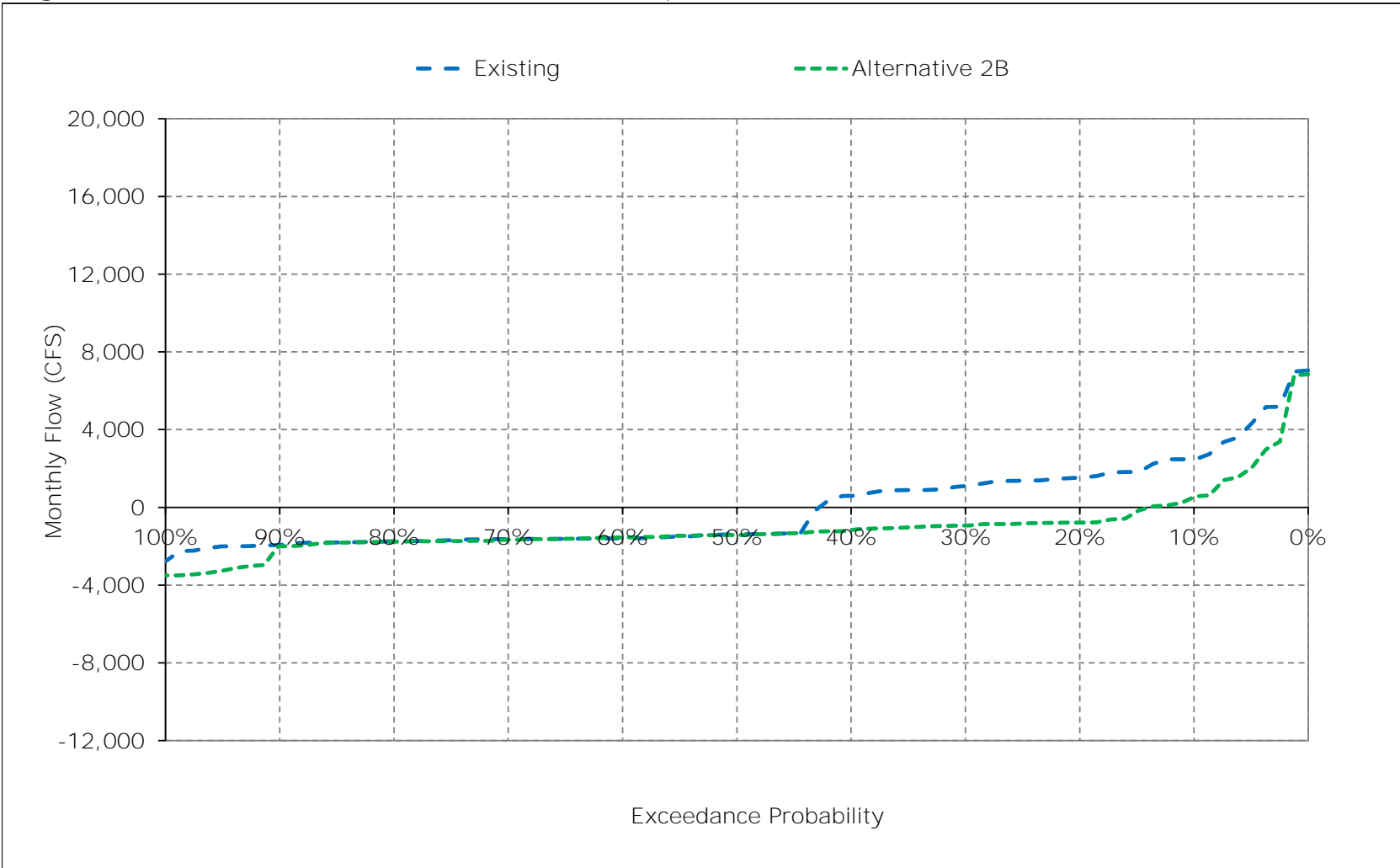


Figure 7-14. Old and Middle River Flow, May

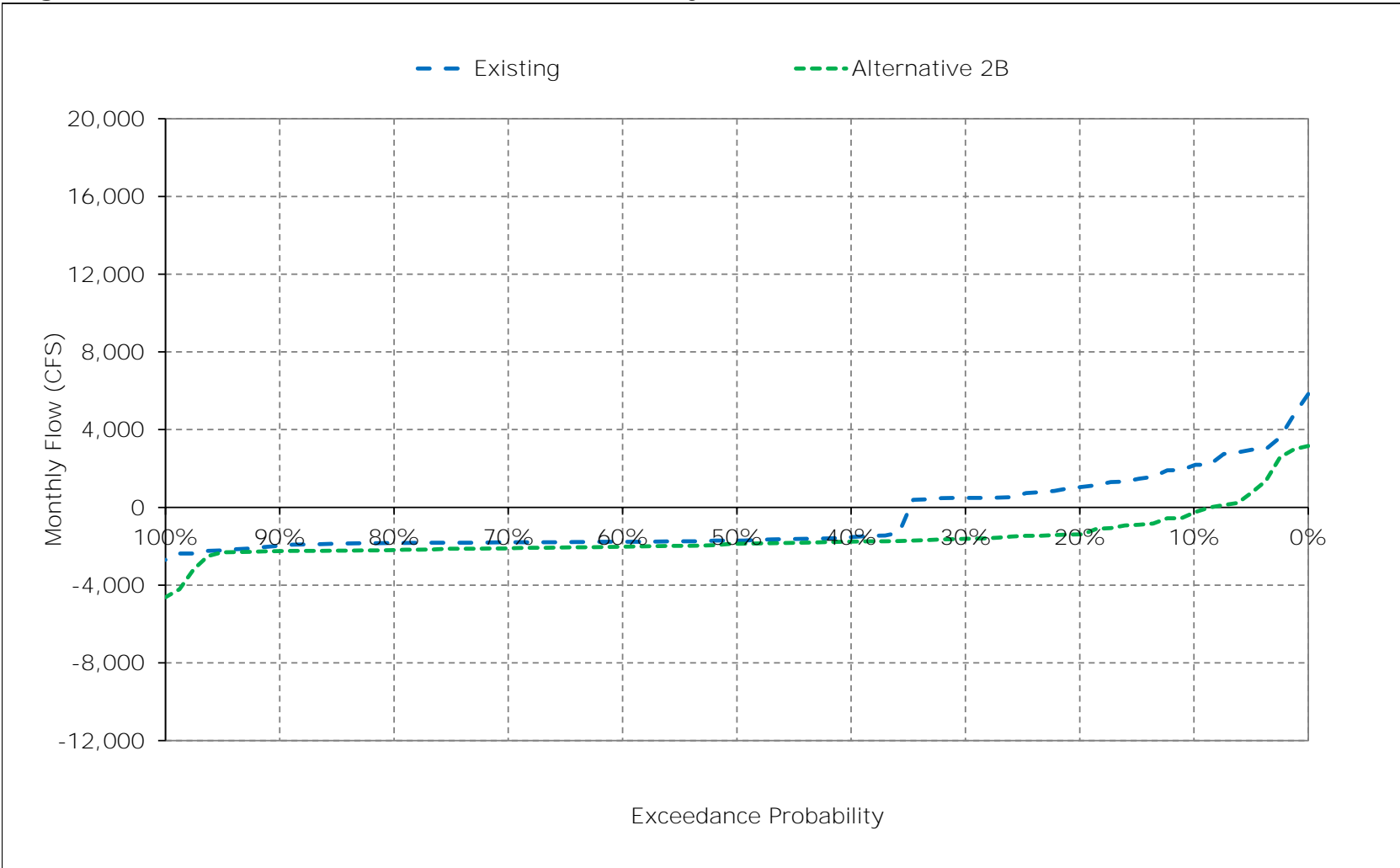


Figure 7-15. Old and Middle River Flow, June

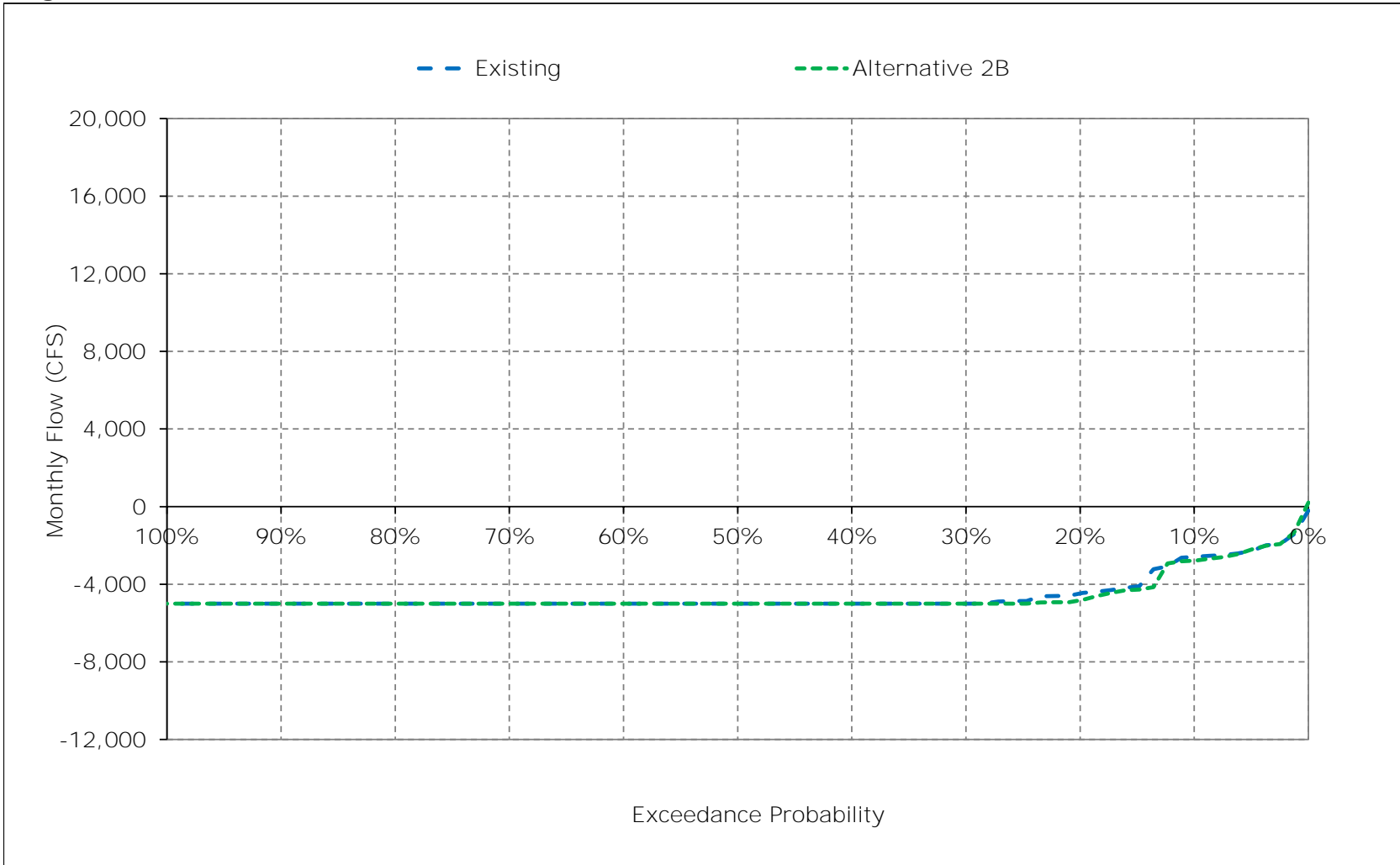


Figure 7-16. Old and Middle River Flow, July

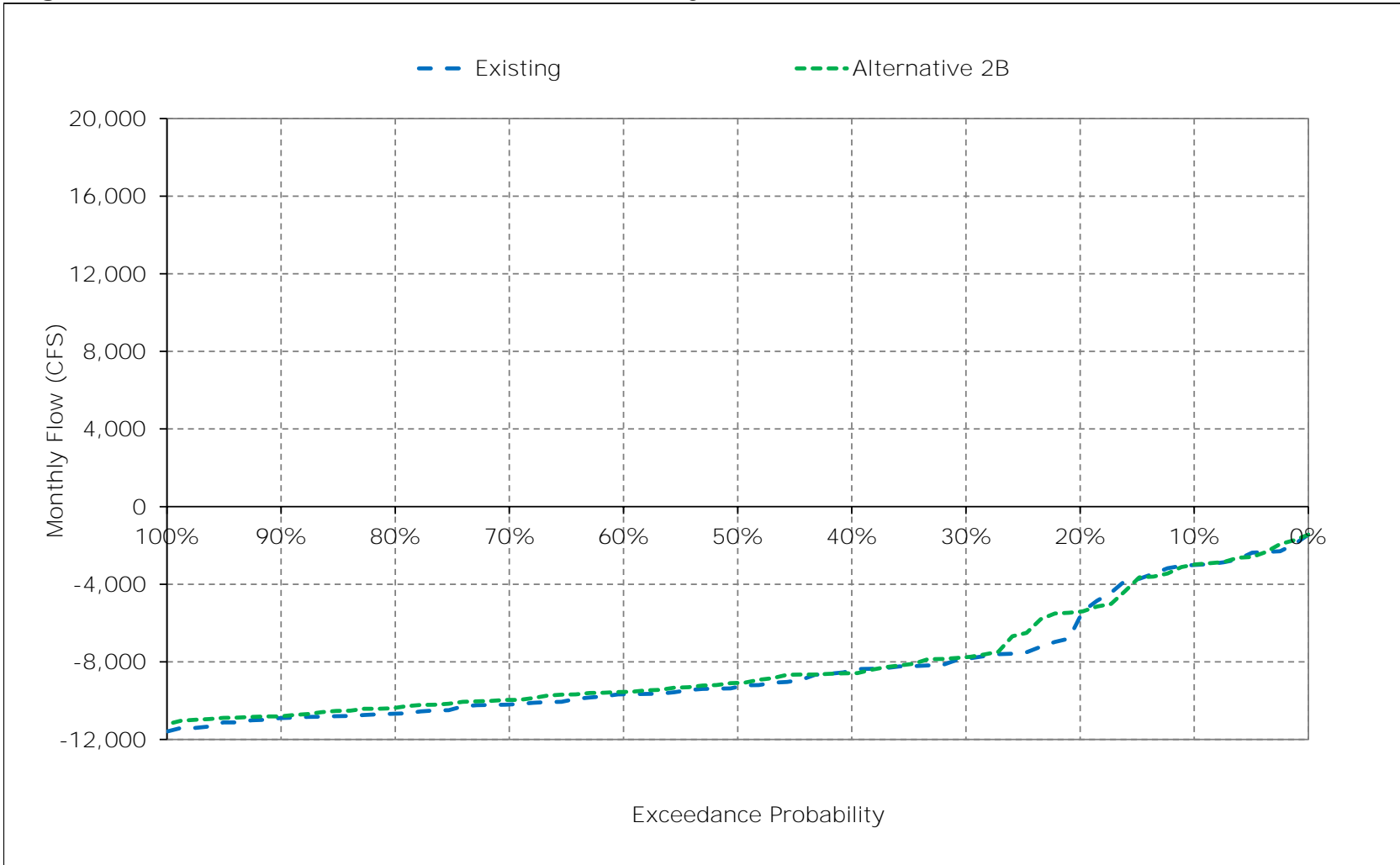


Figure 7-17. Old and Middle River Flow, August

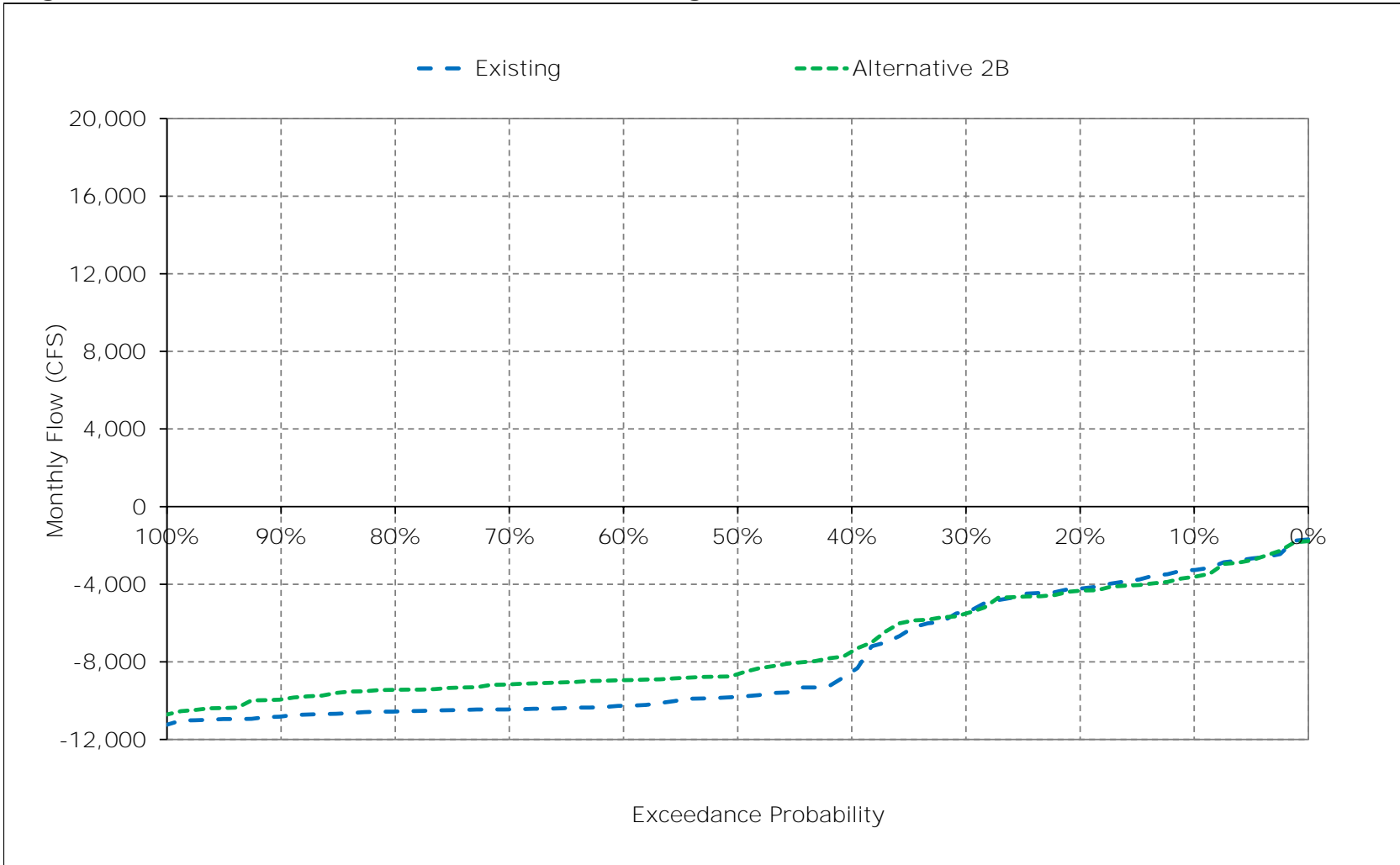


Figure 7-18. Old and Middle River Flow, September

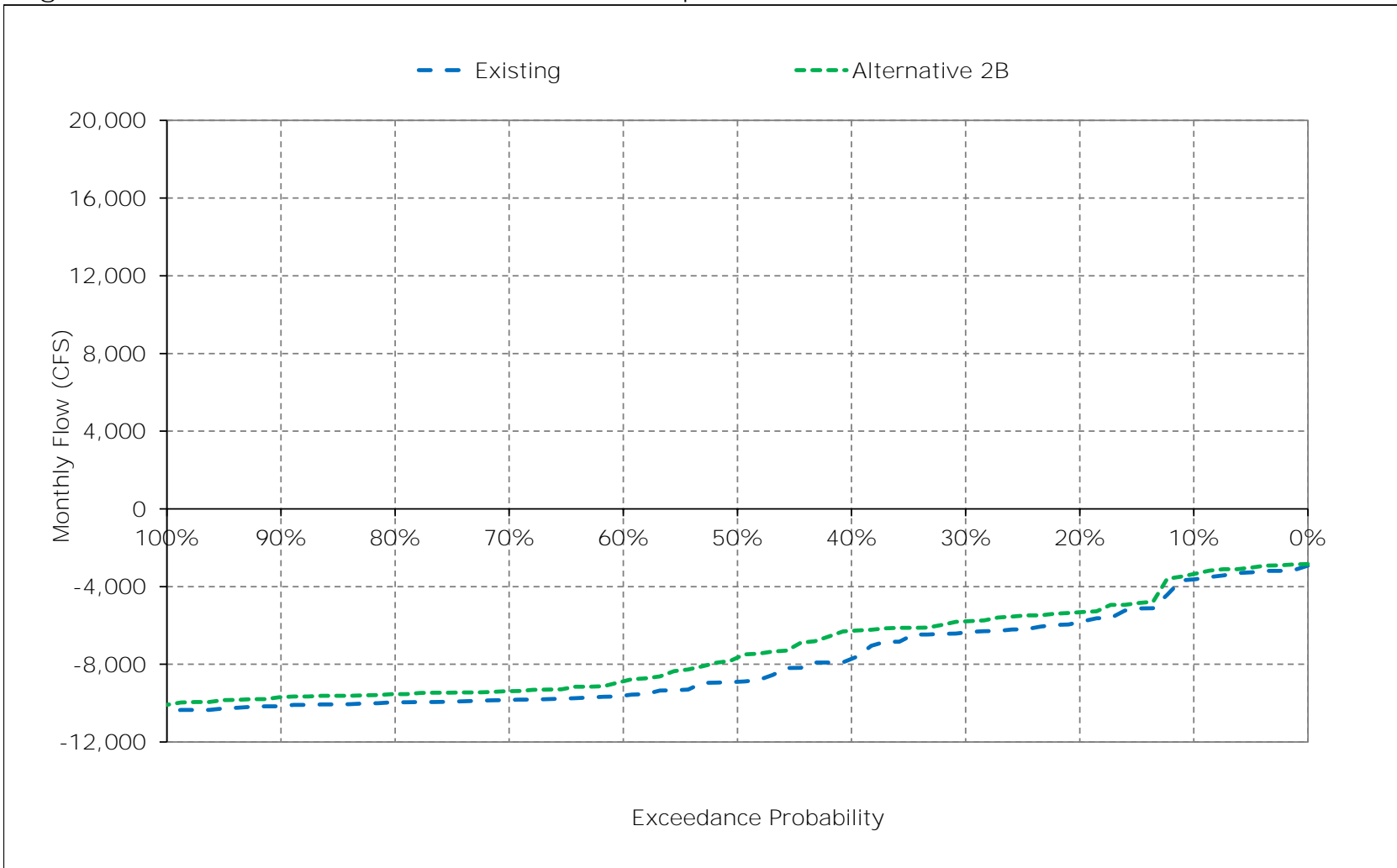




Table 8-1. Qwest, Monthly Flow

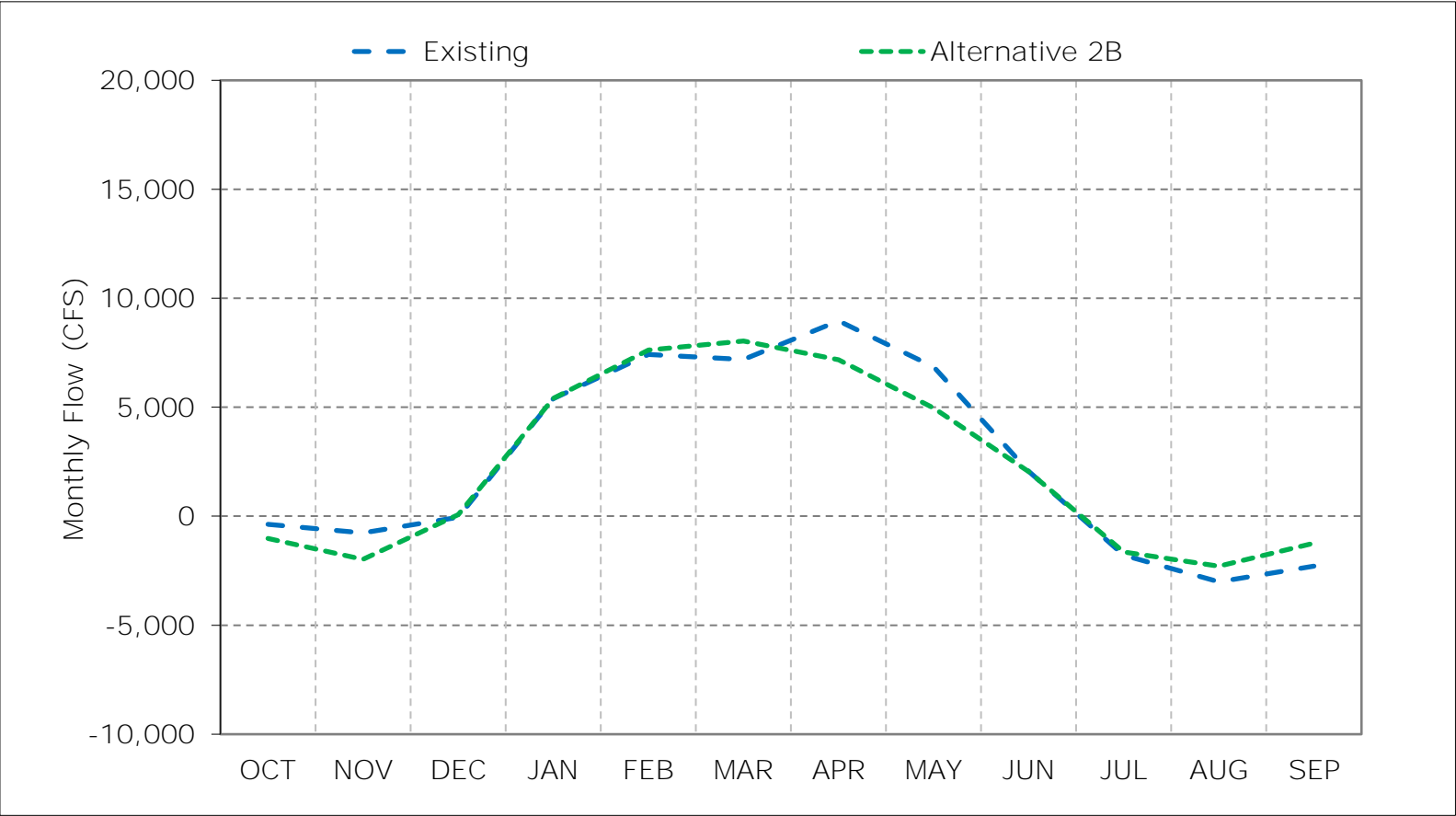
Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,101	1,598	7,499	14,692	18,541	18,228	20,508	16,658	7,874	362	245	35
20%	459	97	2,675	10,229	12,454	11,863	14,500	9,590	3,602	-285	-650	-1,012
30%	76	-77	-321	5,864	10,150	6,927	10,843	7,568	2,039	-1,323	-1,260	-1,568
40%	-10	-641	-1,310	3,159	7,473	5,169	8,593	6,449	1,054	-2,443	-2,321	-1,948
50%	-224	-923	-1,710	1,398	4,039	3,332	6,602	5,451	476	-2,799	-4,233	-2,266
60%	-371	-1,513	-2,422	261	1,931	2,051	4,740	3,606	51	-3,227	-4,588	-2,638
70%	-578	-1,990	-3,349	-189	730	1,470	3,805	2,374	-556	-3,787	-4,725	-3,631
80%	-1,237	-2,586	-4,822	-985	-18	684	2,559	1,691	-930	-4,236	-5,078	-4,095
90%	-1,696	-3,624	-5,504	-1,333	-908	-178	1,618	921	-1,123	-4,772	-5,296	-4,560
Long Term												
Full Simulation Period <sup>a</sup>	-375	-767	-53	5,395	7,422	7,194	8,963	6,858	2,054	-1,788	-3,008	-2,285
Water Year Types <sup>b,c</sup>												
Wet (32%)	-497	-233	4,357	13,707	15,795	15,802	16,456	13,289	6,129	542	-3,962	-3,120
Above Normal (15%)	-536	-877	-1,207	6,404	8,852	8,806	9,620	7,376	1,502	-2,434	-5,088	-1,665
Below Normal (17%)	-221	-1,429	-1,740	1,722	5,401	3,169	7,343	5,311	189	-4,172	-4,524	-3,501
Dry (22%)	-281	-1,341	-2,853	-309	1,266	1,312	3,890	2,496	-660	-3,778	-769	-1,874
Critical (15%)	-268	-182	-2,286	-781	-560	451	1,572	755	25	-425	-449	-295
Alternative 2B												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	478	72	7,504	14,763	19,500	18,842	14,730	12,443	7,870	473	-14	220
20%	66	-157	2,558	10,208	12,448	13,417	10,703	6,737	3,759	-451	-700	-347
30%	-36	-1,184	-153	5,983	9,702	7,854	8,755	5,271	1,735	-1,376	-1,048	-716
40%	-142	-1,950	-1,168	3,456	7,459	6,445	6,326	4,270	1,001	-1,923	-2,008	-1,092
50%	-617	-2,406	-1,716	1,845	4,066	4,472	4,777	3,282	443	-2,644	-2,740	-1,456
60%	-1,096	-3,355	-2,325	205	1,831	2,887	3,599	2,120	-105	-3,072	-3,109	-1,742
70%	-1,907	-3,608	-3,200	-488	562	1,896	2,845	1,217	-418	-3,772	-3,413	-1,936
80%	-2,221	-3,966	-4,695	-1,230	-385	1,368	1,875	539	-805	-4,056	-3,892	-2,264
90%	-3,096	-4,456	-5,248	-1,392	-1,031	176	1,445	253	-1,094	-4,526	-4,429	-3,288
Long Term												
Full Simulation Period <sup>a</sup>	-1,014	-1,974	69	5,413	7,621	8,039	7,174	4,964	2,051	-1,637	-2,292	-1,239
Water Year Types <sup>b,c</sup>												
Wet (32%)	-1,379	-1,811	4,489	13,828	16,429	16,813	13,543	10,465	6,105	747	-2,270	4
Above Normal (15%)	-1,227	-1,632	-713	6,418	9,233	10,023	7,515	4,929	1,635	-2,562	-3,506	-1,290
Below Normal (17%)	-1,117	-2,659	-1,642	1,758	5,408	4,244	5,662	3,416	316	-3,719	-4,447	-3,362
Dry (22%)	-664	-2,265	-3,126	-566	1,028	2,239	2,749	1,264	-797	-3,495	-991	-1,889
Critical (15%)	-413	-1,431	-1,935	-591	-605	172	1,435	435	-18	-662	-562	-433
Alternative 2B minus Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-623	-1,525	5	71	959	614	-5,779	-4,216	-3	110	-260	186
20%	-393	-254	-117	-21	-5	1,553	-3,797	-2,853	157	-166	-51	665
30%	-112	-1,107	168	119	-449	928	-2,088	-2,297	-305	-54	212	852
40%	-132	-1,308	142	297	-15	1,276	-2,267	-2,179	-54	520	313	856
50%	-393	-1,483	-6	446	27	1,140	-1,824	-2,169	-33	155	1,494	810
60%	-725	-1,842	97	-56	-100	836	-1,140	-1,485	-156	155	1,480	896
70%	-1,329	-1,618	149	-300	-168	426	-960	-1,157	137	15	1,312	1,695
80%	-984	-1,381	128	-244	-366	684	-685	-1,152	125	180	1,186	1,831
90%	-1,400	-832	256	-59	-123	353	-173	-668	29	246	868	1,272
Long Term												
Full Simulation Period <sup>a</sup>	-639	-1,206	122	18	199	844	-1,789	-1,894	-3	151	716	1,046
Water Year Types <sup>b,c</sup>												
Wet (32%)	-882	-1,578	132	121	634	1,010	-2,913	-2,823	-24	205	1,692	3,124
Above Normal (15%)	-691	-756	494	15	381	1,217	-2,106	-2,446	133	-127	1,582	375
Below Normal (17%)	-896	-1,229	98	36	8	1,075	-1,681	-1,895	127	453	76	139
Dry (22%)	-383	-924	-273	-257	-238	926	-1,141	-1,232	-137	282	-222	-15
Critical (15%)	-145	-1,248	351	189	-45	-279	-137	-320	-43	-237	-112	-138

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).

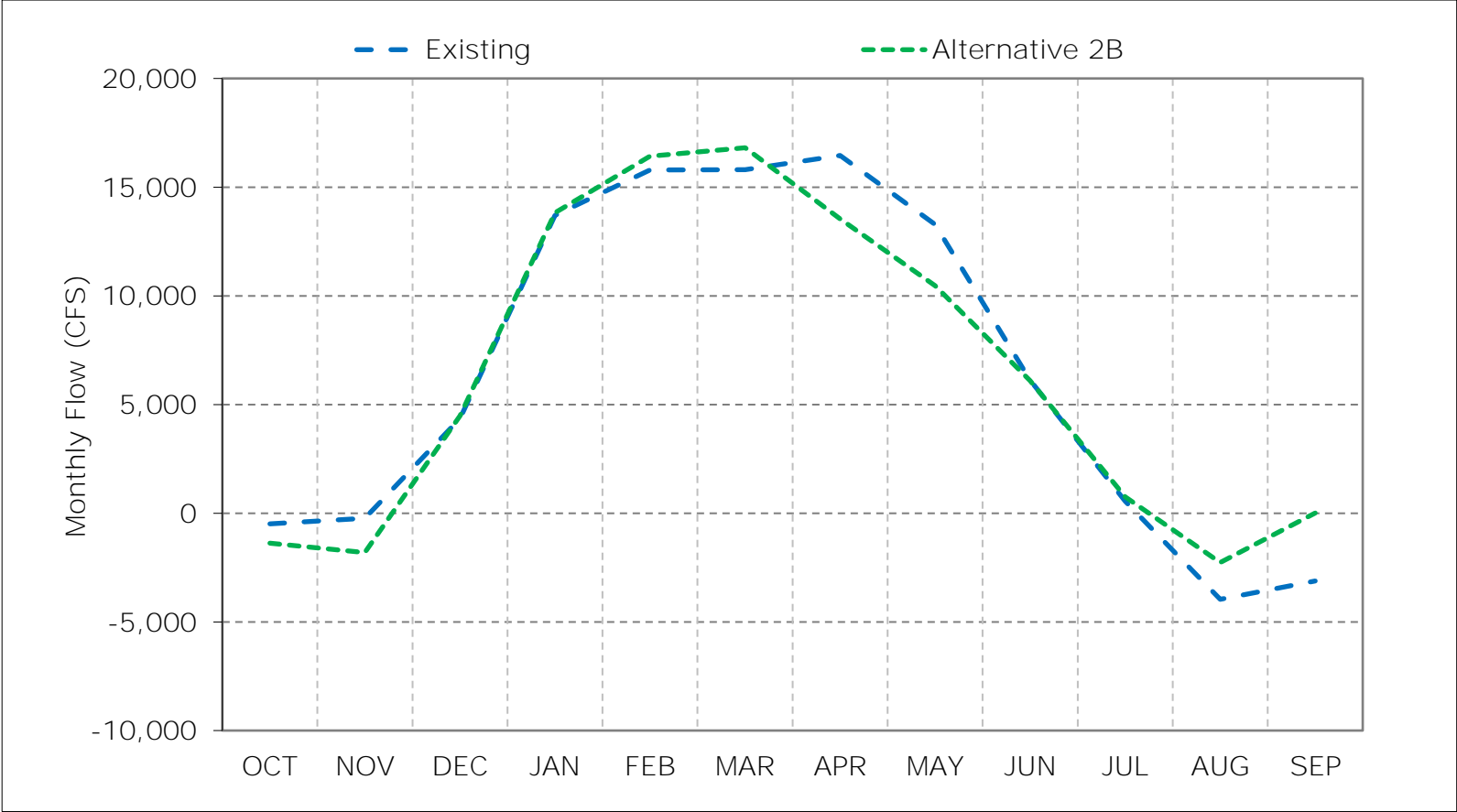
c These results are displayed with water year - year type sorting.

Figure 8-1. Qwest, Long-Term Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

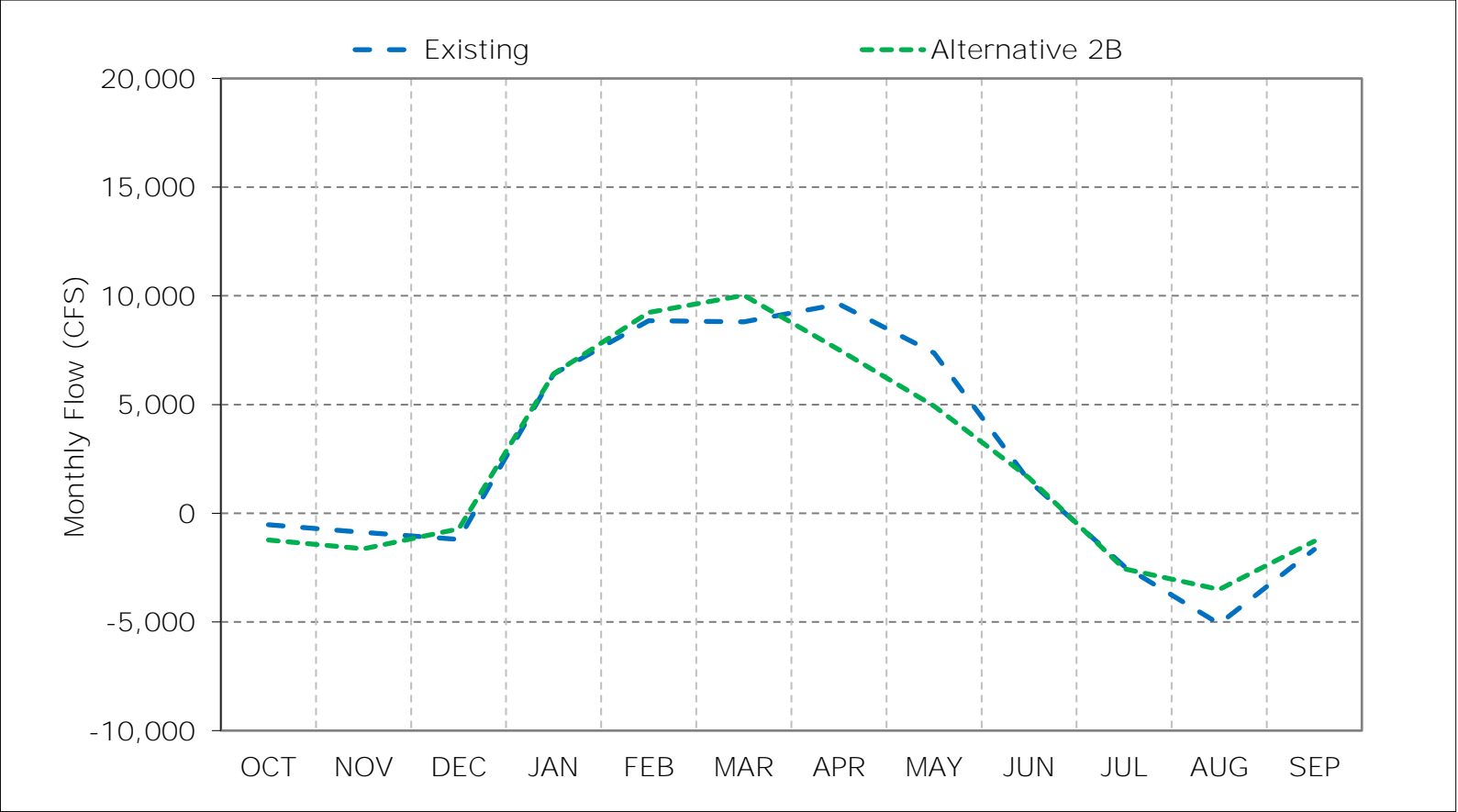
Figure 8-2. Qwest, Wet Year Average Flow



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

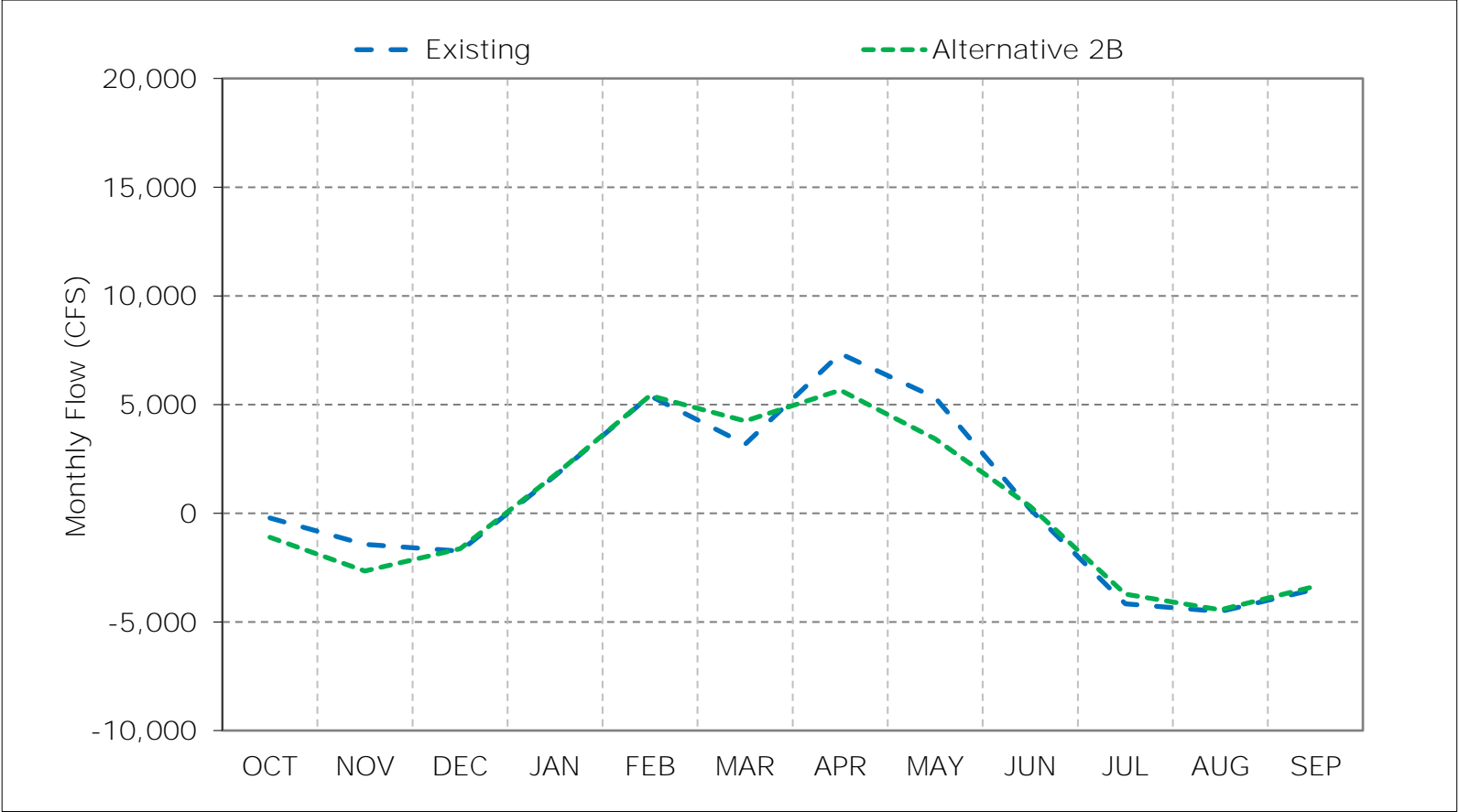
\*These results are displayed with water year - year type sorting.

Figure 8-3. Qwest, Above Normal Year Average Flow



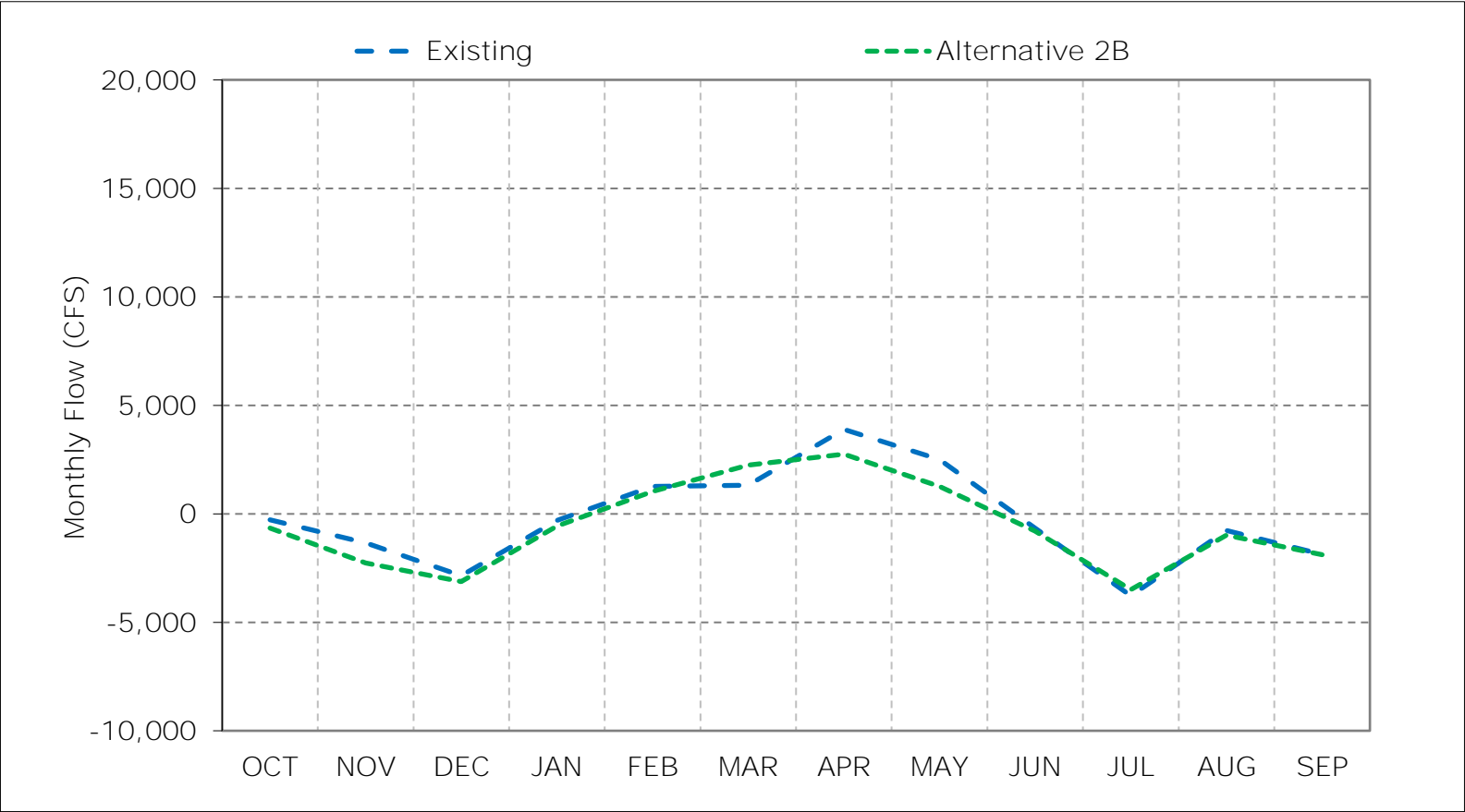
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 8-4. Qwest, Below Normal Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

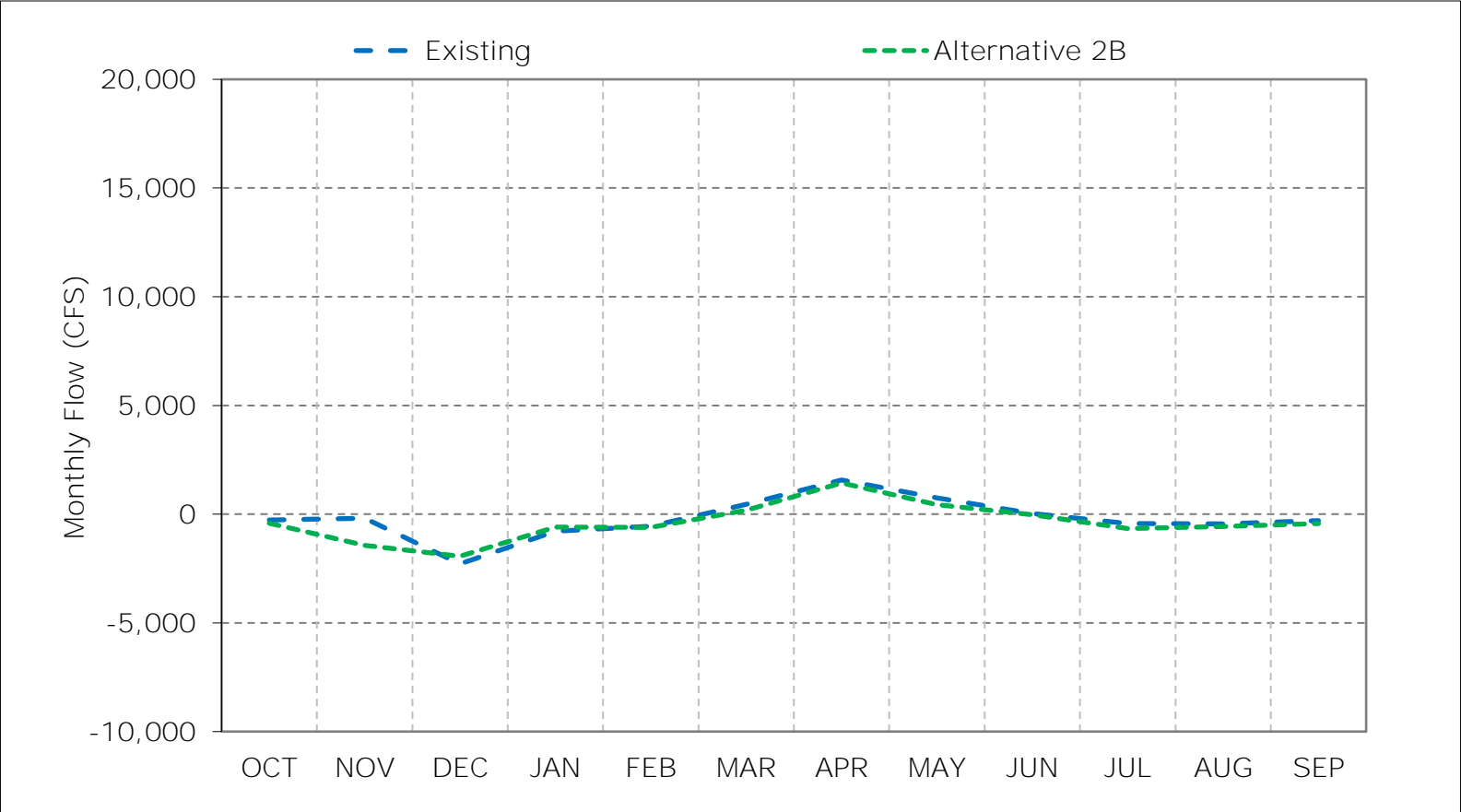
Figure 8-5. Qwest, Dry Year Average Flow



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

\*These results are displayed with water year - year type sorting.

Figure 8-6. Qwest, Critical Year Average Flow



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

\*These results are displayed with water year - year type sorting.

Figure 8-7. Qwest, October

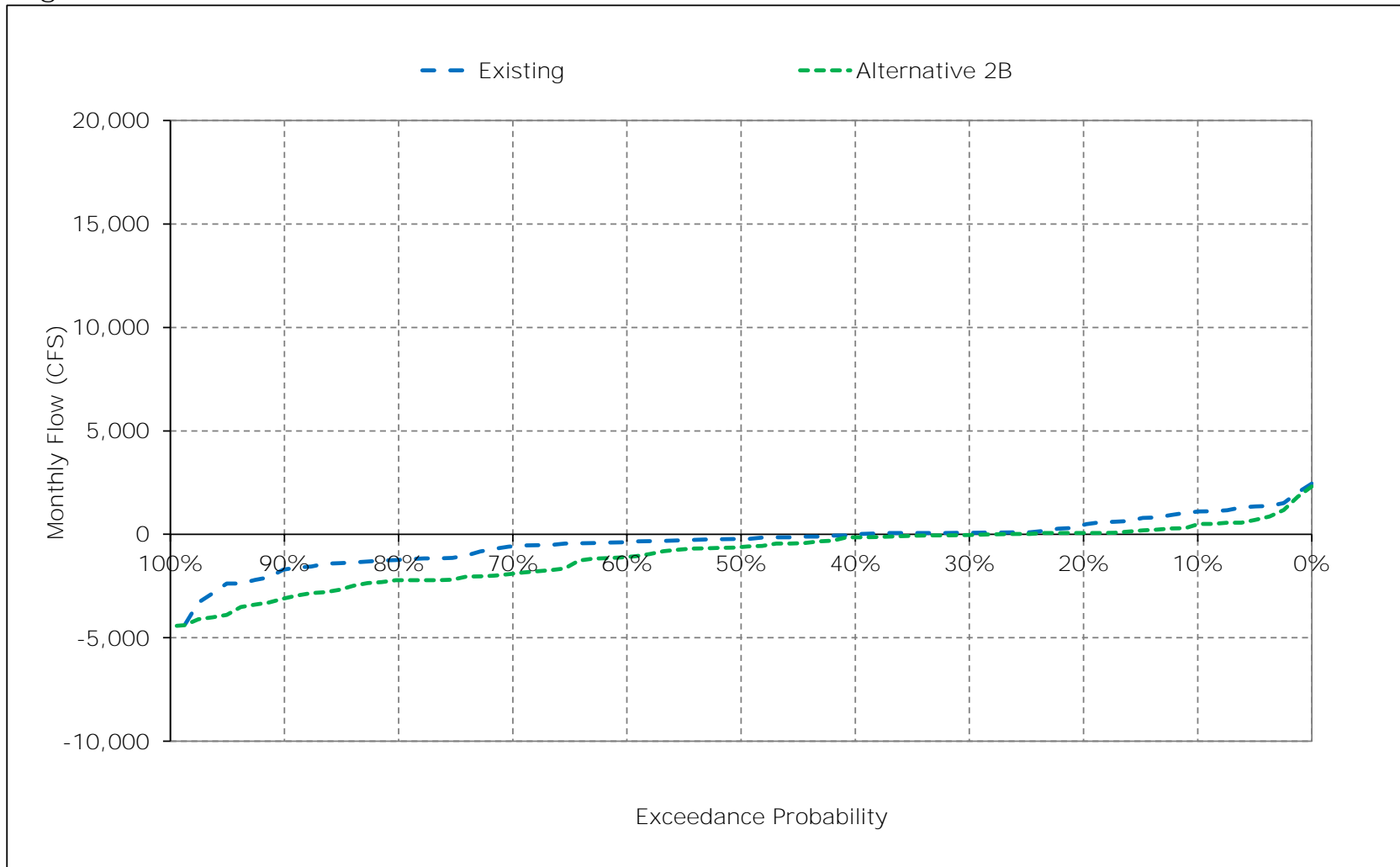




Figure 8-8. Qwest, November

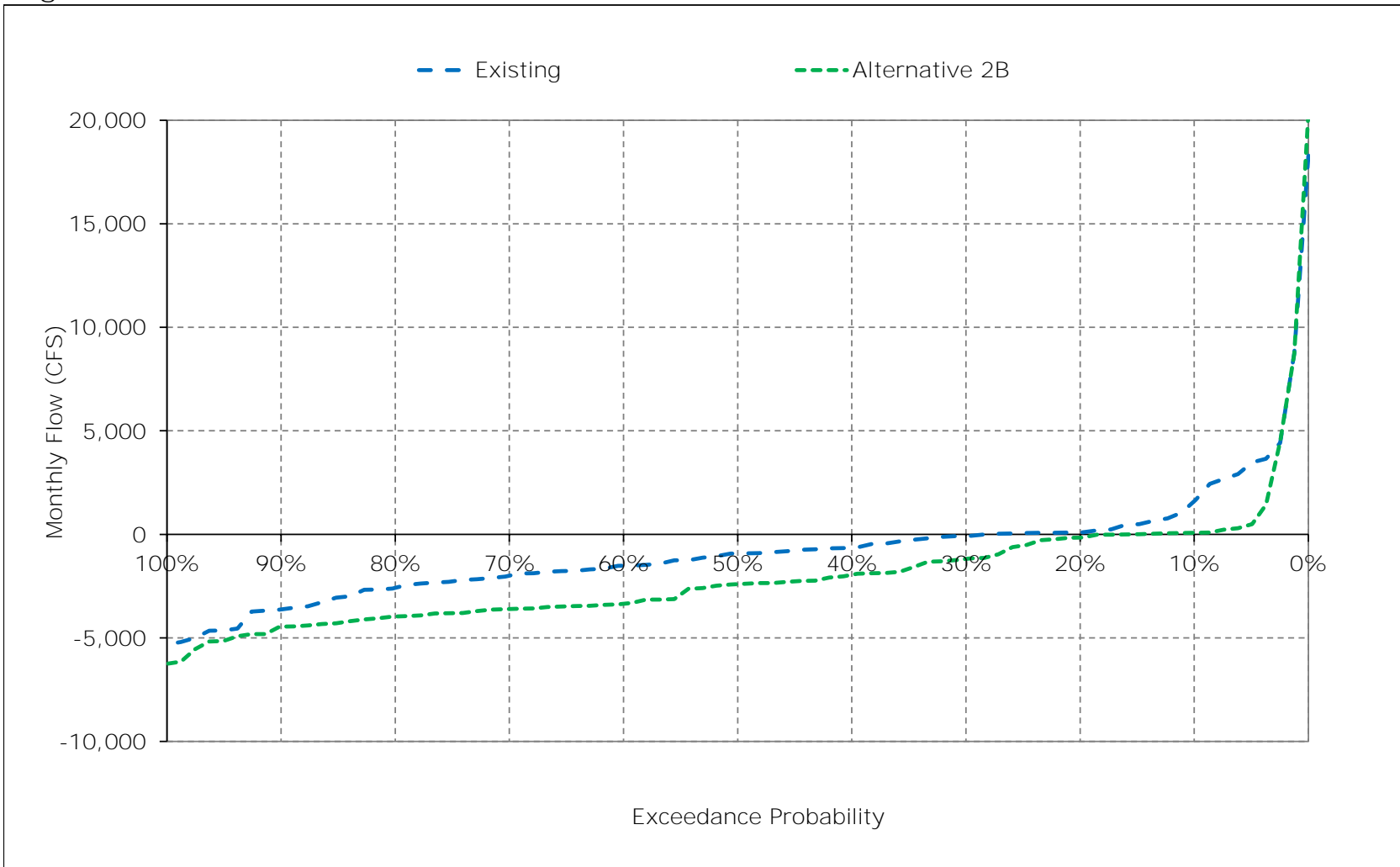


Figure 8-9. Qwest, December

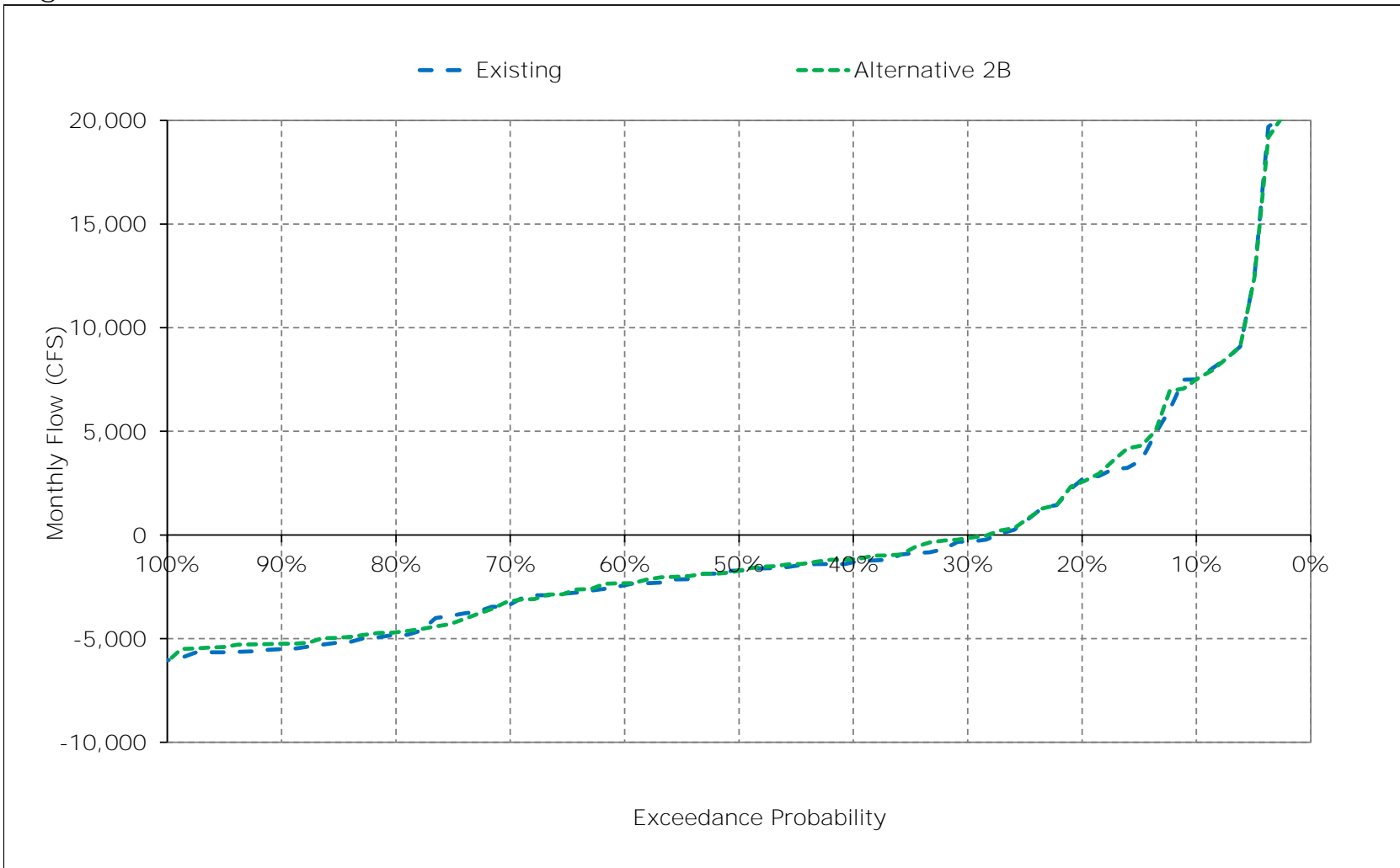


Figure 8-10. Qwest, January

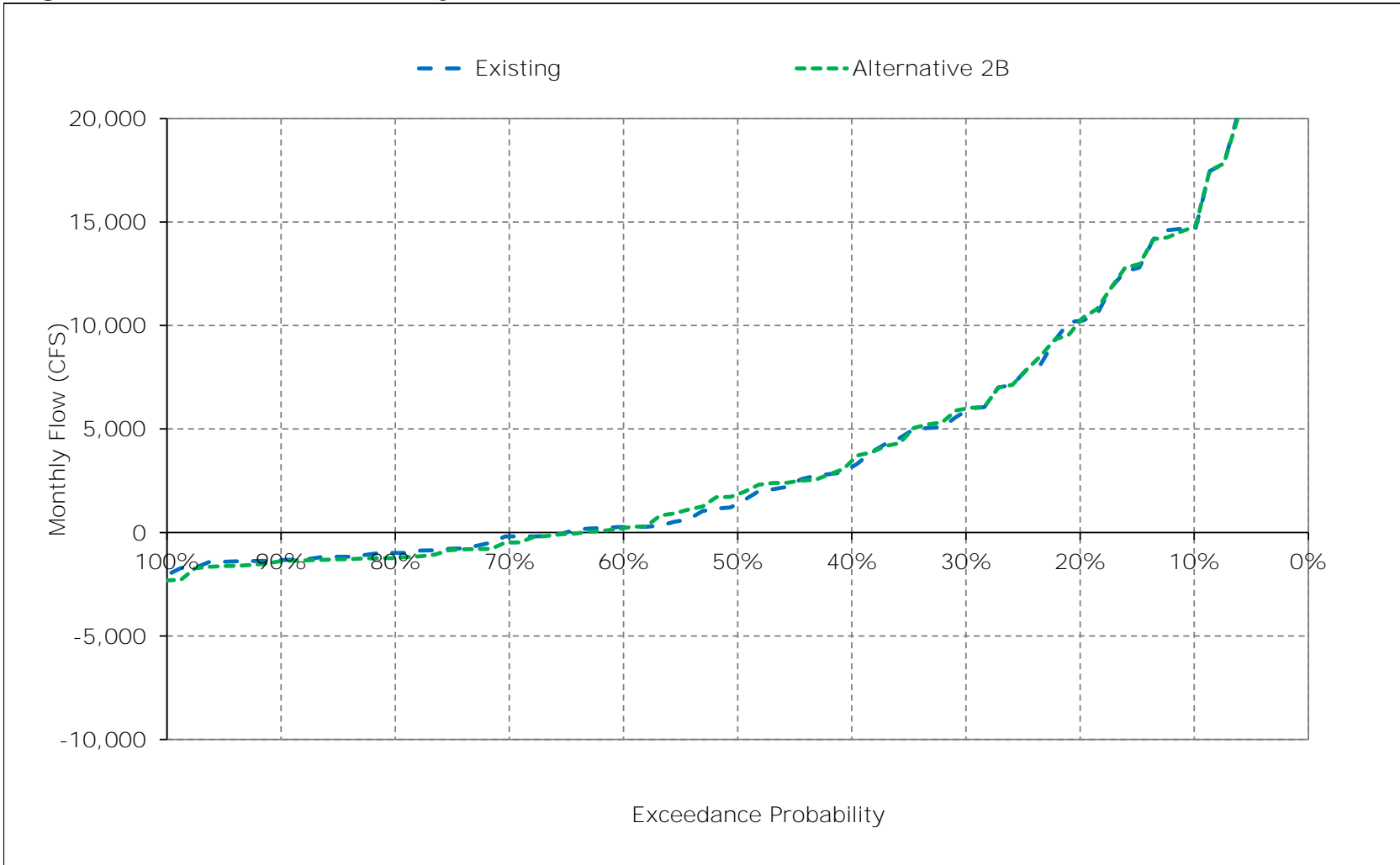


Figure 8-11. Qwest, February

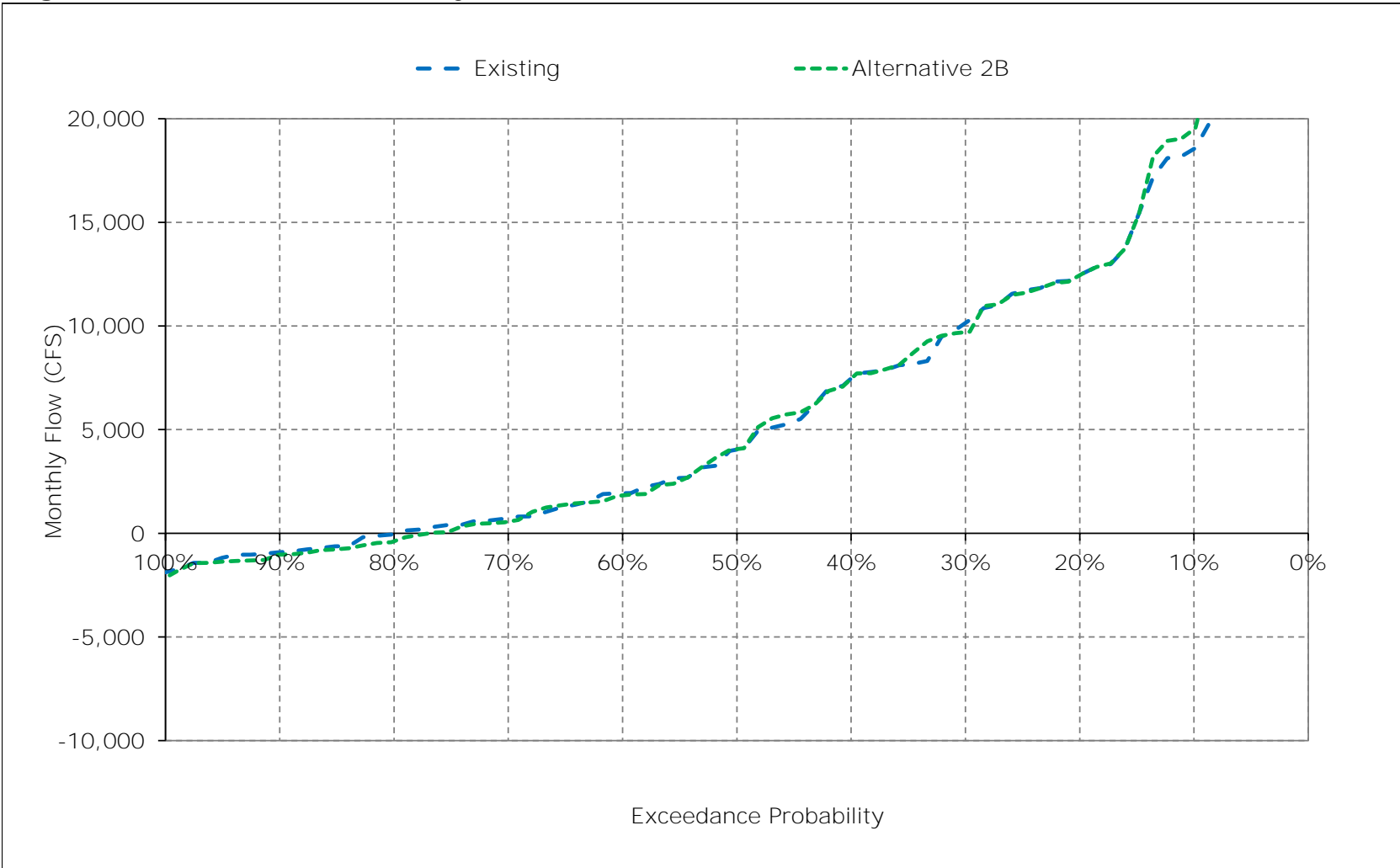


Figure 8-12. Qwest, March

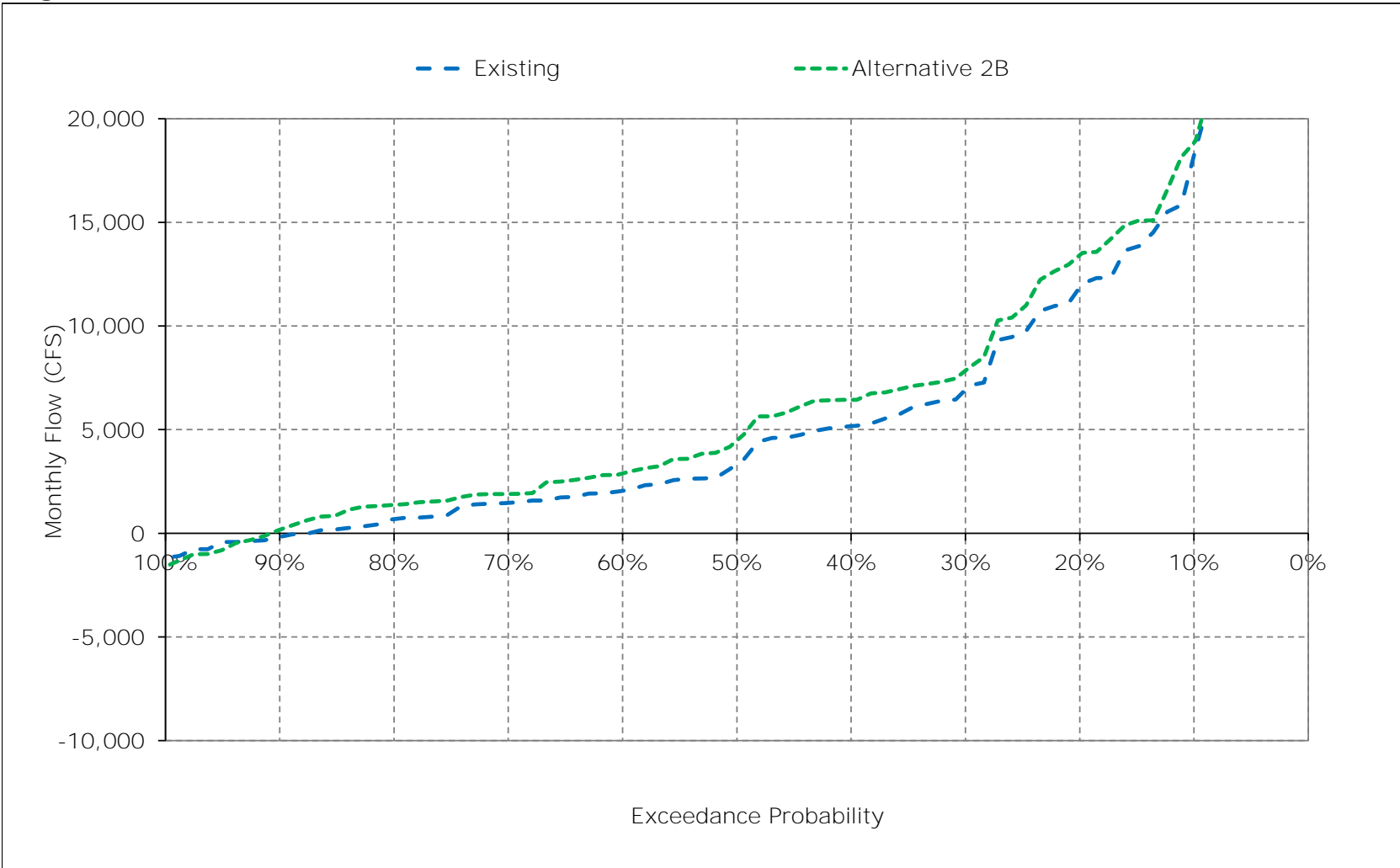


Figure 8-13. Qwest, April

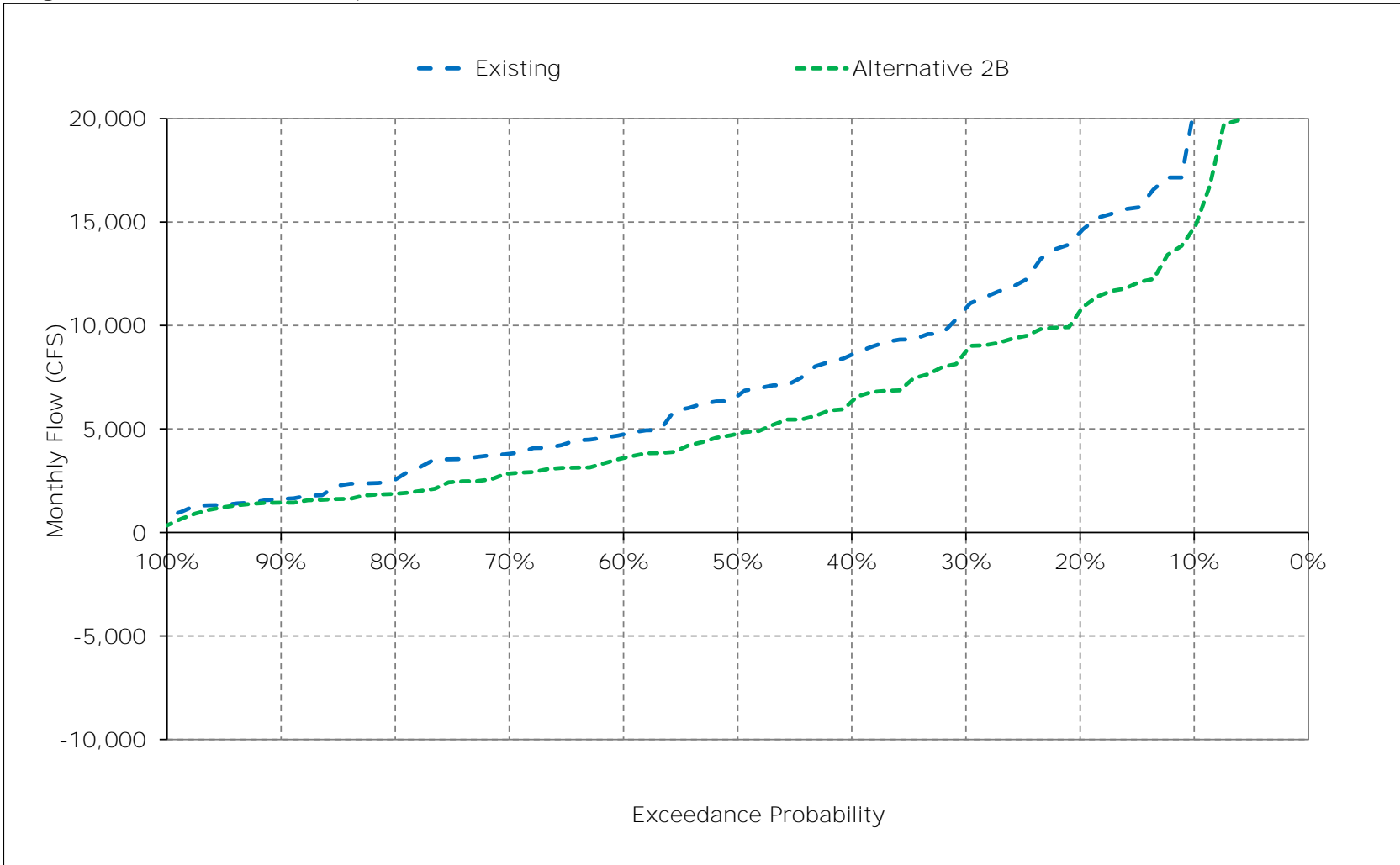


Figure 8-14. Qwest, May

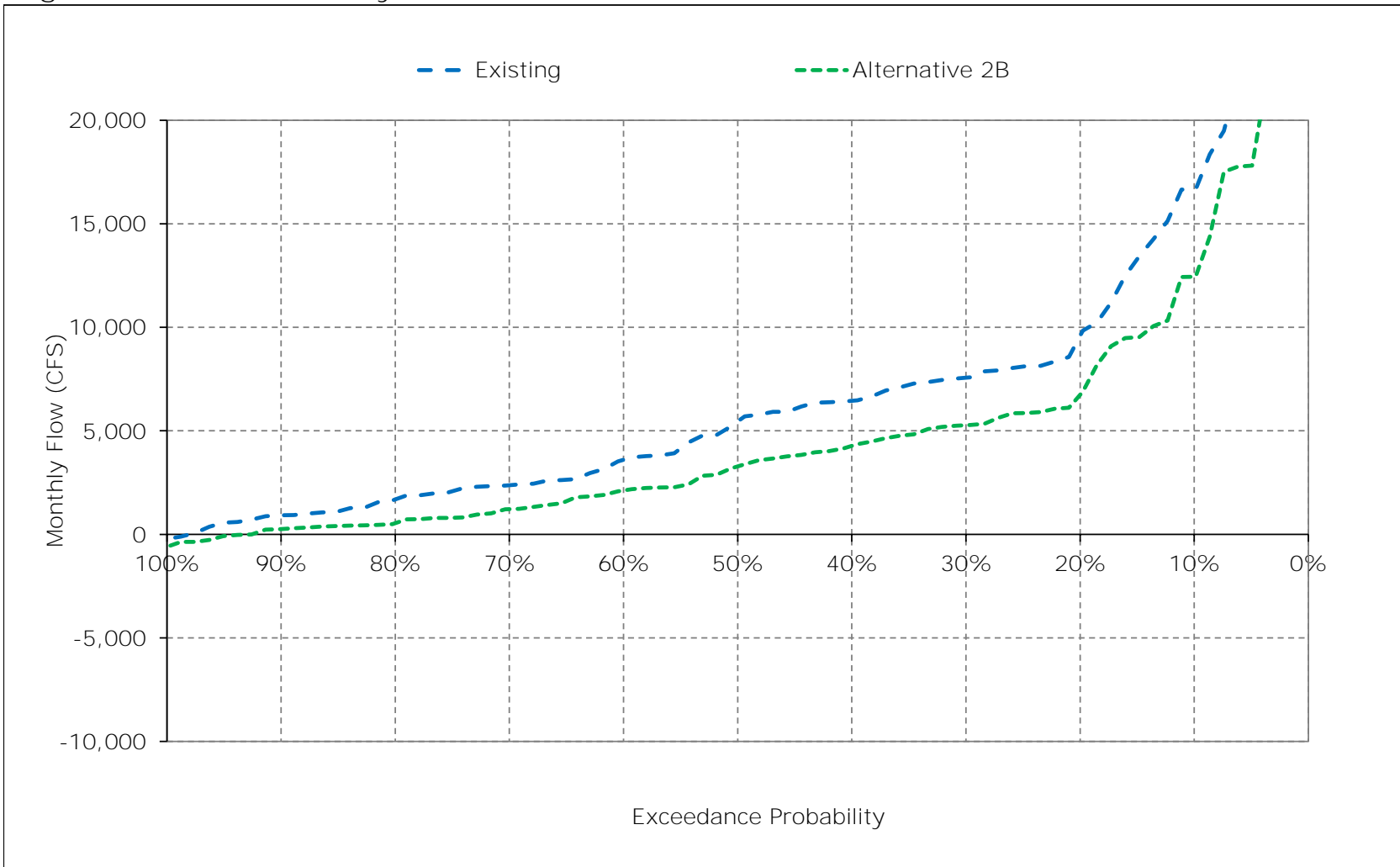


Figure 8-15. Qwest, June

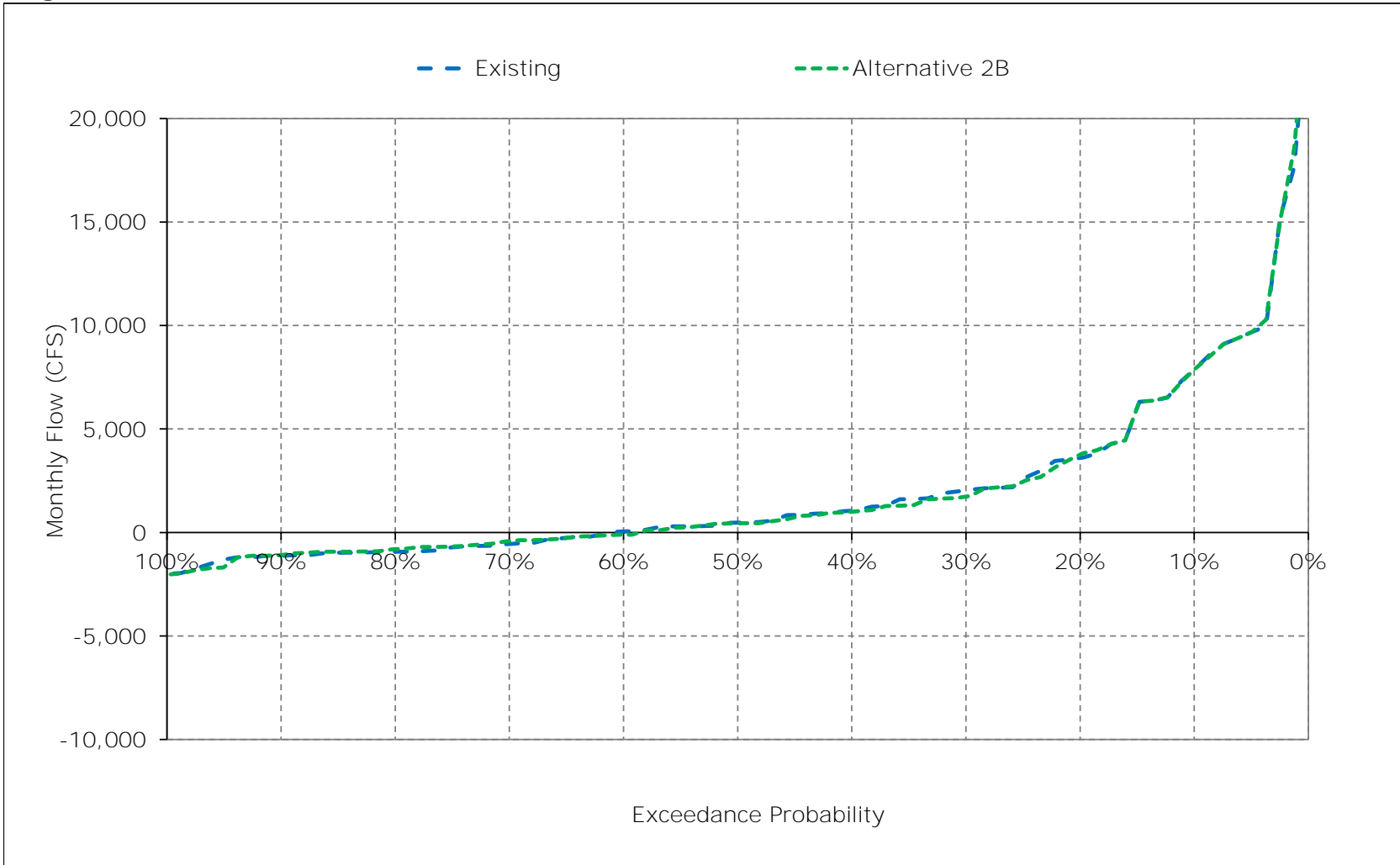




Figure 8-16. Qwest, July

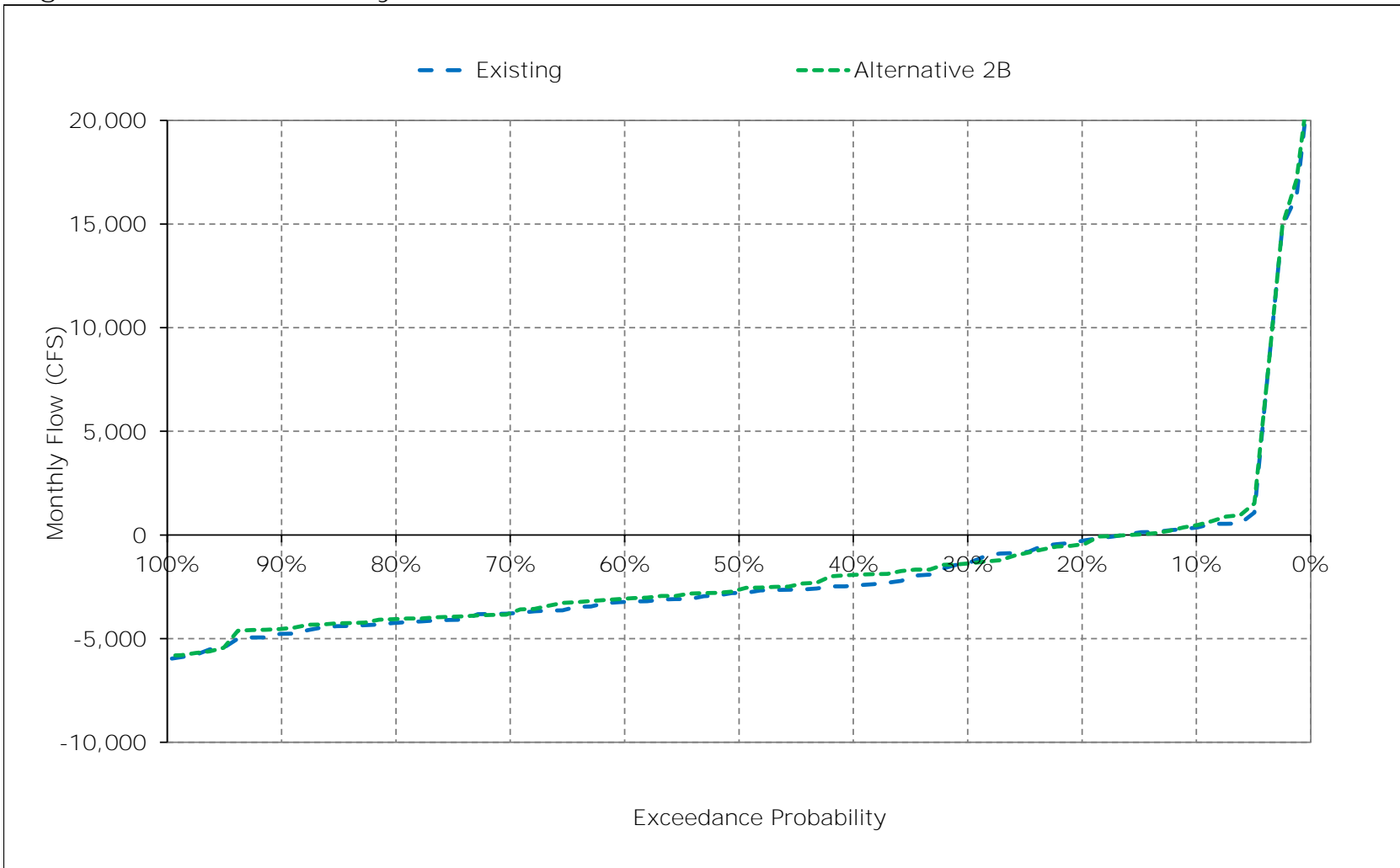


Figure 8-17. Qwest, August

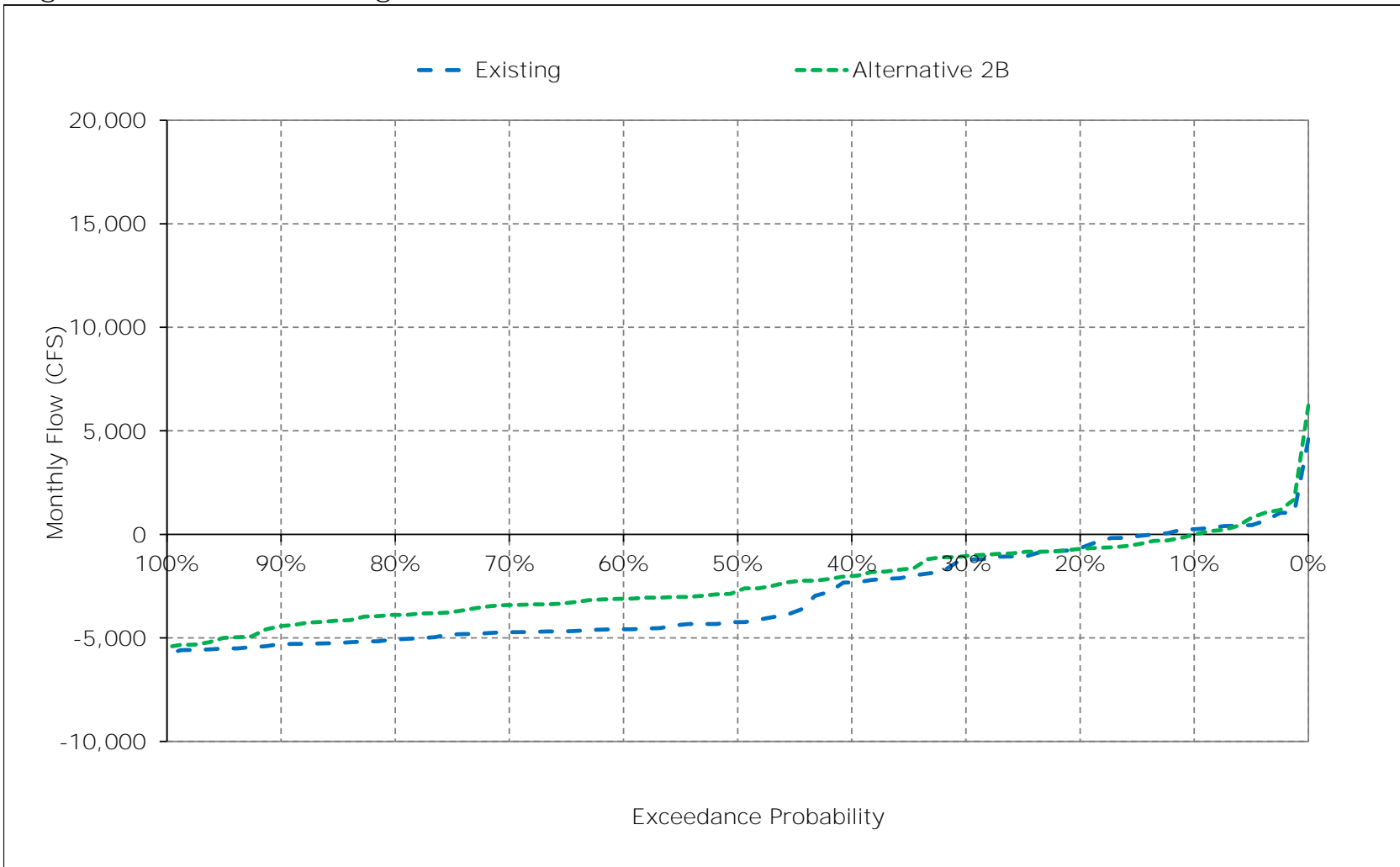


Figure 8-18. Qwest, September

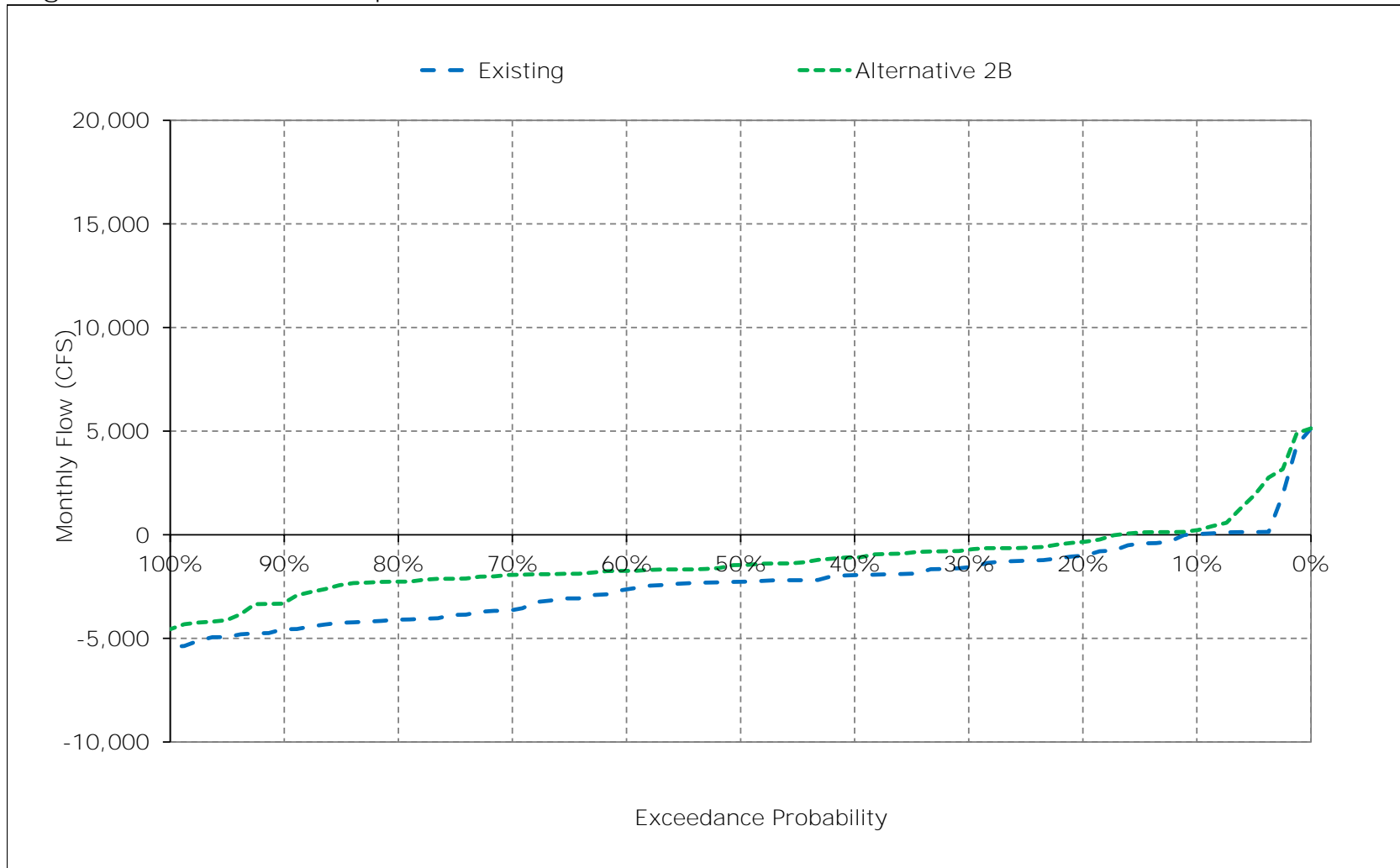


Table 9-1. Delta Outflow, Monthly Outflow

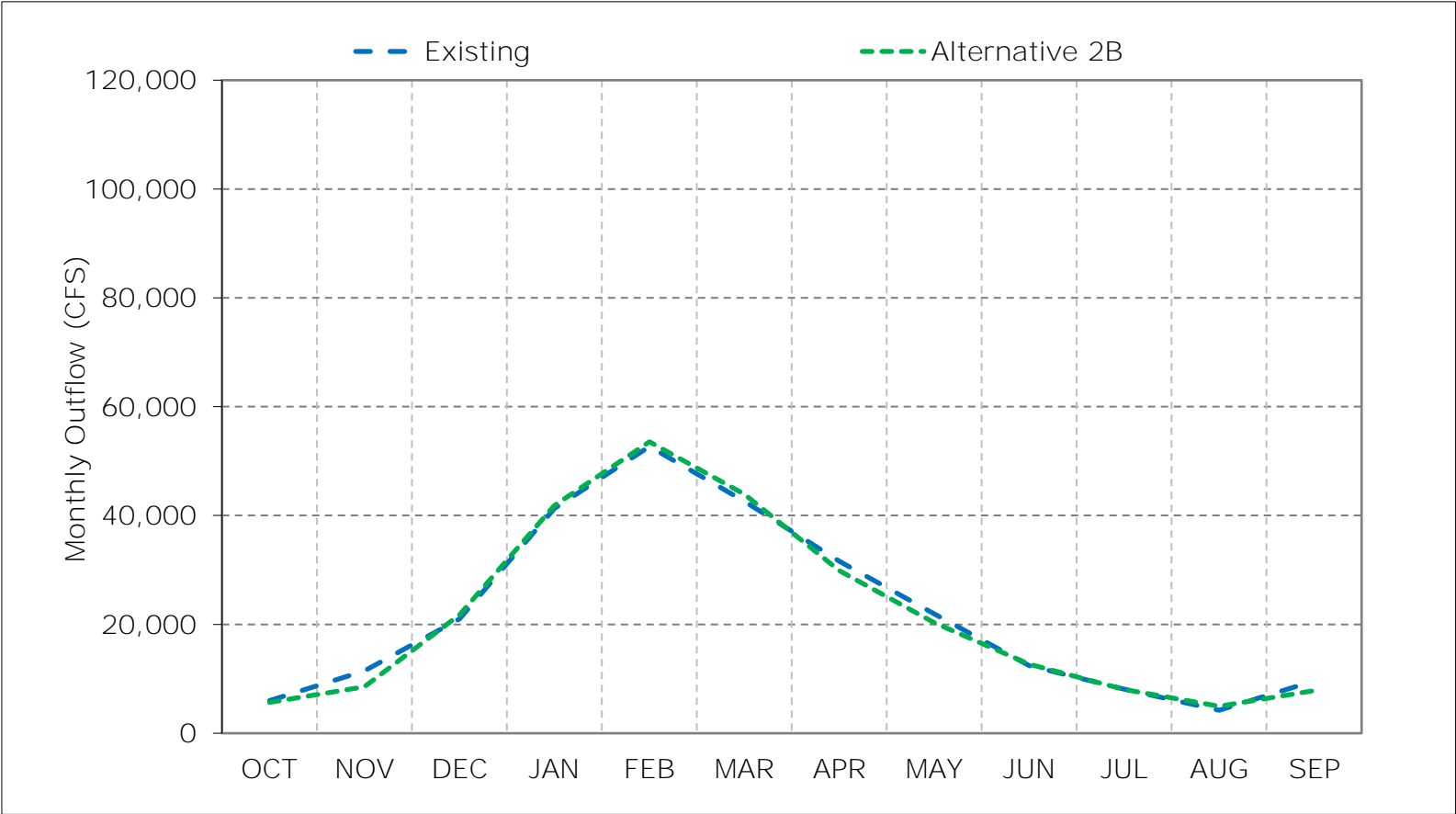
Existing												
Statistic	Monthly Outflow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,281	16,003	64,924	99,529	128,573	86,962	73,320	51,194	29,470	11,514	4,216	20,133
20%	7,813	15,281	32,439	66,067	79,799	65,200	53,523	31,419	14,524	9,504	4,000	19,500
30%	7,453	13,889	15,815	47,484	60,558	43,763	31,053	21,380	10,193	8,268	4,000	15,953
40%	6,031	11,000	12,583	28,238	51,342	35,194	28,456	18,465	7,993	8,000	4,000	11,563
50%	4,712	10,156	9,684	19,147	35,758	25,841	22,248	15,195	7,243	8,000	4,000	4,203
60%	4,000	5,463	5,579	16,356	24,017	20,399	16,601	11,910	7,100	6,500	4,000	3,055
70%	4,000	4,500	4,932	11,933	16,765	16,301	13,467	9,446	7,037	5,000	3,998	3,000
80%	4,000	4,500	4,506	9,402	14,140	12,437	11,550	8,237	6,119	5,000	3,838	3,000
90%	4,000	4,500	4,500	8,081	10,146	9,076	9,541	6,979	5,034	4,000	3,500	3,000
Long Term												
Full Simulation Period <sup>a</sup>	5,997	11,472	21,026	41,339	52,691	42,631	31,618	21,916	12,394	8,075	4,216	9,630
Water Year Types <sup>b,c</sup>												
Wet (32%)	7,724	17,334	42,783	83,568	97,663	79,915	56,933	39,709	22,444	11,645	5,047	19,510
Above Normal (15%)	5,432	12,125	17,901	45,449	59,682	52,471	33,562	24,582	11,383	9,804	4,000	11,758
Below Normal (17%)	5,429	8,622	12,186	20,966	36,006	22,558	23,217	15,806	7,964	7,360	4,000	3,625
Dry (22%)	5,213	8,210	8,791	13,693	22,405	18,720	15,097	9,920	6,717	5,036	3,801	3,006
Critical (15%)	4,657	6,332	5,673	10,968	13,155	11,295	9,410	5,821	5,316	4,004	3,506	3,040
Alternative 2B												
Statistic	Monthly Outflow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,719	16,636	64,386	100,280	129,495	90,943	68,054	47,187	29,478	11,004	5,626	13,594
20%	6,406	7,232	33,729	66,607	79,504	66,035	48,448	29,888	14,454	9,485	5,626	12,813
30%	6,094	5,188	18,768	46,650	64,566	46,316	29,822	19,627	10,628	8,092	5,626	12,500
40%	5,975	4,972	12,109	28,176	53,392	36,090	25,979	15,903	8,502	8,000	5,626	12,188
50%	5,110	4,853	9,339	23,096	36,065	27,621	19,722	13,736	7,808	8,000	4,135	4,191
60%	4,174	4,562	6,917	15,884	24,629	22,212	14,609	10,800	7,243	6,500	4,000	3,000
70%	4,000	4,500	4,816	11,686	17,952	17,232	12,281	9,096	7,100	5,000	3,863	3,000
80%	4,000	4,500	4,507	8,928	13,833	12,995	10,670	7,743	6,925	5,000	3,709	3,000
90%	4,000	3,953	4,500	7,915	10,076	9,058	9,330	6,627	4,950	4,000	3,500	3,000
Long Term												
Full Simulation Period <sup>a</sup>	5,654	8,537	21,777	41,842	53,550	43,917	29,849	20,321	12,671	8,066	4,961	7,809
Water Year Types <sup>b,c</sup>												
Wet (32%)	7,261	13,455	44,961	84,620	98,922	81,221	53,977	36,918	22,472	11,622	6,710	13,319
Above Normal (15%)	5,015	9,035	18,240	46,426	61,298	55,384	31,424	22,173	12,063	9,328	5,626	12,826
Below Normal (17%)	5,027	5,799	12,224	22,164	37,621	23,877	21,522	14,437	8,712	7,687	4,022	3,551
Dry (22%)	4,811	6,060	8,669	13,224	22,046	19,802	14,096	9,416	6,902	5,035	3,694	3,005
Critical (15%)	4,806	4,295	5,886	10,454	13,334	11,179	9,343	5,729	5,316	4,090	3,507	3,027
Alternative 2B minus Existing												
Statistic	Monthly Outflow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1,563	633	-538	750	922	3,981	-5,266	-4,007	7	-510	1,410	-6,539
20%	-1,406	-8,049	1,290	540	-295	835	-5,075	-1,531	-70	-19	1,626	-6,688
30%	-1,359	-8,701	2,953	-834	4,008	2,553	-1,231	-1,753	435	-176	1,626	-3,453
40%	-56	-6,028	-475	-62	2,050	897	-2,476	-2,562	509	0	1,626	625
50%	398	-5,304	-345	3,949	307	1,781	-2,525	-1,459	565	0	135	-12
60%	174	-902	1,337	-472	612	1,813	-1,992	-1,111	143	0	0	-55
70%	0	0	-116	-247	1,187	931	-1,186	-350	63	0	-135	0
80%	0	0	1	-474	-307	558	-881	-494	806	0	-129	0
90%	0	-547	0	-166	-70	-18	-211	-351	-84	0	0	0
Long Term												
Full Simulation Period <sup>a</sup>	-343	-2,934	751	503	859	1,286	-1,769	-1,595	277	-9	745	-1,822
Water Year Types <sup>b,c</sup>												
Wet (32%)	-463	-3,879	2,178	1,052	1,259	1,305	-2,956	-2,791	28	-23	1,662	-6,191
Above Normal (15%)	-417	-3,090	339	977	1,616	2,913	-2,138	-2,408	680	-476	1,626	1,068
Below Normal (17%)	-402	-2,823	38	1,198	1,615	1,319	-1,696	-1,369	749	327	22	-74
Dry (22%)	-402	-2,150	-122	-469	-358	1,082	-1,001	-504	185	0	-108	-2
Critical (15%)	149	-2,037	213	-514	179	-116	-67	-92	0	85	1	-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 water year - year type sorting.

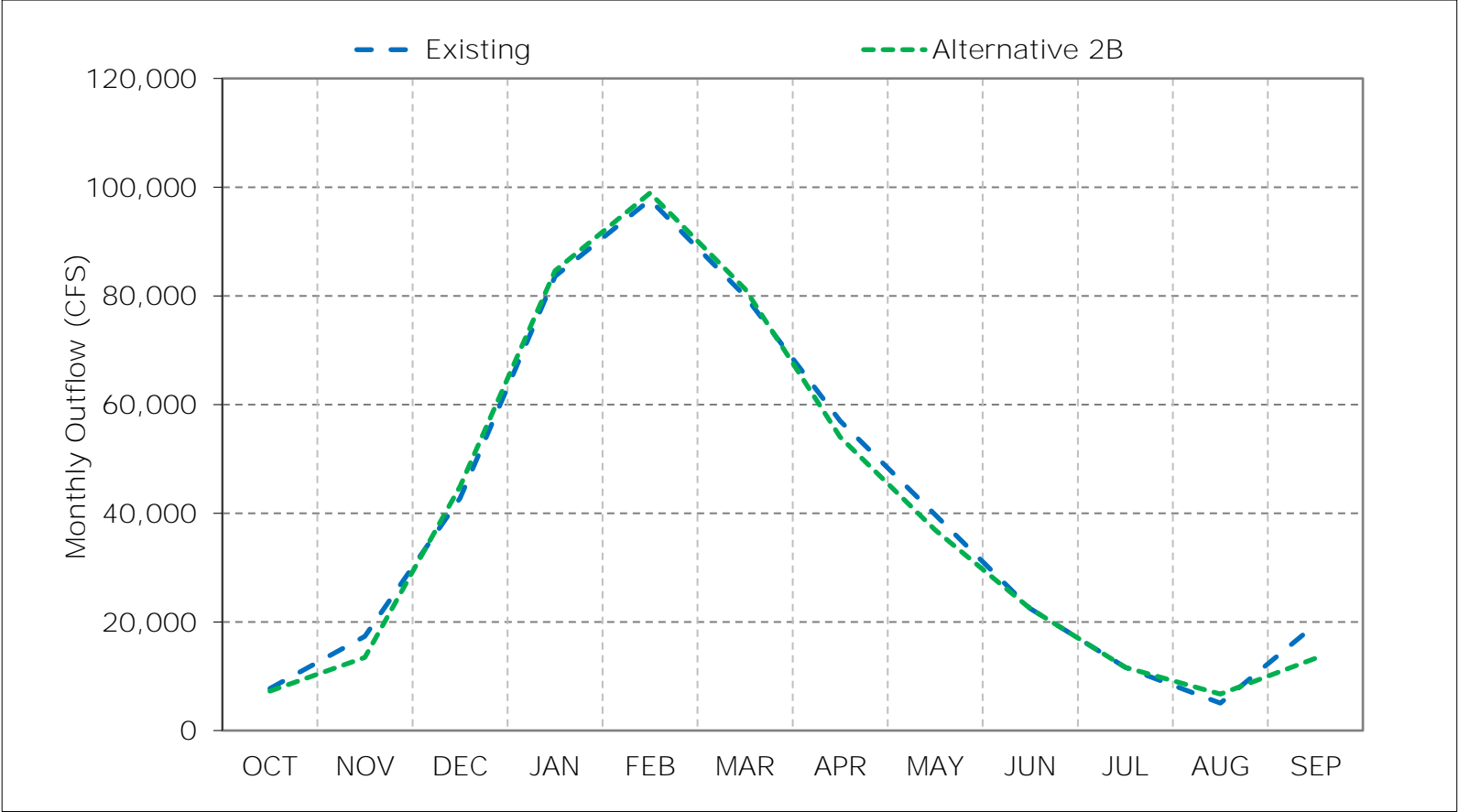
Figure 9-1. Delta Outflow, Long-Term Average Outflow



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

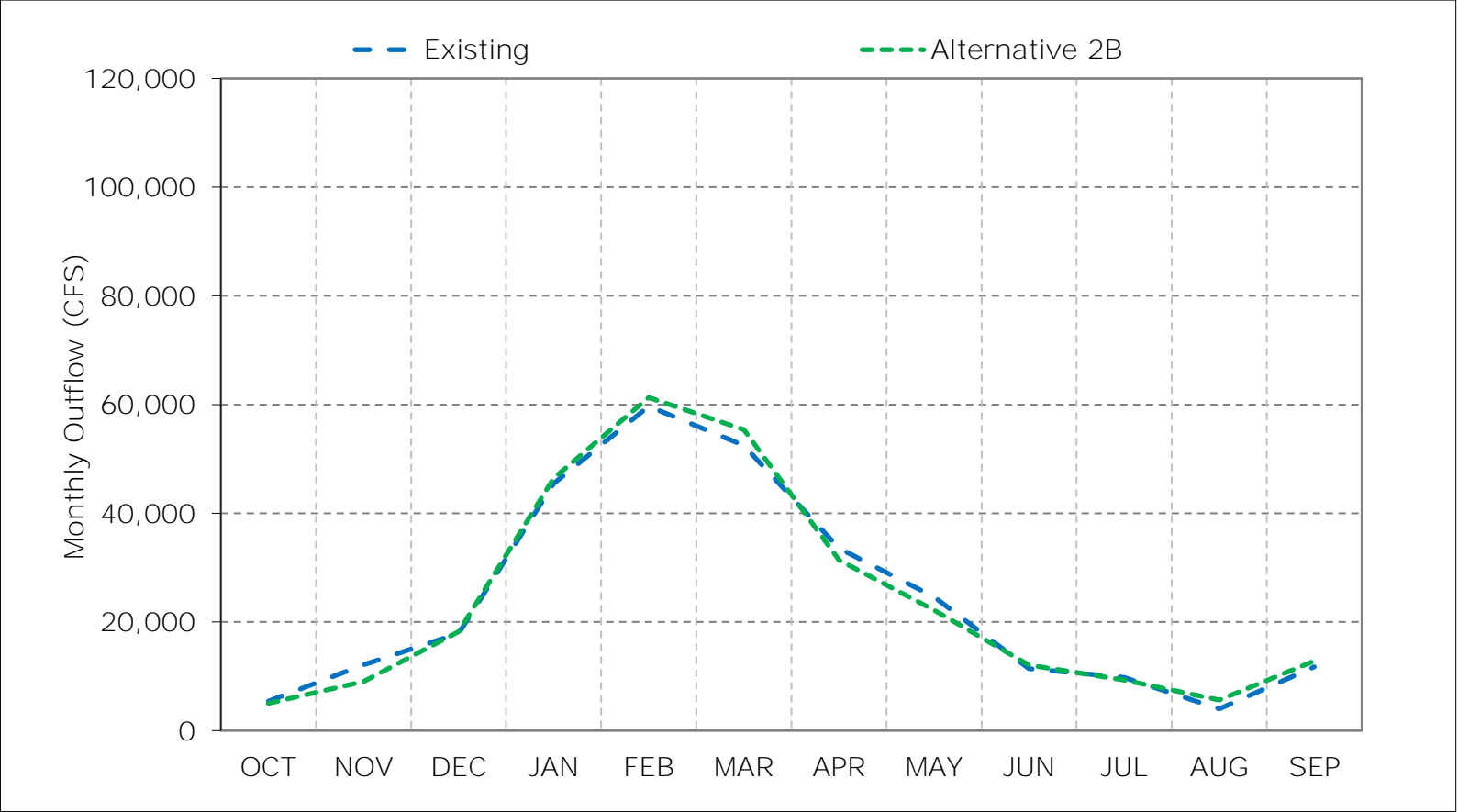
\*These results are displayed with water year - year type sorting.

Figure 9-2. Delta Outflow, Wet Year Average Outflow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

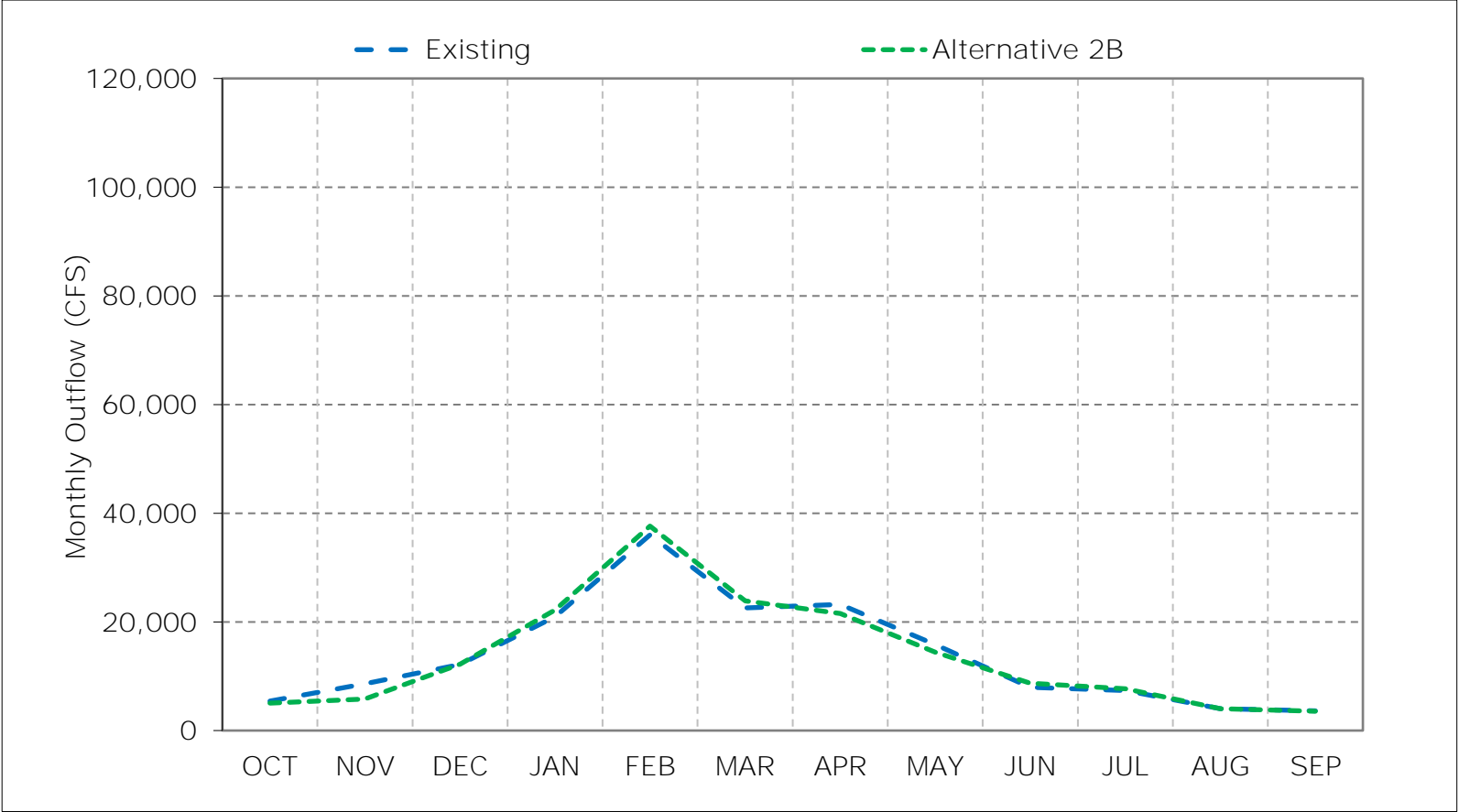
Figure 9-3. Delta Outflow, Above Normal Year Average Outflow



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

\*These results are displayed with water year - year type sorting.

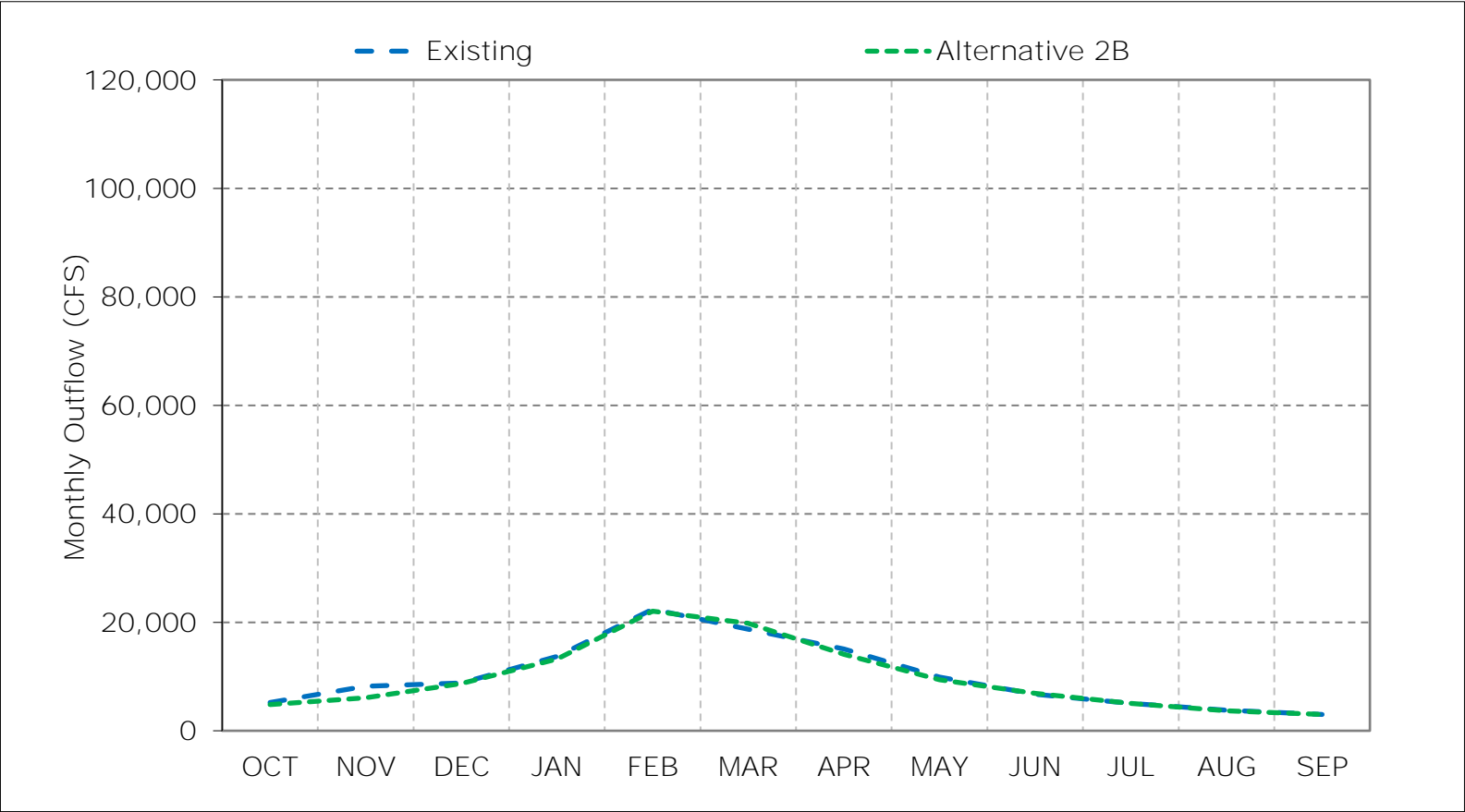
Figure 9-4. Delta Outflow, Below Normal Year Average Outflow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.



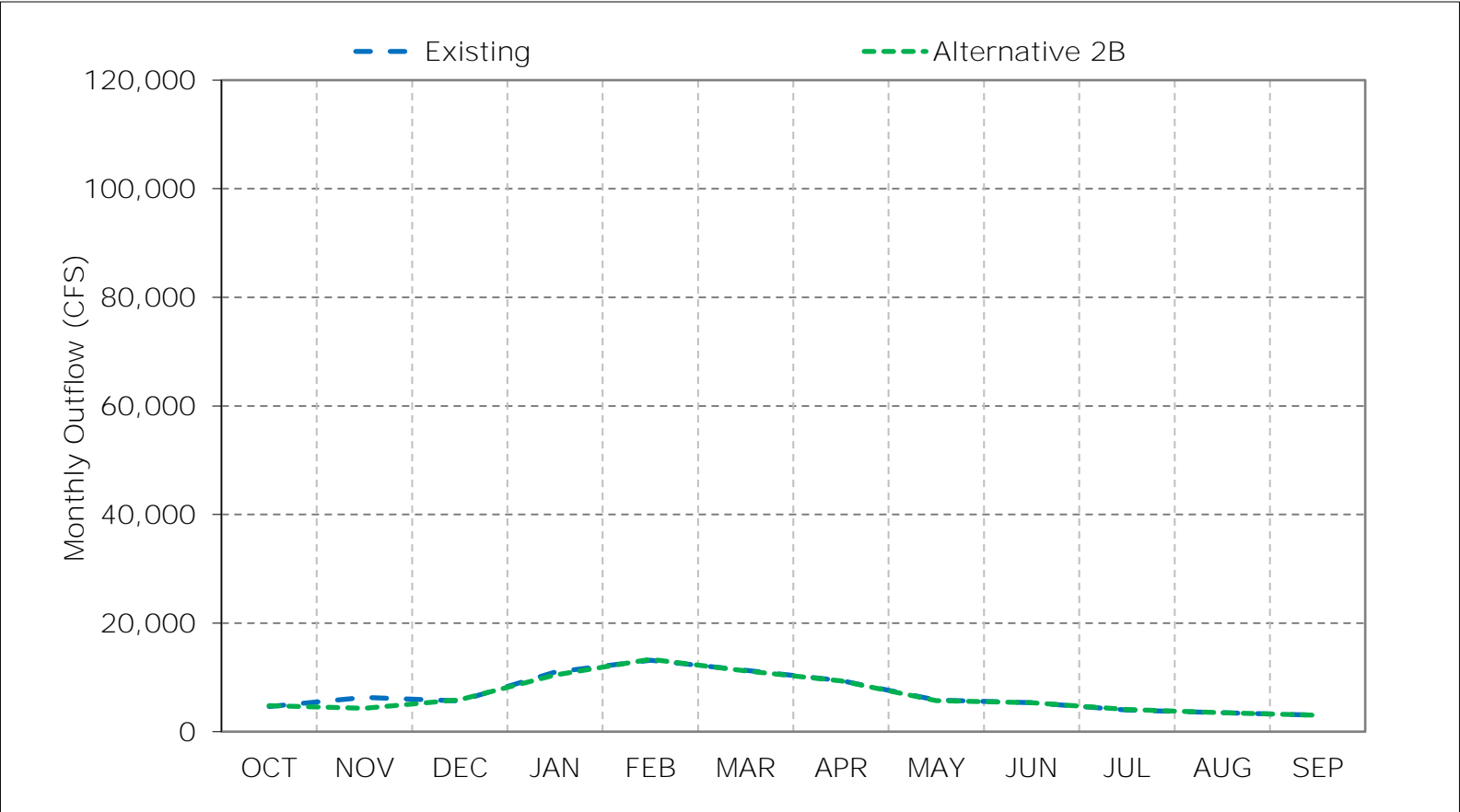
Figure 9-5. Delta Outflow, Dry Year Average Outflow



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

\*These results are displayed with water year - year type sorting.

Figure 9-6. Delta Outflow, Critical Year Average Outflow



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

\*These results are displayed with water year - year type sorting.

Figure 9-7. Delta Outflow, October

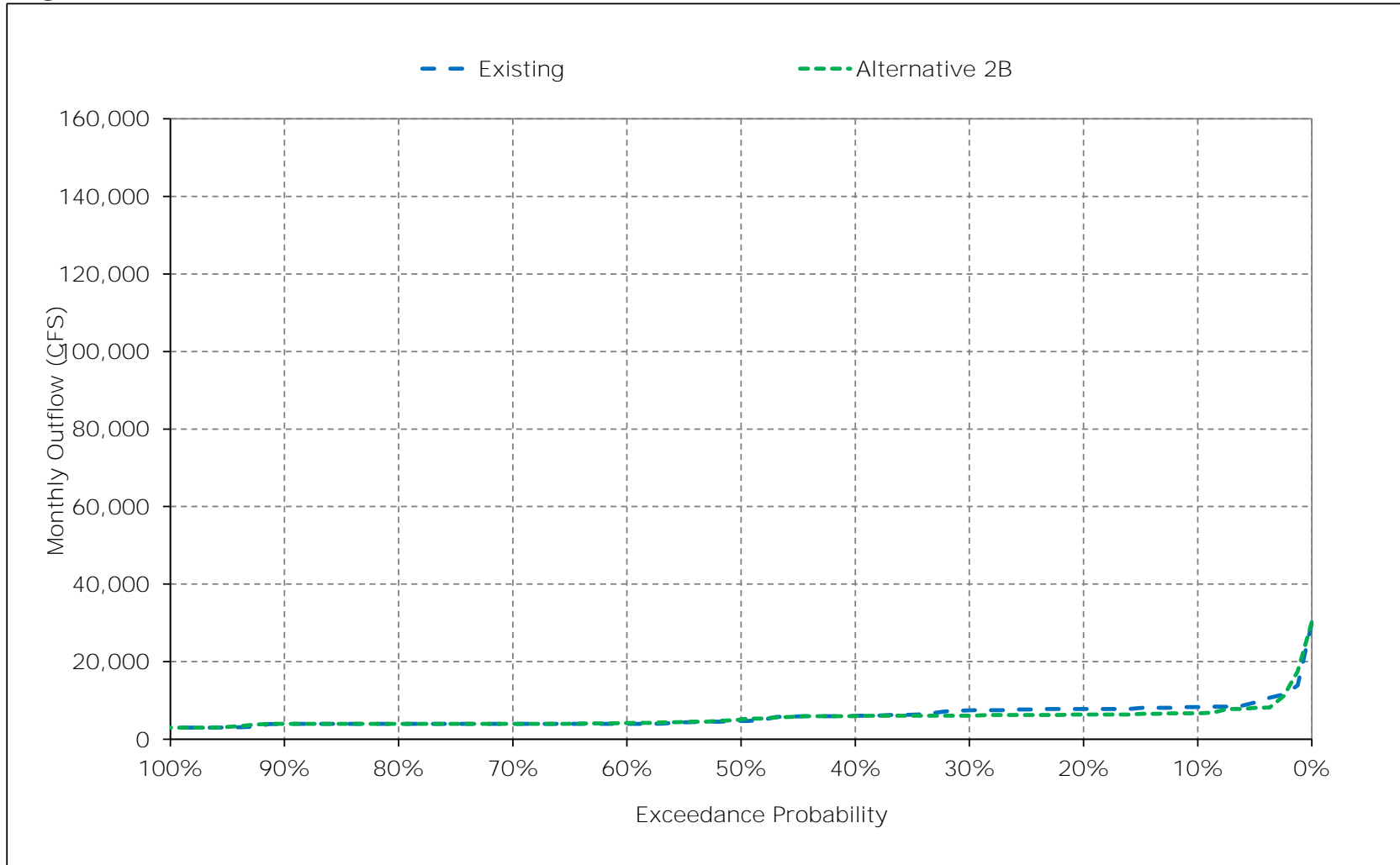


Figure 9-8. Delta Outflow, November

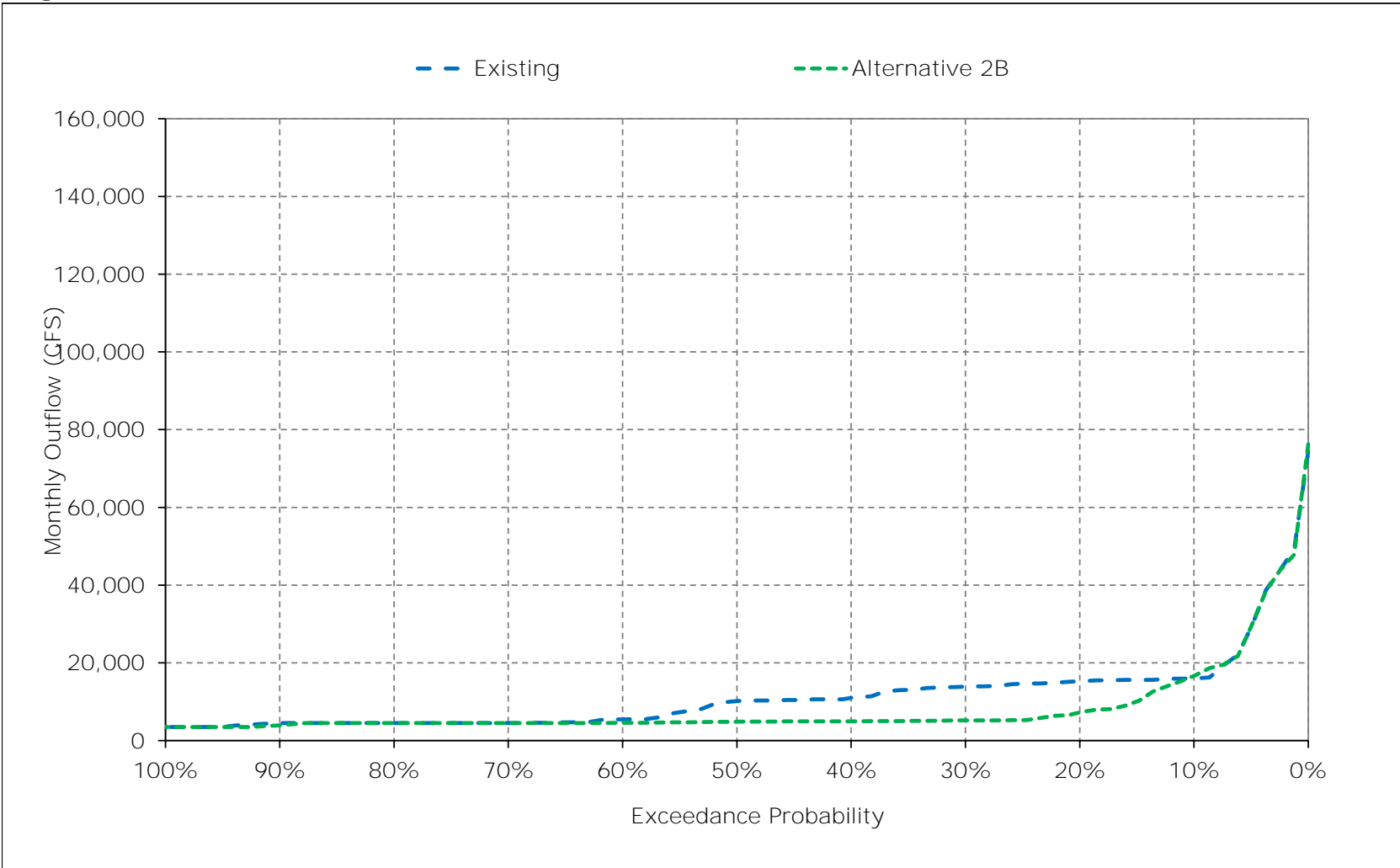


Figure 9-9. Delta Outflow, December

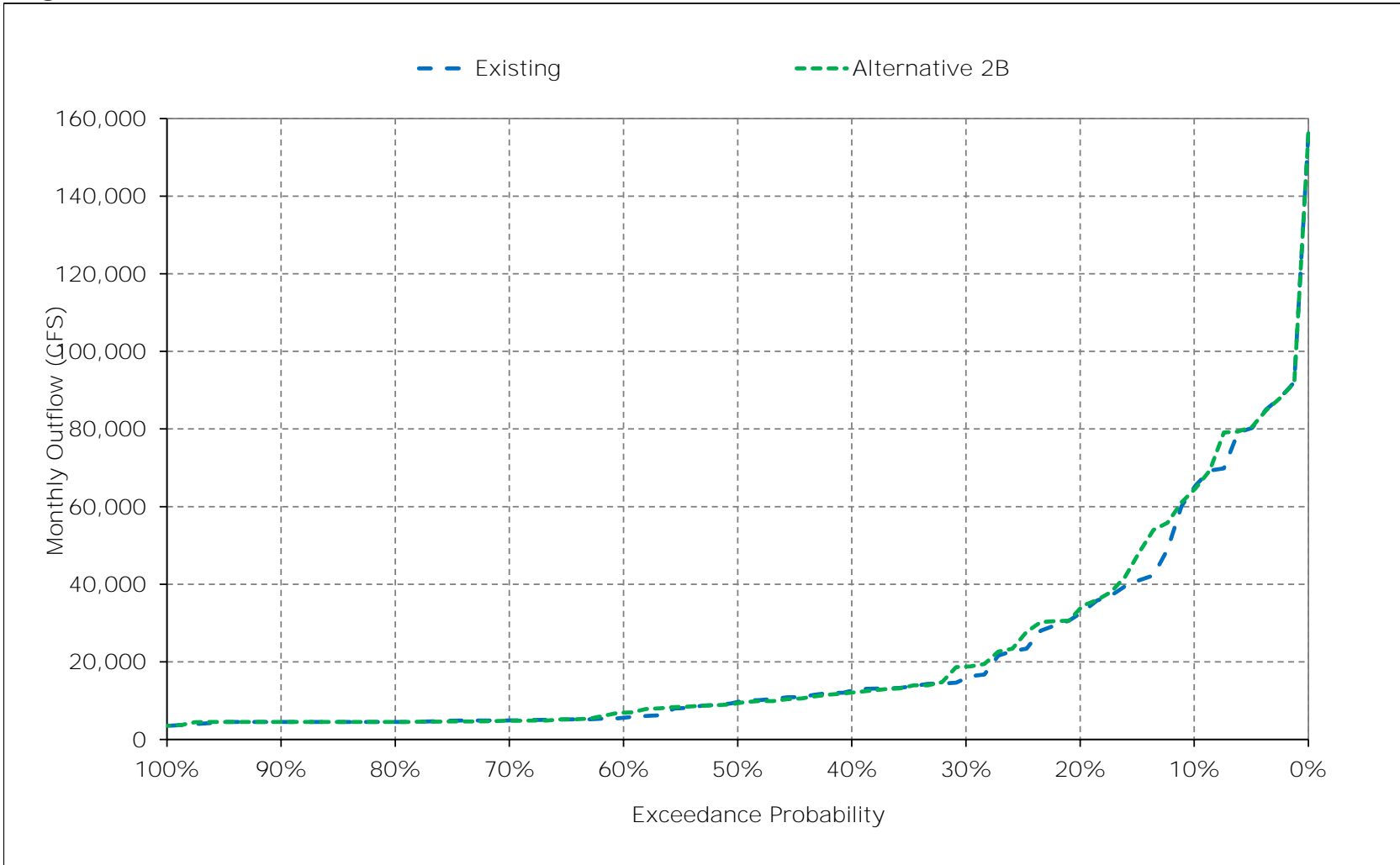


Figure 9-10. Delta Outflow, January

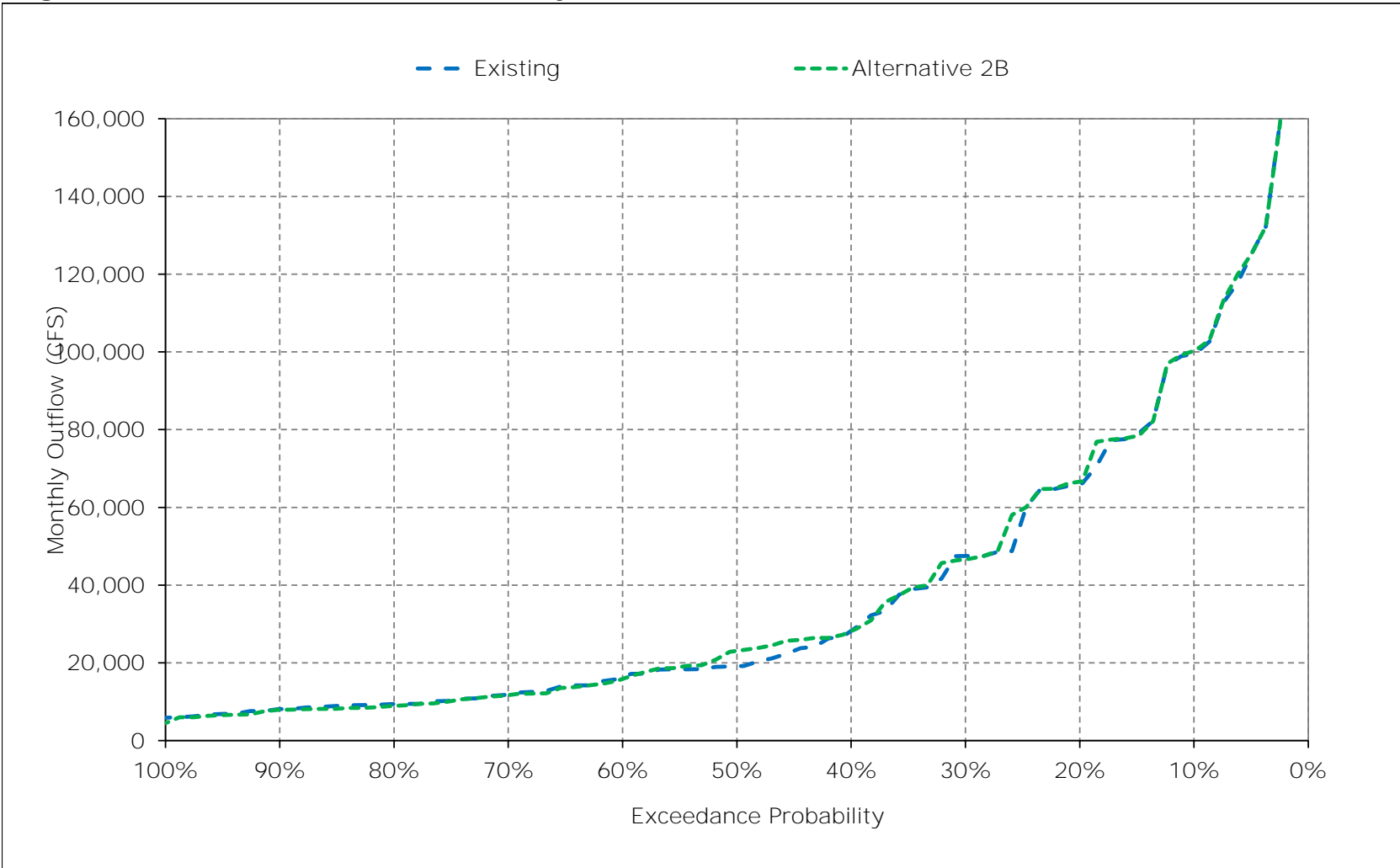


Figure 9-11. Delta Outflow, February

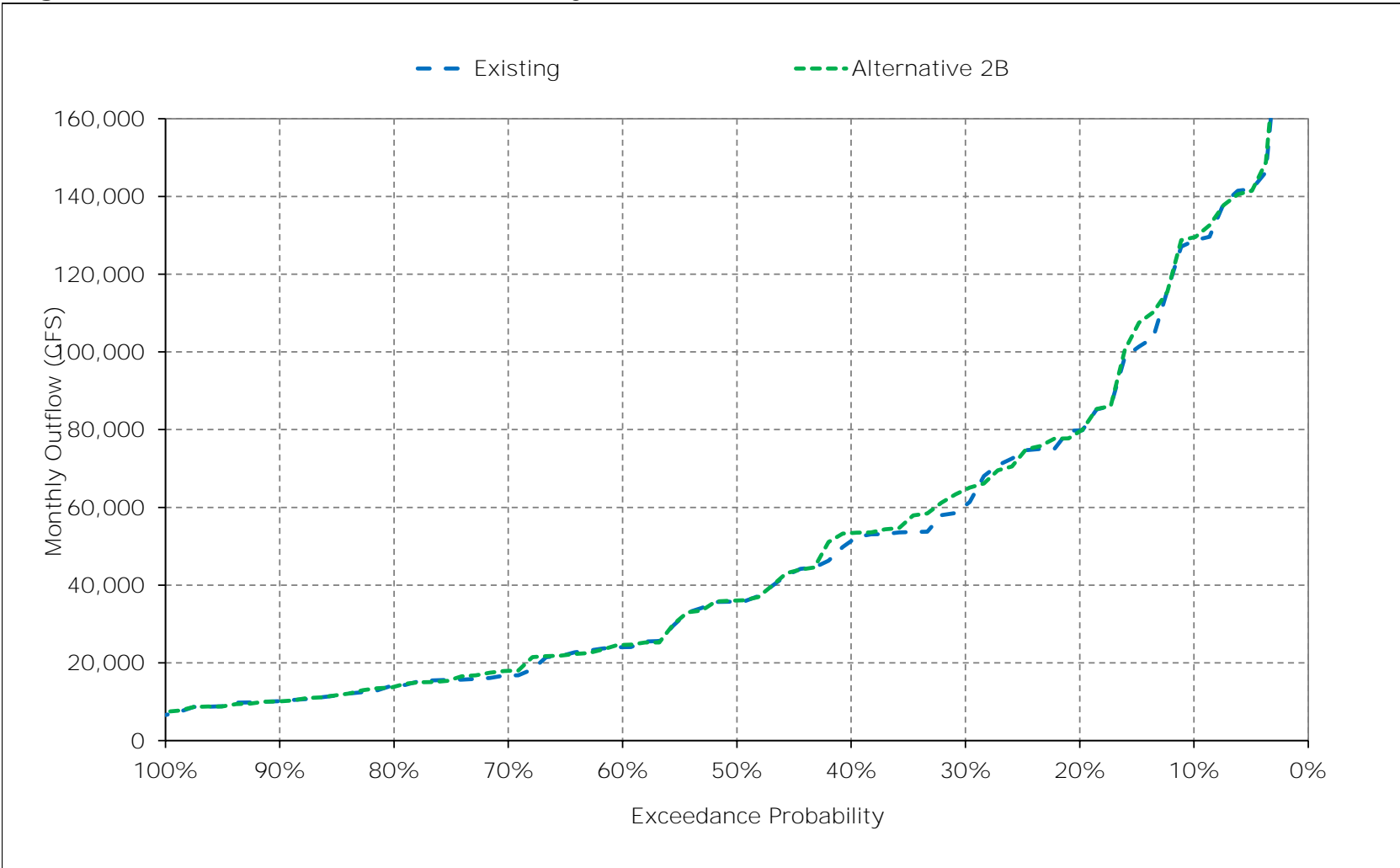


Figure 9-12. Delta Outflow, March

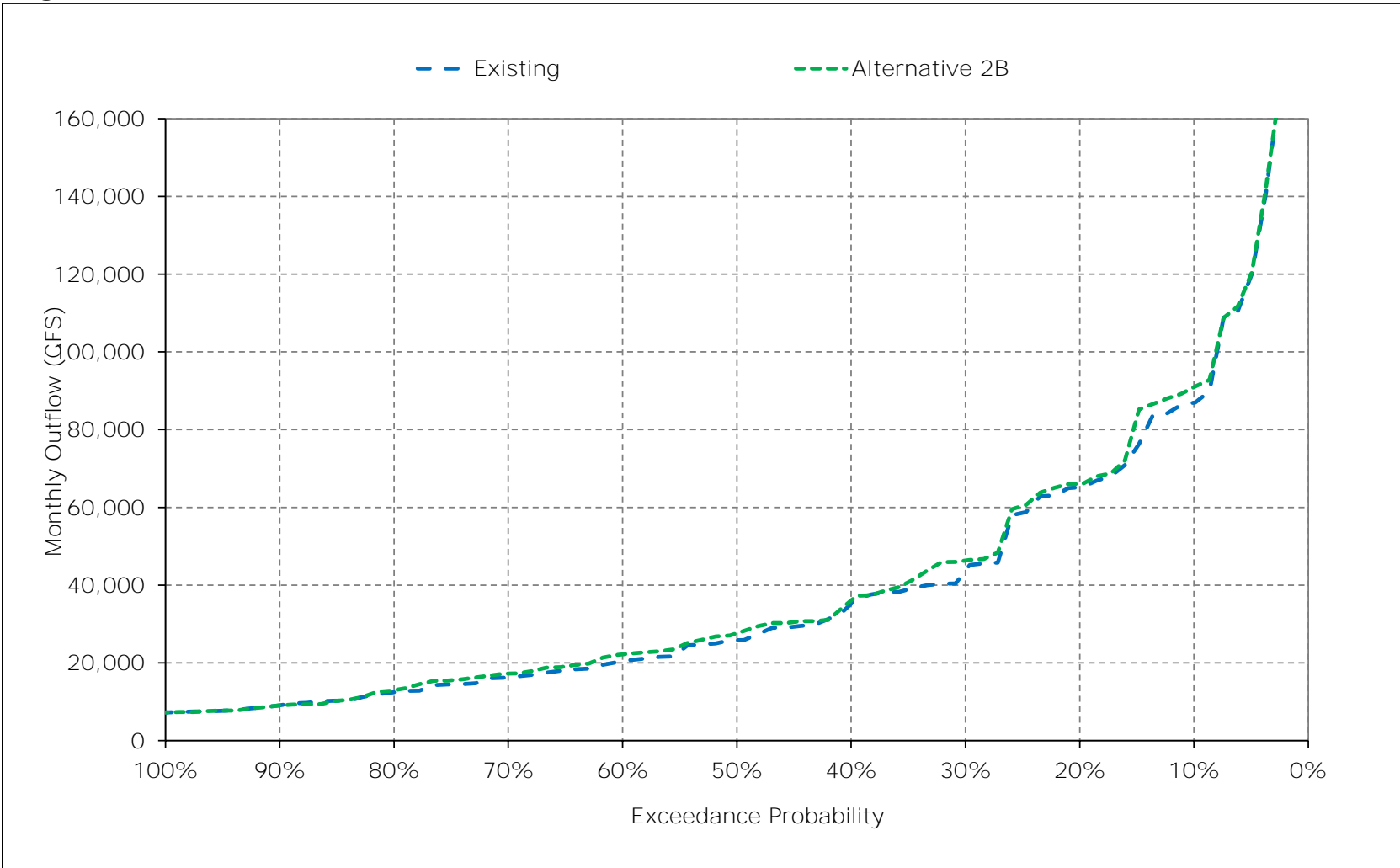




Figure 9-13. Delta Outflow, April

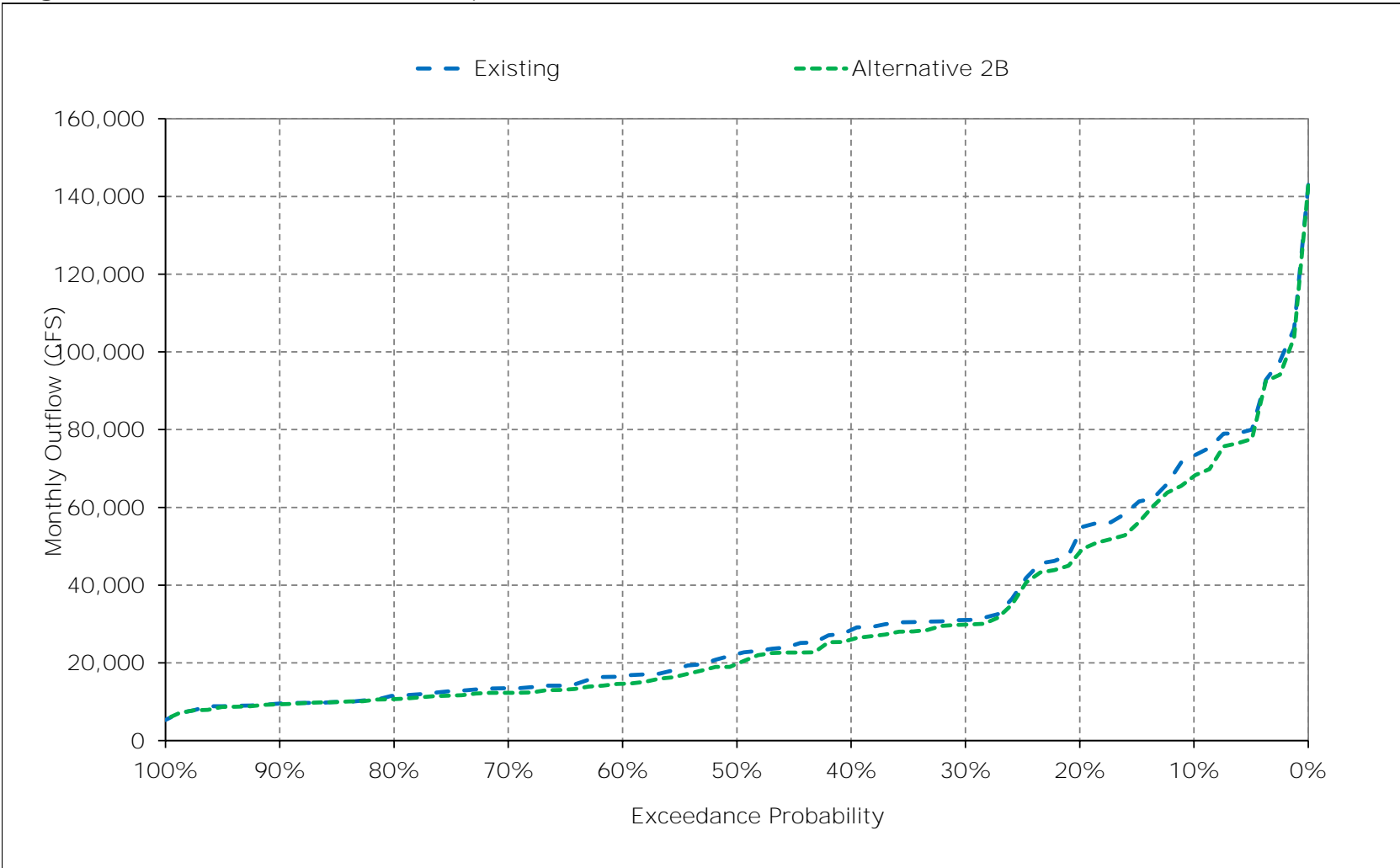


Figure 9-14. Delta Outflow, May

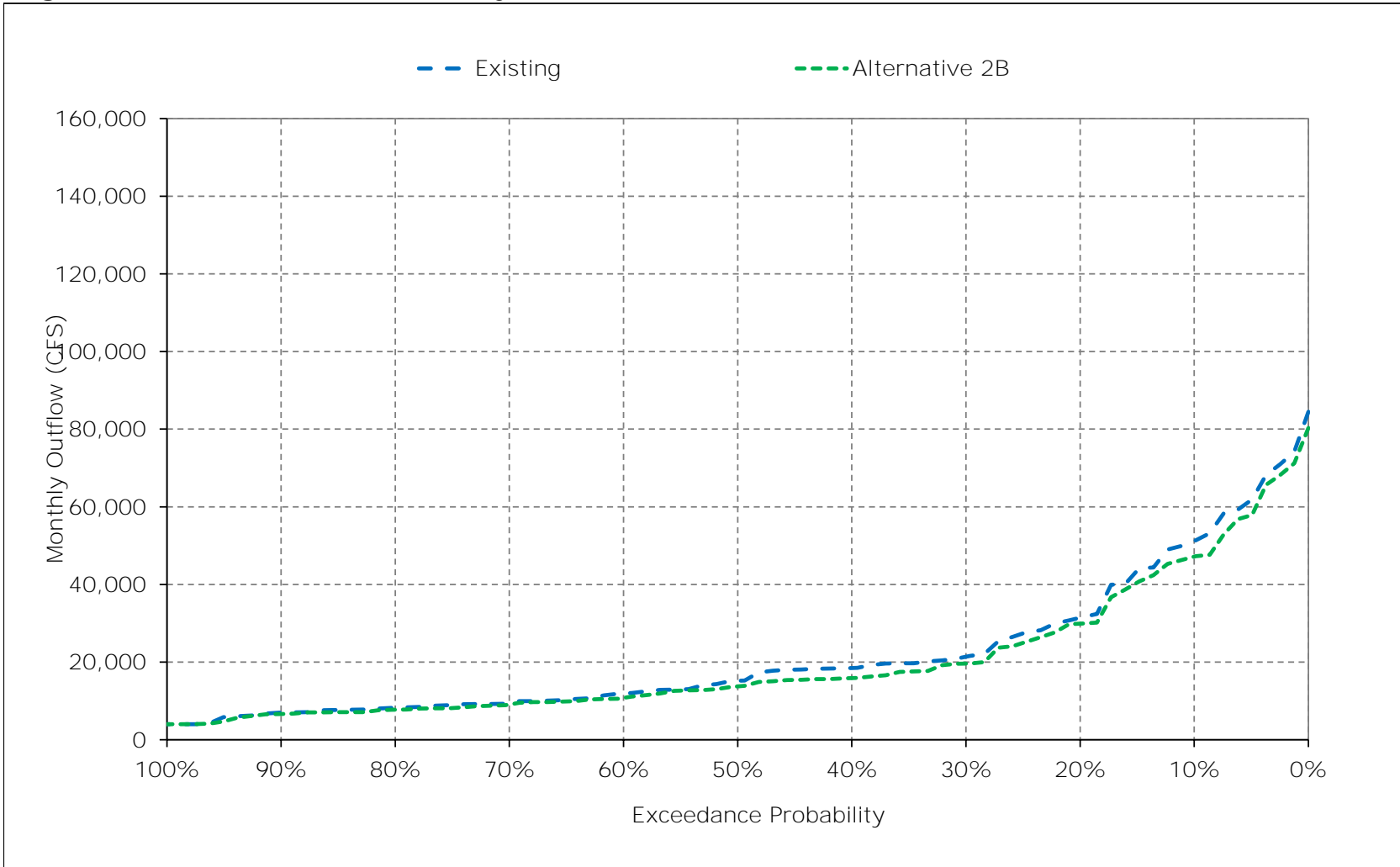


Figure 9-15. Delta Outflow, June

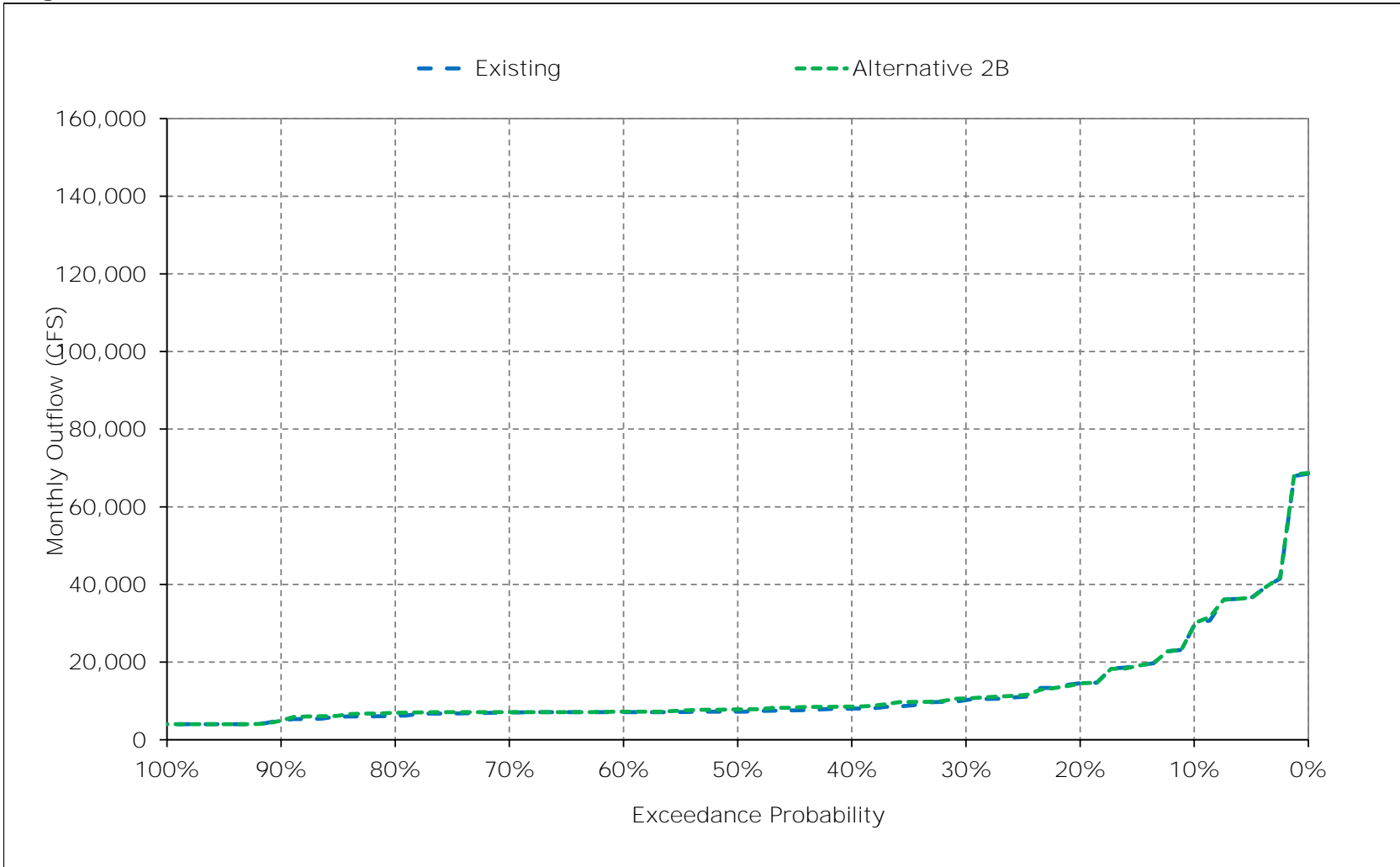


Figure 9-16. Delta Outflow, July

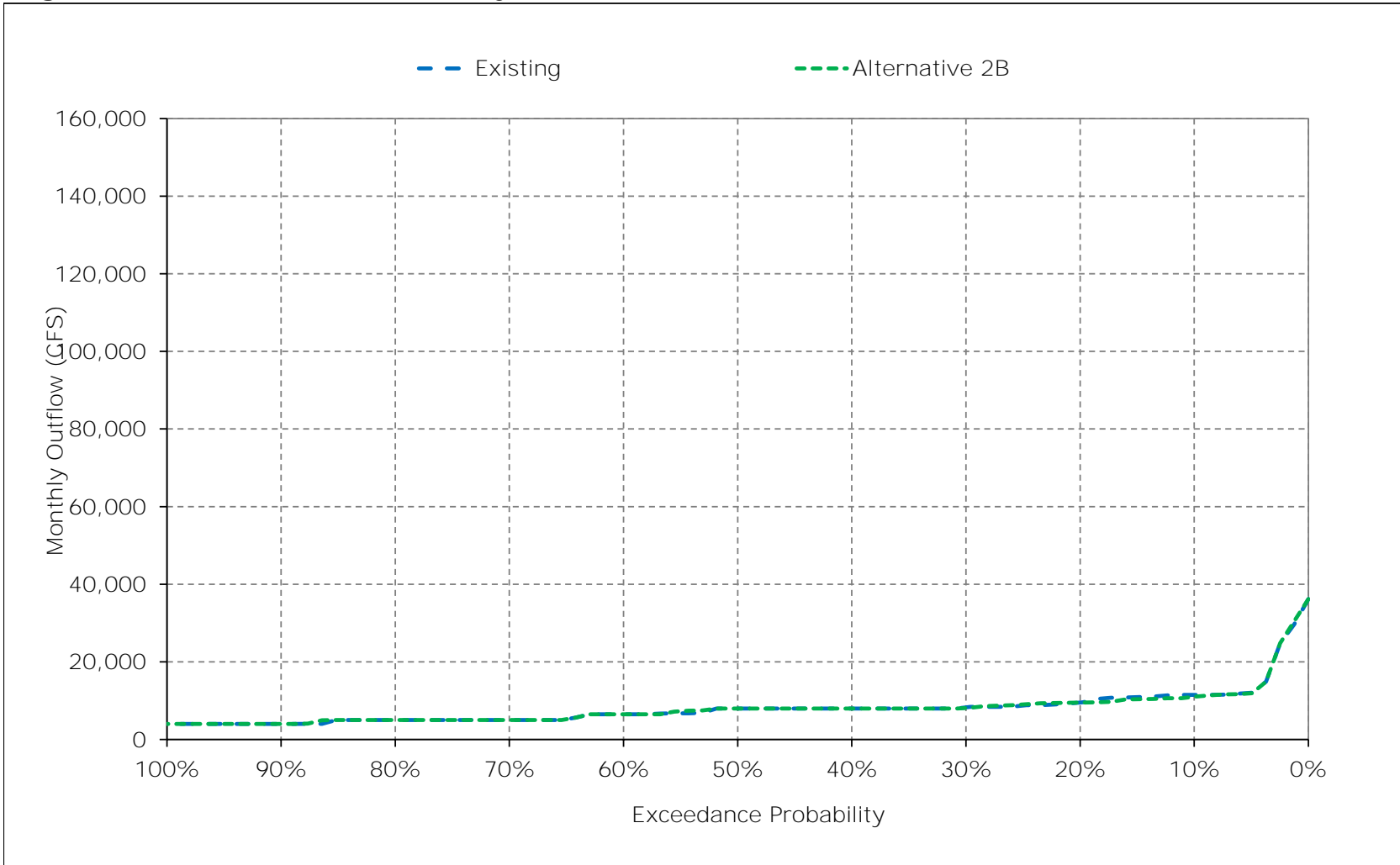


Figure 9-17. Delta Outflow, August

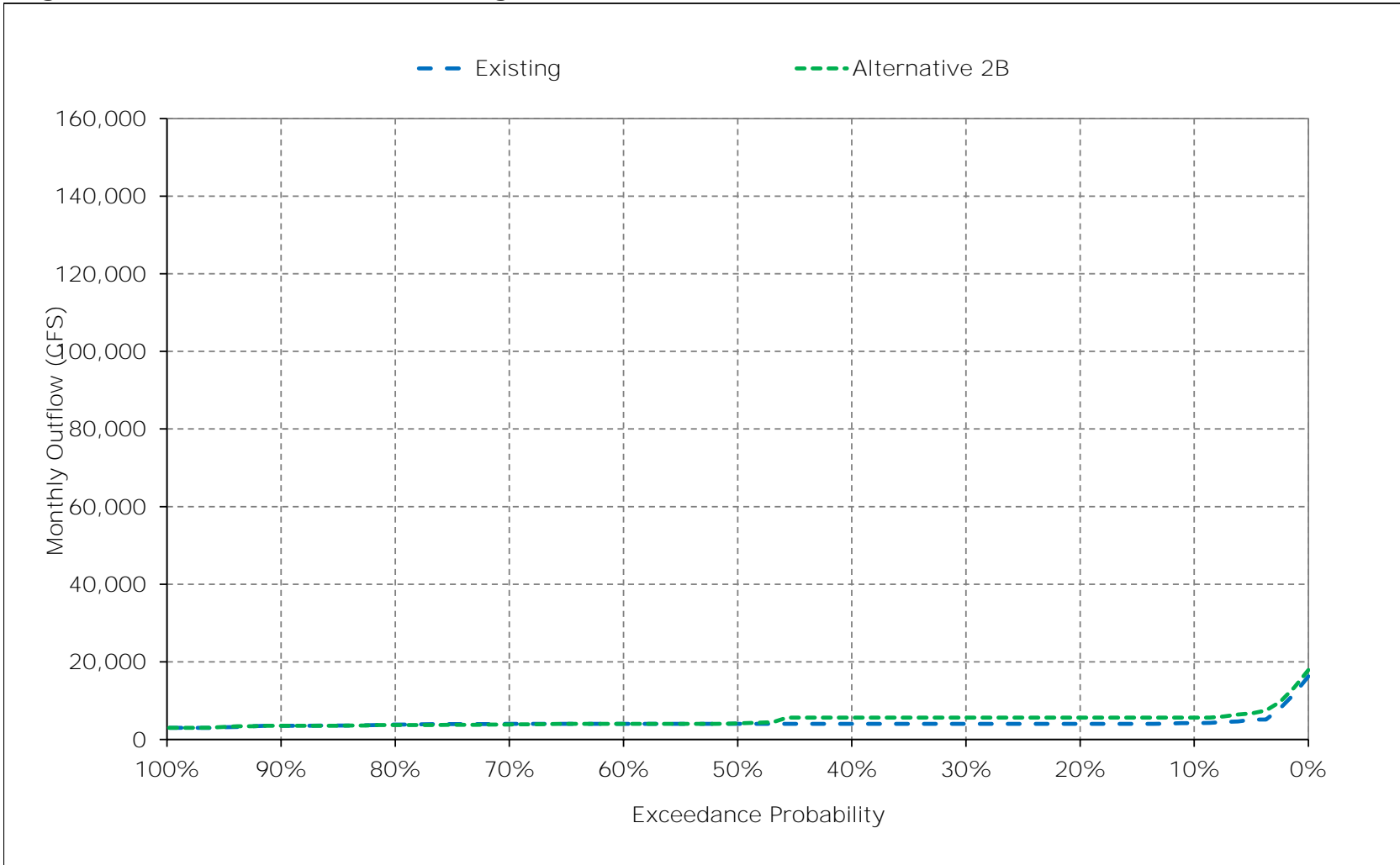
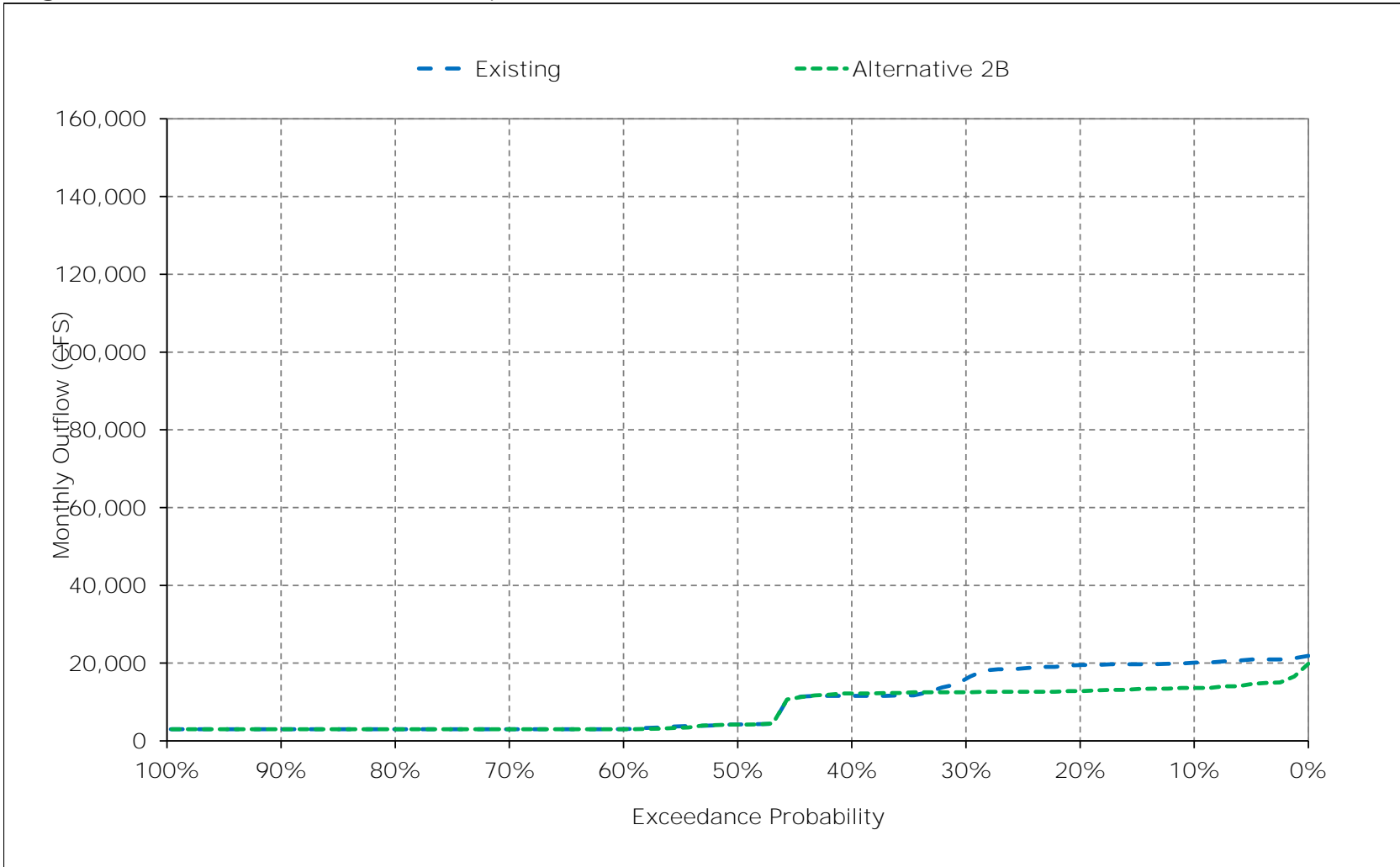


Figure 9-18. Delta Outflow, September



## Appendix C – Modeling

### Attachment 3-3 – Diversion Results (CalSim II)

***NOTE: Attachment 3-3 is a new attachment that has been added to the DEIR since initial publication, as part of the FEIR process. The additional attachment is not shown in underline for ease of reading.***

The following results of the CalSim II model are included for diversions at key project locations for the following alternatives:

- Existing Conditions
- Refined Alternative 2b

<b>Title</b>	<b>Model Parameter</b>	<b>Table Numbers</b>	<b>Figure Numbers</b>
North Bay Aqueduct Exports	D403B	1-1	1-1 to 1-18
DCC Flow	C401B_DXC	2-1	2-1 to 2-18
Total Delta Exports	TOTAL_EXP	3-1	3-1 to 3-18
SWP Banks PP Exports	D419_SWP	4-1	4-1 to 4-18
CVP Banks PP Exports	D419_CVP	5-1	5-1 to 5-18
Banks PP Exports	D419	6-1	6-1 to 6-18
Jones PP Exports	D418	7-1	7-1 to 7-18

#### Report formats

- Monthly tables comparing two scenarios (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 scenarios
- Monthly exceedance charts (all months) including all scenarios



Table 1-1. North Bay Aqueduct, Monthly Diversion

Existing												
Statistic	Monthly Diversion (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	72	67	33	37	33	87	66	70	92	83	66
20%	54	70	65	33	37	33	87	64	70	90	63	66
30%	54	63	65	33	37	33	86	63	69	89	63	66
40%	54	38	64	33	37	33	85	57	64	64	63	66
50%	53	38	64	33	37	33	84	57	61	64	63	62
60%	53	38	63	33	37	33	84	57	61	60	63	62
70%	51	38	60	33	37	33	63	57	36	37	60	52
80%	46	36	60	33	36	33	63	53	36	37	60	52
90%	41	32	32	33	36	33	35	32	2	3	35	41
Long Term												
Full Simulation Period <sup>a</sup>	54	47	58	33	35	31	70	53	51	59	61	59
Water Year Types <sup>b,c</sup>												
Wet (32%)	54	51	63	33	37	33	86	57	68	73	63	66
Above Normal (15%)	57	48	58	33	37	33	86	61	70	86	63	66
Below Normal (17%)	54	43	58	33	32	33	84	65	62	81	60	62
Dry (22%)	53	49	57	33	35	32	59	57	38	37	75	52
Critical (15%)	55	42	50	33	34	17	21	15	2	5	35	44

Alternative 2B												
Statistic	Monthly Diversion (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	74	72	67	33	37	33	87	64	70	92	83	66
20%	58	71	65	33	37	33	87	64	70	90	63	66
30%	54	66	65	33	37	33	86	63	64	87	63	66
40%	54	50	64	33	37	33	85	57	64	64	63	66
50%	54	42	63	33	37	33	84	57	64	64	63	62
60%	53	39	63	33	37	33	84	57	61	60	63	62
70%	51	38	60	33	37	33	63	56	36	37	60	52
80%	51	38	37	33	36	33	63	38	36	37	50	52
90%	41	32	32	33	36	33	35	32	2	3	35	41
Long Term												
Full Simulation Period <sup>a</sup>	56	51	57	33	34	31	70	51	51	59	60	59
Water Year Types <sup>b,c</sup>												
Wet (32%)	55	56	63	33	37	33	86	57	68	74	63	66
Above Normal (15%)	61	48	53	33	37	33	86	61	67	86	63	66
Below Normal (17%)	54	51	53	33	32	33	84	62	65	78	60	62
Dry (22%)	53	52	57	33	35	32	56	55	38	37	72	52
Critical (15%)	58	39	50	33	31	20	21	13	2	8	35	44

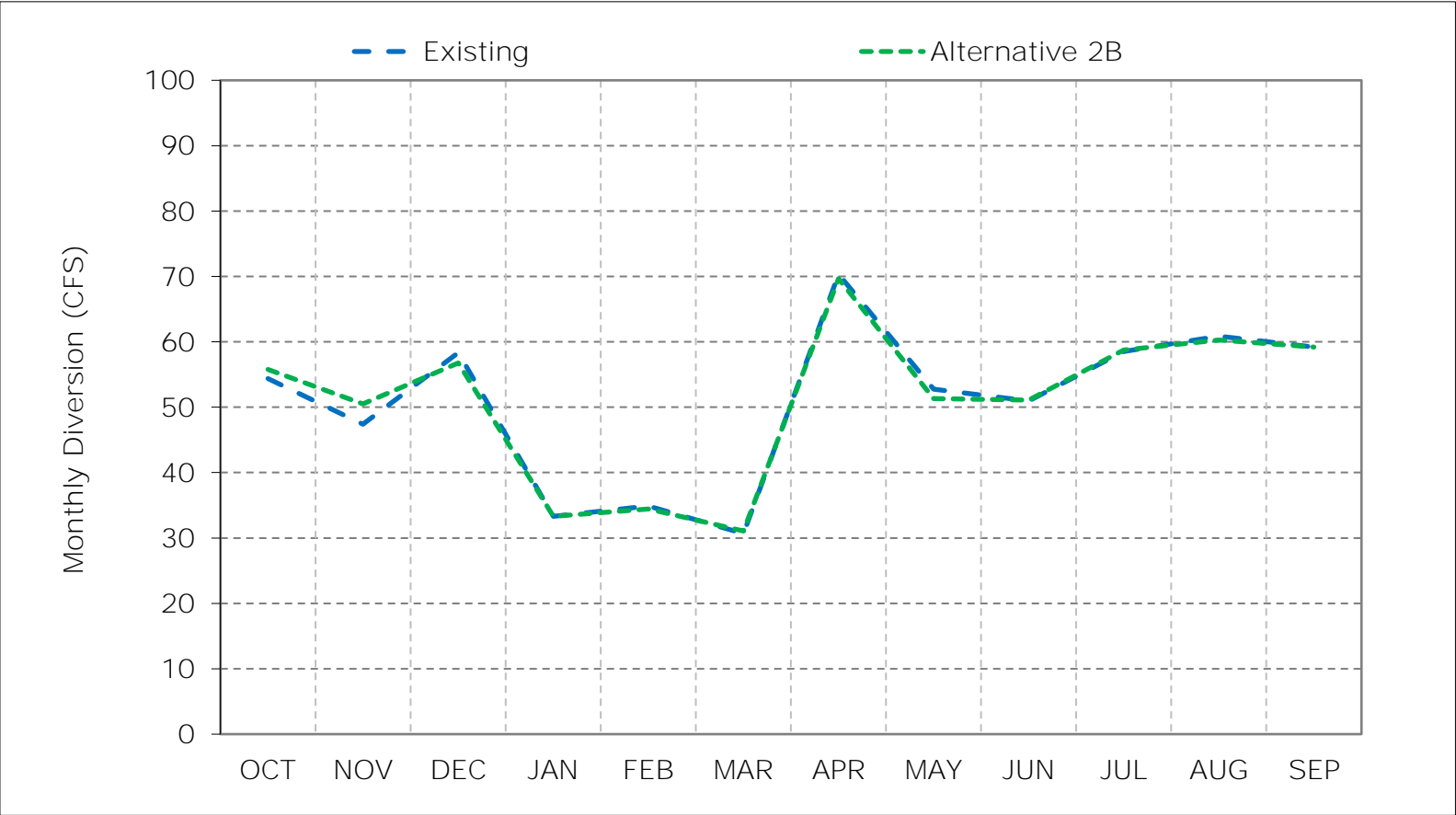
Alternative 2B minus Existing												
Statistic	Monthly Diversion (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	-2	0	0	0	0
20%	4	1	0	0	0	0	0	0	0	0	0	0
30%	0	3	0	0	0	0	0	-1	-5	-3	0	0
40%	0	12	0	0	0	0	0	0	0	0	0	0
50%	1	4	-2	0	0	0	0	0	3	0	0	0
60%	0	1	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	5	1	-23	0	0	0	0	-15	0	0	-9	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period <sup>a</sup>	1	3	-2	0	0	0	-1	-1	0	0	-1	0
Water Year Types <sup>b,c</sup>												
Wet (32%)	1	4	0	0	0	0	0	0	0	1	0	0
Above Normal (15%)	4	0	-5	0	0	0	0	-1	-3	0	0	0
Below Normal (17%)	0	8	-5	0	0	0	0	-3	4	-2	0	0
Dry (22%)	0	3	0	0	0	0	-3	-2	0	0	-3	0
Critical (15%)	3	-2	0	0	-3	3	0	-3	0	3	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 water year - year type sorting.

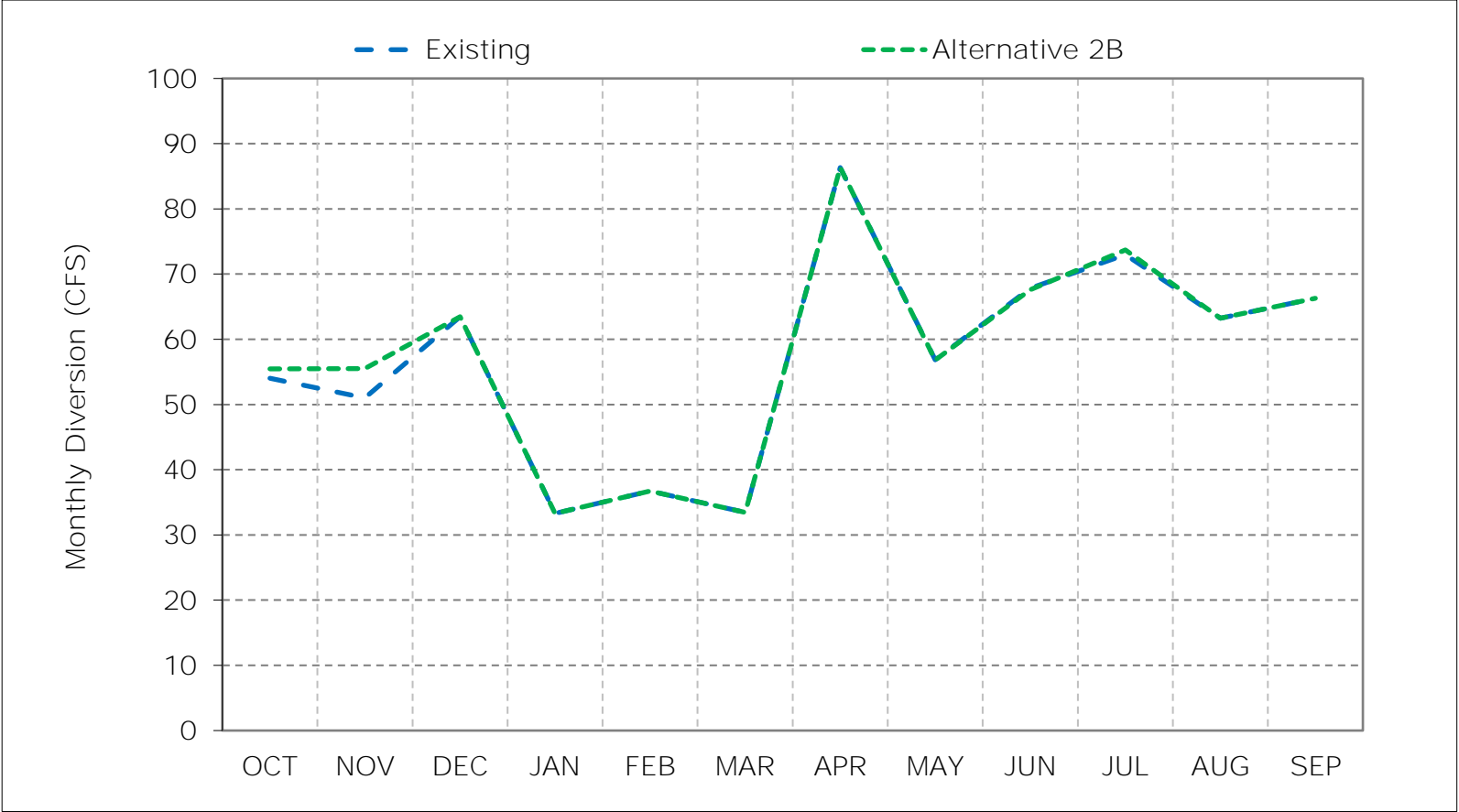
Figure 1-1. North Bay Aqueduct, Long-Term Average Diversion



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

\*These results are displayed with water year - year type sorting.

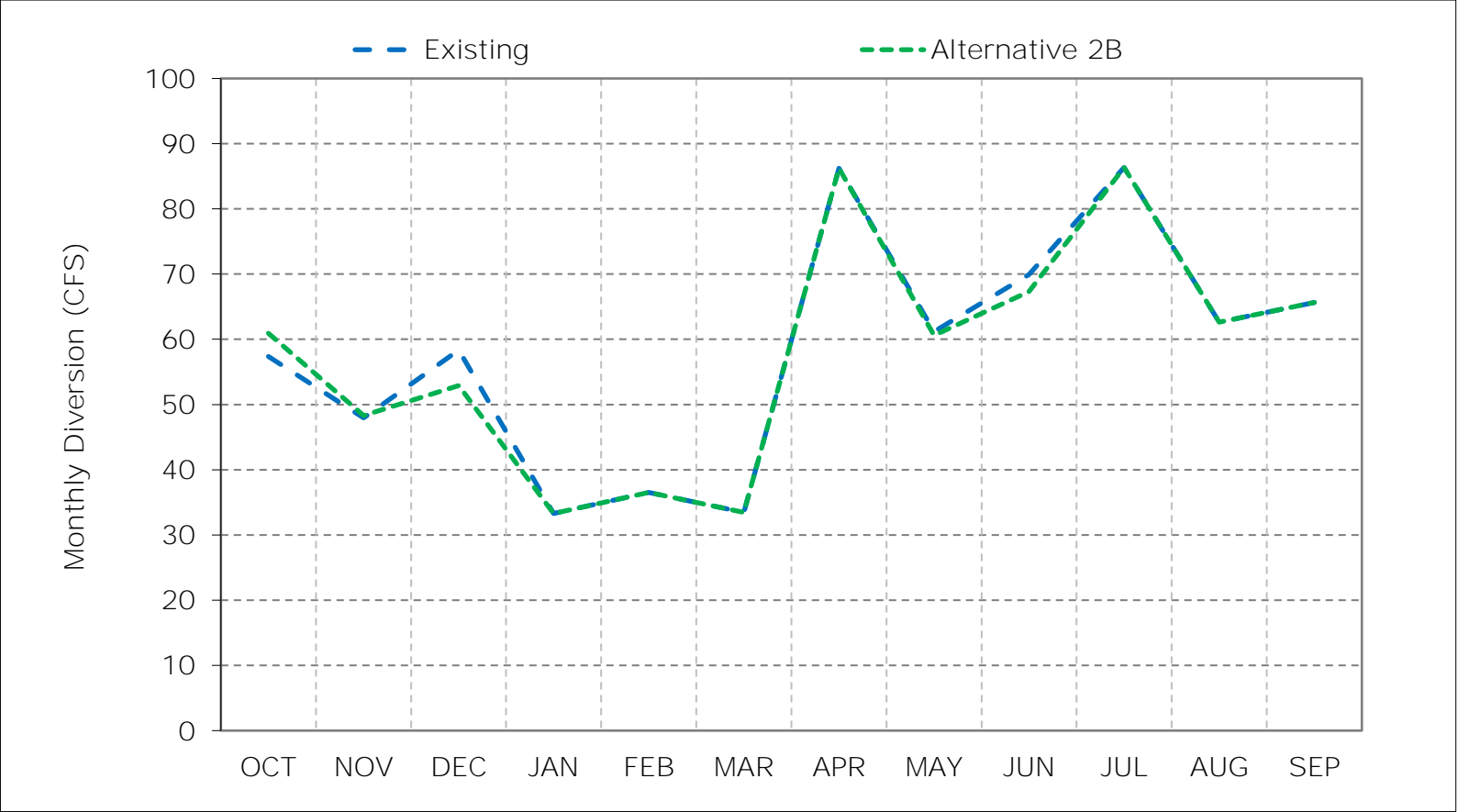
Figure 1-2. North Bay Aqueduct, Wet Year Average Diversion



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

\*These results are displayed with water year - year type sorting.

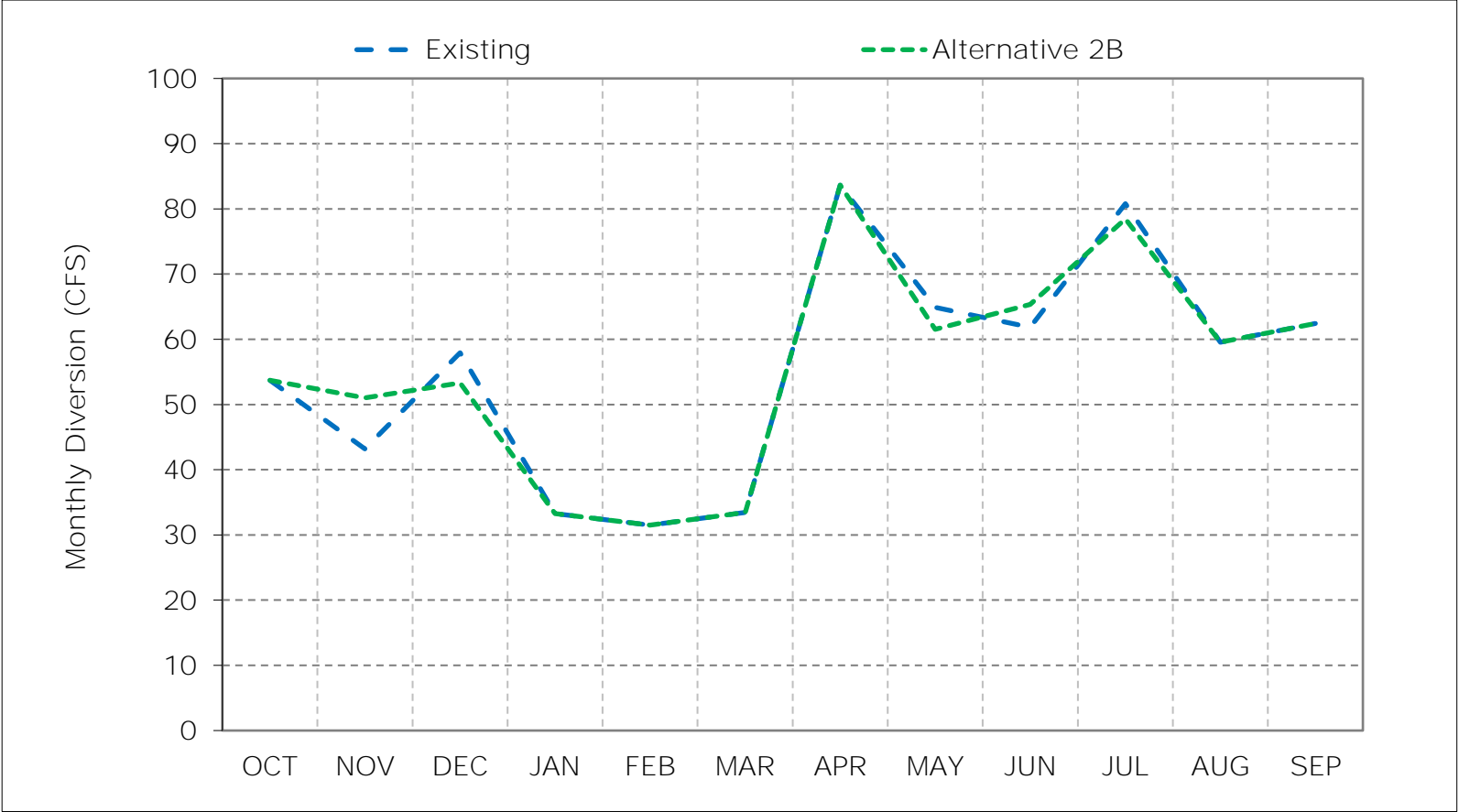
Figure 1-3. North Bay Aqueduct, Above Normal Year Average Diversion



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

\*These results are displayed with water year - year type sorting.

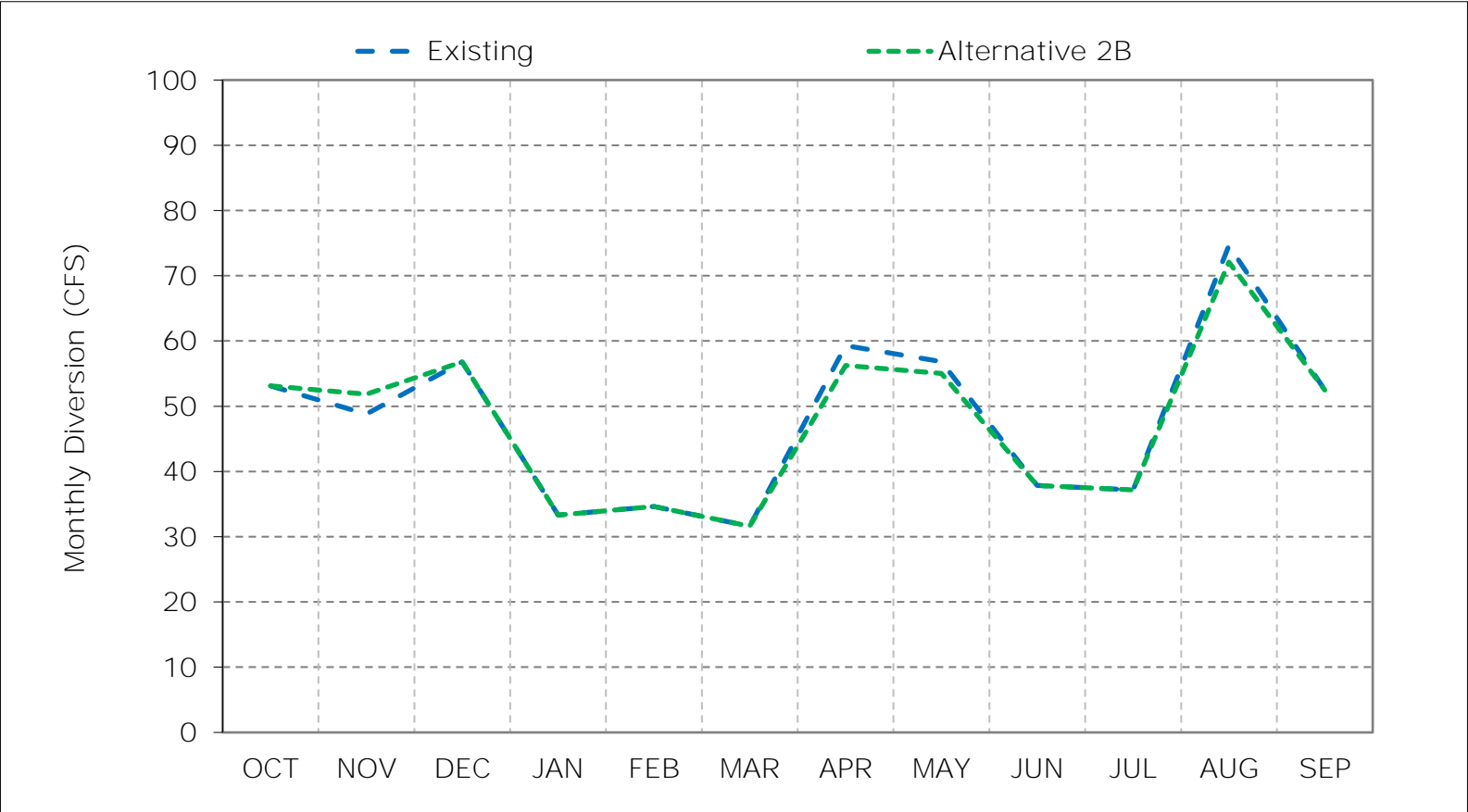
Figure 1-4. North Bay Aqueduct, Below Normal Year Average Diversion



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

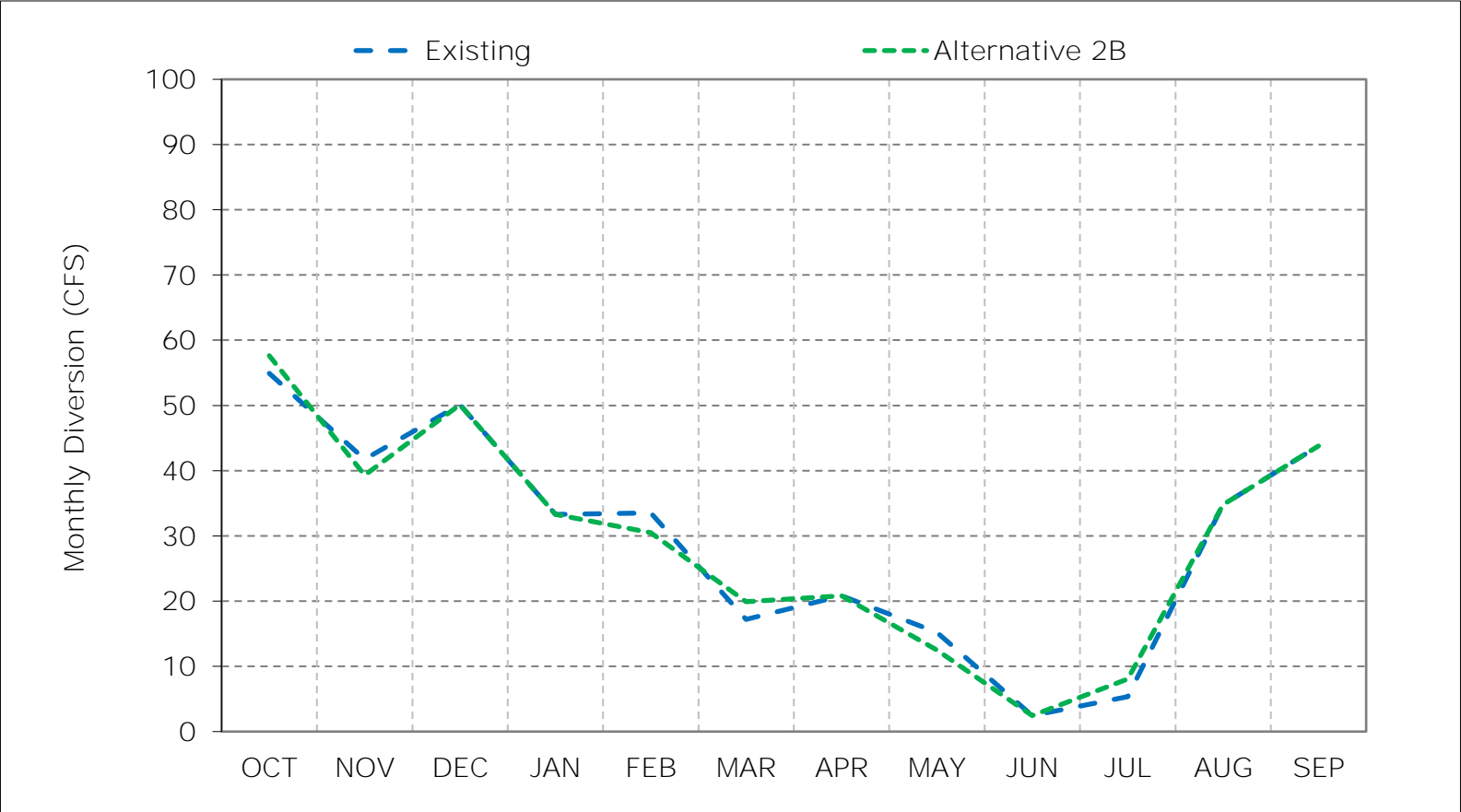
\*These results are displayed with water year - year type sorting.

Figure 1-5. North Bay Aqueduct, Dry Year Average Diversion



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 1-6. North Bay Aqueduct, Critical Year Average Diversion



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 1-7. North Bay Aqueduct, October





Figure 1-8. North Bay Aqueduct, November

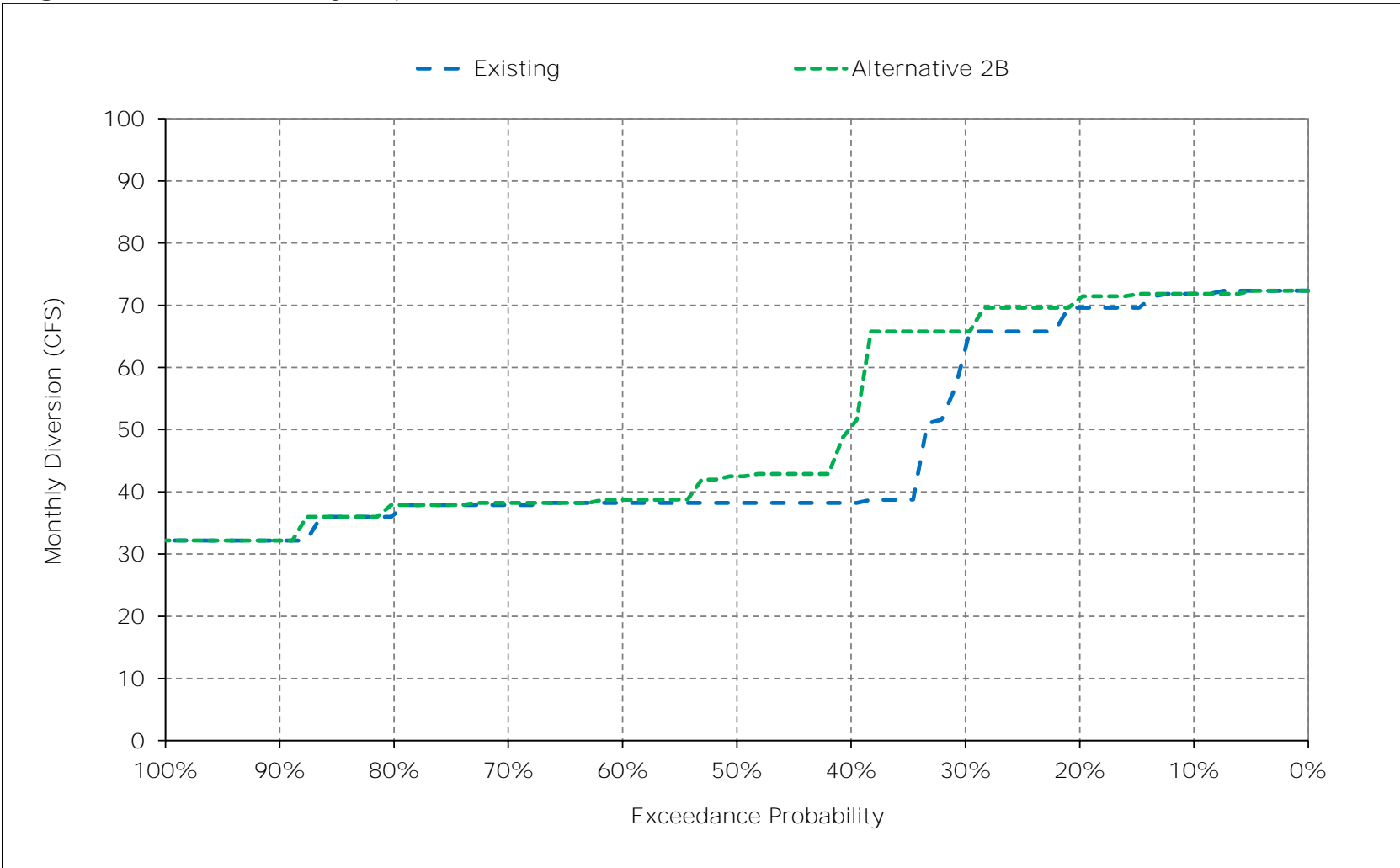


Figure 1-9. North Bay Aqueduct, December

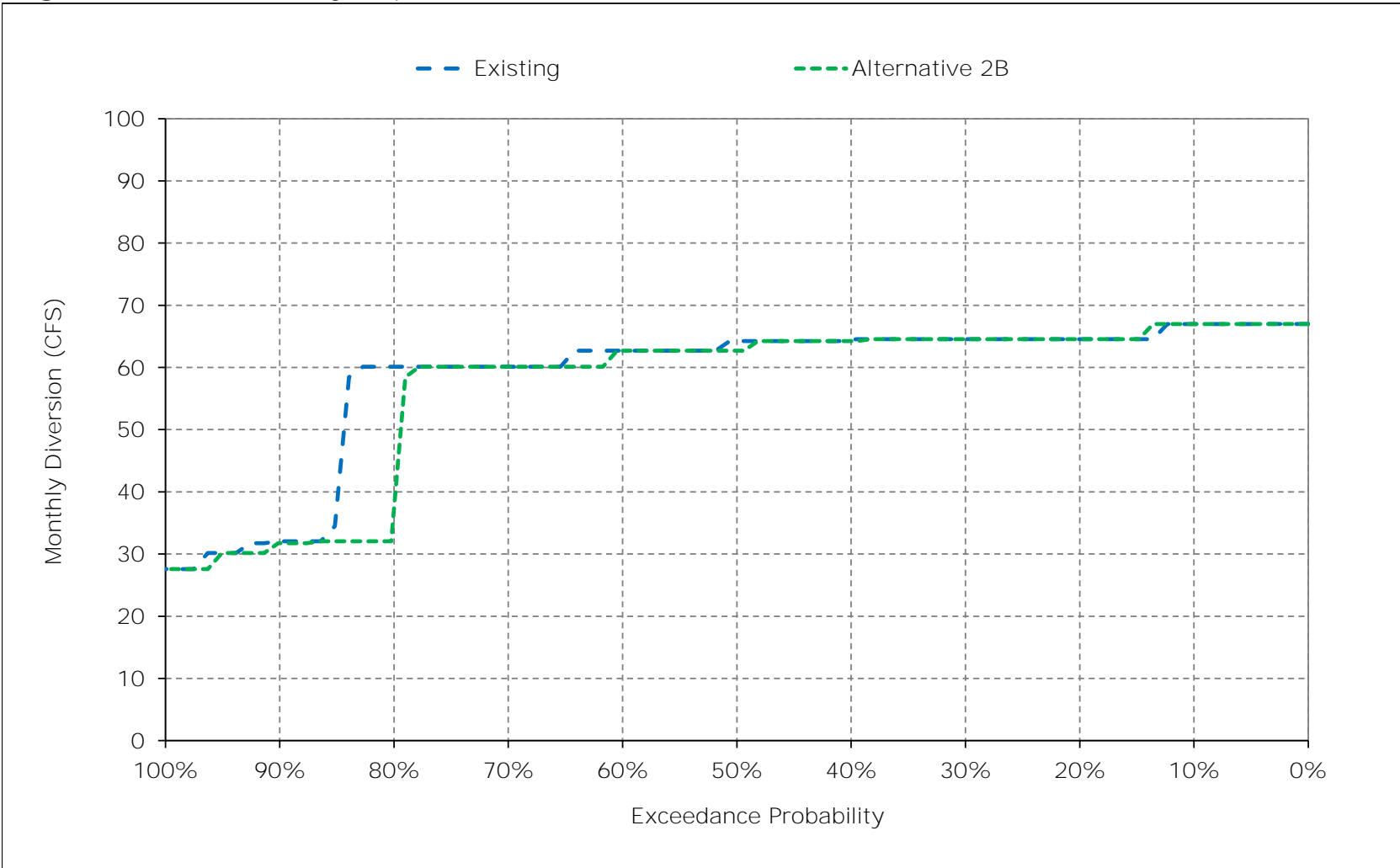


Figure 1-10. North Bay Aqueduct, January

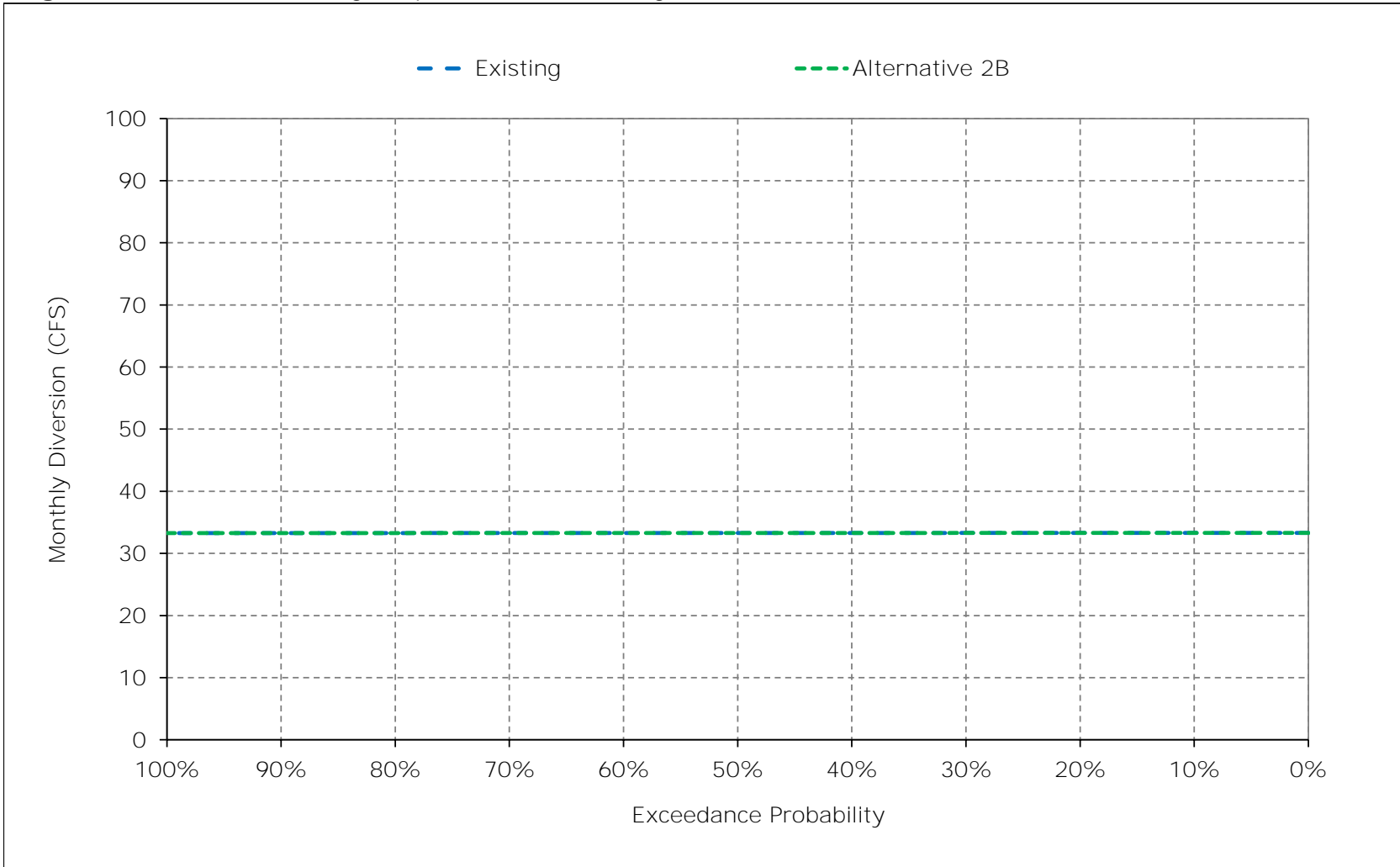


Figure 1-11. North Bay Aqueduct, February

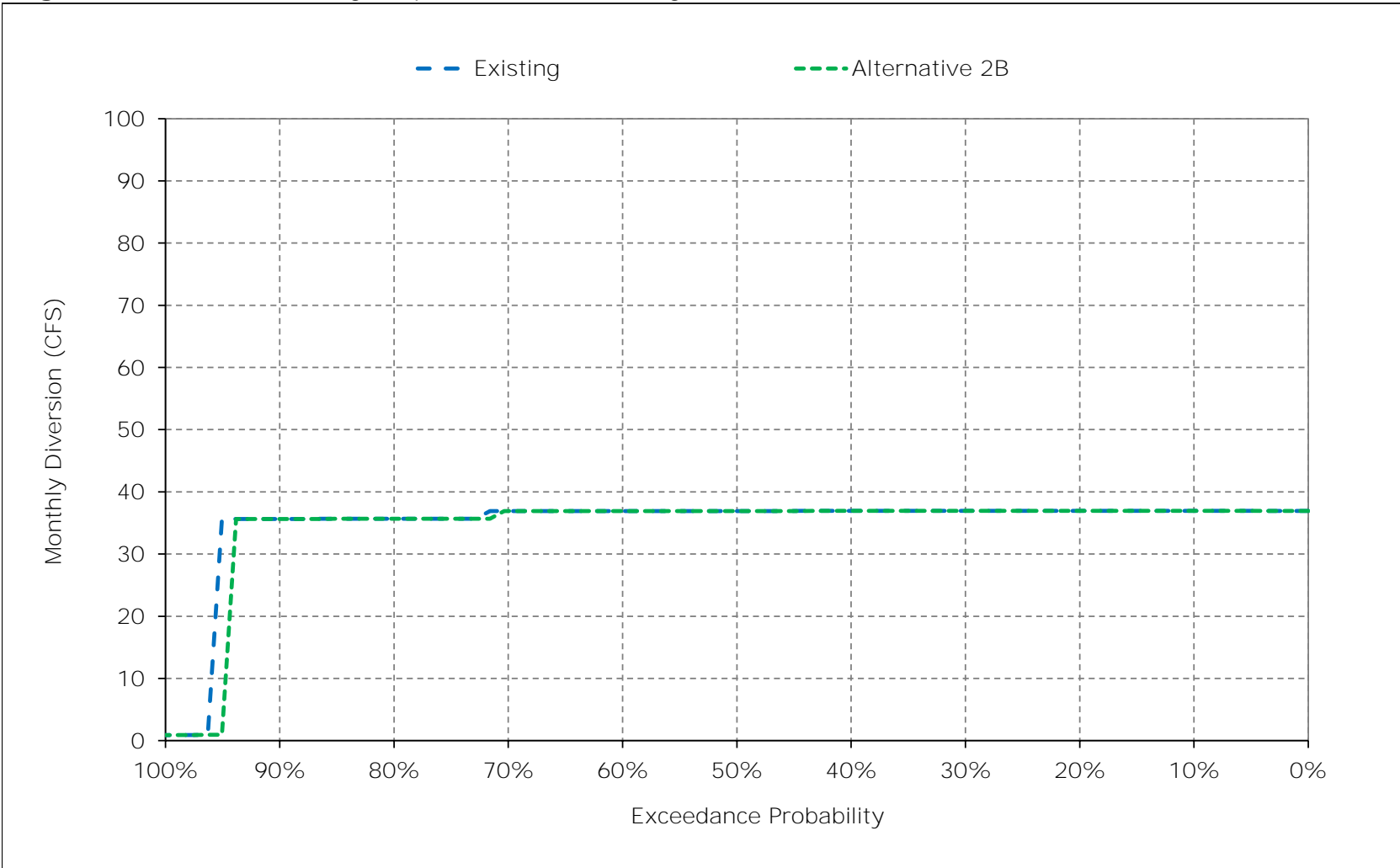


Figure 1-12. North Bay Aqueduct, March

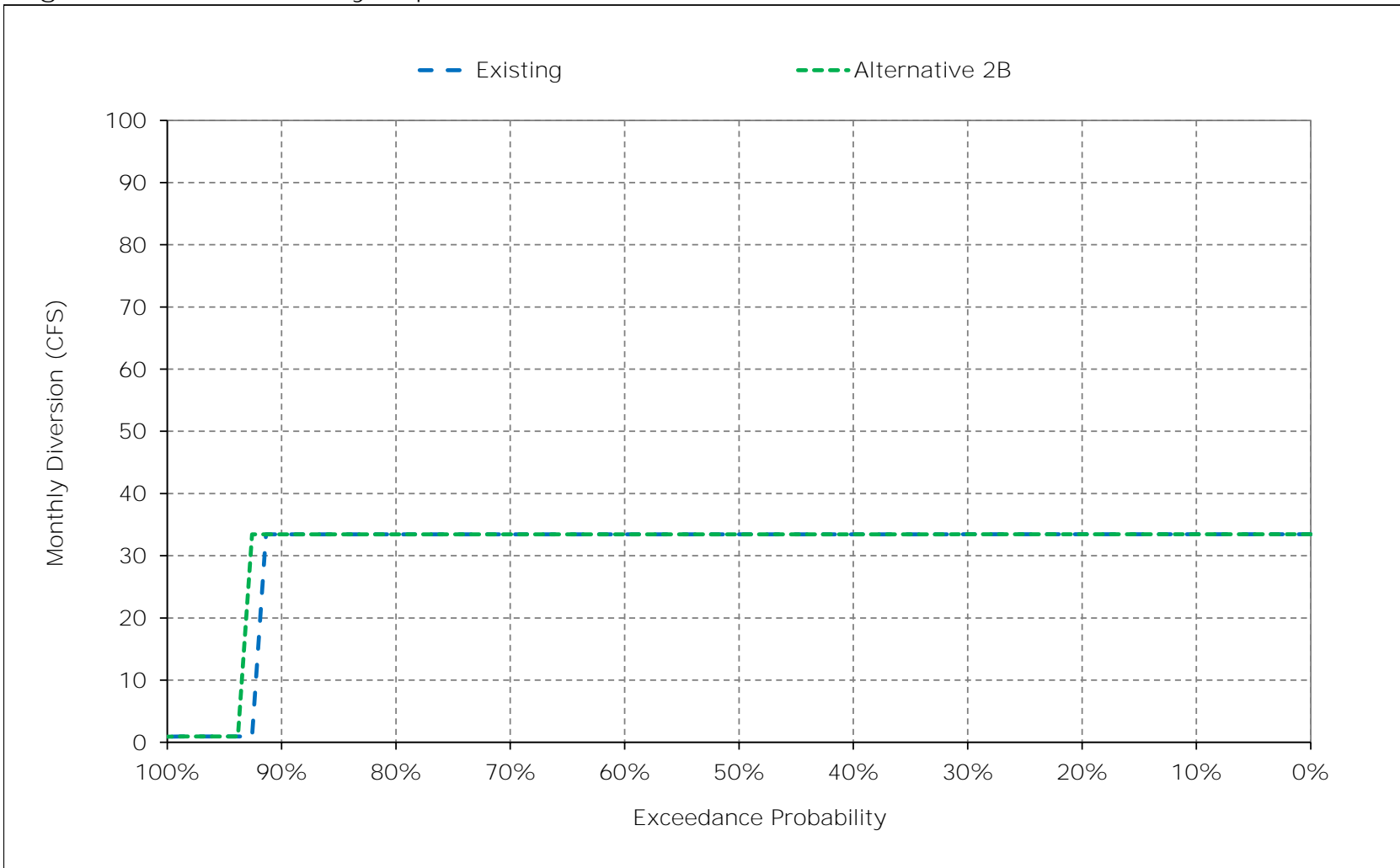


Figure 1-13. North Bay Aqueduct, April

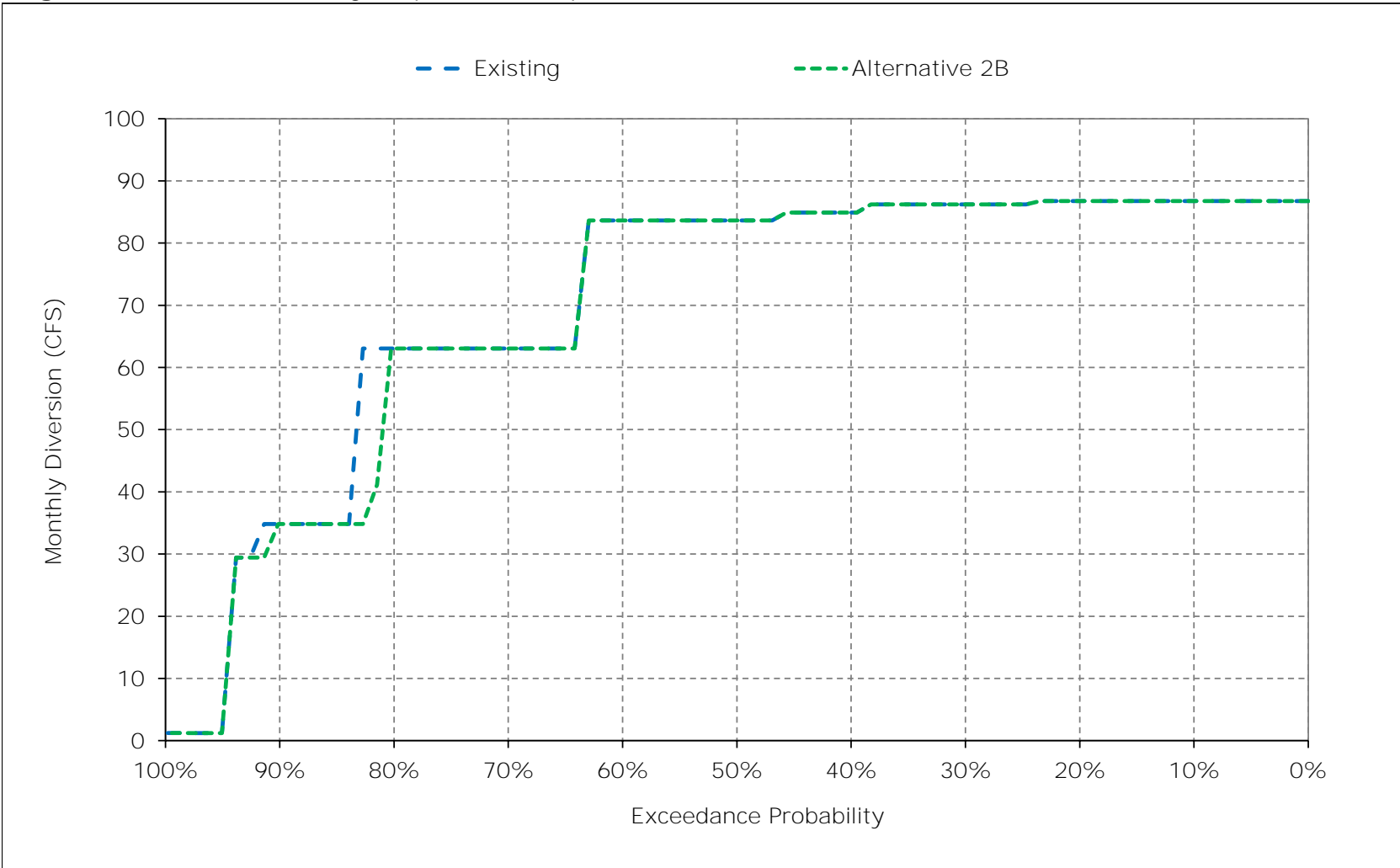


Figure 1-14. North Bay Aqueduct, May

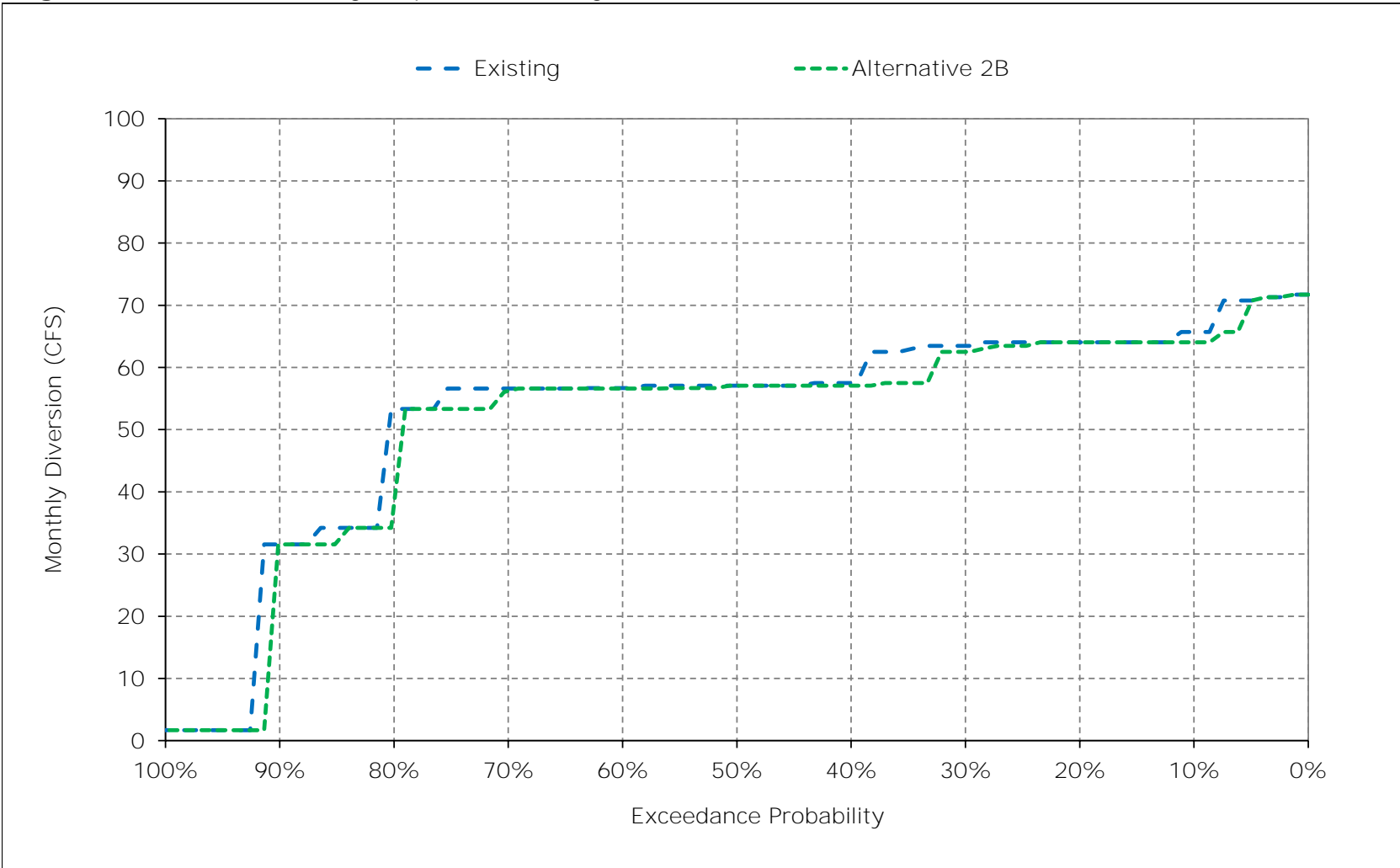


Figure 1-15. North Bay Aqueduct, June

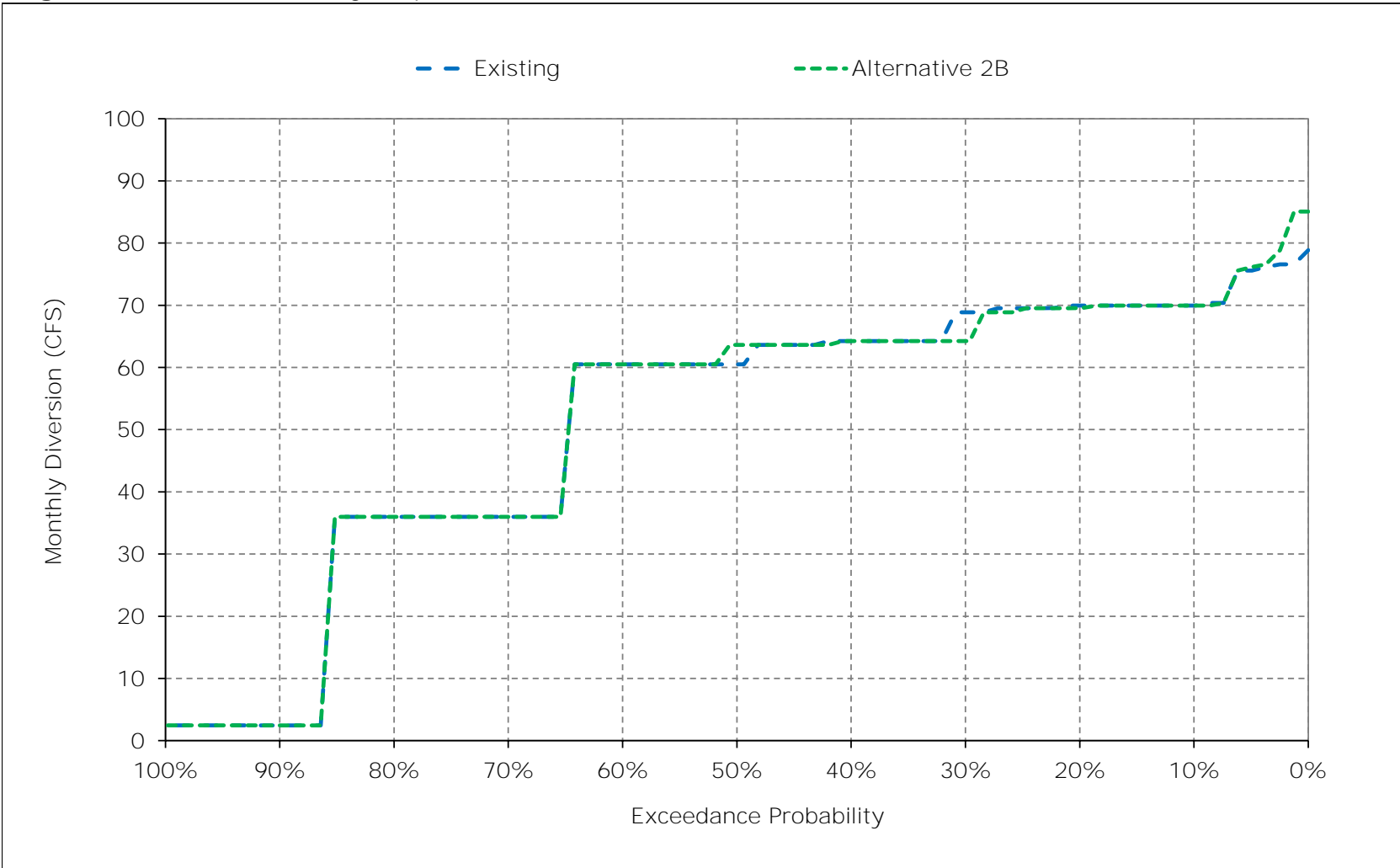




Figure 1-16. North Bay Aqueduct, July

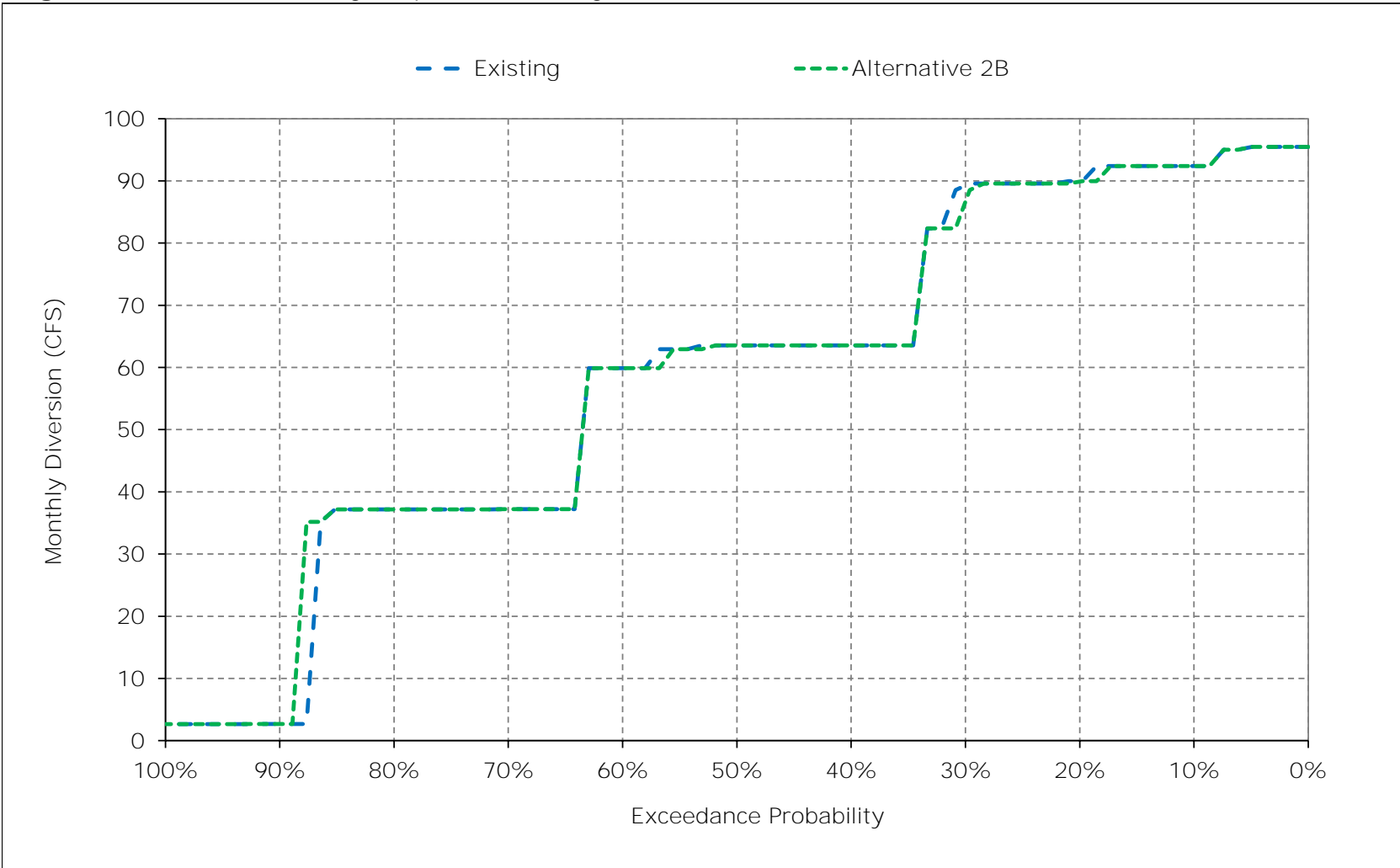


Figure 1-17. North Bay Aqueduct, August

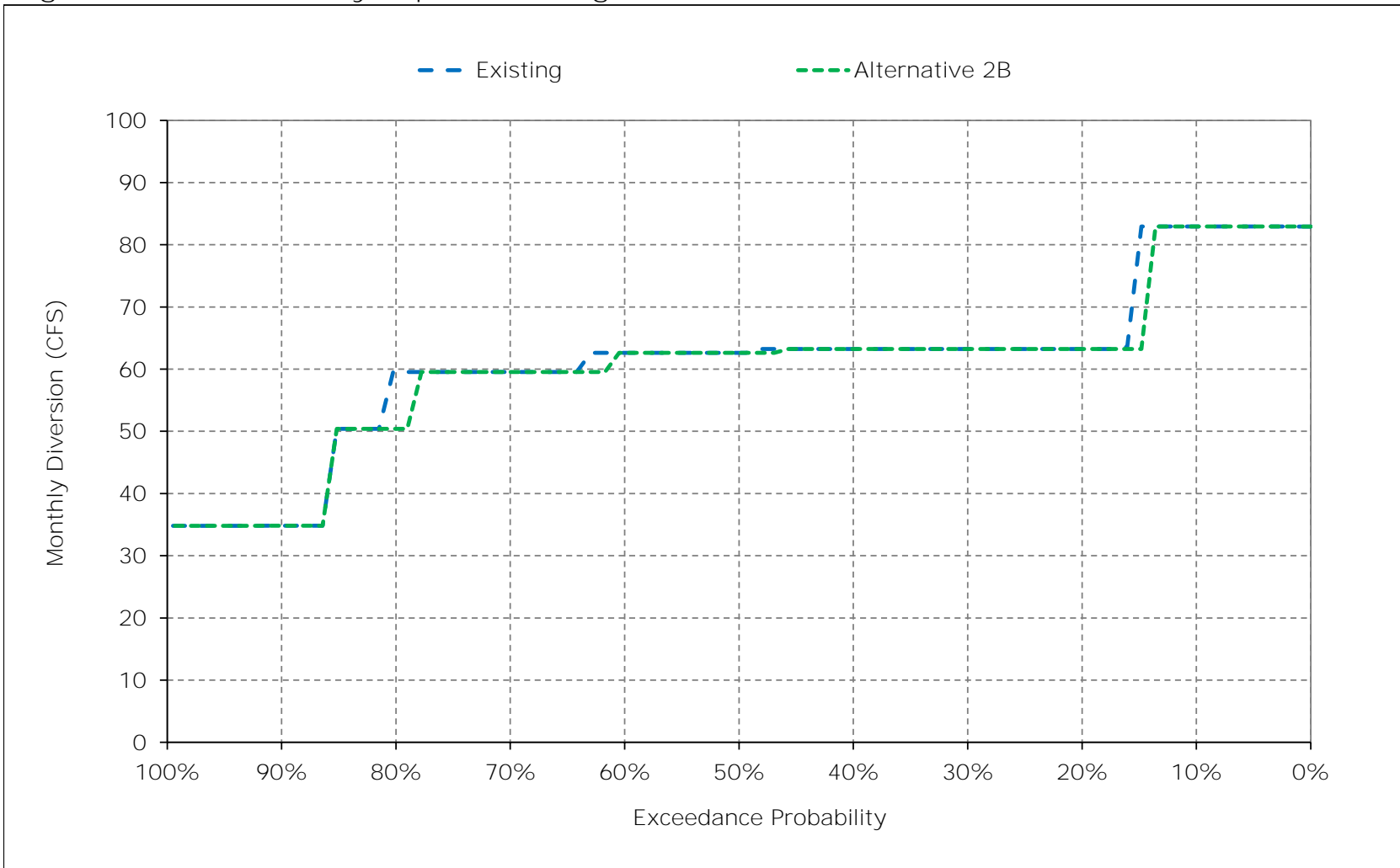


Figure 1-18. North Bay Aqueduct, September

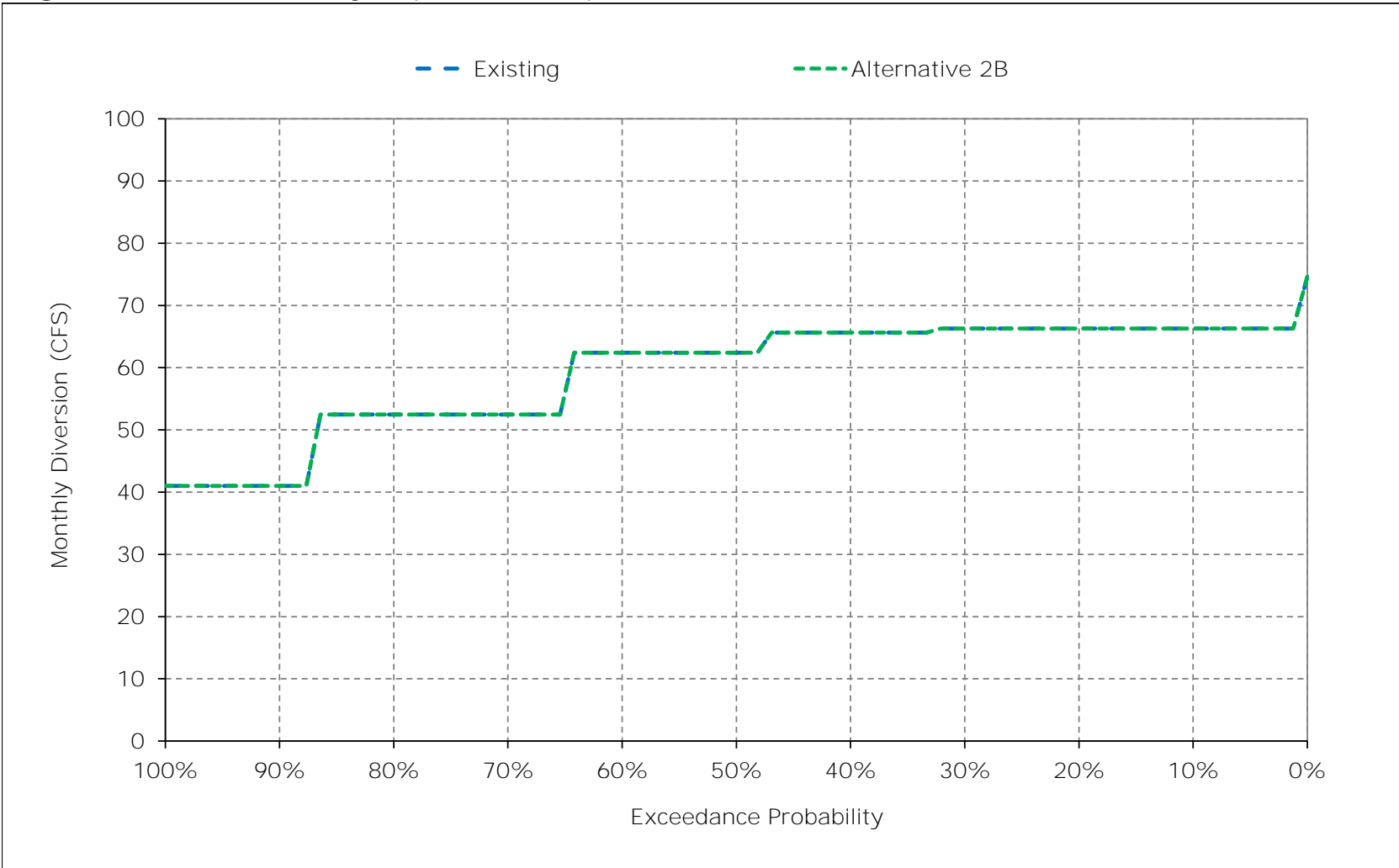


Table 2-1. DCC Flow, Monthly Flow

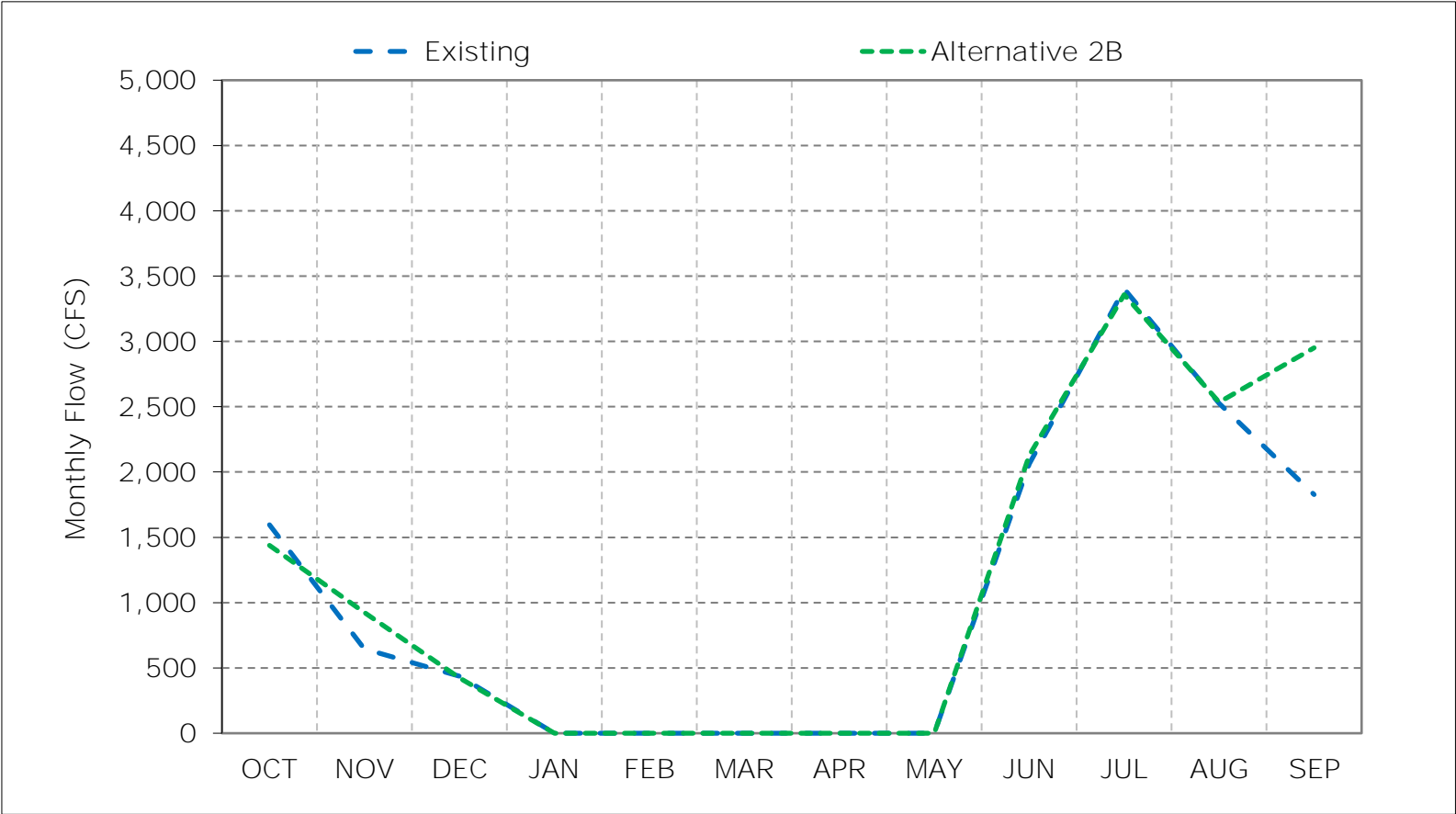
Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,148	1,277	922	0	0	0	0	0	3,039	4,572	3,153	4,268
20%	2,080	1,142	861	0	0	0	0	0	2,446	4,276	3,015	2,858
30%	1,881	1,008	776	0	0	0	0	0	2,368	4,013	2,970	2,314
40%	1,765	883	685	0	0	0	0	0	2,308	3,701	2,925	1,875
50%	1,613	797	485	0	0	0	0	0	2,230	3,553	2,885	1,789
60%	1,486	523	0	0	0	0	0	0	2,065	3,244	2,680	1,468
70%	1,446	30	0	0	0	0	0	0	1,944	3,049	1,947	1,213
80%	1,208	0	0	0	0	0	0	0	1,733	2,726	1,708	0
90%	1,157	0	0	0	0	0	0	0	130	1,907	1,527	0
Long Term												
Full Simulation Period <sup>a</sup>	1,596	645	436	0	0	0	0	0	2,061	3,402	2,526	1,828
Water Year Types <sup>b,c</sup>												
Wet (32%)	1,419	450	107	0	0	0	0	0	2,060	3,754	3,021	690
Above Normal (15%)	1,669	516	417	0	0	0	0	0	1,820	4,072	3,046	4,186
Below Normal (17%)	1,827	783	679	0	0	0	0	0	2,331	3,879	2,887	2,407
Dry (22%)	1,705	716	567	0	0	0	0	0	2,240	3,103	1,796	1,775
Critical (15%)	1,470	930	684	0	0	0	0	0	1,723	1,865	1,607	1,340
Alternative 2B												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,003	1,597	995	0	0	0	0	0	3,040	4,389	3,159	4,479
20%	1,859	1,492	843	0	0	0	0	0	2,510	4,211	3,040	4,395
30%	1,715	1,306	758	0	0	0	0	0	2,434	3,977	2,978	4,233
40%	1,599	1,066	645	0	0	0	0	0	2,392	3,650	2,941	3,701
50%	1,503	987	412	0	0	0	0	0	2,310	3,548	2,881	2,724
60%	1,460	862	0	0	0	0	0	0	2,213	3,268	2,637	1,998
70%	1,240	774	0	0	0	0	0	0	1,989	2,996	1,993	1,851
80%	1,186	179	0	0	0	0	0	0	1,891	2,586	1,775	1,719
90%	767	0	0	0	0	0	0	0	131	1,939	1,626	1,377
Long Term												
Full Simulation Period <sup>a</sup>	1,437	924	422	0	0	0	0	0	2,127	3,358	2,534	2,950
Water Year Types <sup>b,c</sup>												
Wet (32%)	1,287	792	82	0	0	0	0	0	2,072	3,690	3,013	4,154
Above Normal (15%)	1,531	837	379	0	0	0	0	0	1,948	3,975	3,059	4,380
Below Normal (17%)	1,559	1,055	677	0	0	0	0	0	2,476	3,843	2,872	2,348
Dry (22%)	1,615	980	562	0	0	0	0	0	2,316	3,024	1,827	1,778
Critical (15%)	1,260	1,061	694	0	0	0	0	0	1,733	1,955	1,639	1,373
Alternative 2B minus Existing												
Statistic	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-145	321	73	0	0	0	0	0	0	-184	6	211
20%	-220	351	-17	0	0	0	0	0	64	-65	25	1,538
30%	-166	298	-17	0	0	0	0	0	65	-36	8	1,918
40%	-166	184	-39	0	0	0	0	0	84	-51	16	1,825
50%	-110	190	-74	0	0	0	0	0	80	-5	-5	934
60%	-25	339	0	0	0	0	0	0	148	23	-43	531
70%	-206	744	0	0	0	0	0	0	45	-53	46	638
80%	-22	179	0	0	0	0	0	0	159	-139	67	1,719
90%	-390	0	0	0	0	0	0	0	1	32	99	1,377
Long Term												
Full Simulation Period <sup>a</sup>	-158	279	-13	0	0	0	0	0	65	-45	8	1,122
Water Year Types <sup>b,c</sup>												
Wet (32%)	-132	341	-25	0	0	0	0	0	12	-64	-8	3,464
Above Normal (15%)	-138	321	-38	0	0	0	0	0	127	-97	12	194
Below Normal (17%)	-268	272	-2	0	0	0	0	0	146	-36	-15	-60
Dry (22%)	-90	264	-5	0	0	0	0	0	75	-79	31	3
Critical (15%)	-210	131	10	0	0	0	0	0	10	91	32	33

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).

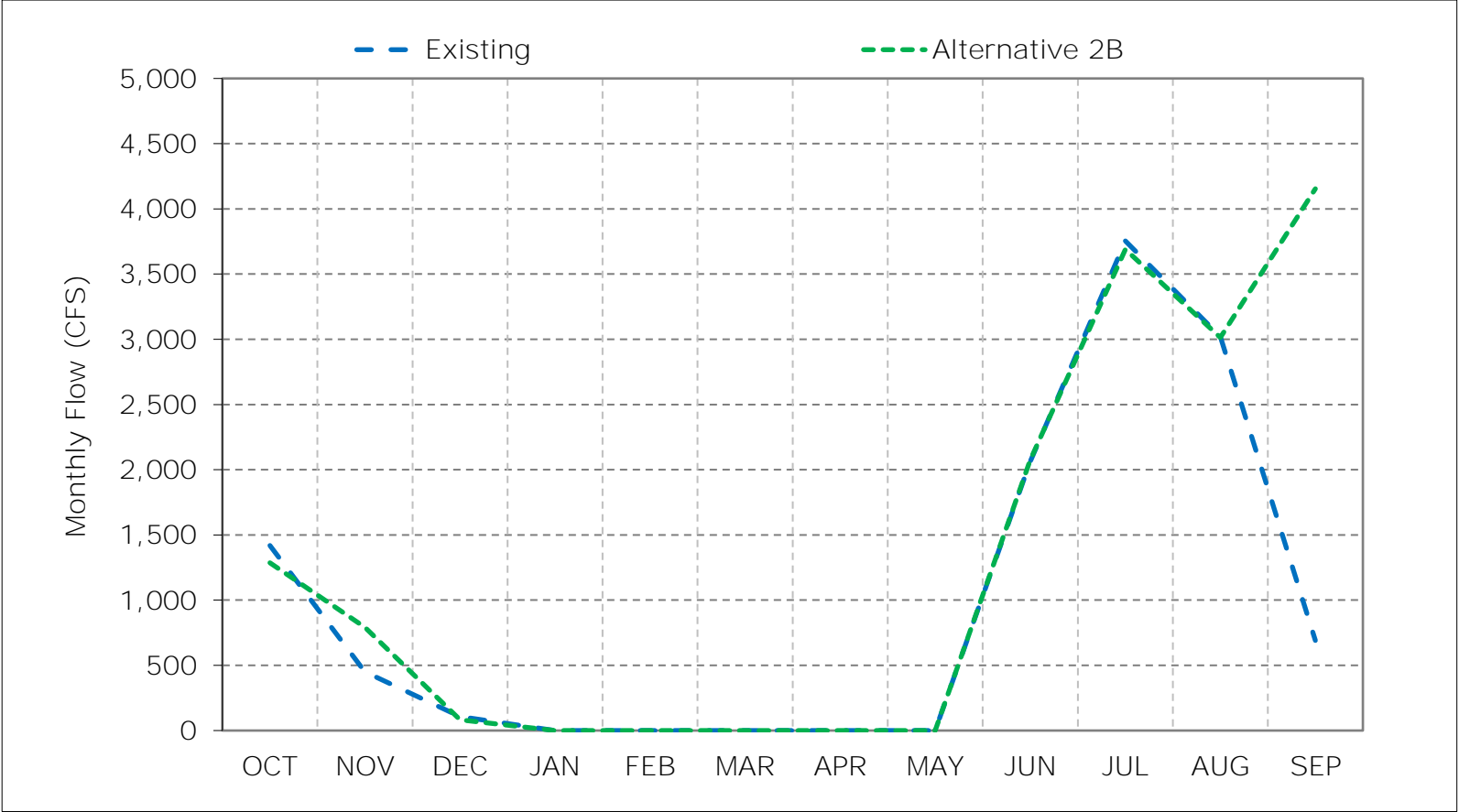
c These results are displayed with water year - year type sorting.

Figure 2-1. DCC Flow, Long-Term Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

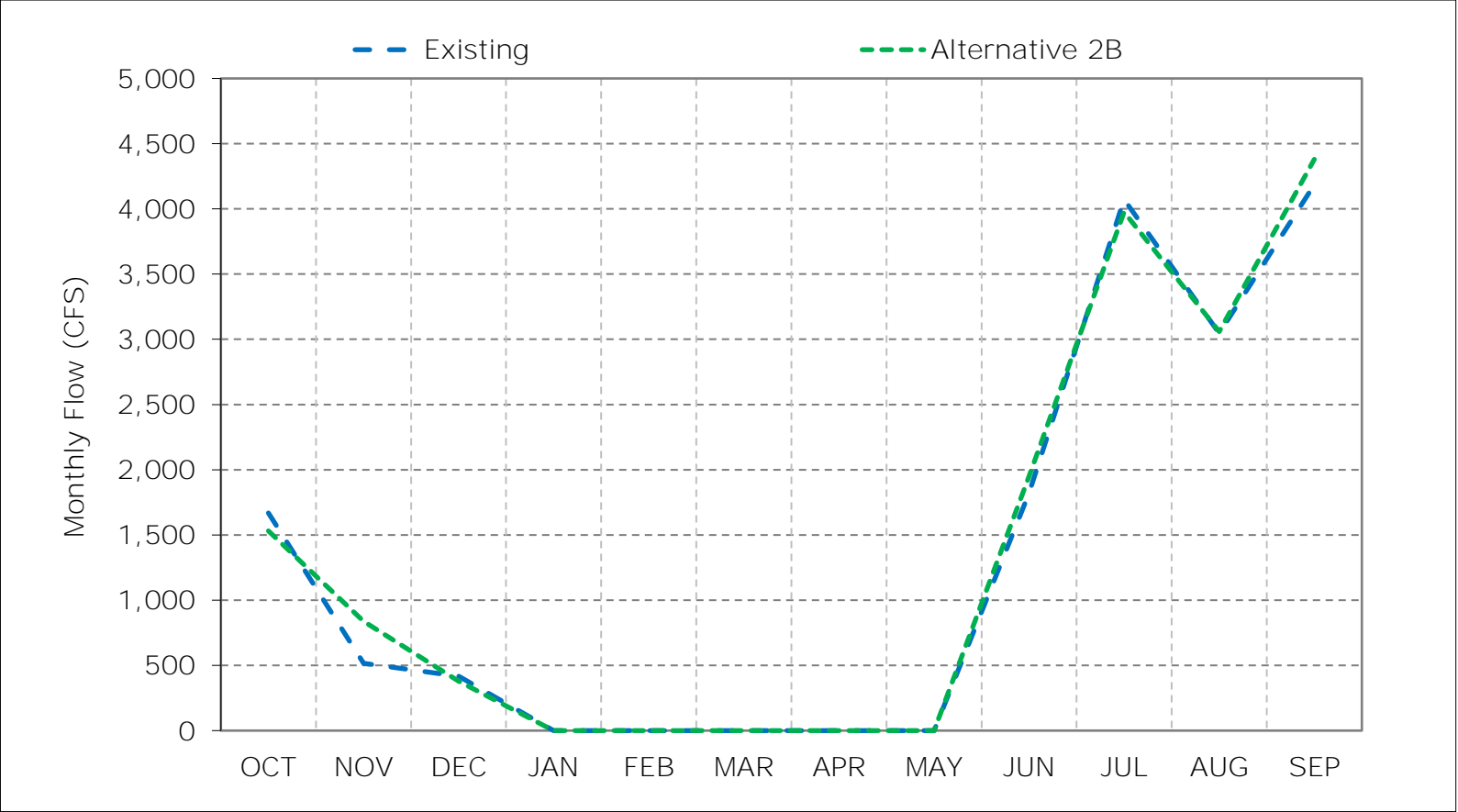
Figure 2-2. DCC Flow, Wet Year Average Flow



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

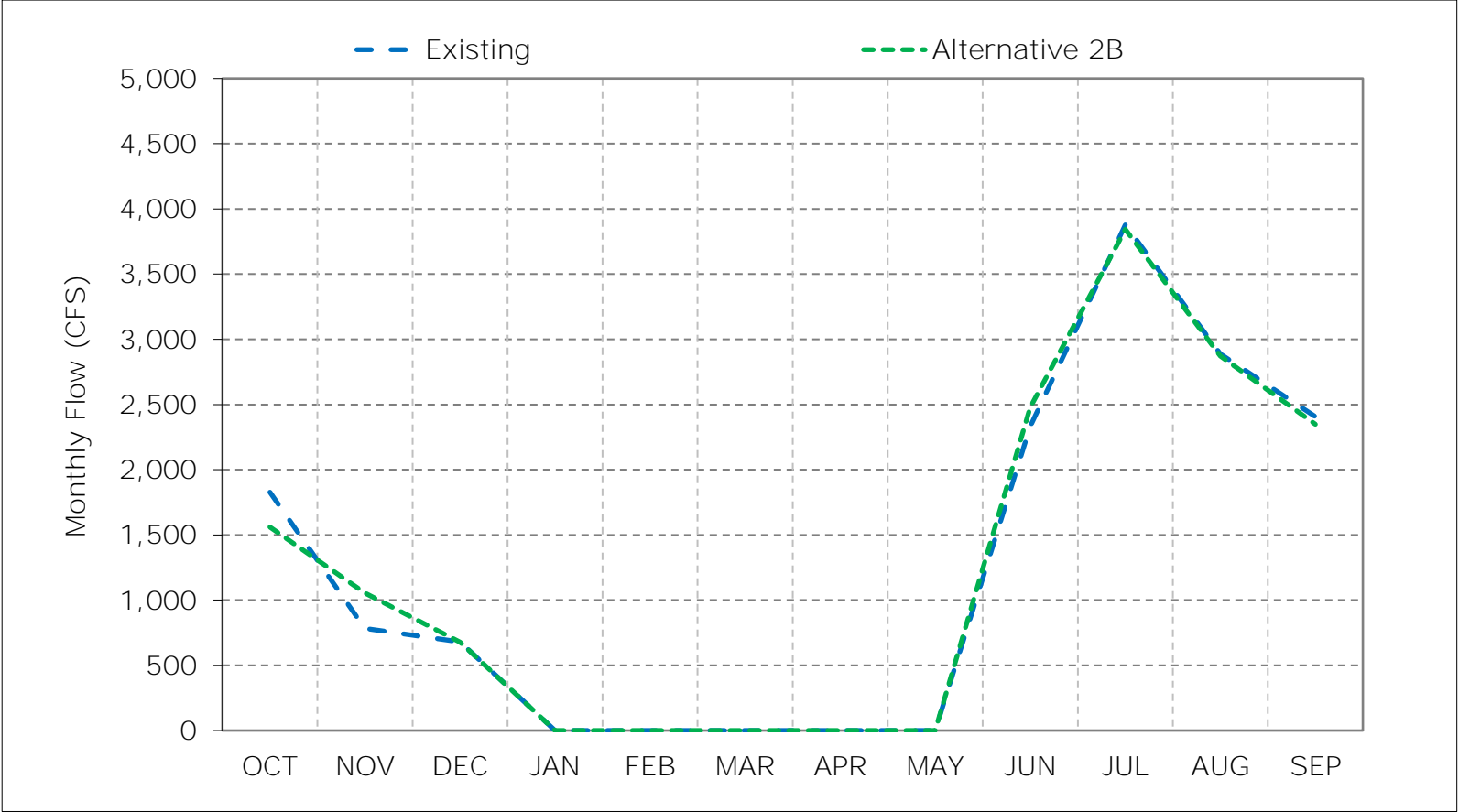
\*These results are displayed with water year - year type sorting.

Figure 2-3. DCC Flow, Above Normal Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

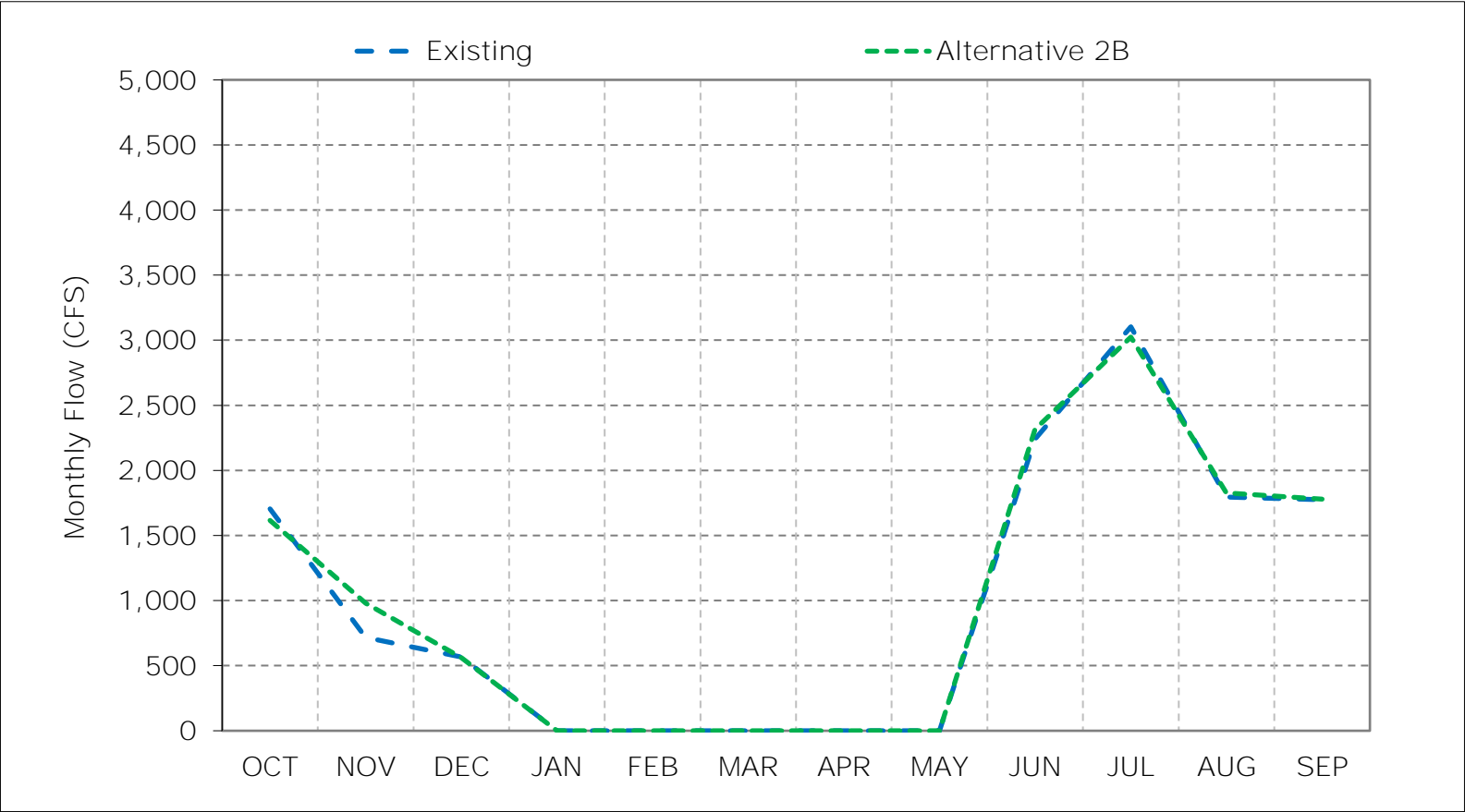
Figure 2-4. DCC Flow, Below Normal Year Average Flow



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.



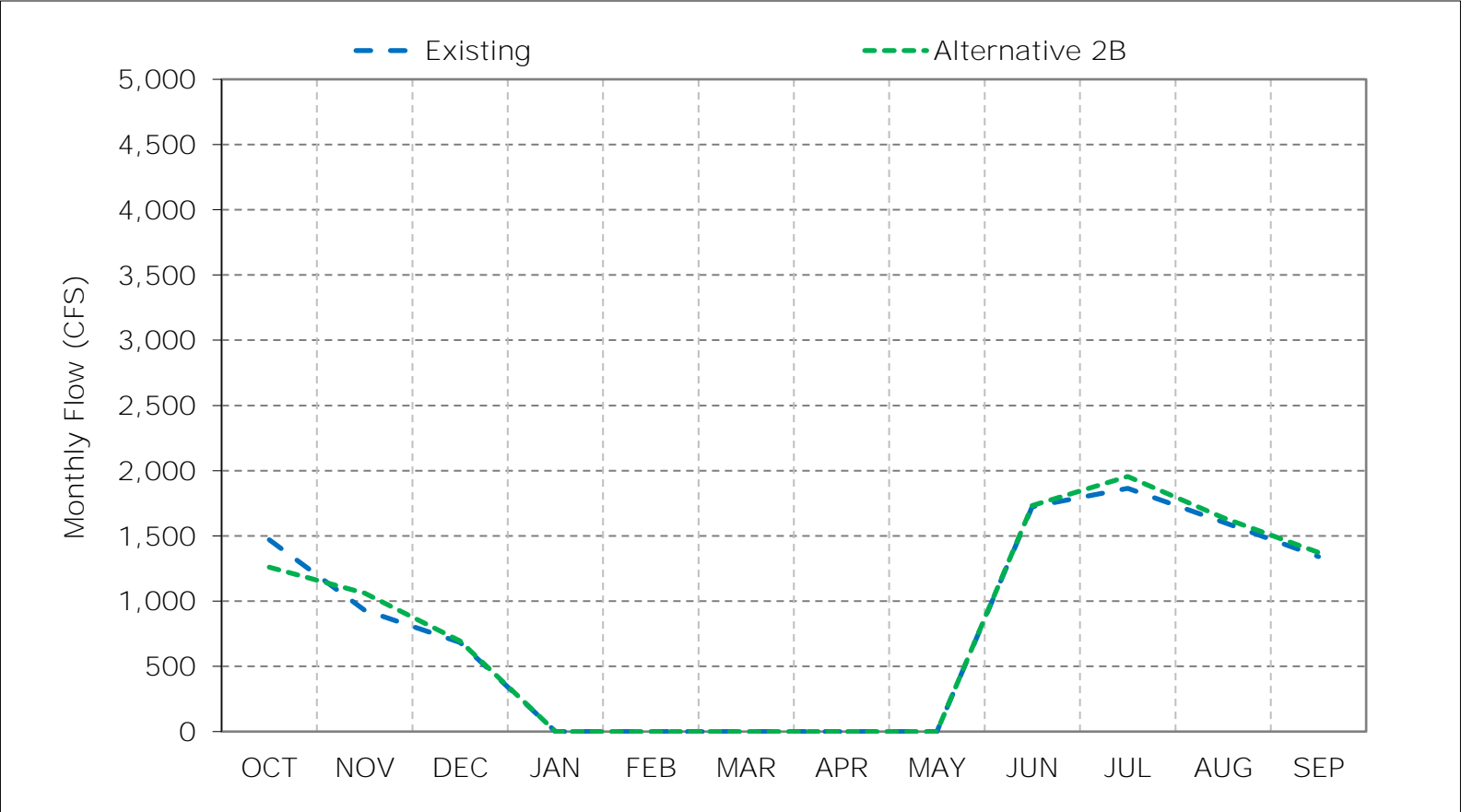
Figure 2-5. DCC Flow, Dry Year Average Flow



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

\*These results are displayed with water year - year type sorting.

Figure 2-6. DCC Flow, Critical Year Average Flow



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

\*These results are displayed with water year - year type sorting.

Figure 2-7. DCC Flow, October

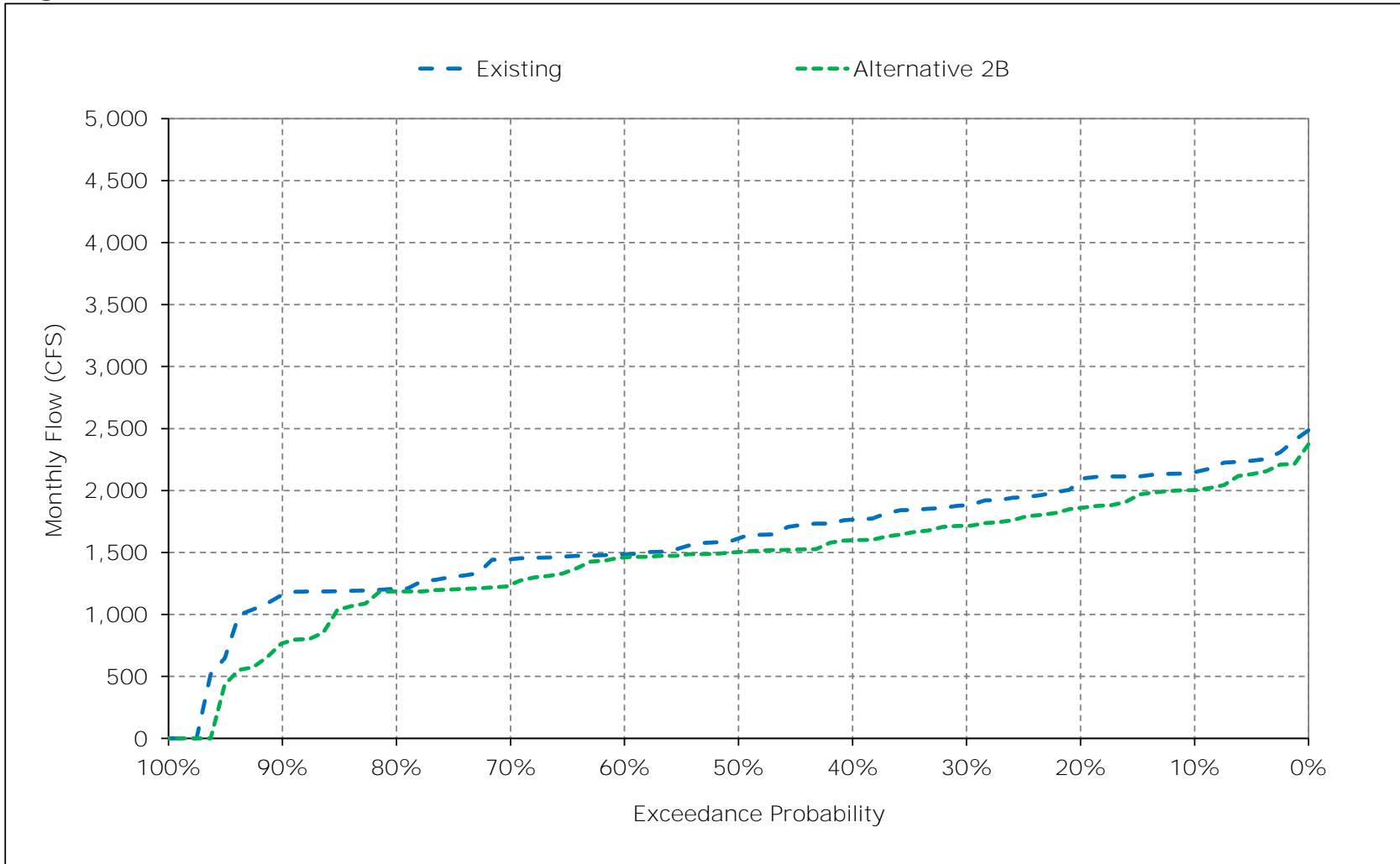


Figure 2-8. DCC Flow, November

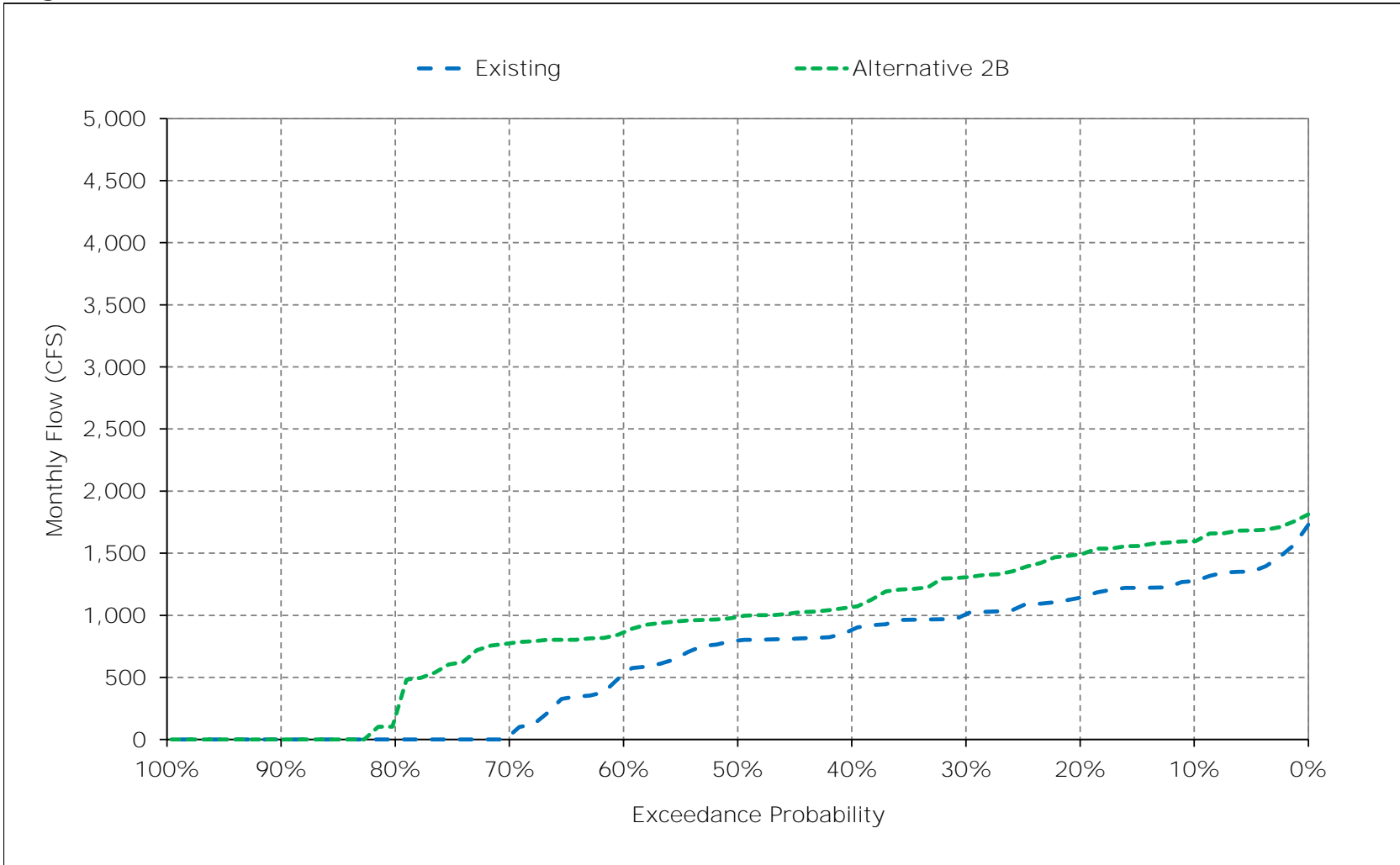


Figure 2-9. DCC Flow, December

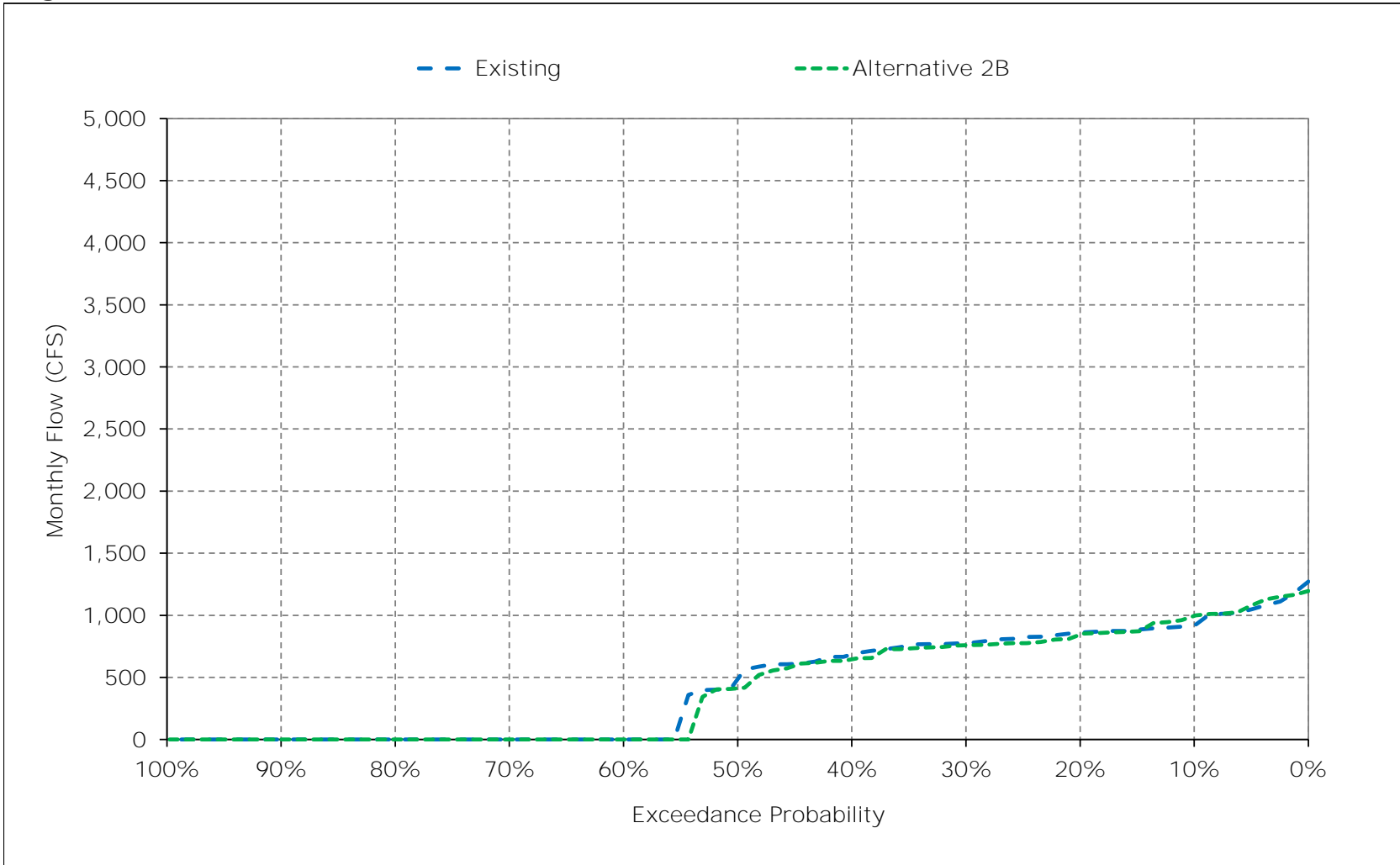


Figure 2-10. DCC Flow, January

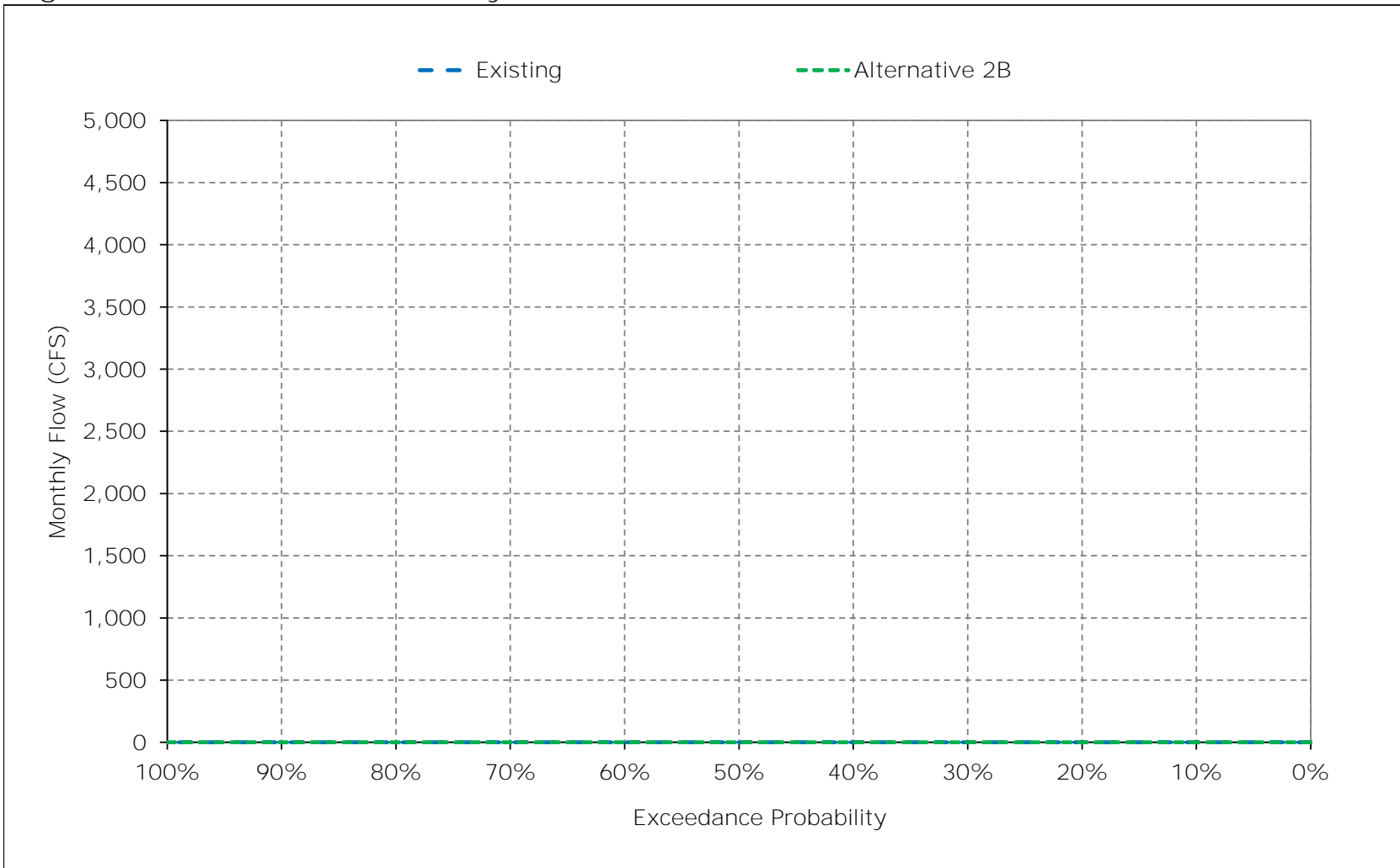


Figure 2-11. DCC Flow, February

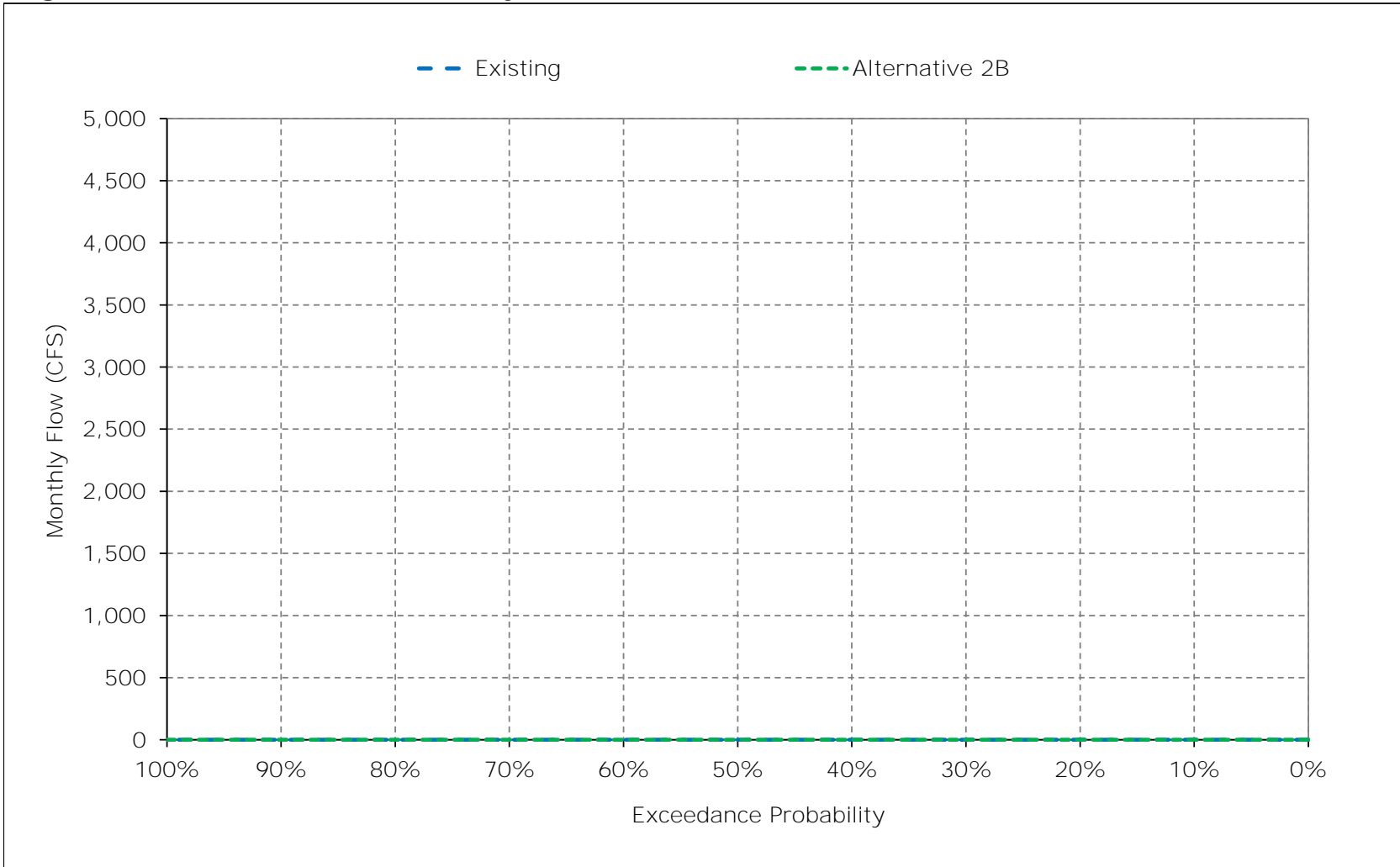


Figure 2-12. DCC Flow, March

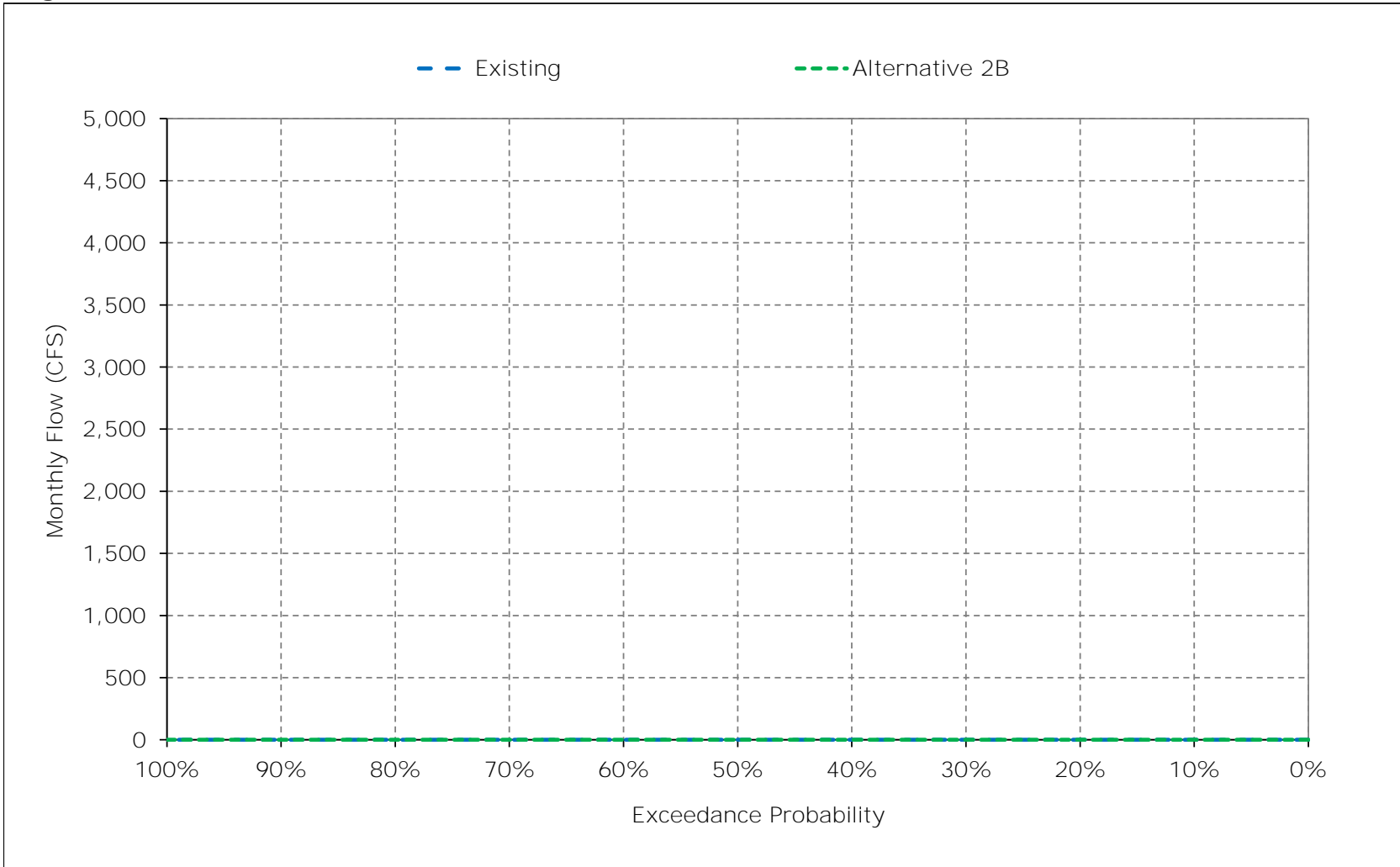




Figure 2-13. DCC Flow, April

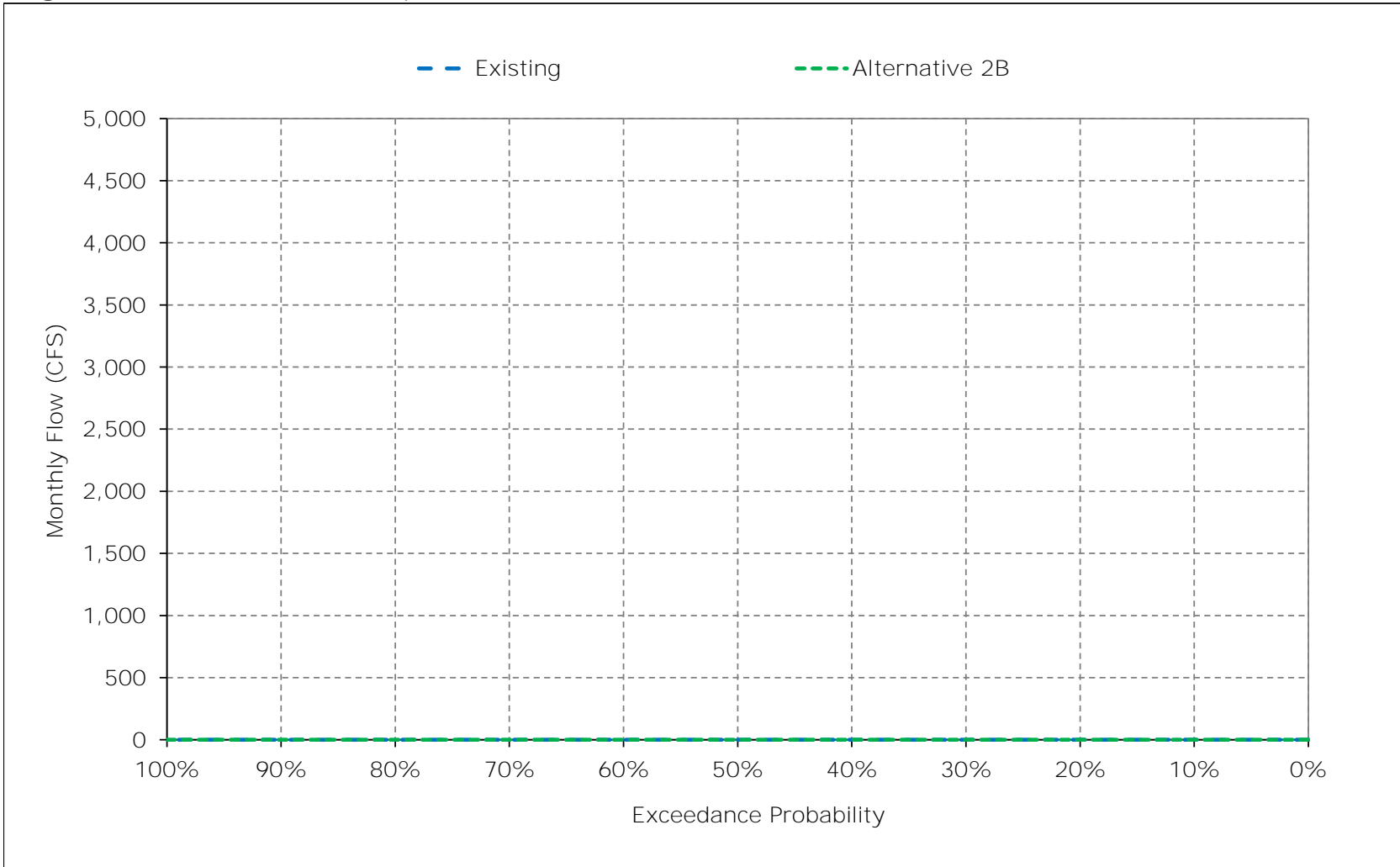


Figure 2-14. DCC Flow, May

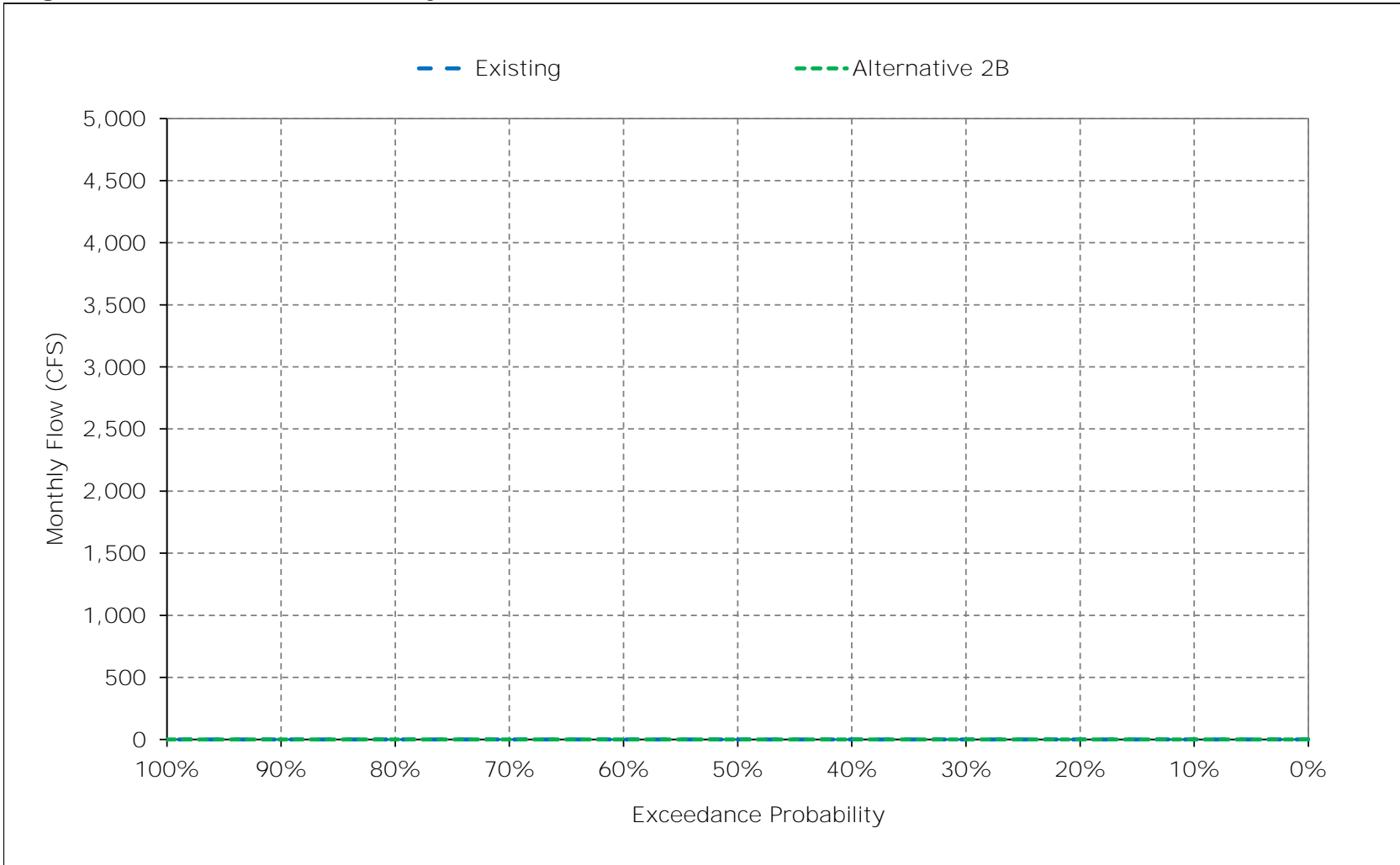


Figure 2-15. DCC Flow, June

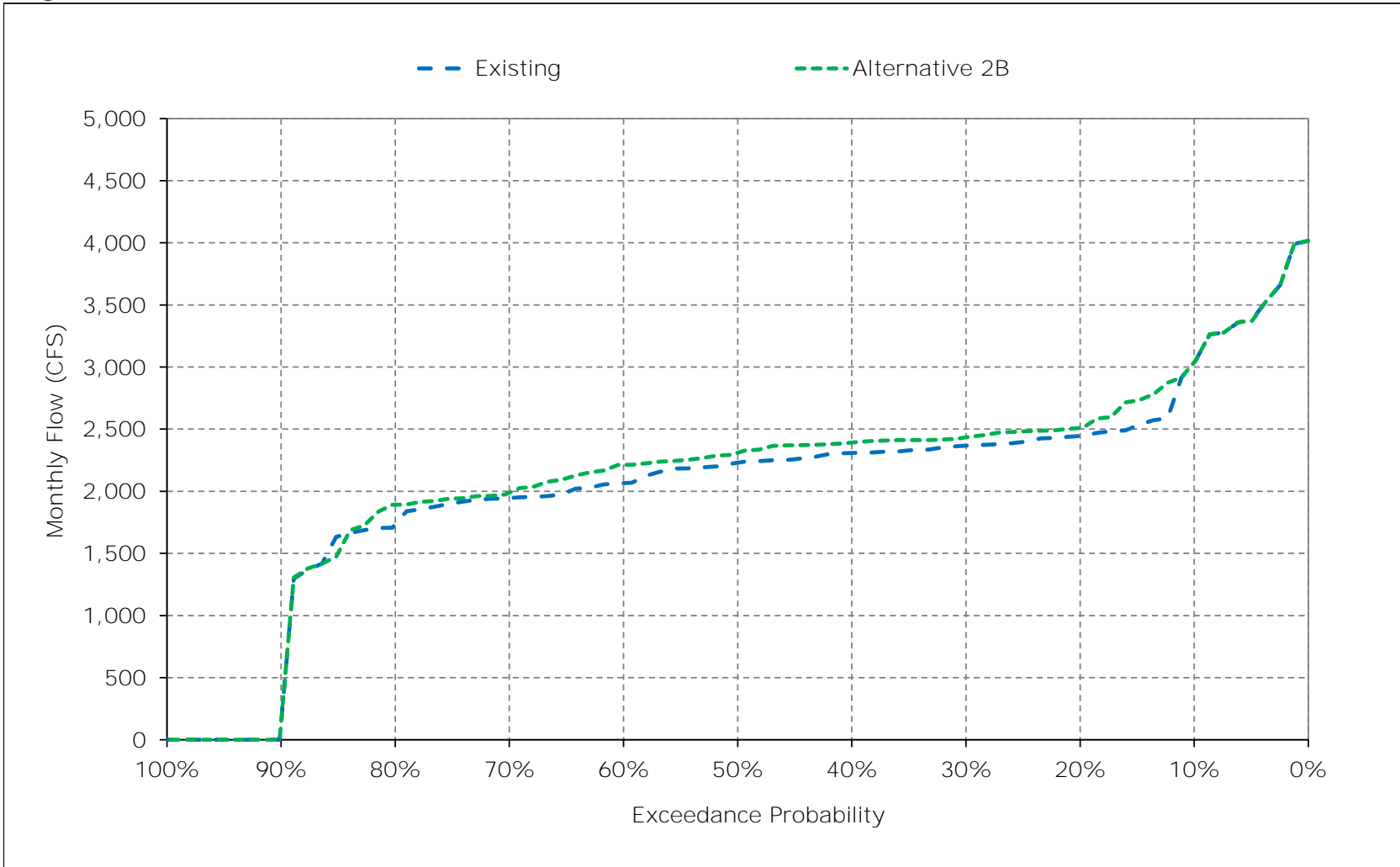


Figure 2-16. DCC Flow, July

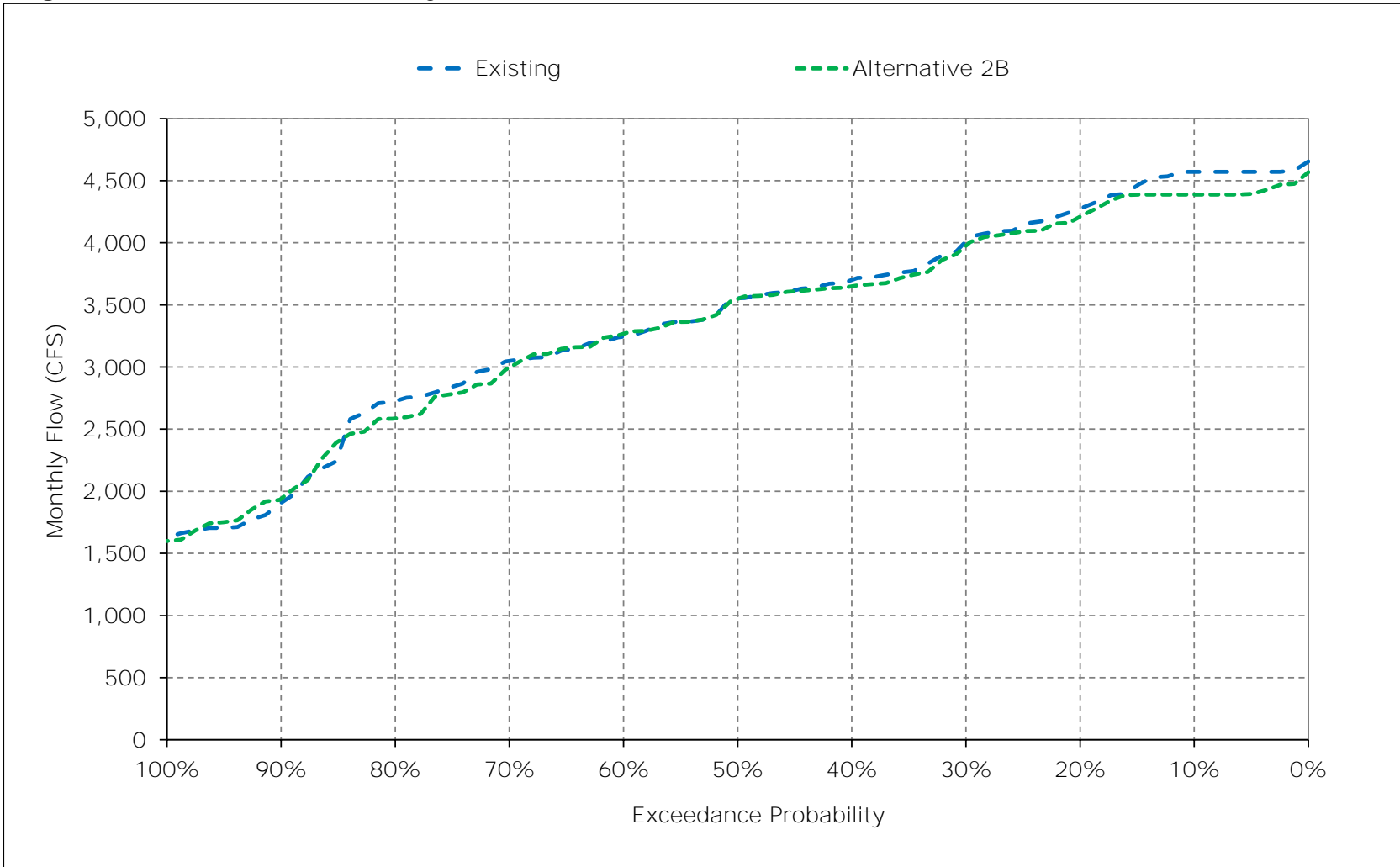


Figure 2-17. DCC Flow, August

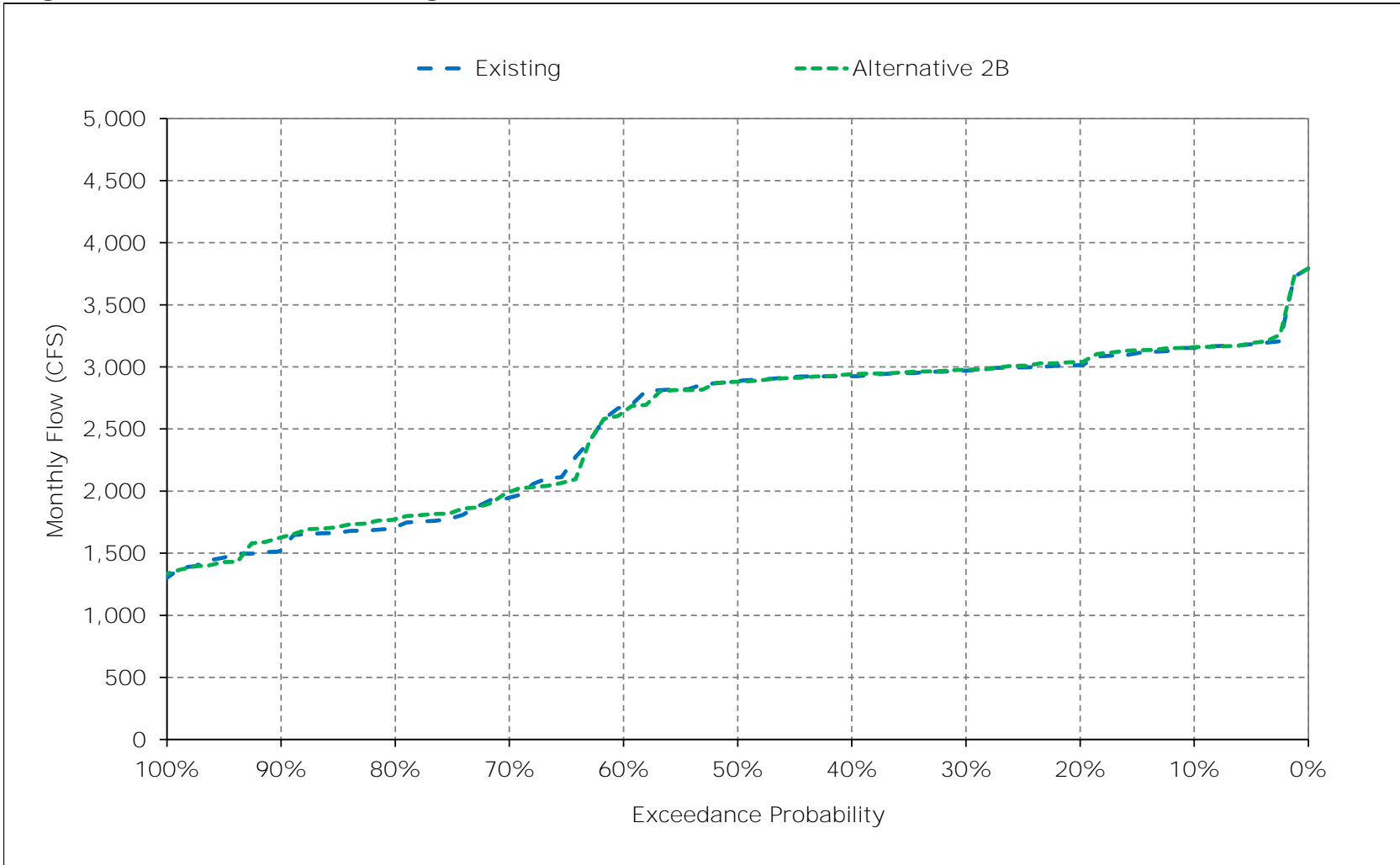


Figure 2-18. DCC Flow, September

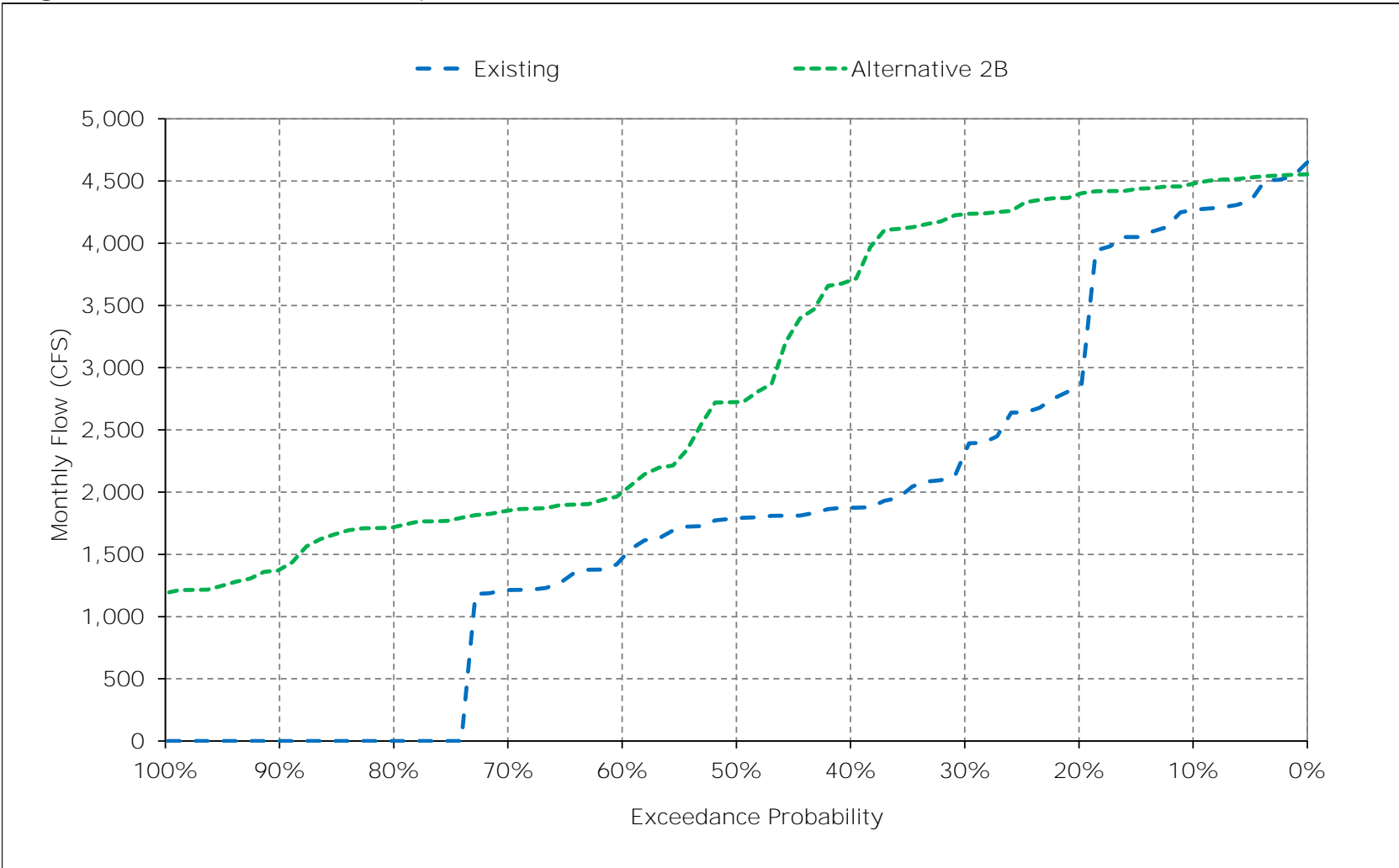


Table 3-1. Total Delta Exports, Monthly Delivery

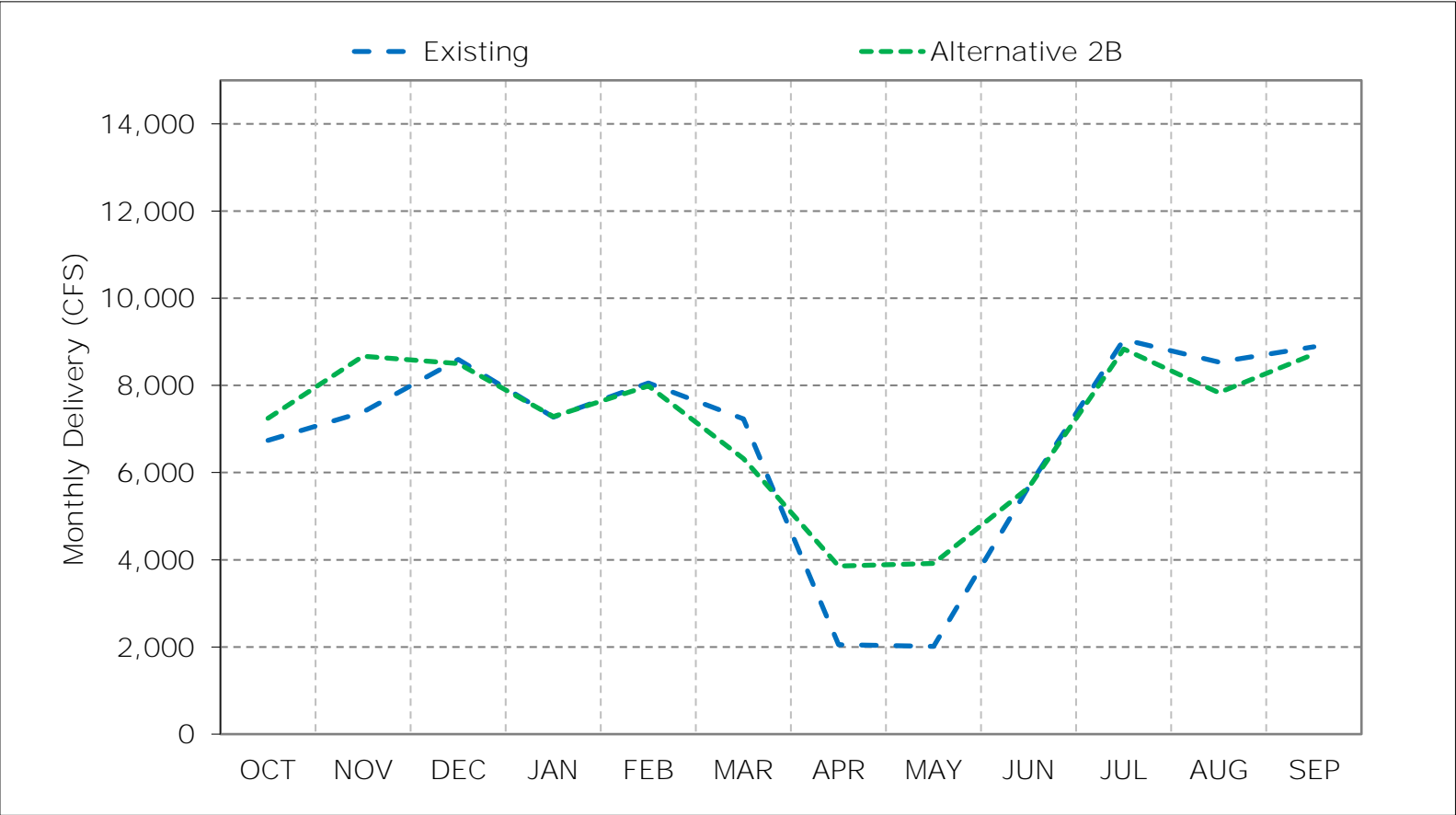
Existing												
Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,505	11,280	11,672	10,061	12,003	10,316	3,006	2,765	8,910	11,483	11,629	11,280
20%	8,355	10,656	11,620	8,032	9,639	9,196	2,231	1,956	6,968	11,338	11,569	11,280
30%	7,633	8,681	10,027	7,159	8,359	8,719	1,970	1,698	5,734	11,280	11,363	11,206
40%	7,193	7,557	8,942	6,890	7,752	7,282	1,790	1,514	5,587	11,140	11,280	11,115
50%	6,672	7,183	8,016	6,749	7,108	6,587	1,625	1,500	5,319	10,475	10,858	10,419
60%	5,945	6,628	7,390	6,549	6,703	6,104	1,500	1,500	5,053	9,917	10,057	8,592
70%	5,628	6,008	7,197	6,453	6,576	5,823	1,500	1,500	4,907	8,976	5,344	7,062
80%	5,093	4,950	6,685	6,180	6,419	5,545	1,500	1,500	4,670	7,186	4,136	6,579
90%	4,332	4,216	5,939	5,204	6,063	4,720	1,500	1,500	2,900	2,468	3,201	3,927
Long Term												
Full Simulation Period <sup>a</sup>	6,738	7,386	8,593	7,274	8,058	7,232	2,053	2,013	5,677	9,053	8,537	8,885
Water Year Types <sup>b,c</sup>												
Wet (32%)	7,370	8,515	8,705	8,773	9,741	9,395	2,791	2,861	7,690	11,211	11,501	11,092
Above Normal (15%)	6,560	7,164	9,463	7,134	8,319	7,873	1,765	1,639	6,253	10,328	11,350	11,102
Below Normal (17%)	6,739	7,696	8,931	6,680	8,176	7,197	1,651	1,580	5,366	10,518	10,293	9,805
Dry (22%)	6,572	7,130	8,672	6,573	6,552	5,843	1,813	1,621	4,684	8,247	4,413	6,754
Critical (15%)	5,790	5,184	6,966	5,907	6,271	4,027	1,570	1,644	2,592	2,603	3,439	4,011
Alternative 2B												
Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10,549	11,280	11,665	10,061	11,267	10,030	6,995	7,639	8,907	11,374	10,756	11,280
20%	9,225	11,280	11,156	8,069	9,251	7,874	5,811	4,838	6,919	11,280	10,016	11,280
30%	8,689	11,280	10,094	7,263	8,551	7,312	4,310	4,082	5,595	10,999	9,950	11,280
40%	8,282	10,998	8,973	7,110	7,886	5,979	3,875	3,880	5,378	10,718	9,875	11,170
50%	7,446	10,055	7,969	6,904	7,264	5,640	3,370	3,518	5,199	10,134	9,654	9,574
60%	6,443	8,043	7,324	6,756	6,756	5,348	3,103	3,359	5,054	9,666	9,224	7,401
70%	5,639	6,624	6,954	6,535	6,544	4,921	2,611	2,944	4,860	8,662	5,526	6,942
80%	5,136	5,722	6,646	6,108	6,294	4,610	2,251	2,283	4,694	6,101	4,371	6,385
90%	4,044	4,281	5,702	5,549	6,067	4,333	1,746	1,980	2,884	3,096	3,373	4,085
Long Term												
Full Simulation Period <sup>a</sup>	7,243	8,673	8,501	7,286	7,988	6,319	3,856	3,916	5,656	8,835	7,835	8,714
Water Year Types <sup>b,c</sup>												
Wet (32%)	8,163	10,132	8,704	8,681	9,484	8,370	5,695	5,568	7,602	10,994	9,854	10,618
Above Normal (15%)	7,120	8,015	8,899	7,200	8,067	6,751	4,102	4,257	6,162	10,297	9,794	11,056
Below Normal (17%)	7,438	9,054	8,822	6,834	8,285	5,994	3,614	3,725	5,298	10,008	10,192	9,554
Dry (22%)	6,828	8,179	8,952	6,797	6,688	4,786	2,737	2,794	4,824	7,803	4,631	6,762
Critical (15%)	5,766	6,463	6,609	5,613	6,267	4,120	1,585	1,901	2,600	2,873	3,557	4,197
Alternative 2B minus Existing												
Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,043	0	-7	0	-736	-286	3,989	4,874	-3	-108	-874	0
20%	870	624	-464	37	-388	-1,321	3,580	2,882	-50	-58	-1,553	0
30%	1,057	2,599	67	104	192	-1,407	2,341	2,384	-139	-281	-1,413	74
40%	1,089	3,442	31	221	134	-1,303	2,084	2,366	-209	-422	-1,405	55
50%	774	2,872	-47	155	156	-947	1,745	2,018	-120	-341	-1,205	-846
60%	498	1,416	-66	207	53	-756	1,603	1,859	1	-250	-834	-1,191
70%	10	616	-243	83	-32	-901	1,111	1,444	-47	-314	182	-119
80%	43	772	-39	-72	-125	-935	751	783	24	-1,085	235	-193
90%	-288	65	-237	345	4	-387	246	480	-16	628	172	159
Long Term												
Full Simulation Period <sup>a</sup>	505	1,286	-92	13	-70	-913	1,803	1,903	-21	-219	-702	-171
Water Year Types <sup>b,c</sup>												
Wet (32%)	793	1,617	-1	-92	-257	-1,025	2,904	2,706	-88	-217	-1,646	-475
Above Normal (15%)	559	851	-563	65	-251	-1,122	2,337	2,618	-91	-31	-1,556	-46
Below Normal (17%)	699	1,358	-108	154	109	-1,203	1,963	2,146	-68	-510	-102	-251
Dry (22%)	256	1,049	280	224	136	-1,058	924	1,173	140	-444	217	8
Critical (15%)	-23	1,279	-357	-294	-3	93	14	256	8	270	118	186

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 water year - year type sorting.

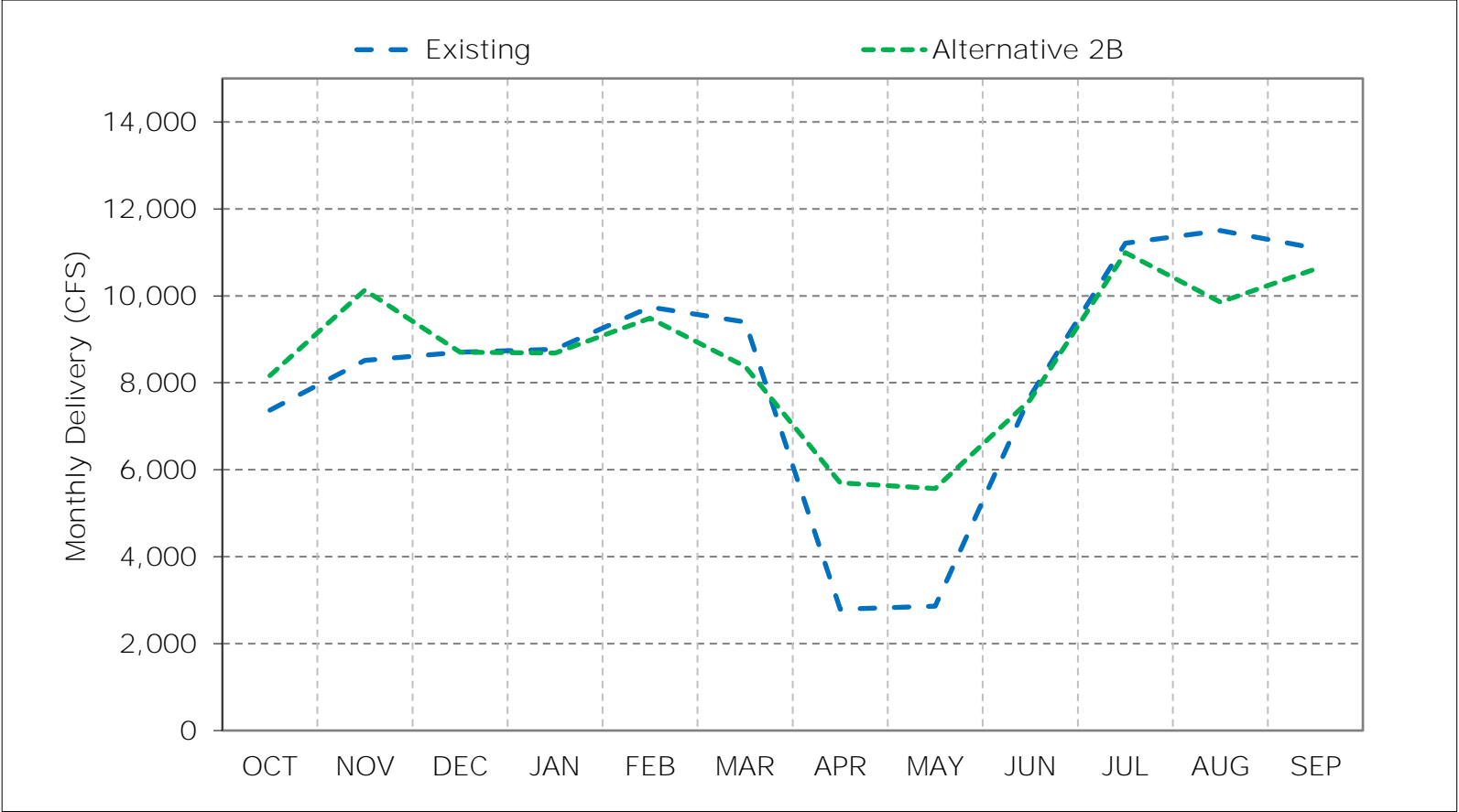
Figure 3-1. Total Delta Exports, Long-Term Average Delivery



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

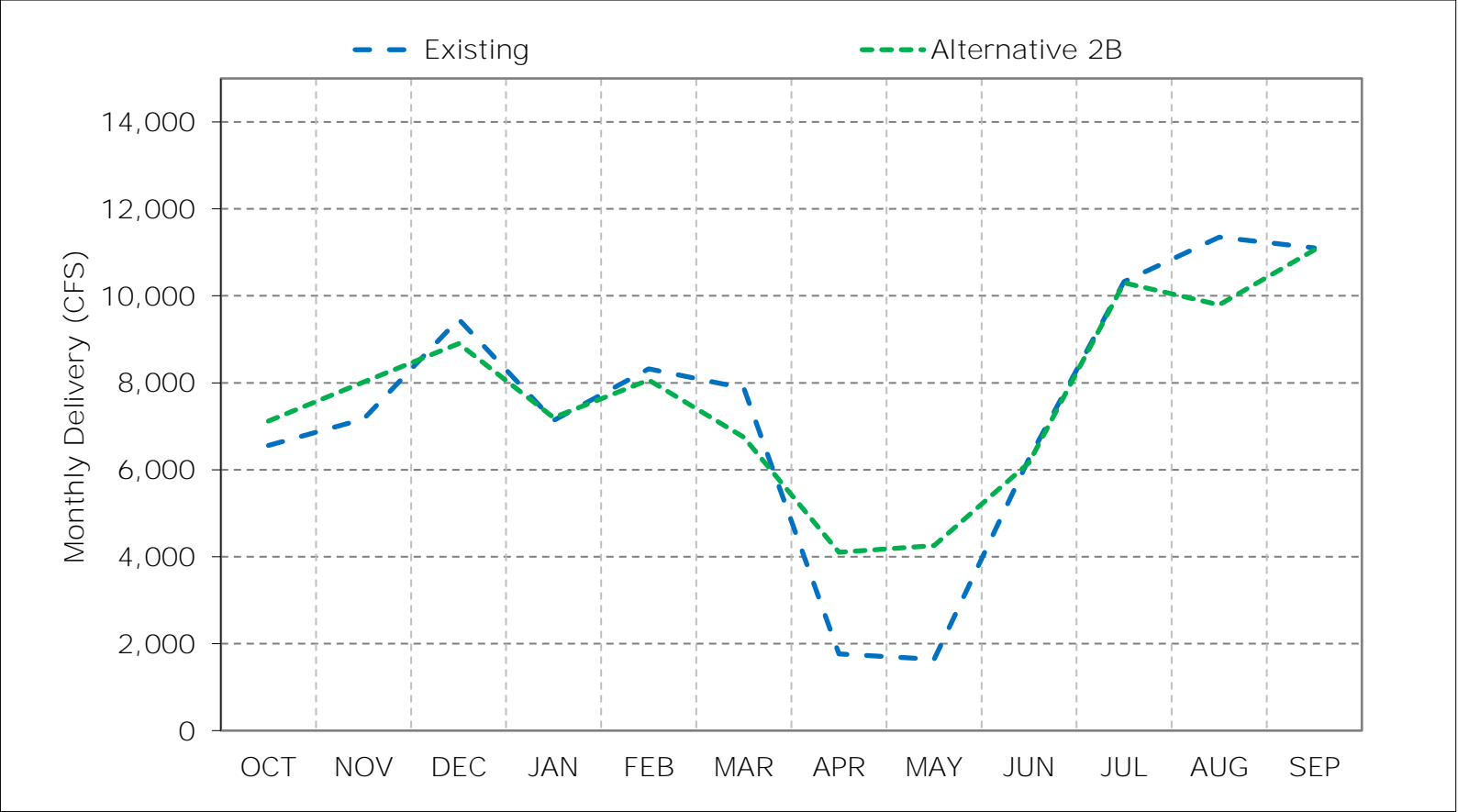


Figure 3-2. Total Delta Exports, Wet Year Average Delivery



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

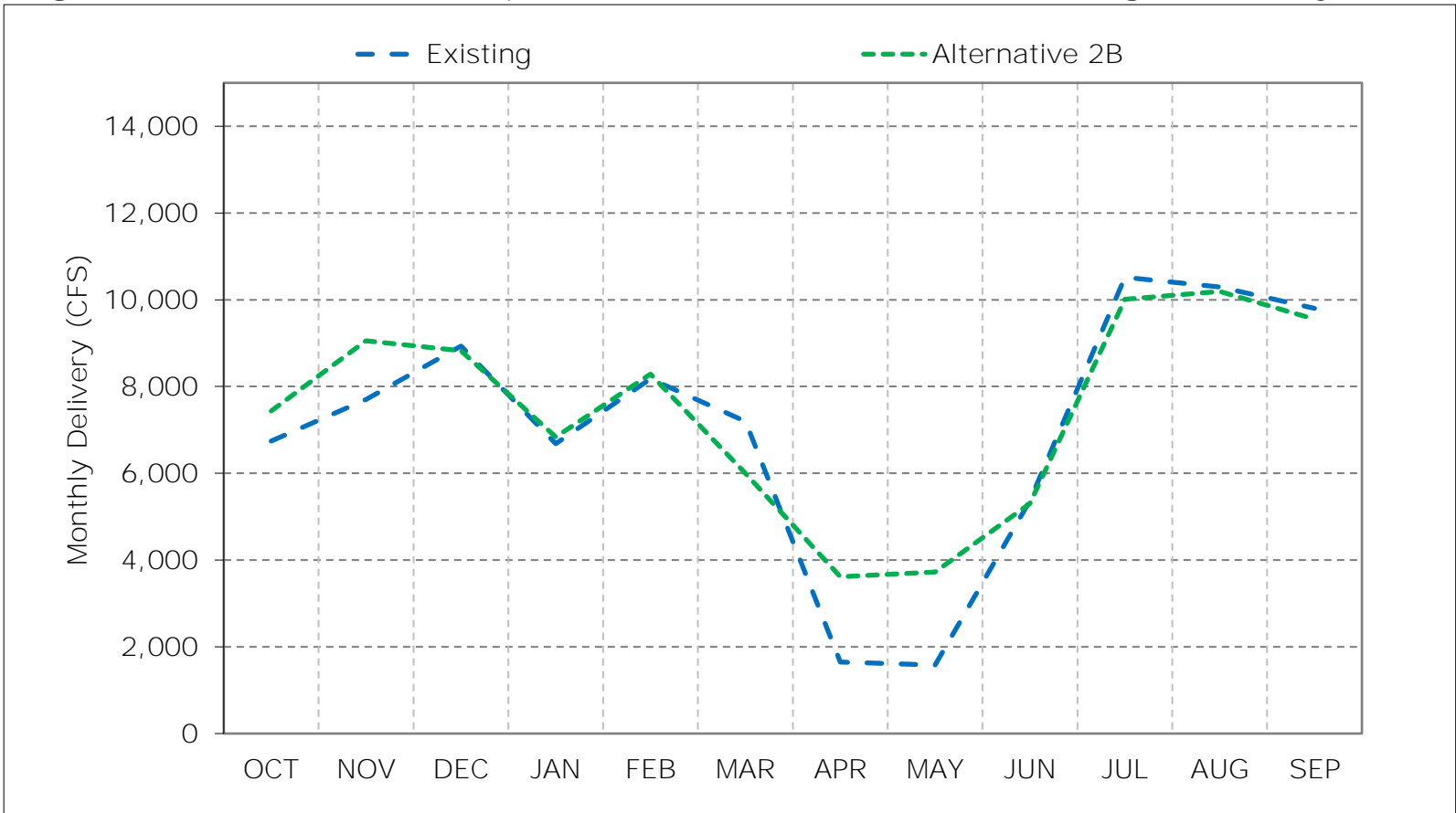
Figure 3-3. Total Delta Exports, Above Normal Year Average Delivery



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

\*These results are displayed with water year - year type sorting.

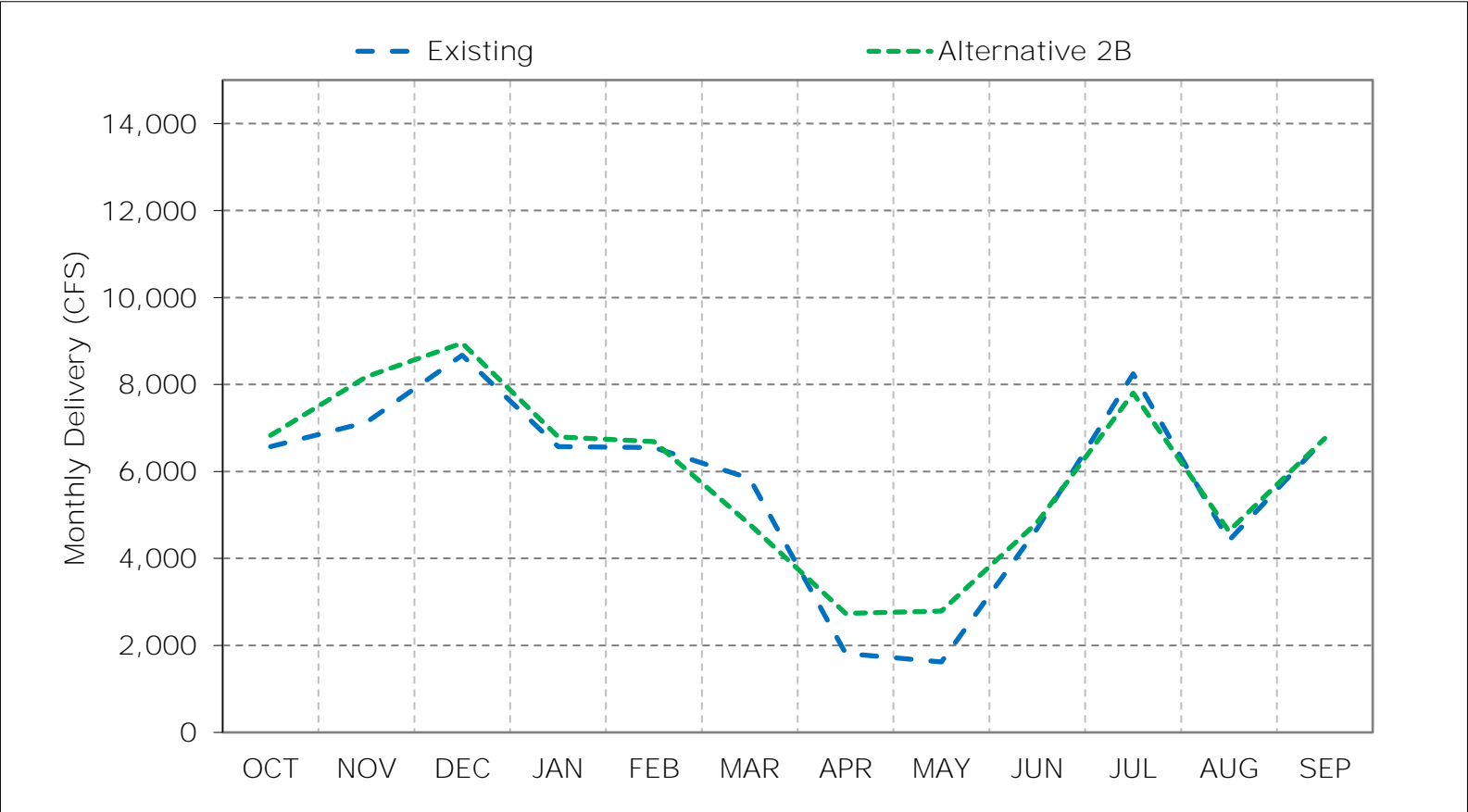
Figure 3-4. Total Delta Exports, Below Normal Year Average Delivery



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

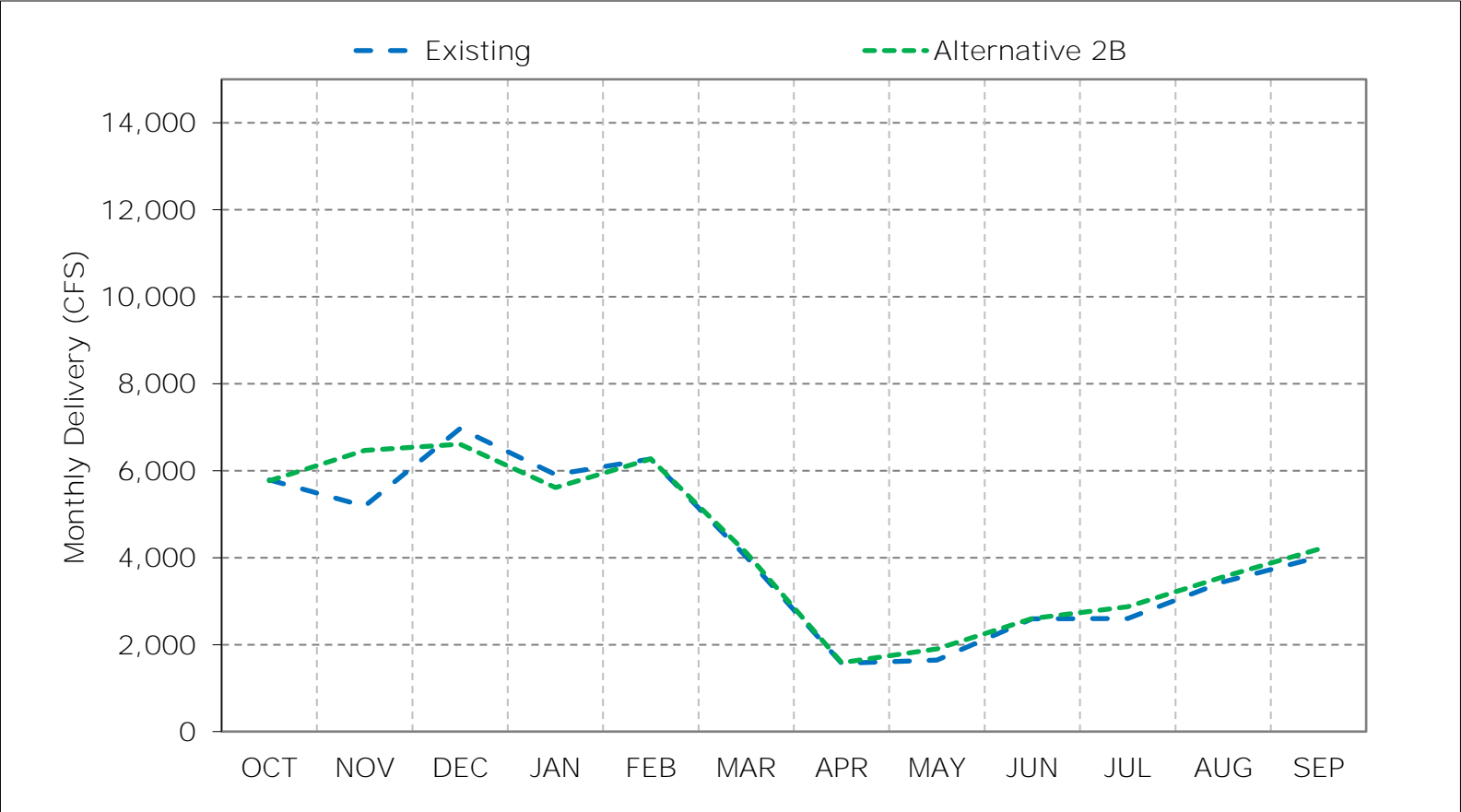
\*These results are displayed with water year - year type sorting.

Figure 3-5. Total Delta Exports, Dry Year Average Delivery



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 3-6. Total Delta Exports, Critical Year Average Delivery



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

\*These results are displayed with water year - year type sorting.

Figure 3-7. Total Delta Exports, October

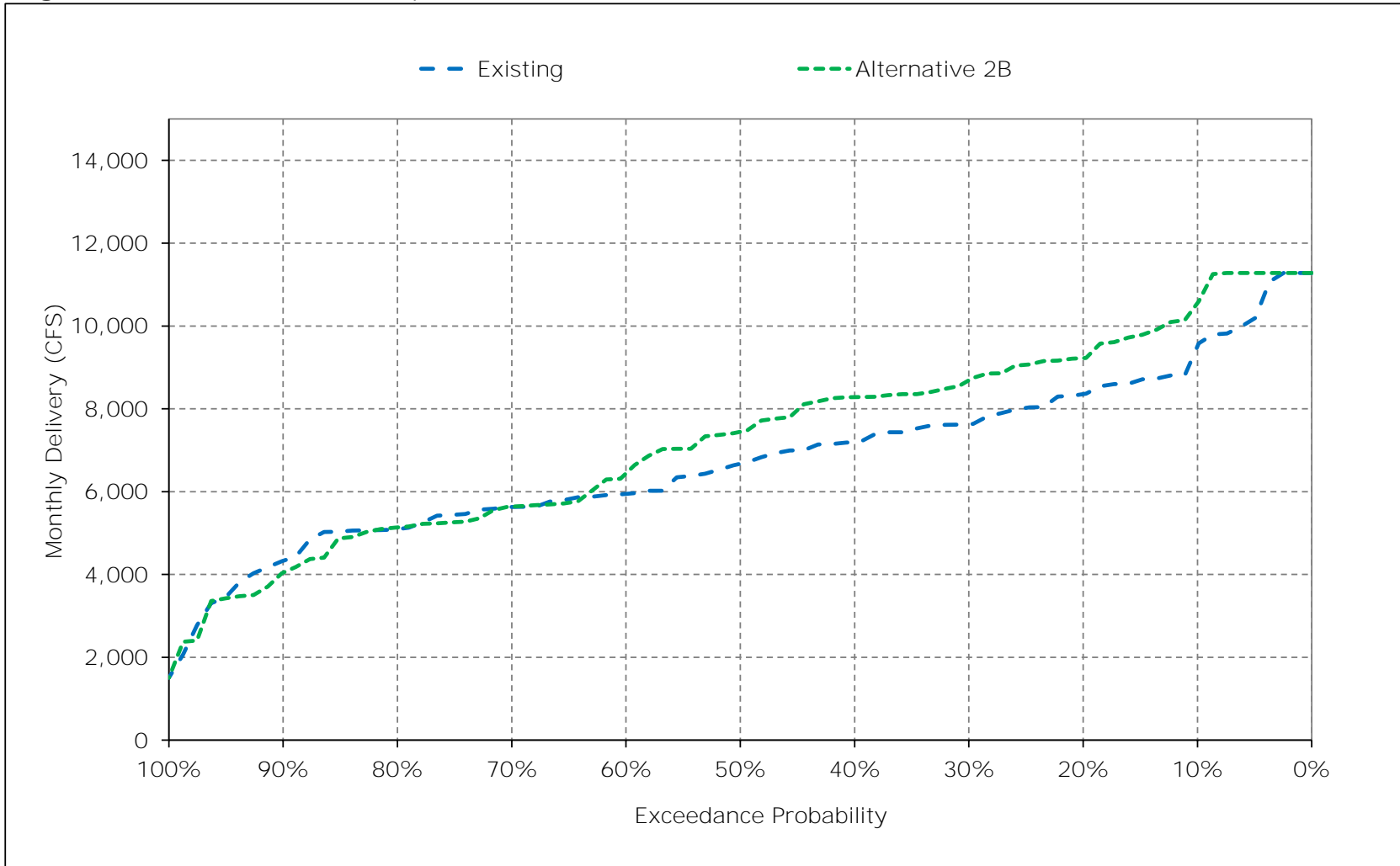


Figure 3-8. Total Delta Exports, November

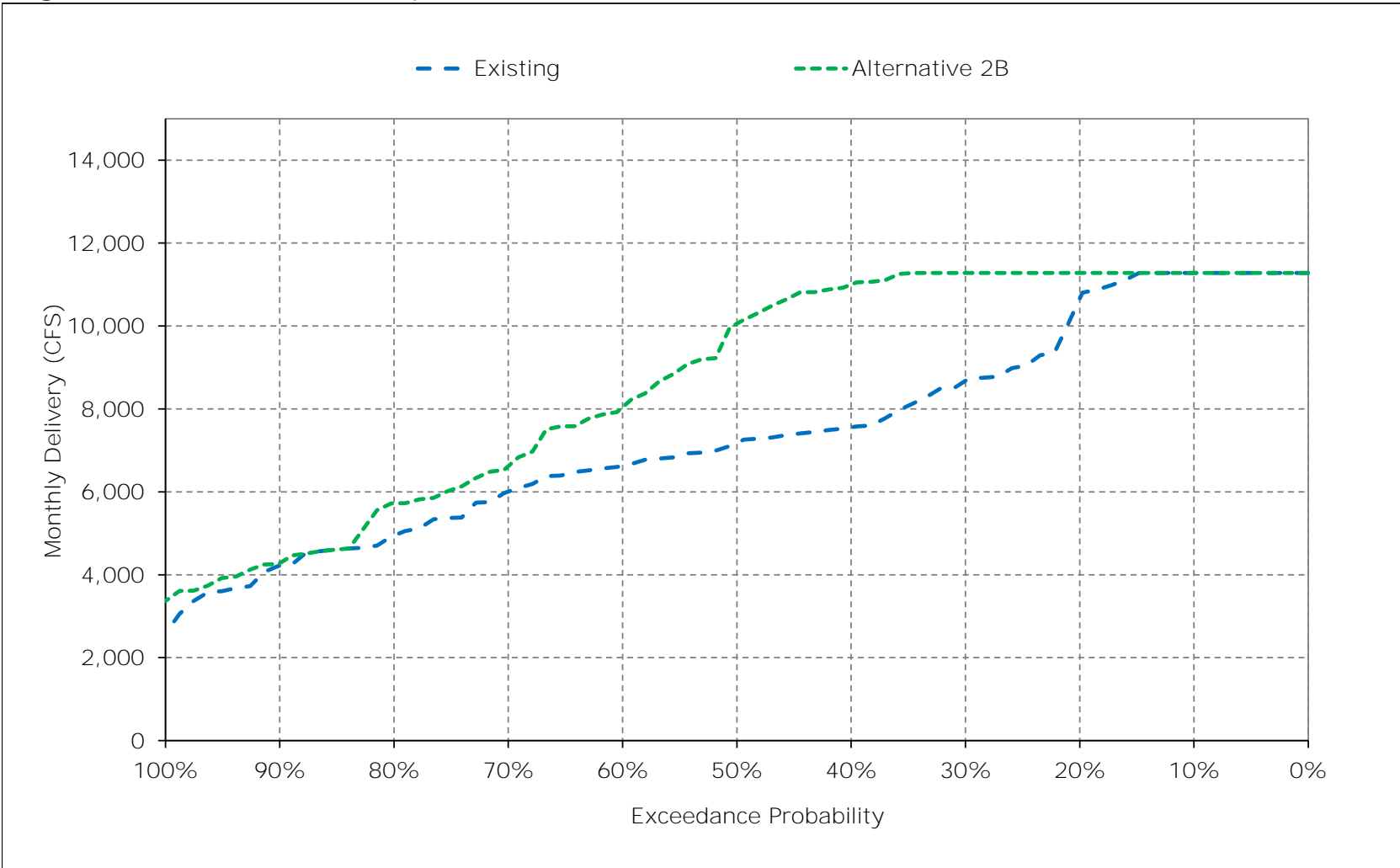


Figure 3-9. Total Delta Exports, December

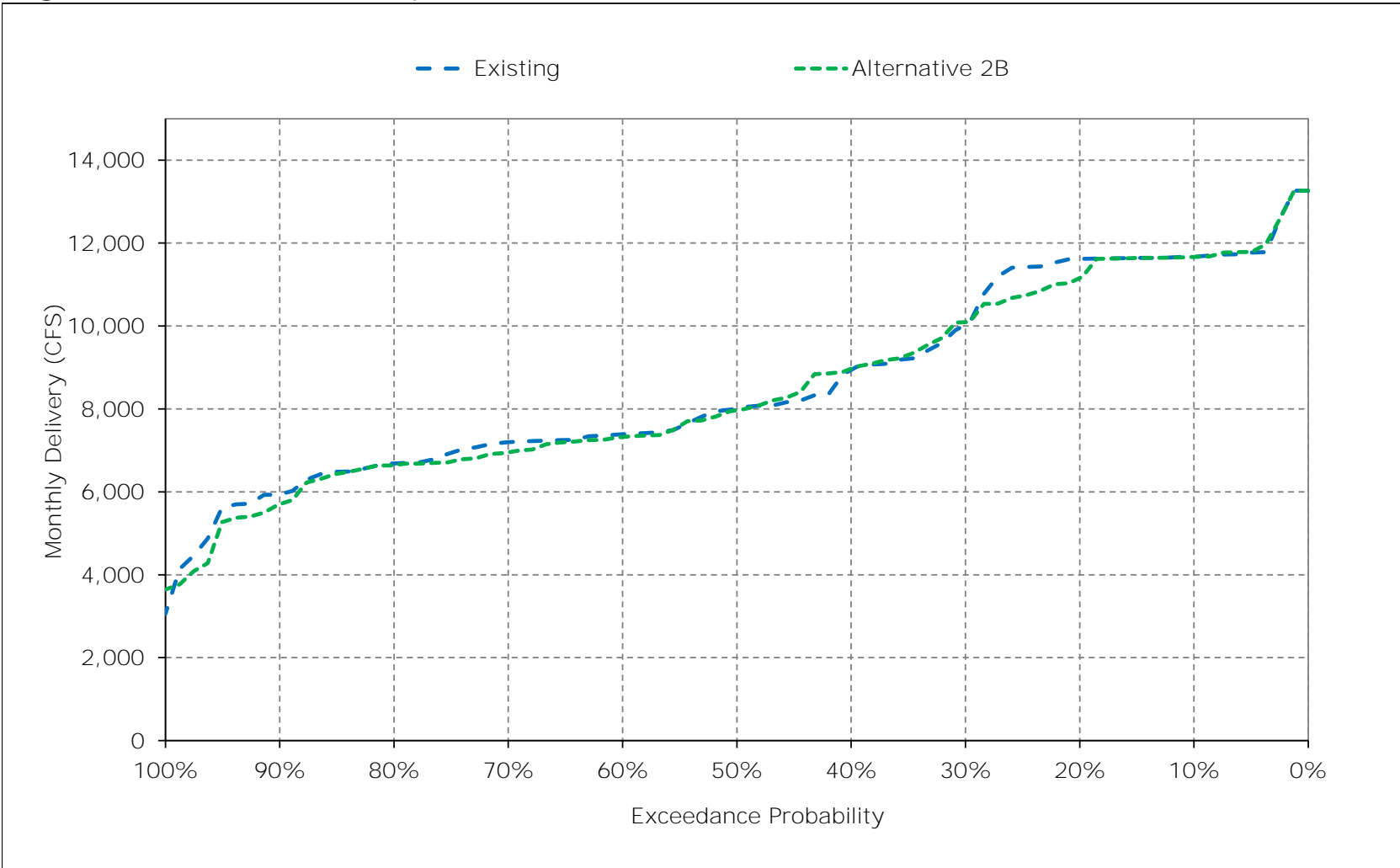




Figure 3-10. Total Delta Exports, January

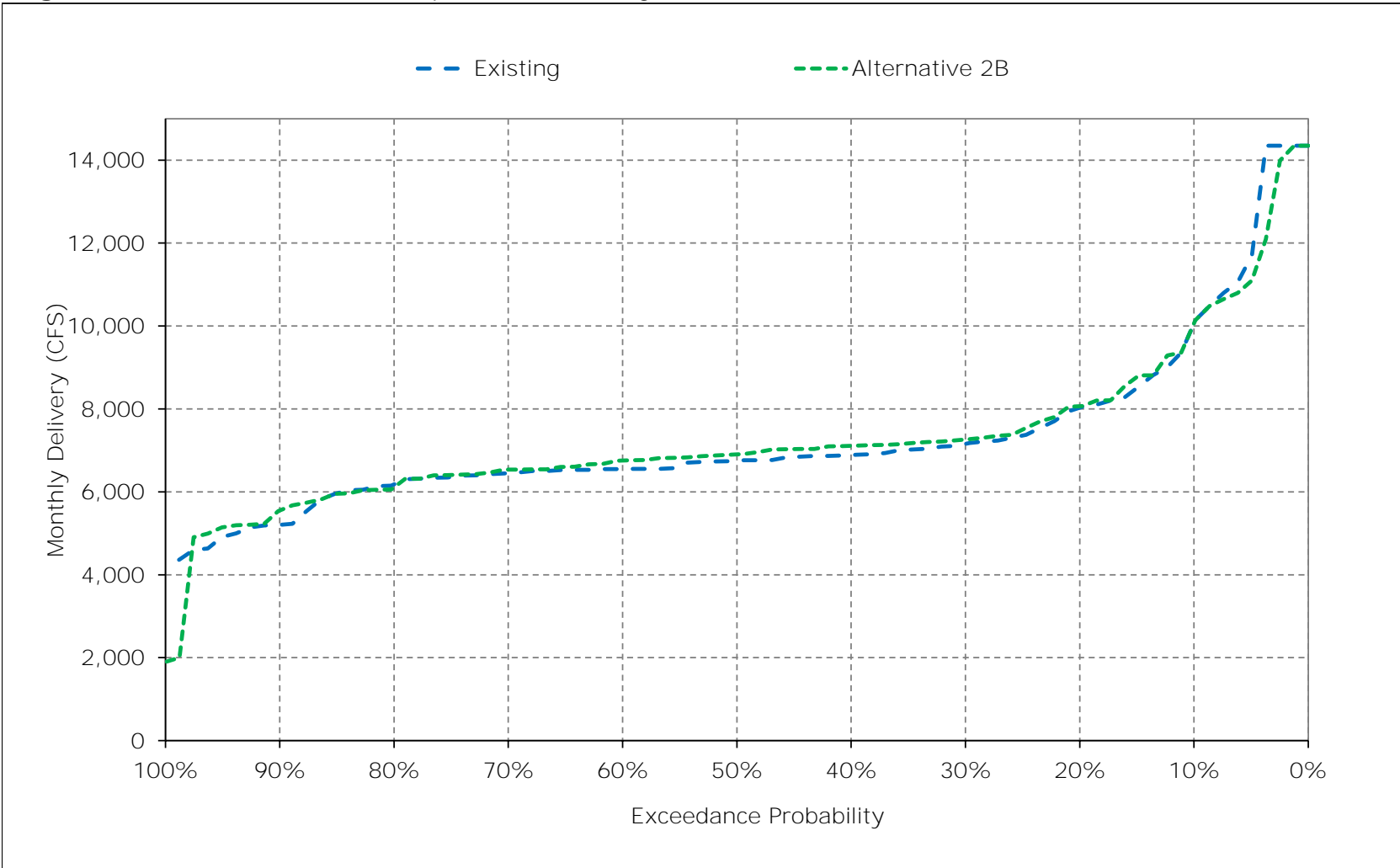


Figure 3-11. Total Delta Exports, February

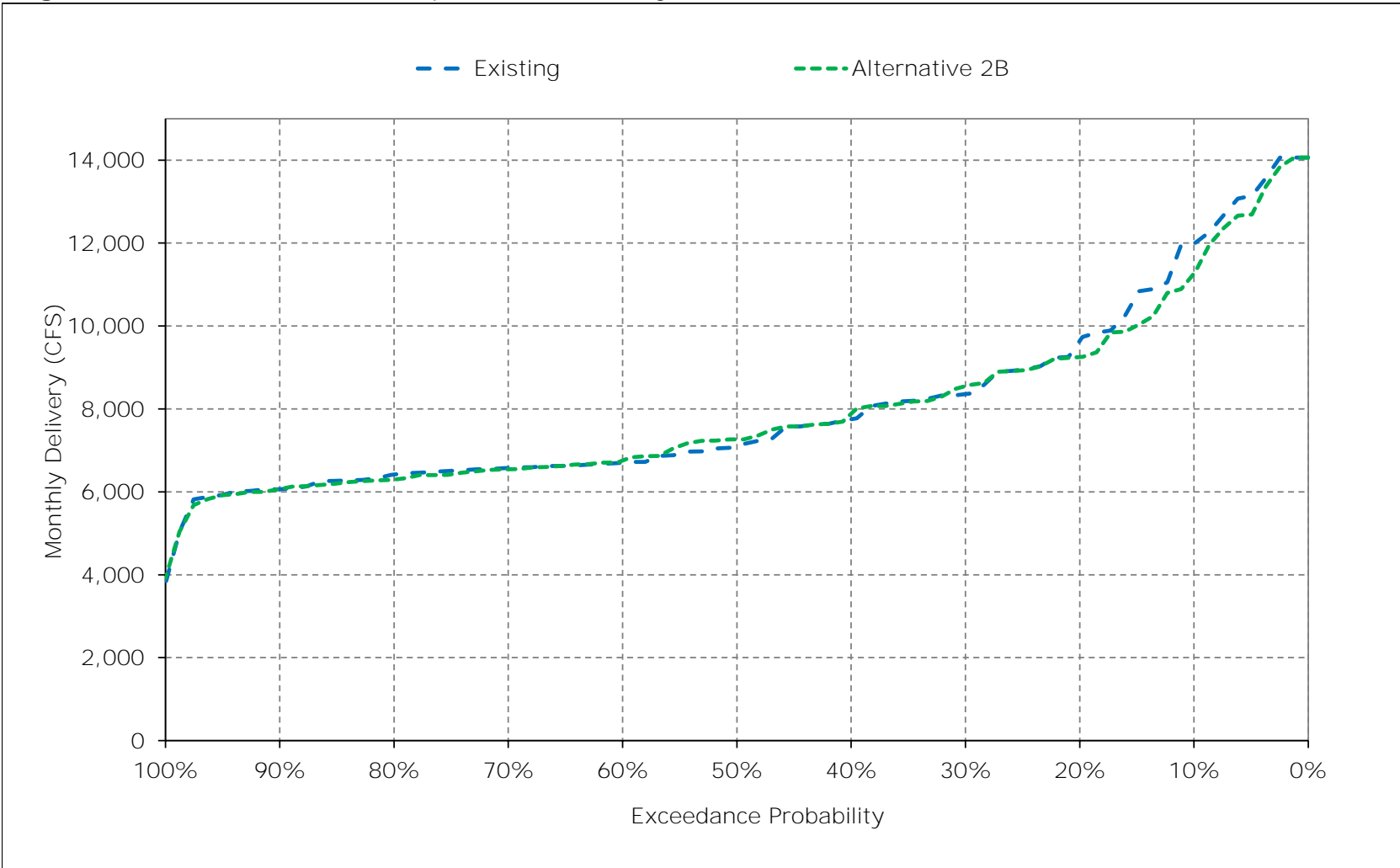


Figure 3-12. Total Delta Exports, March

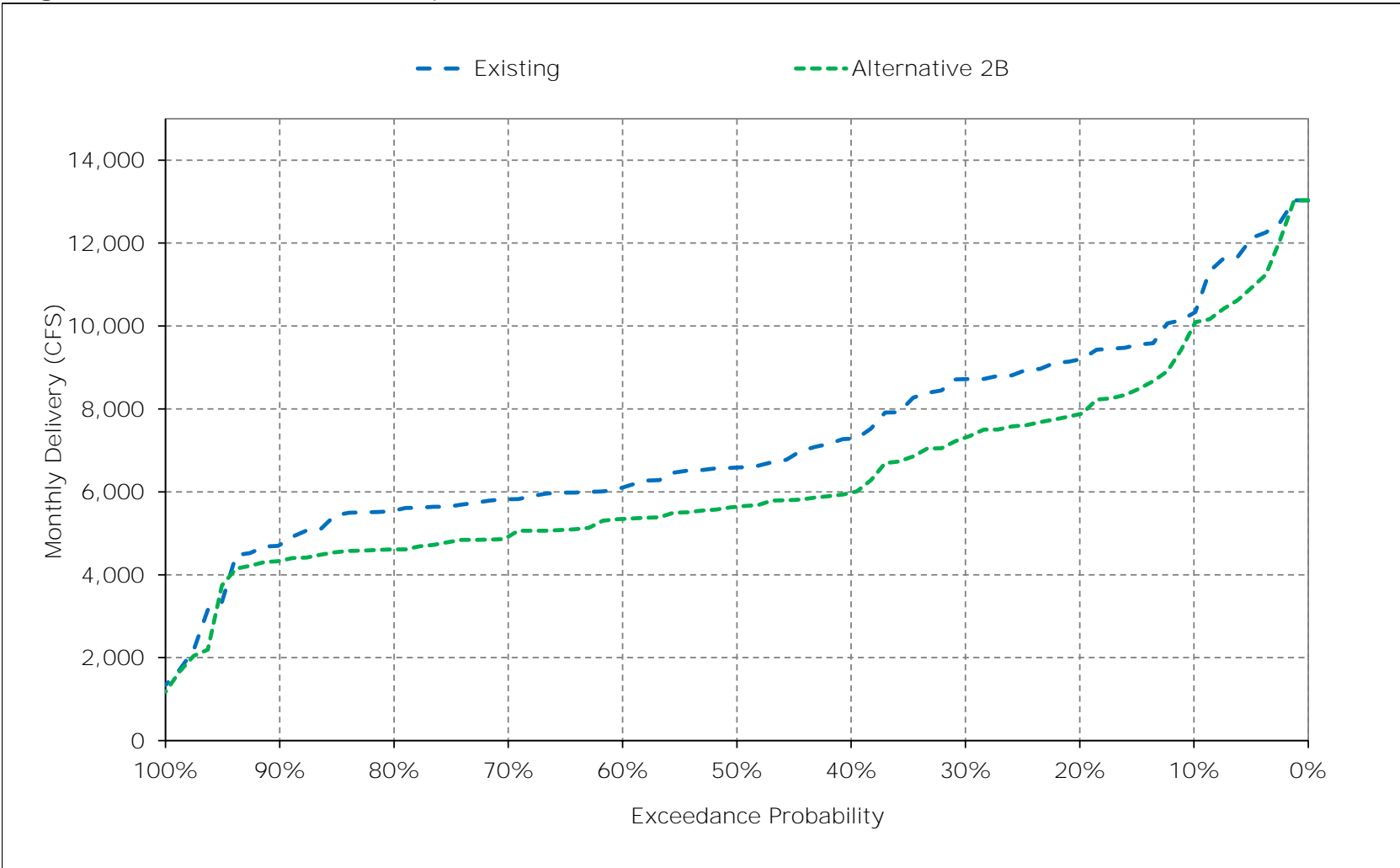


Figure 3-13. Total Delta Exports, April

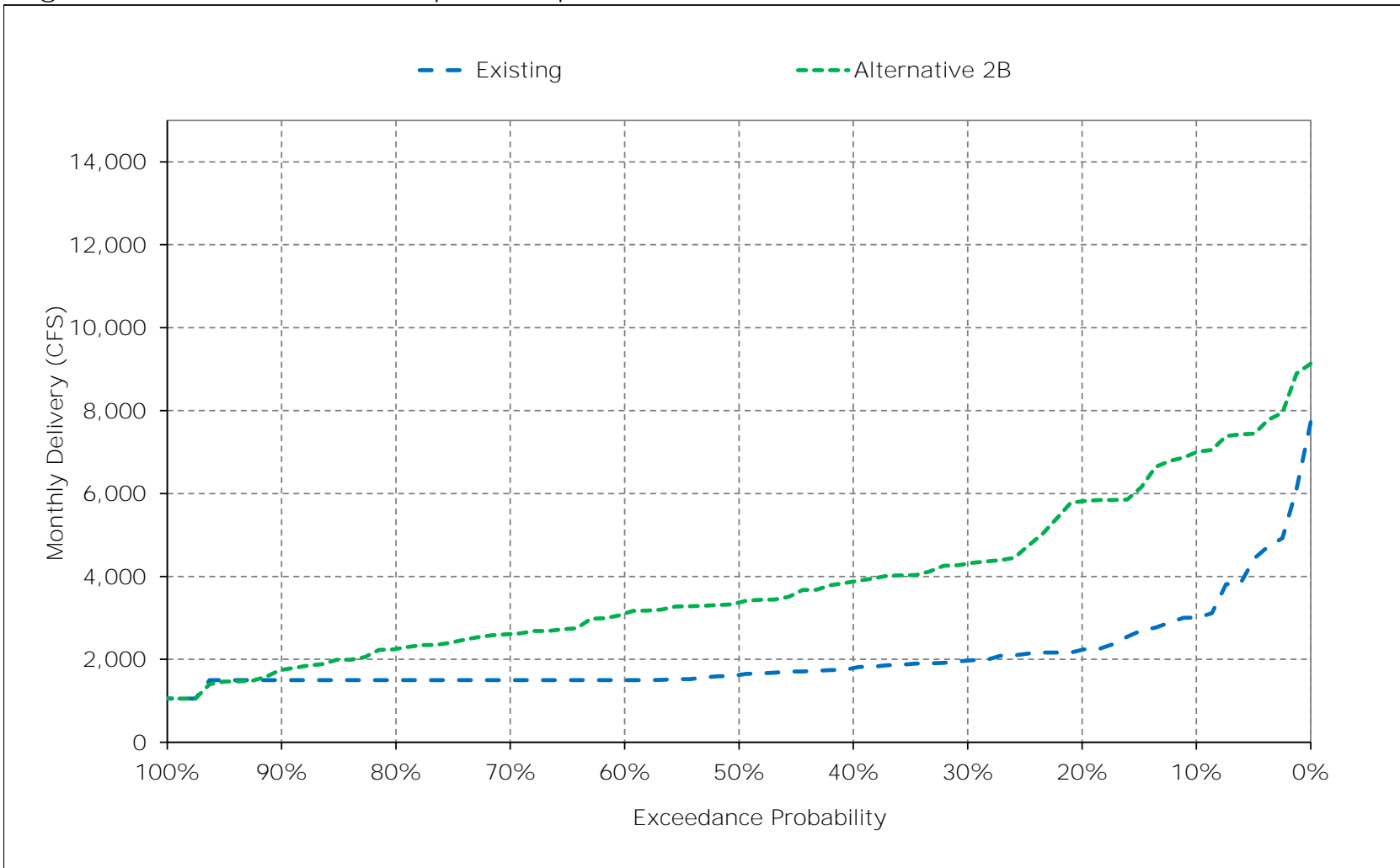


Figure 3-14. Total Delta Exports, May

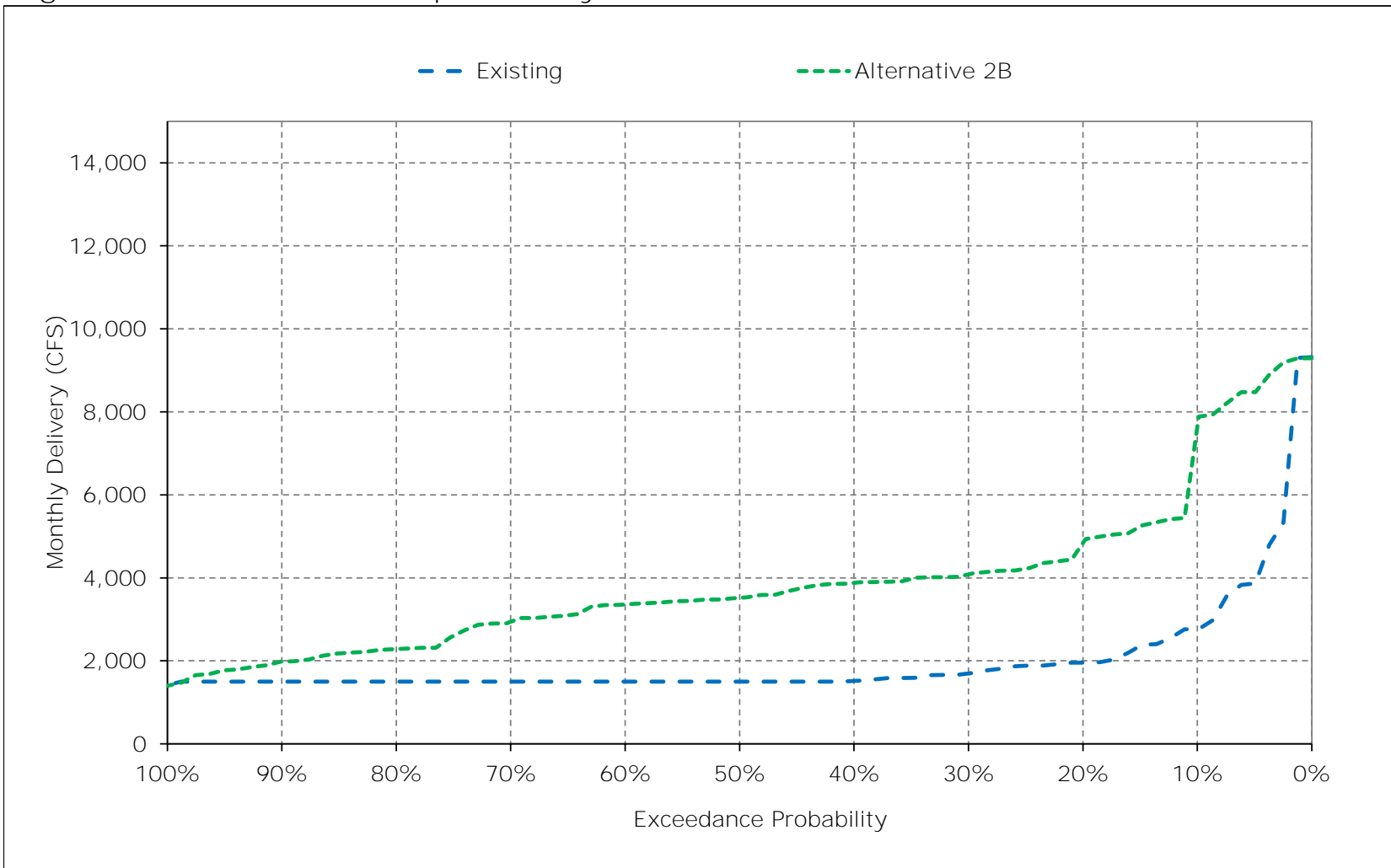


Figure 3-15. Total Delta Exports, June

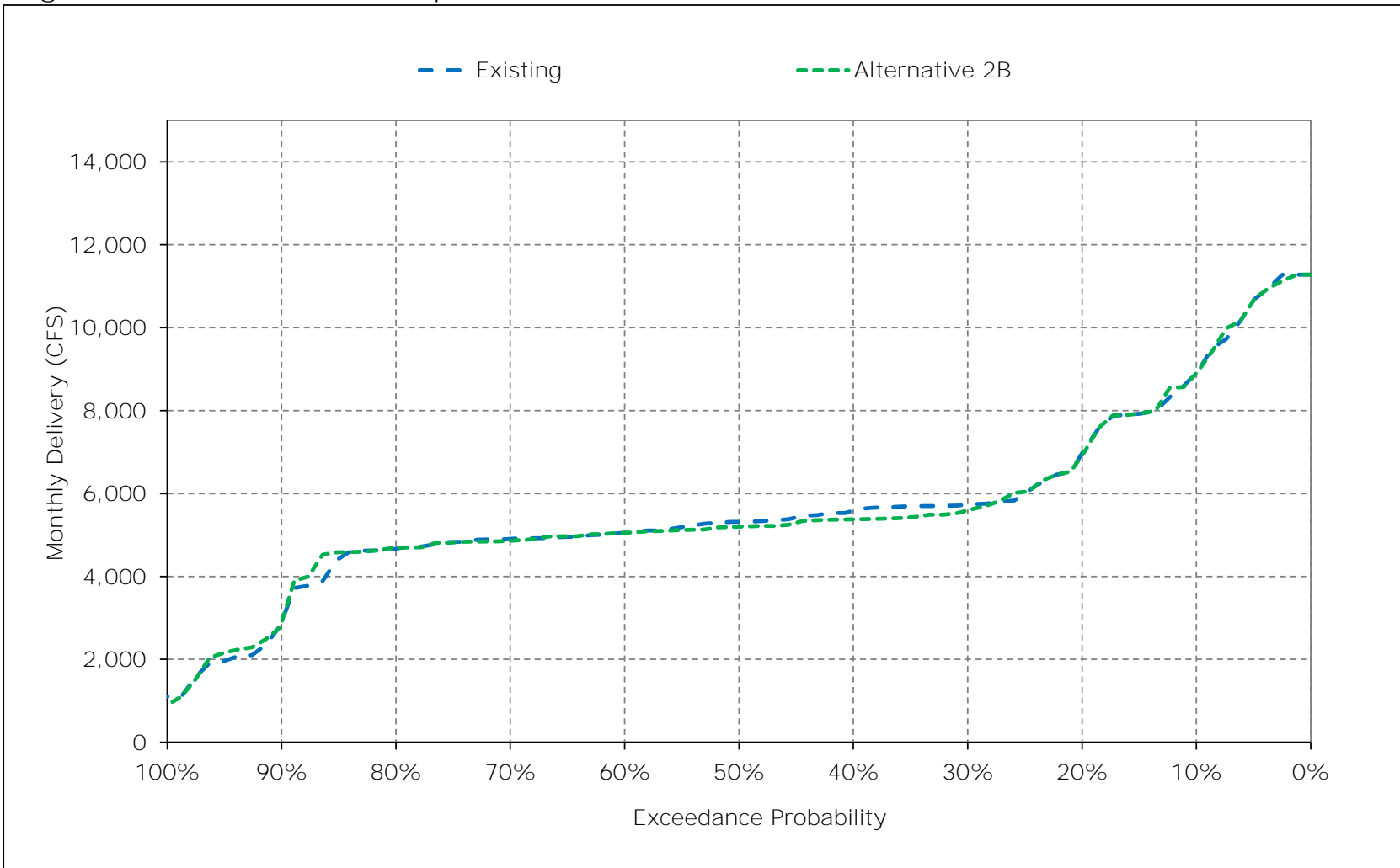


Figure 3-16. Total Delta Exports, July

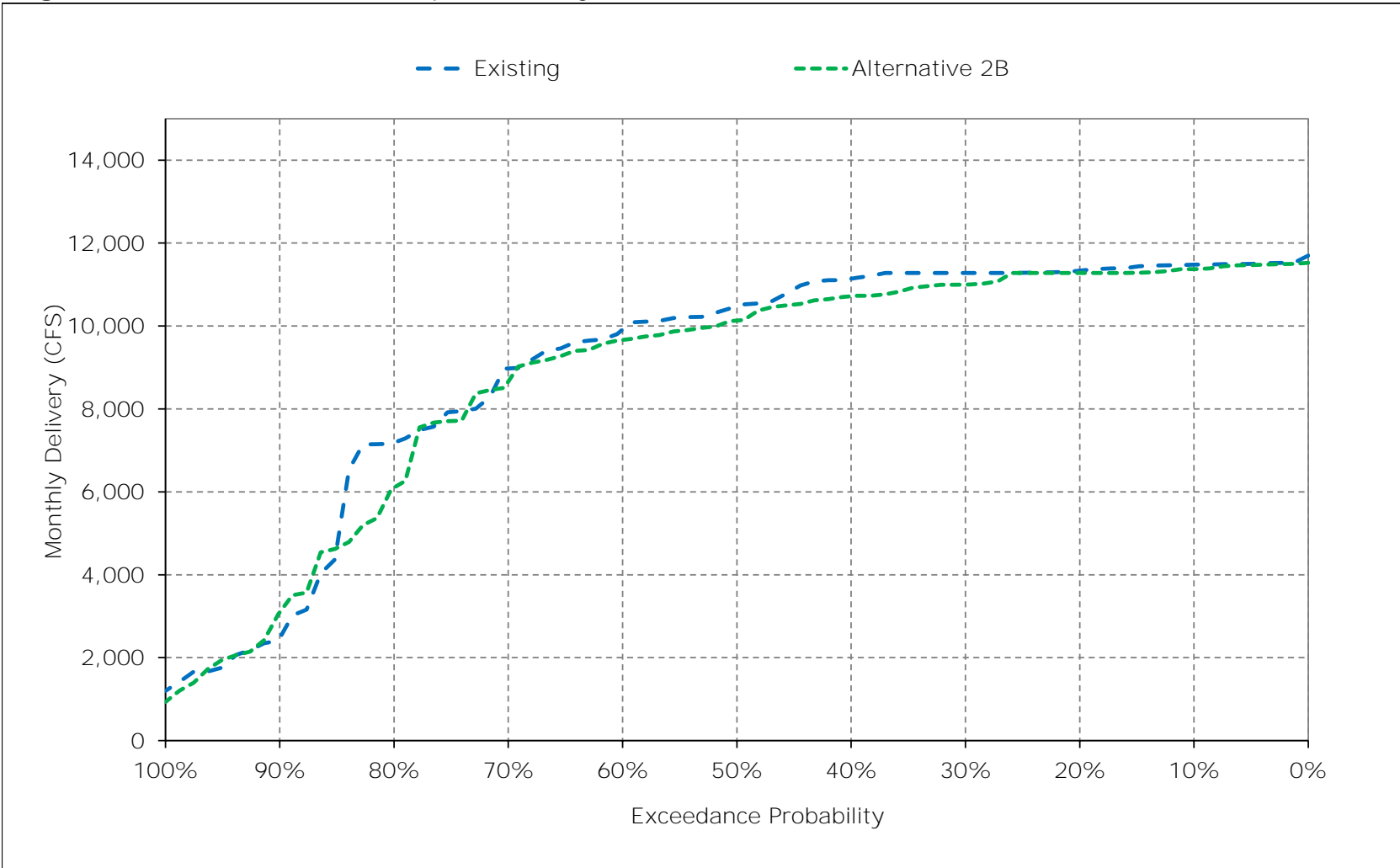


Figure 3-17. Total Delta Exports, August

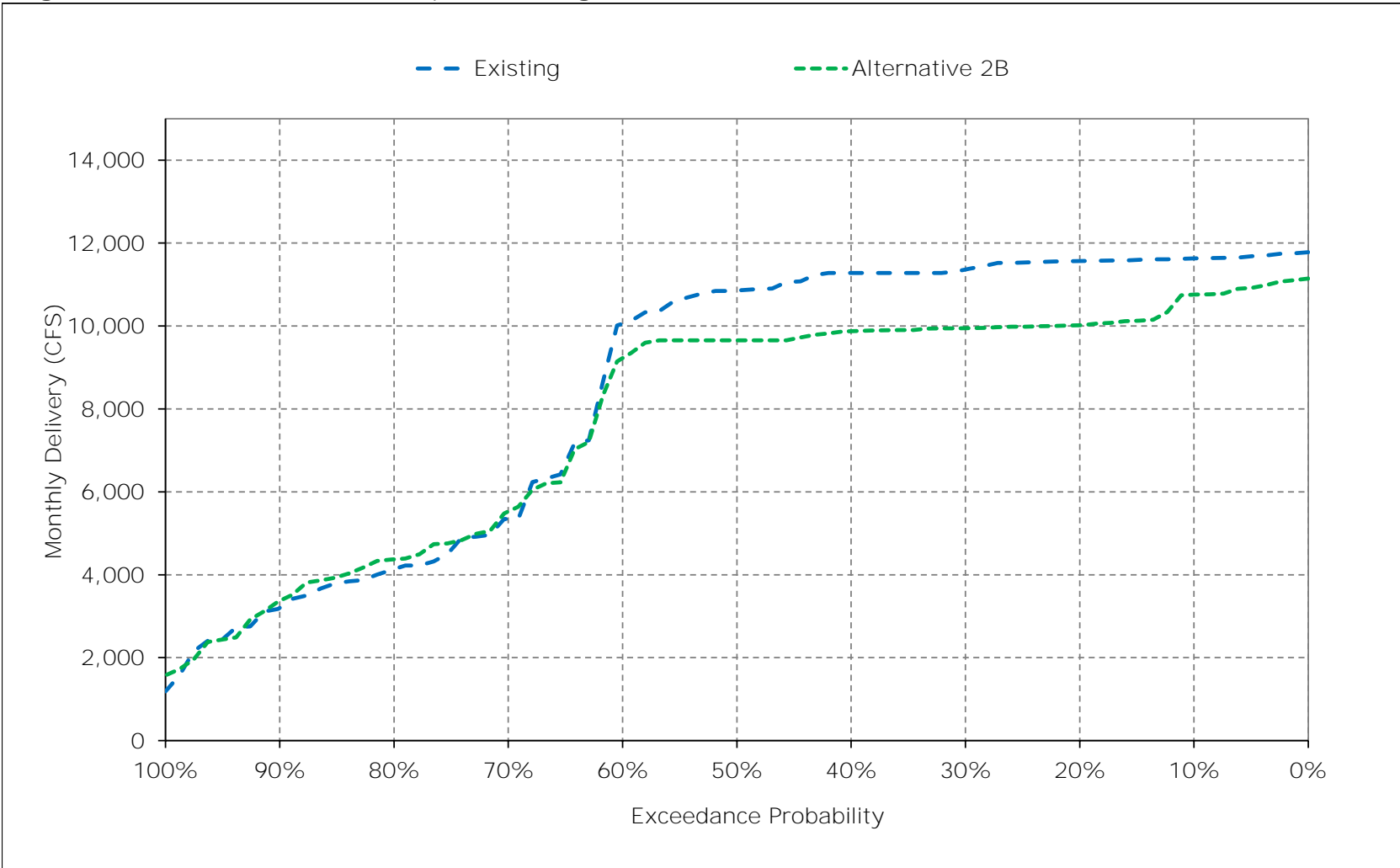




Figure 3-18. Total Delta Exports, September

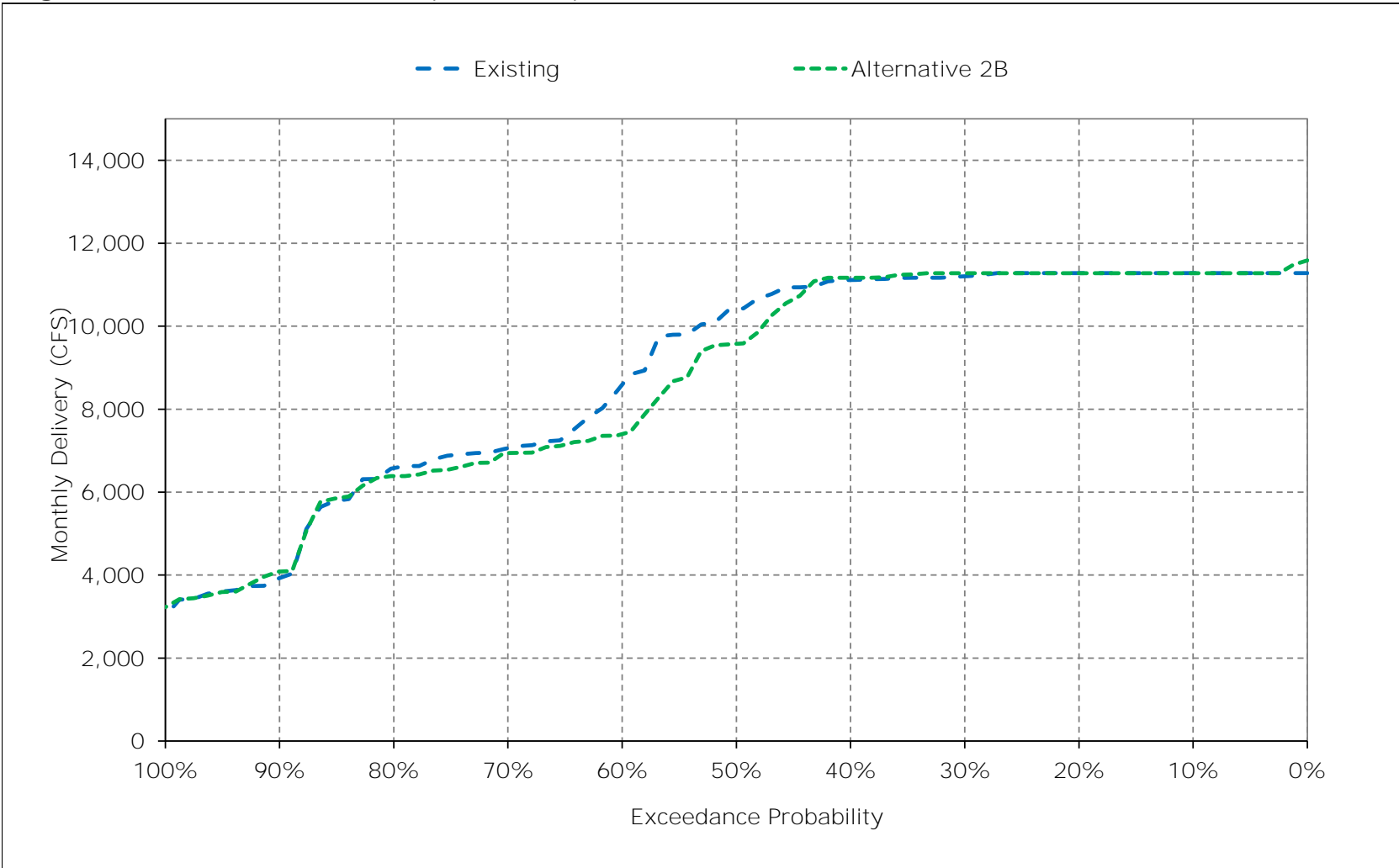


Table 4-1. SWP Banks PP Exports, Monthly Delivery

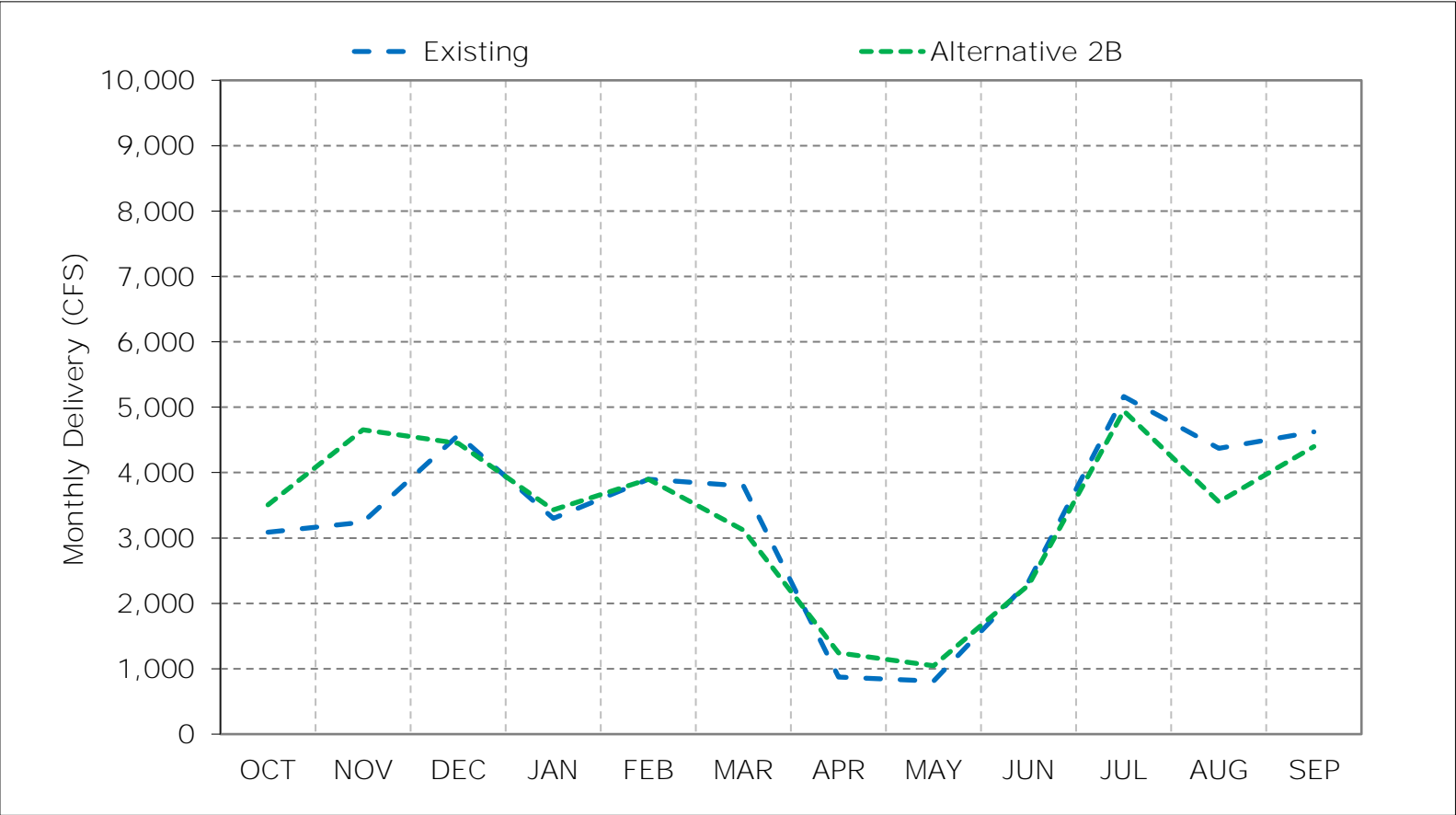
Existing												
Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,953	6,680	7,105	5,846	7,403	8,190	1,330	1,106	4,310	6,680	6,680	6,680
20%	4,110	5,508	7,043	3,432	5,331	5,223	935	766	3,083	6,680	6,680	6,680
30%	3,758	4,523	6,552	2,864	3,916	4,832	787	637	2,325	6,680	6,680	6,680
40%	3,419	3,519	4,565	2,770	3,313	3,773	712	600	2,119	6,680	6,680	6,680
50%	3,163	2,821	4,000	2,707	2,877	2,912	673	600	1,935	6,680	6,680	6,428
60%	2,882	2,225	3,485	2,621	2,689	2,634	606	600	1,848	6,626	6,680	3,197
70%	2,297	1,683	2,960	2,601	2,622	2,386	600	600	1,741	5,788	511	2,574
80%	1,813	1,337	2,774	2,485	2,559	2,249	600	600	1,635	2,943	300	2,416
90%	986	564	2,487	2,204	2,423	1,632	600	526	324	300	300	1,678
Long Term												
Full Simulation Period <sup>a</sup>	3,088	3,243	4,576	3,302	3,900	3,793	873	811	2,335	5,164	4,373	4,622
Water Year Types <sup>b,c</sup>												
Wet (32%)	3,680	4,067	4,520	4,574	5,340	5,783	1,264	1,270	3,555	6,602	6,680	6,617
Above Normal (15%)	3,044	2,865	5,335	3,151	4,114	3,956	706	656	2,482	6,411	6,680	6,680
Below Normal (17%)	3,114	3,394	4,908	2,768	3,839	3,682	672	632	2,049	6,676	6,404	4,657
Dry (22%)	2,775	3,074	4,599	2,692	2,683	2,383	695	628	1,687	4,089	515	2,581
Critical (15%)	2,289	1,911	3,514	2,234	2,464	1,566	692	454	852	650	483	1,264
Alternative 2B												
Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,708	6,680	7,080	5,849	6,863	6,044	3,176	3,405	4,307	6,680	6,664	6,680
20%	4,625	6,680	7,027	3,949	5,437	4,078	2,113	754	2,964	6,680	5,054	6,680
30%	4,387	6,212	5,361	3,196	4,187	3,429	766	601	2,168	6,680	5,054	6,680
40%	3,958	5,380	4,421	2,904	3,446	2,863	683	600	1,956	6,680	5,054	6,680
50%	3,616	4,907	3,937	2,844	3,031	2,443	603	600	1,888	6,670	5,054	3,708
60%	3,101	4,194	3,610	2,748	2,840	2,200	600	600	1,803	6,094	4,681	2,913
70%	2,491	3,633	3,021	2,625	2,618	1,986	600	600	1,760	5,281	372	2,528
80%	2,008	2,945	2,819	2,530	2,507	1,798	600	600	1,694	1,386	300	2,274
90%	1,183	2,104	2,619	2,217	2,398	1,622	600	493	300	300	300	1,547
Long Term												
Full Simulation Period <sup>a</sup>	3,506	4,656	4,449	3,428	3,897	3,121	1,241	1,046	2,280	4,944	3,553	4,396
Water Year Types <sup>b,c</sup>												
Wet (32%)	4,234	5,924	4,502	4,610	5,359	4,908	2,358	1,921	3,465	6,405	4,955	6,076
Above Normal (15%)	3,398	4,117	4,680	3,177	3,914	3,035	914	901	2,462	6,359	5,054	6,680
Below Normal (17%)	3,682	4,908	4,815	2,984	3,909	2,763	813	638	2,006	6,434	6,083	4,245
Dry (22%)	3,067	4,146	4,811	2,912	2,758	1,967	641	598	1,706	3,474	530	2,579
Critical (15%)	2,493	2,920	3,130	2,410	2,411	1,482	544	444	711	832	599	1,372
Alternative 2B minus Existing												
Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	755	0	-24	3	-540	-2,146	1,846	2,299	-3	0	-16	0
20%	515	1,172	-16	516	106	-1,145	1,177	-12	-119	0	-1,626	0
30%	629	1,689	-1,190	332	271	-1,403	-21	-36	-157	0	-1,626	0
40%	539	1,861	-144	134	133	-910	-29	0	-163	0	-1,626	0
50%	453	2,087	-63	137	154	-469	-70	0	-47	-10	-1,626	-2,719
60%	219	1,969	125	126	151	-435	-6	0	-45	-532	-1,999	-285
70%	194	1,950	61	24	-5	-400	0	0	19	-507	-139	-45
80%	195	1,608	45	45	-53	-452	0	0	59	-1,557	0	-142
90%	197	1,540	132	13	-25	-10	0	-33	-24	0	0	-131
Long Term												
Full Simulation Period <sup>a</sup>	418	1,414	-127	126	-3	-673	368	235	-55	-220	-820	-227
Water Year Types <sup>b,c</sup>												
Wet (32%)	555	1,858	-18	36	18	-875	1,094	651	-90	-197	-1,725	-541
Above Normal (15%)	354	1,252	-654	26	-200	-921	207	245	-20	-52	-1,626	0
Below Normal (17%)	567	1,514	-94	216	70	-919	141	7	-43	-242	-321	-412
Dry (22%)	292	1,072	211	220	75	-416	-54	-31	19	-615	15	-2
Critical (15%)	203	1,009	-384	176	-52	-84	-148	-11	-141	182	116	108

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).

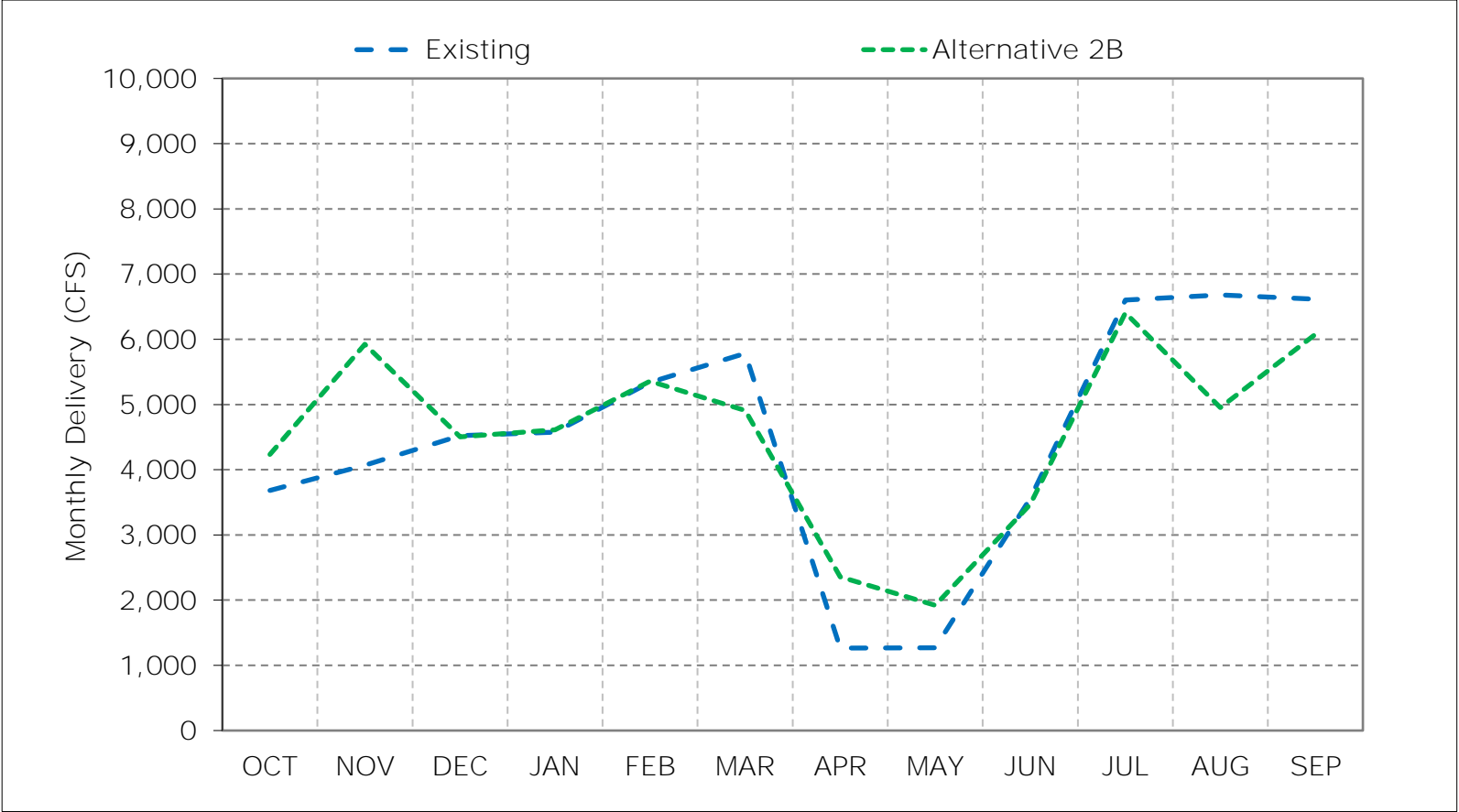
c These results are displayed with water year - year type sorting.

Figure 4-1. SWP Banks PP Exports, Long-Term Average Delivery



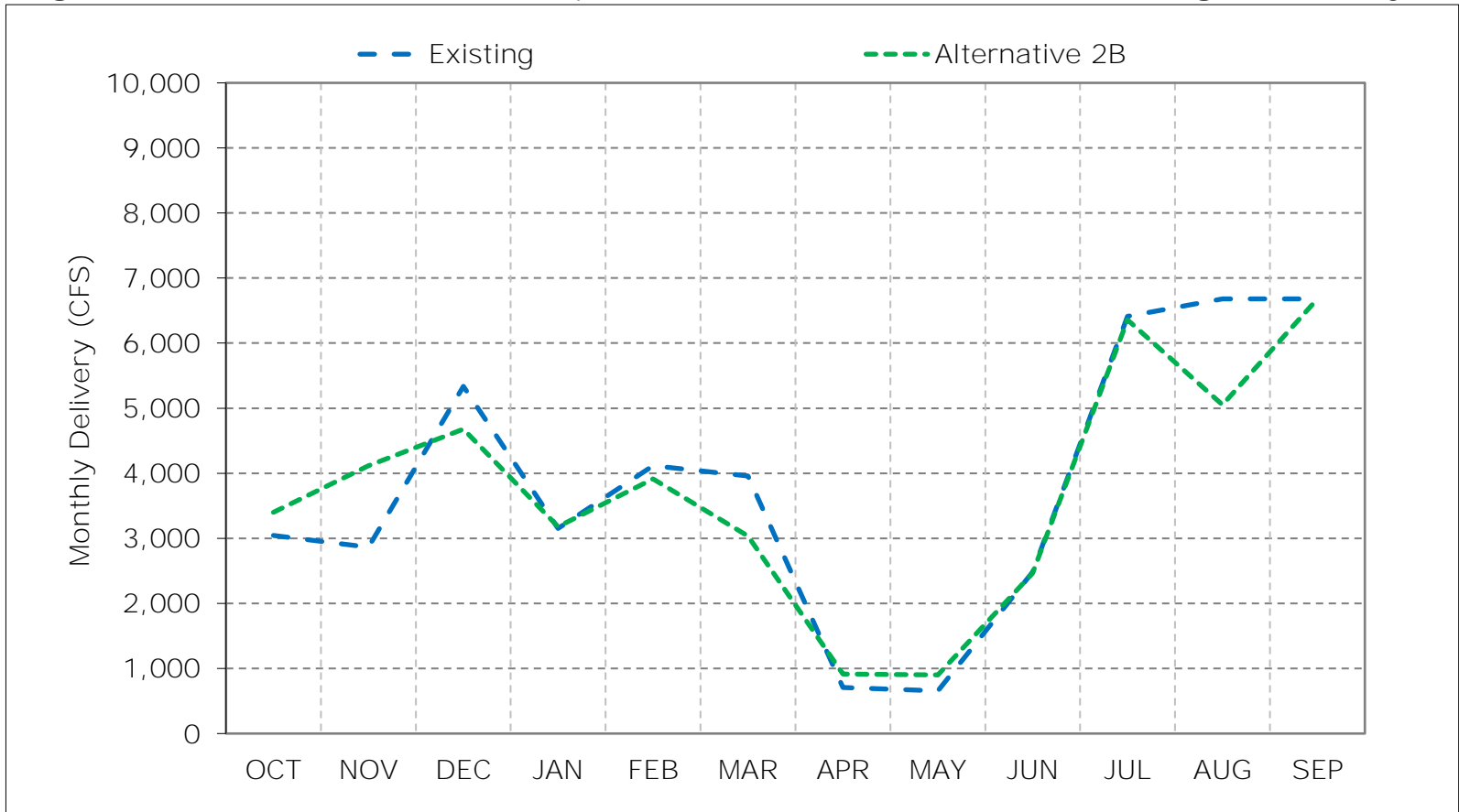
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
 \*These results are displayed with water year - year type sorting.

Figure 4-2. SWP Banks PP Exports, Wet Year Average Delivery



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

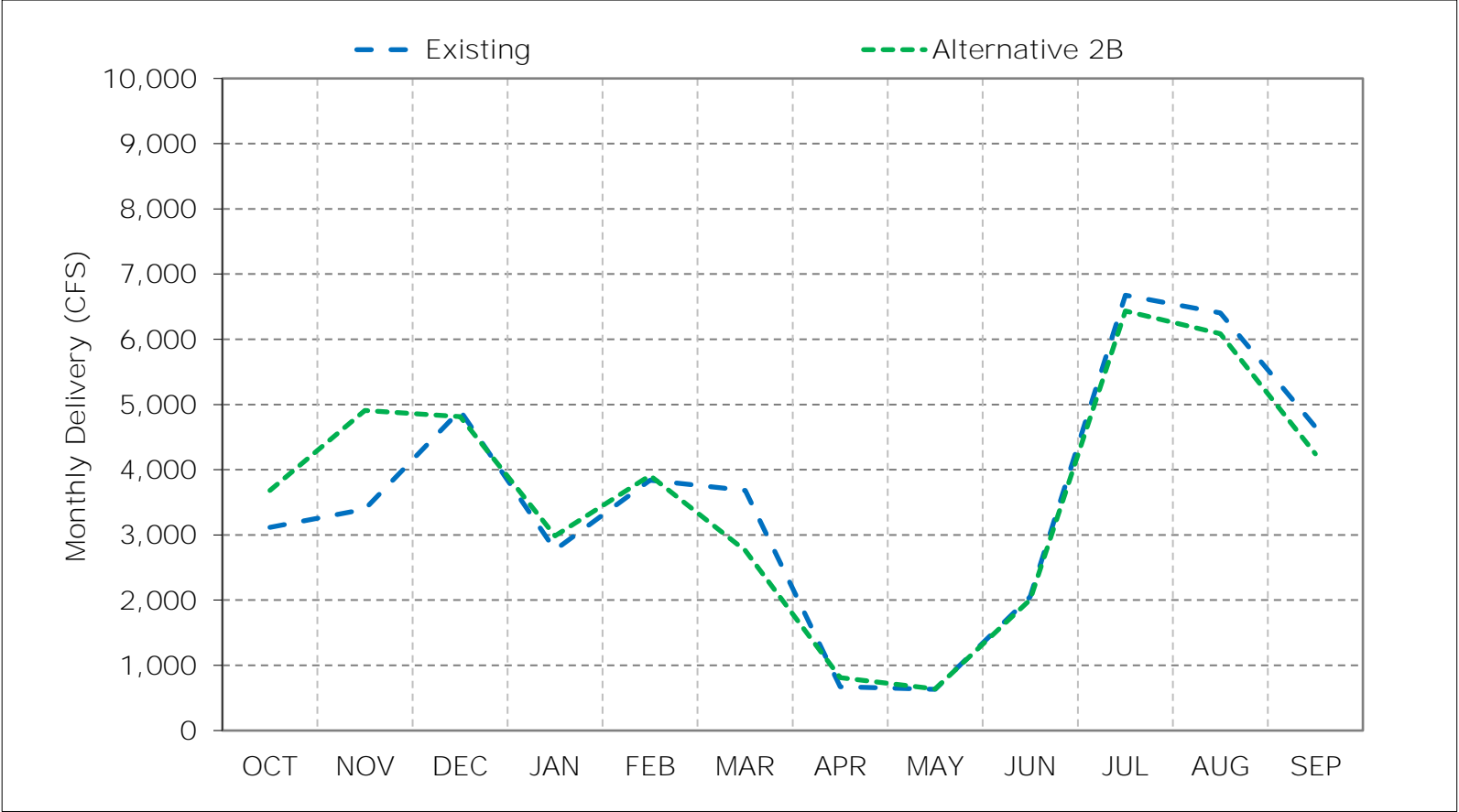
Figure 4-3. SWP Banks PP Exports, Above Normal Year Average Delivery



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

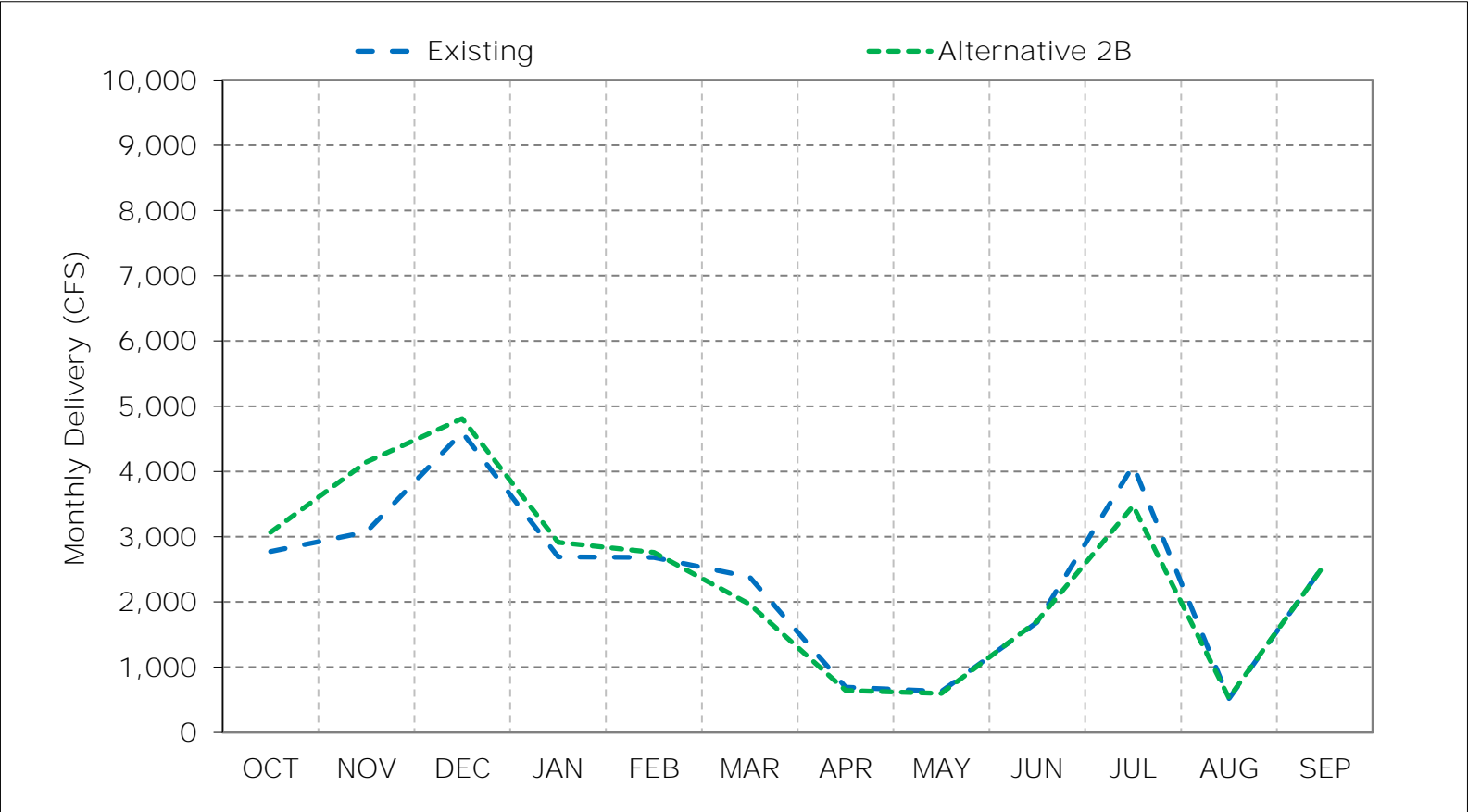
\*These results are displayed with water year - year type sorting.

Figure 4-4. SWP Banks PP Exports, Below Normal Year Average Delivery



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

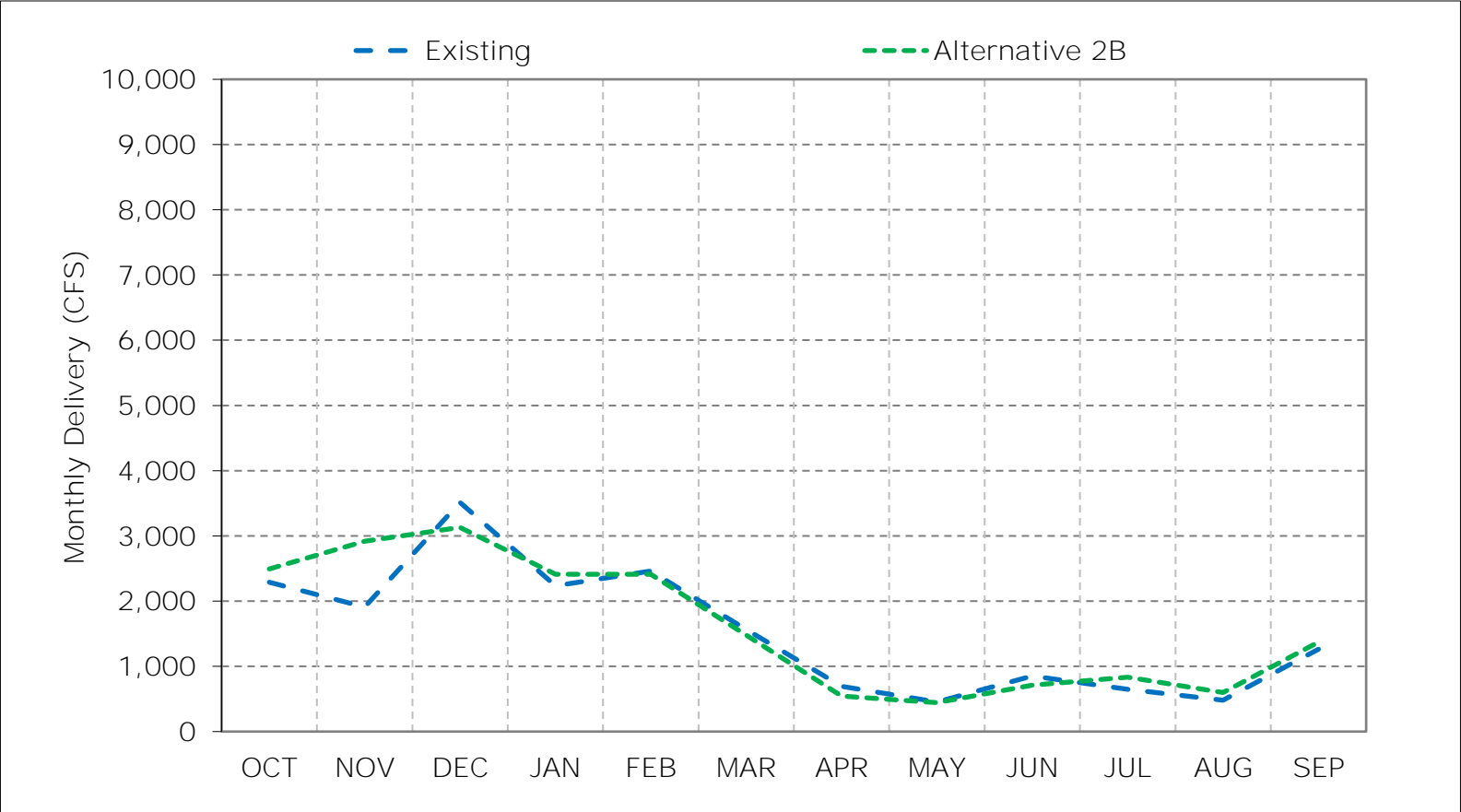
Figure 4-5. SWP Banks PP Exports, Dry Year Average Delivery



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

\*These results are displayed with water year - year type sorting.

Figure 4-6. SWP Banks PP Exports, Critical Year Average Delivery



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.



Figure 4-7. SWP Banks PP Exports, October

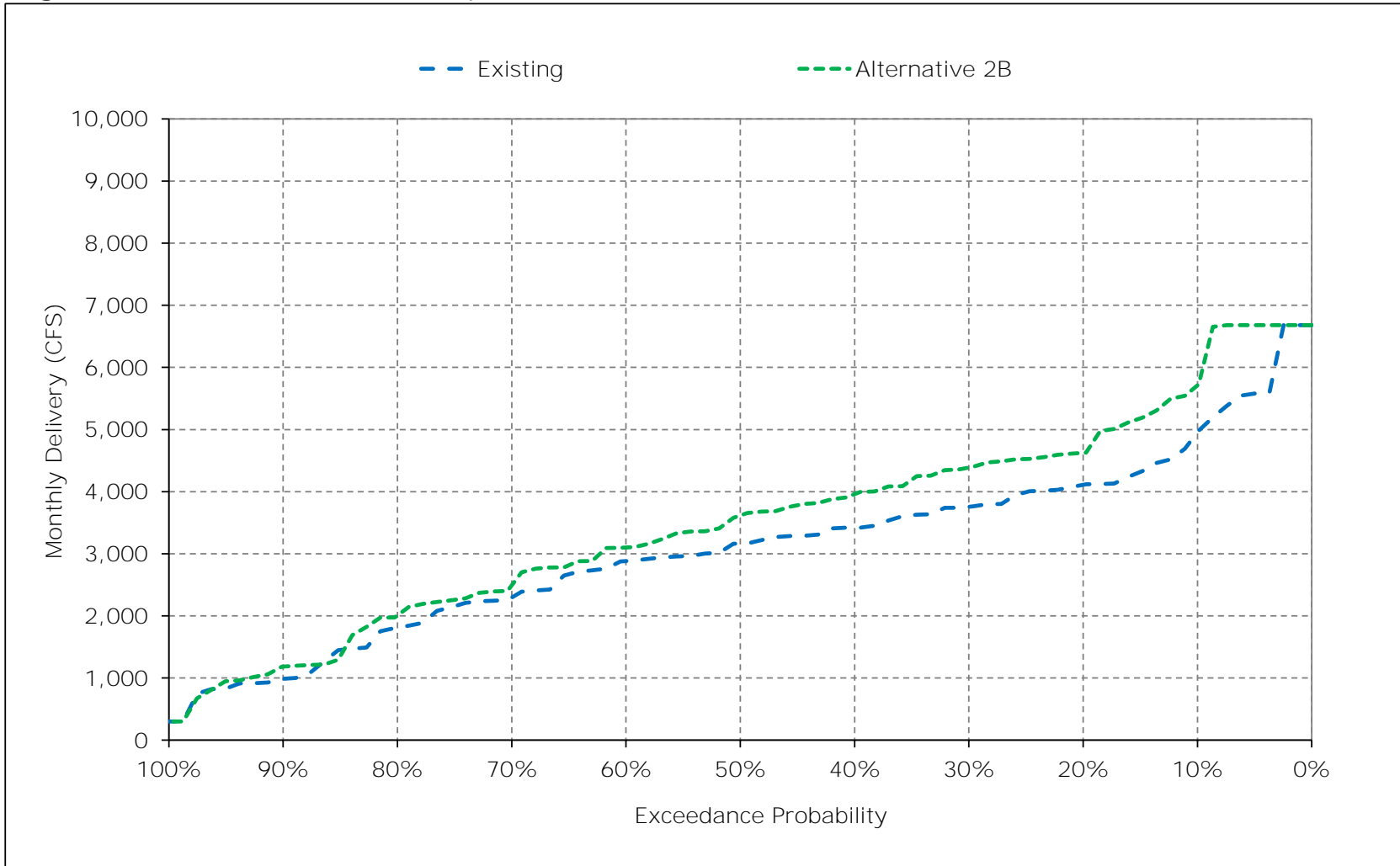


Figure 4-8. SWP Banks PP Exports, November

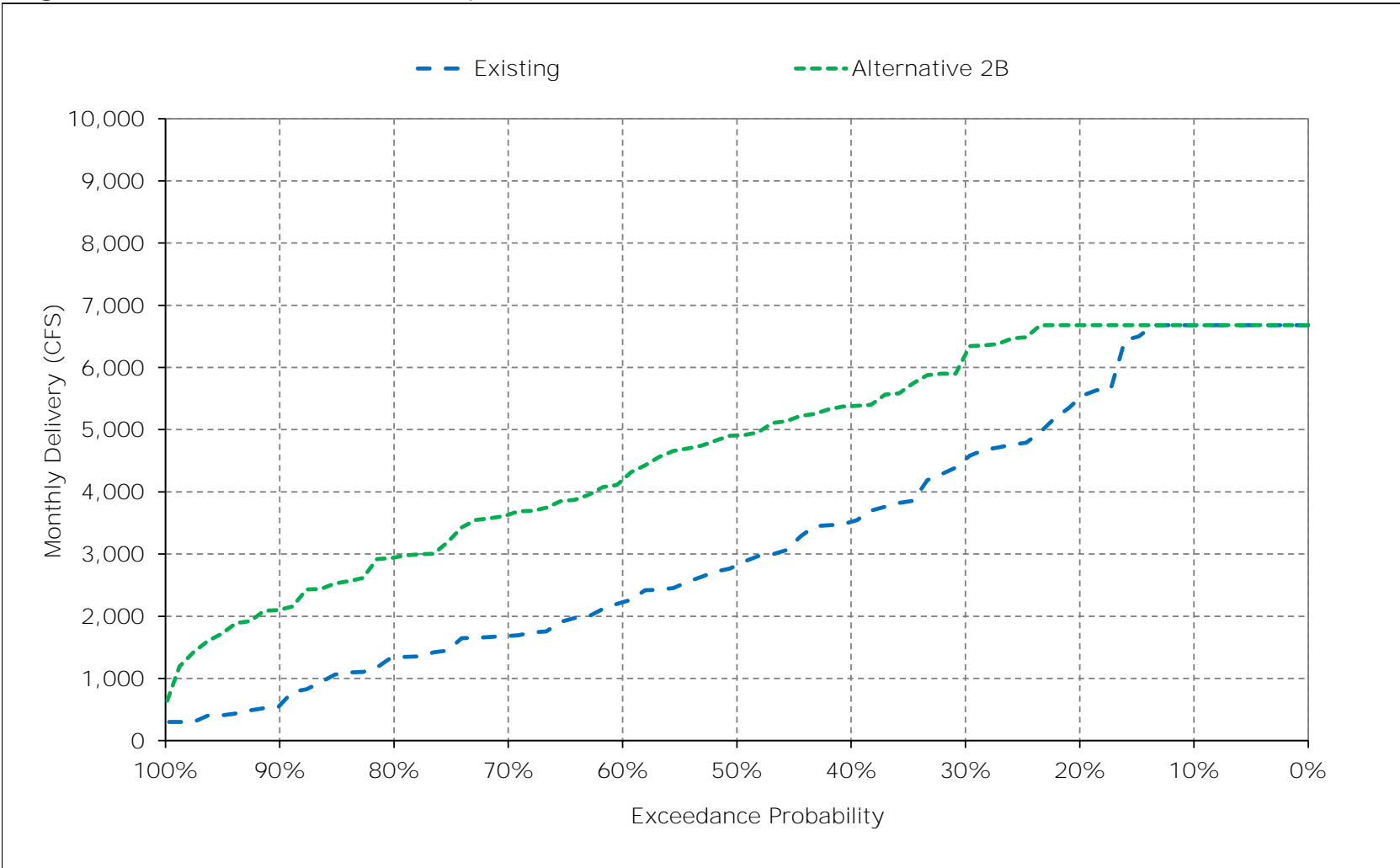


Figure 4-9. SWP Banks PP Exports, December

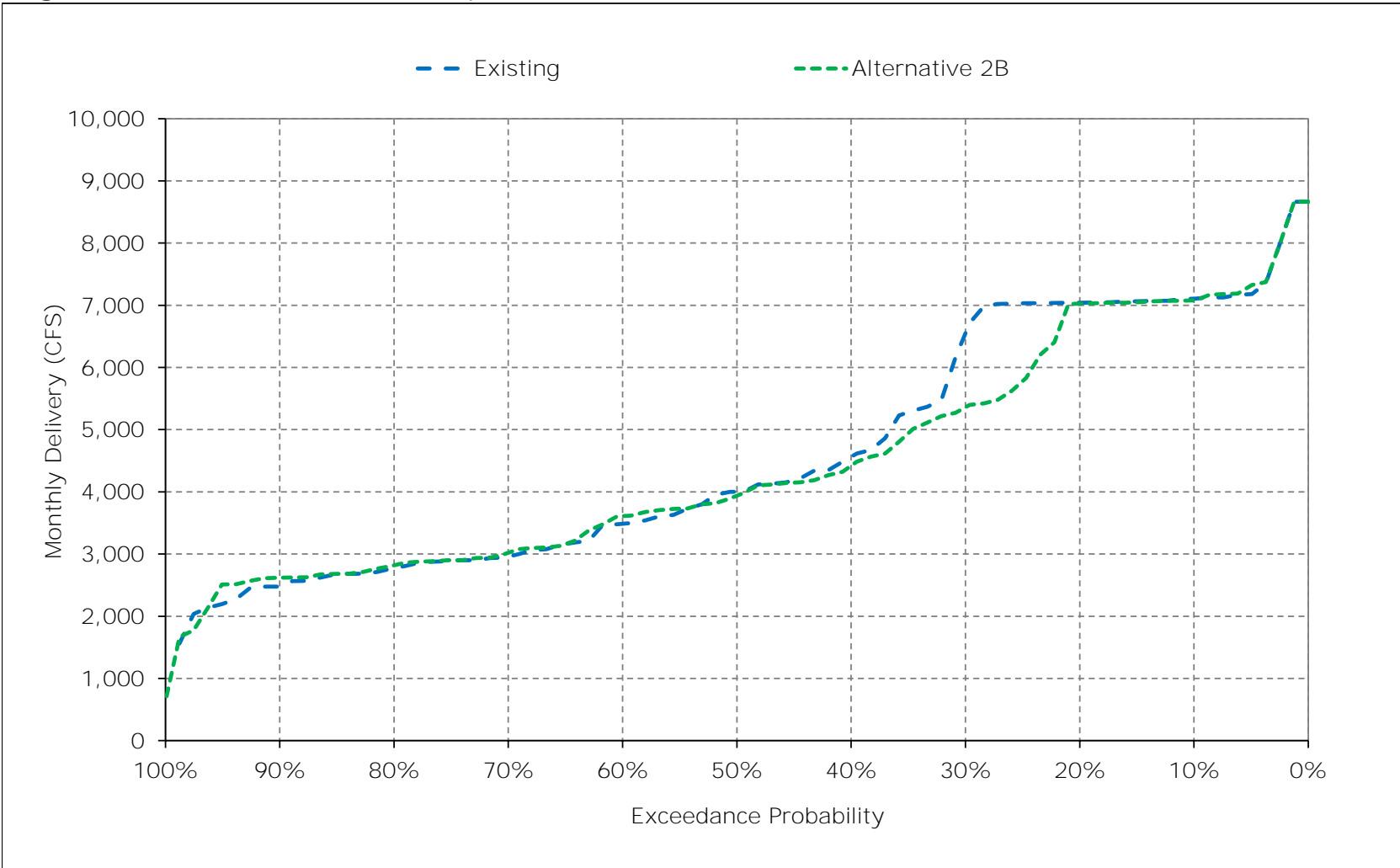


Figure 4-10. SWP Banks PP Exports, January

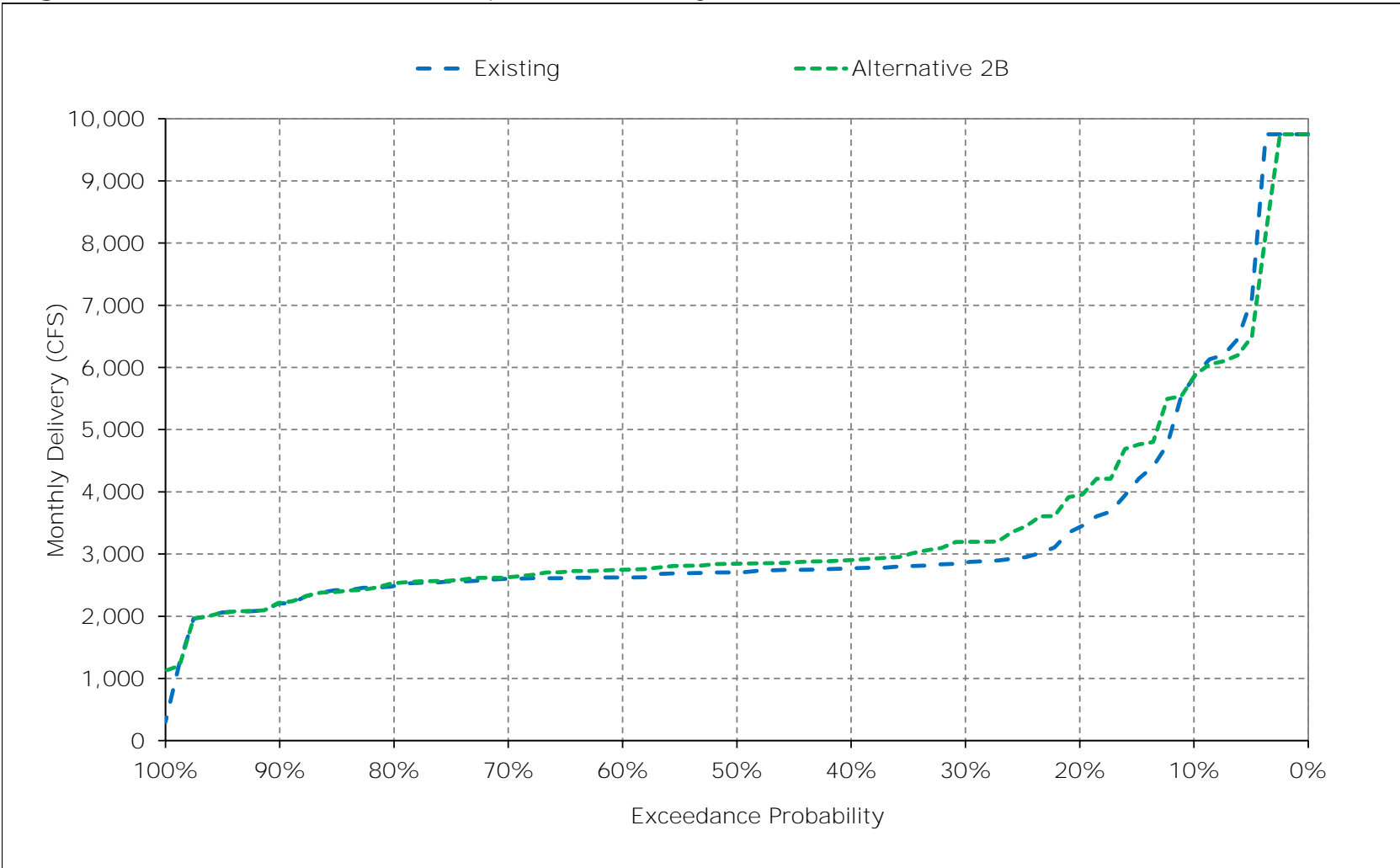


Figure 4-11. SWP Banks PP Exports, February

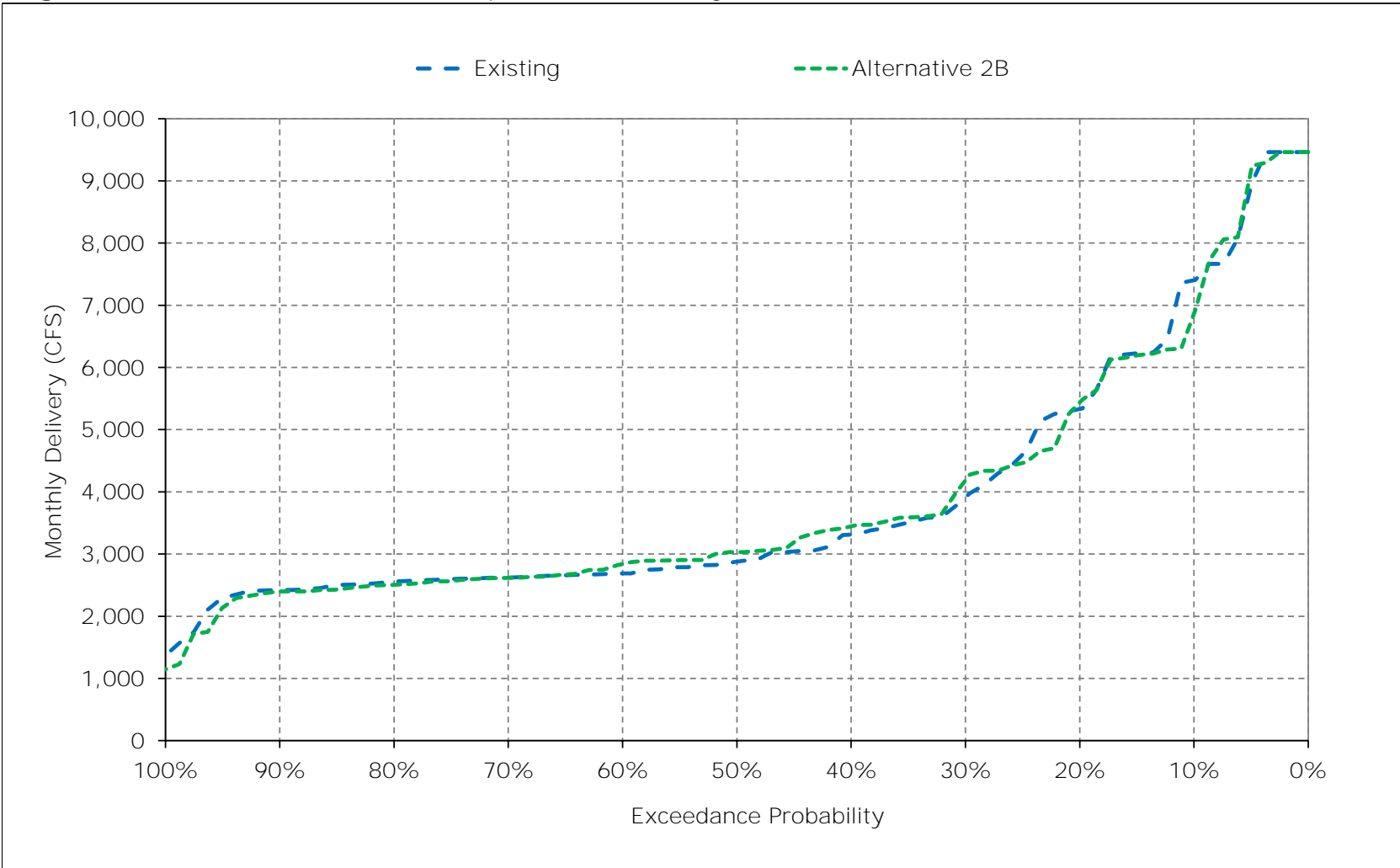


Figure 4-12. SWP Banks PP Exports, March

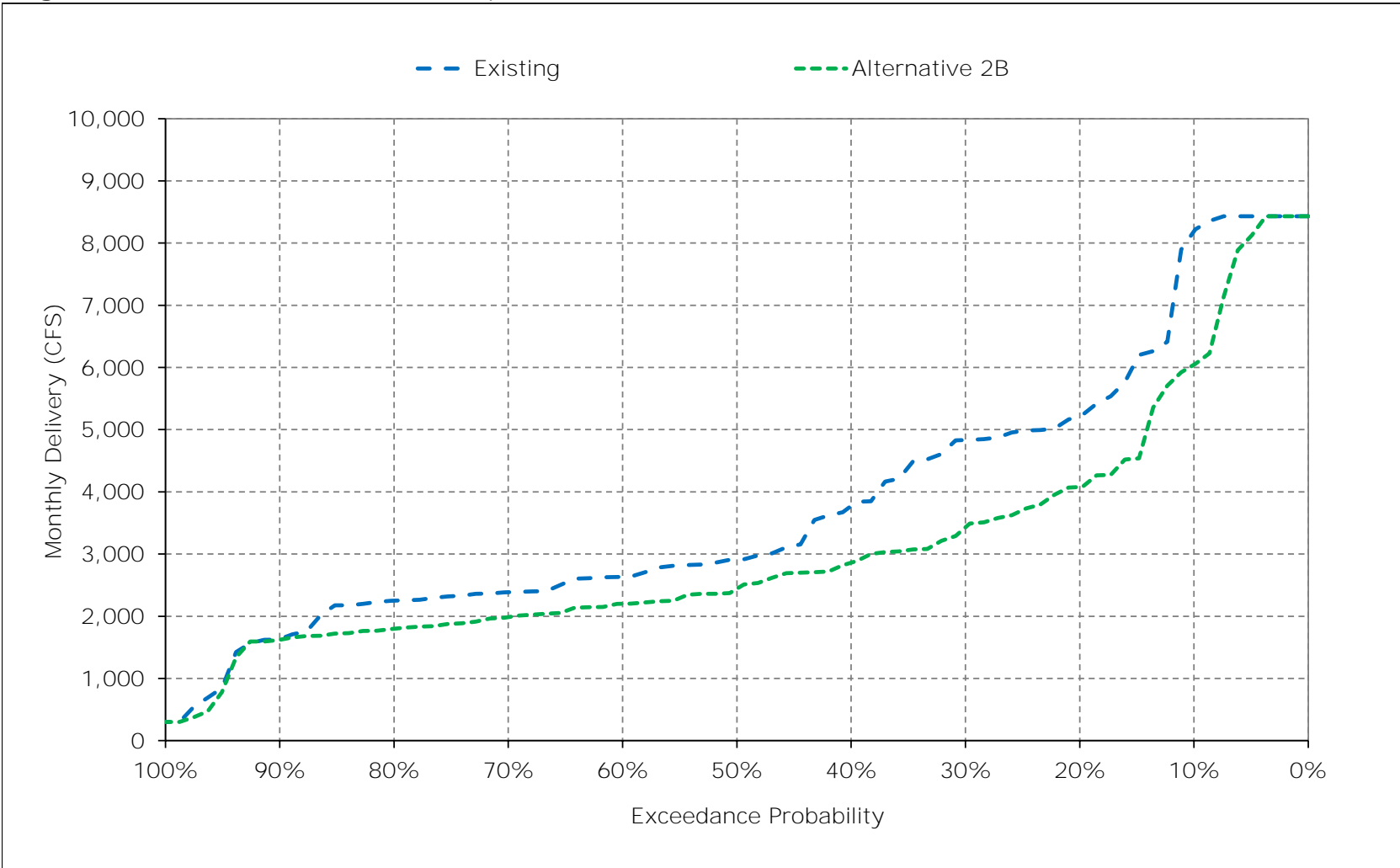


Figure 4-13. SWP Banks PP Exports, April

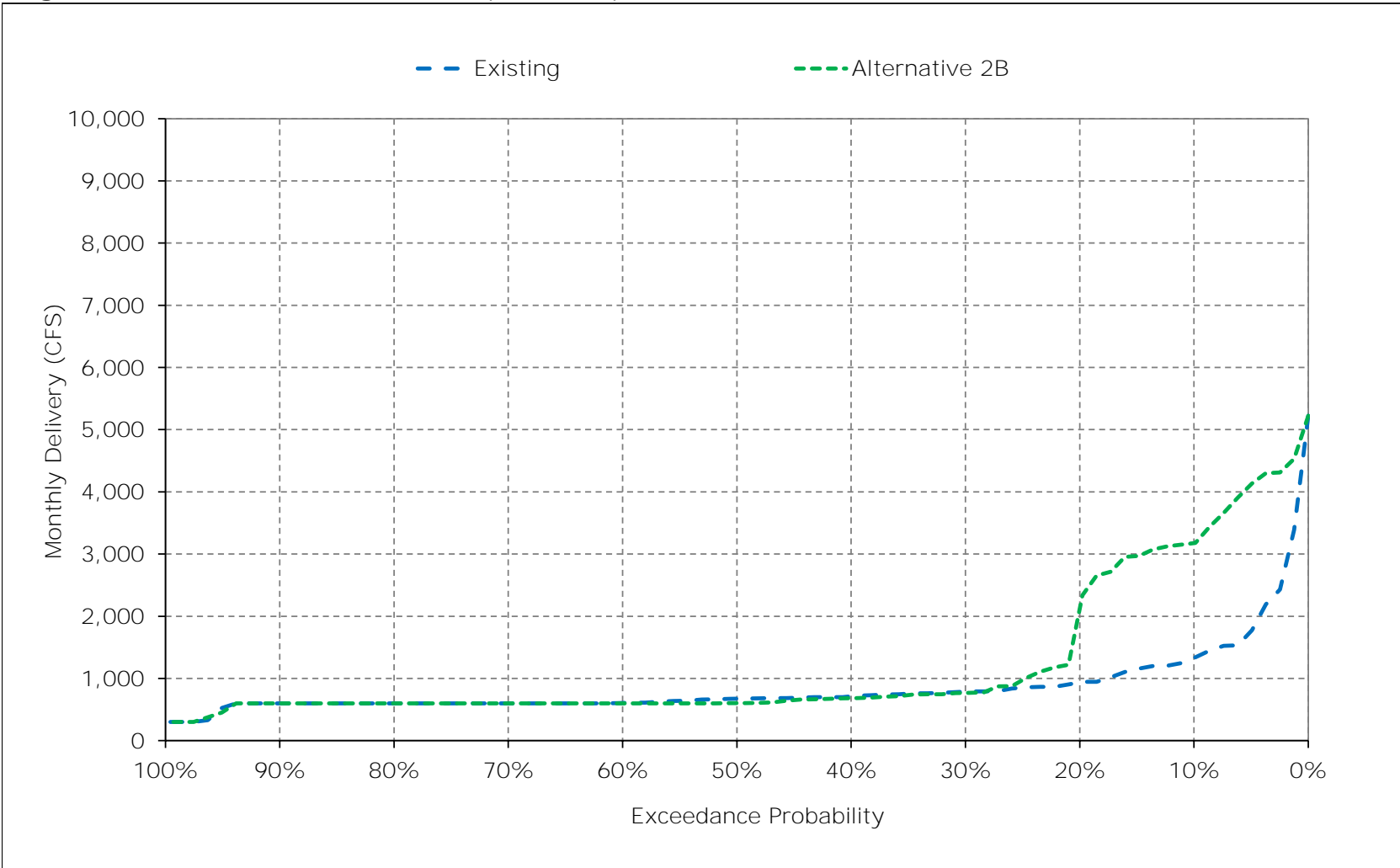


Figure 4-14. SWP Banks PP Exports, May

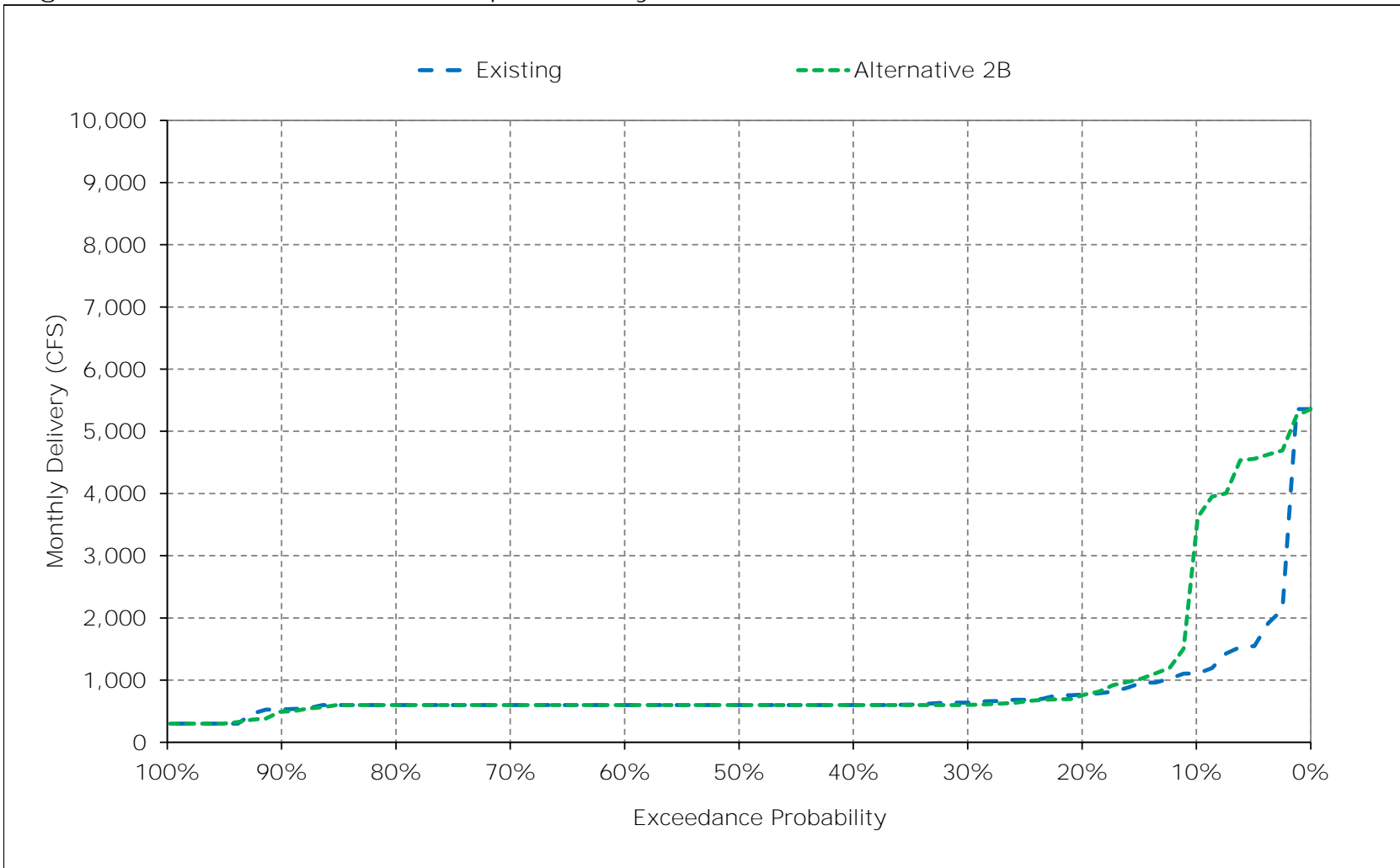




Figure 4-15. SWP Banks PP Exports, June

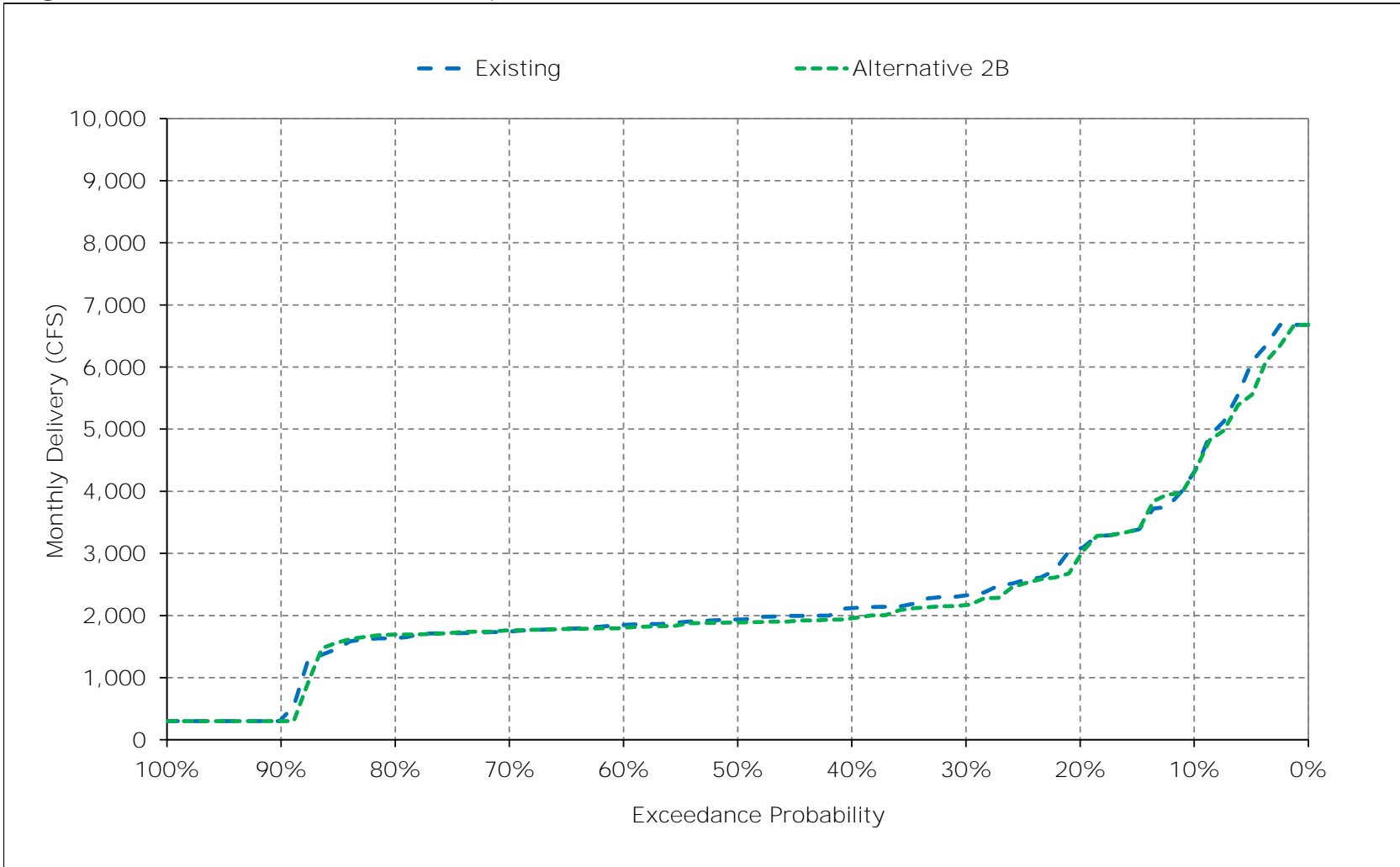


Figure 4-16. SWP Banks PP Exports, July

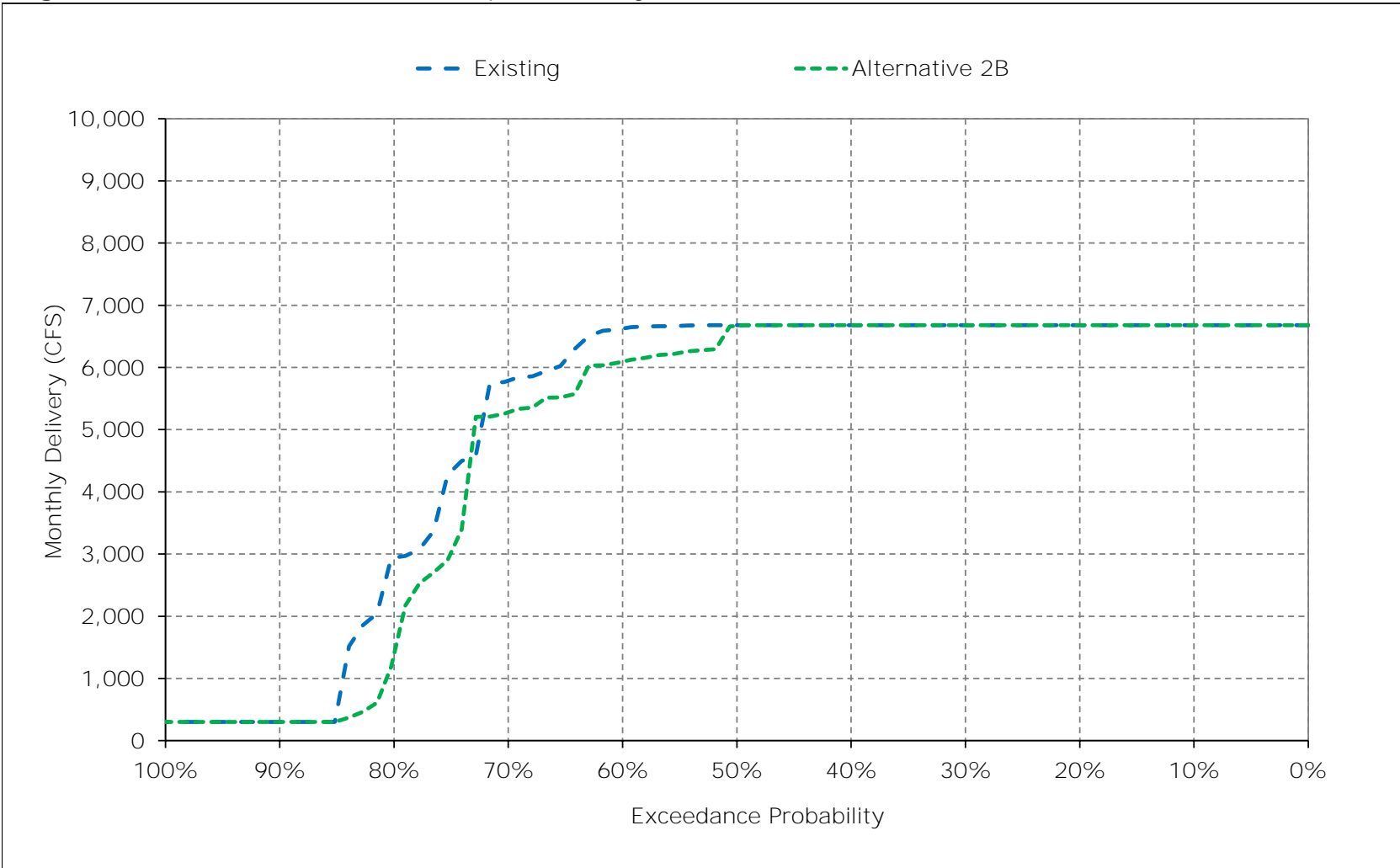


Figure 4-17. SWP Banks PP Exports, August

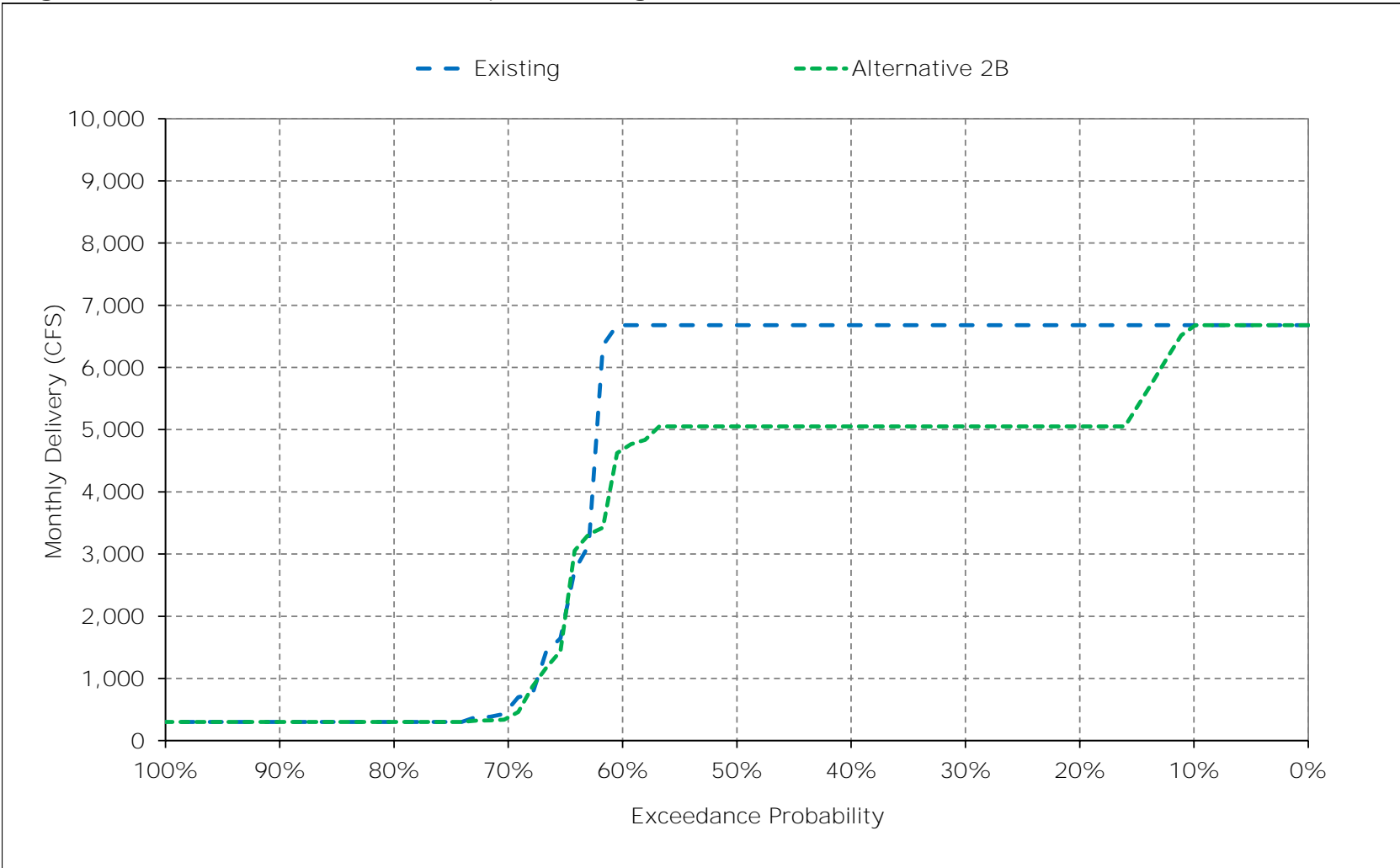


Figure 4-18. SWP Banks PP Exports, September

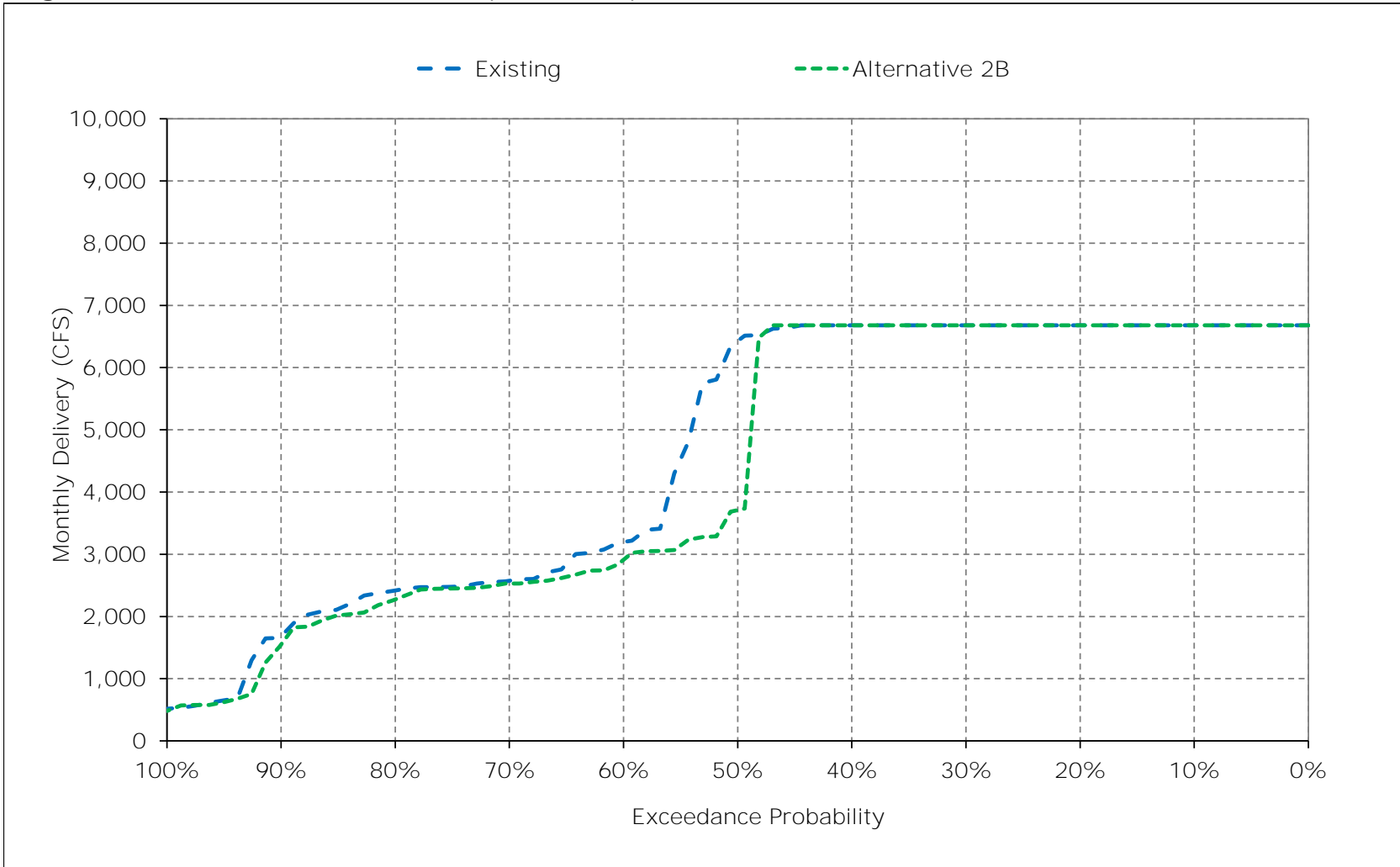


Table 5-1. CVP Banks PP Exports, Monthly Delivery

Existing

Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1,875	0	0	0	0	0	0	0	915	293	0
20%	0	1,705	0	0	0	0	0	0	0	622	0	0
30%	0	1,454	0	0	0	0	0	0	0	76	0	0
40%	0	163	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 <sup>a</sup>	69	660	19	0	41	10	0	0	0	224	95	103
Water Year Types <sup>b,c</sup>												
Wet (32%)	8	715	21	0	73	0	0	0	0	33	0	0
Above Normal (15%)	74	740	0	0	73	0	0	0	0	0	0	0
Below Normal (17%)	84	759	0	0	41	0	0	0	0	1	107	602
Dry (22%)	113	647	0	0	0	44	0	0	0	632	347	0
Critical (15%)	111	361	85	0	0	0	0	0	0	513	1	0

Alternative 2B

Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1,563	536	0	0	0	0	0	0	1,145	806	50
20%	0	906	0	0	0	0	0	0	0	587	0	0
30%	0	154	0	0	0	0	0	0	0	142	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 <sup>a</sup>	74	389	149	19	57	24	0	0	19	259	157	119
Water Year Types <sup>b,c</sup>												
Wet (32%)	0	279	21	61	129	71	0	0	60	59	99	0
Above Normal (15%)	148	455	263	0	5	0	0	0	0	0	0	0
Below Normal (17%)	122	443	176	0	91	0	0	0	0	43	228	691
Dry (22%)	144	533	99	0	0	0	0	0	0	733	340	3
Critical (15%)	0	282	356	0	0	13	0	0	0	494	84	0

Alternative 2B minus Existing

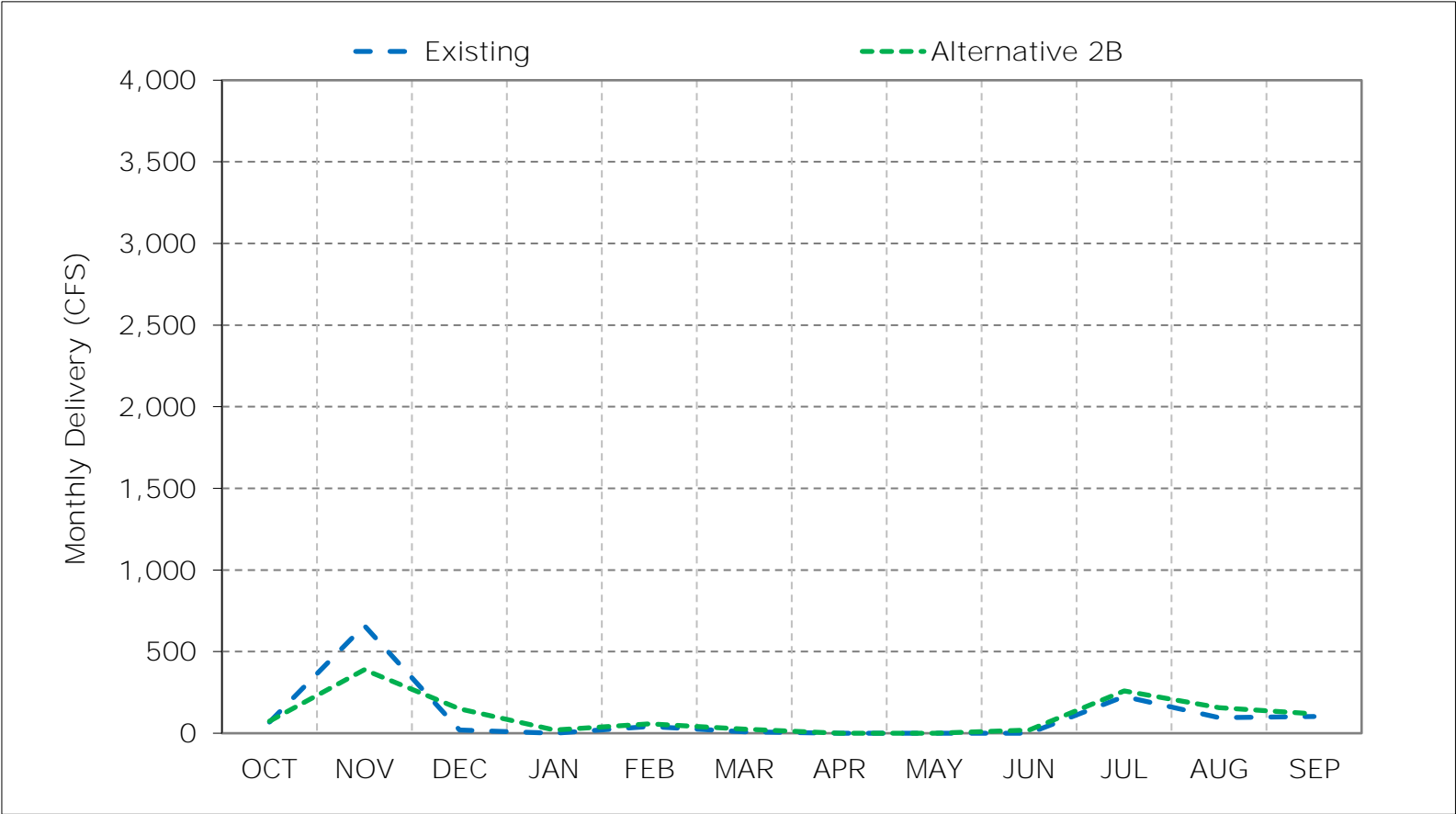
Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-313	536	0	0	0	0	0	0	229	514	50
20%	0	-799	0	0	0	0	0	0	0	-35	0	0
30%	0	-1,300	0	0	0	0	0	0	0	66	0	0
40%	0	-163	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	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 <sup>a</sup>	5	-271	130	19	17	15	0	0	19	35	62	16
Water Year Types <sup>b,c</sup>												
Wet (32%)	-8	-436	0	61	57	71	0	0	60	26	99	0
Above Normal (15%)	74	-285	263	0	-68	0	0	0	0	0	0	0
Below Normal (17%)	38	-316	176	0	50	0	0	0	0	42	121	89
Dry (22%)	31	-114	99	0	0	-44	0	0	0	101	-7	3
Critical (15%)	-111	-80	270	0	0	13	0	0	0	-18	82	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).

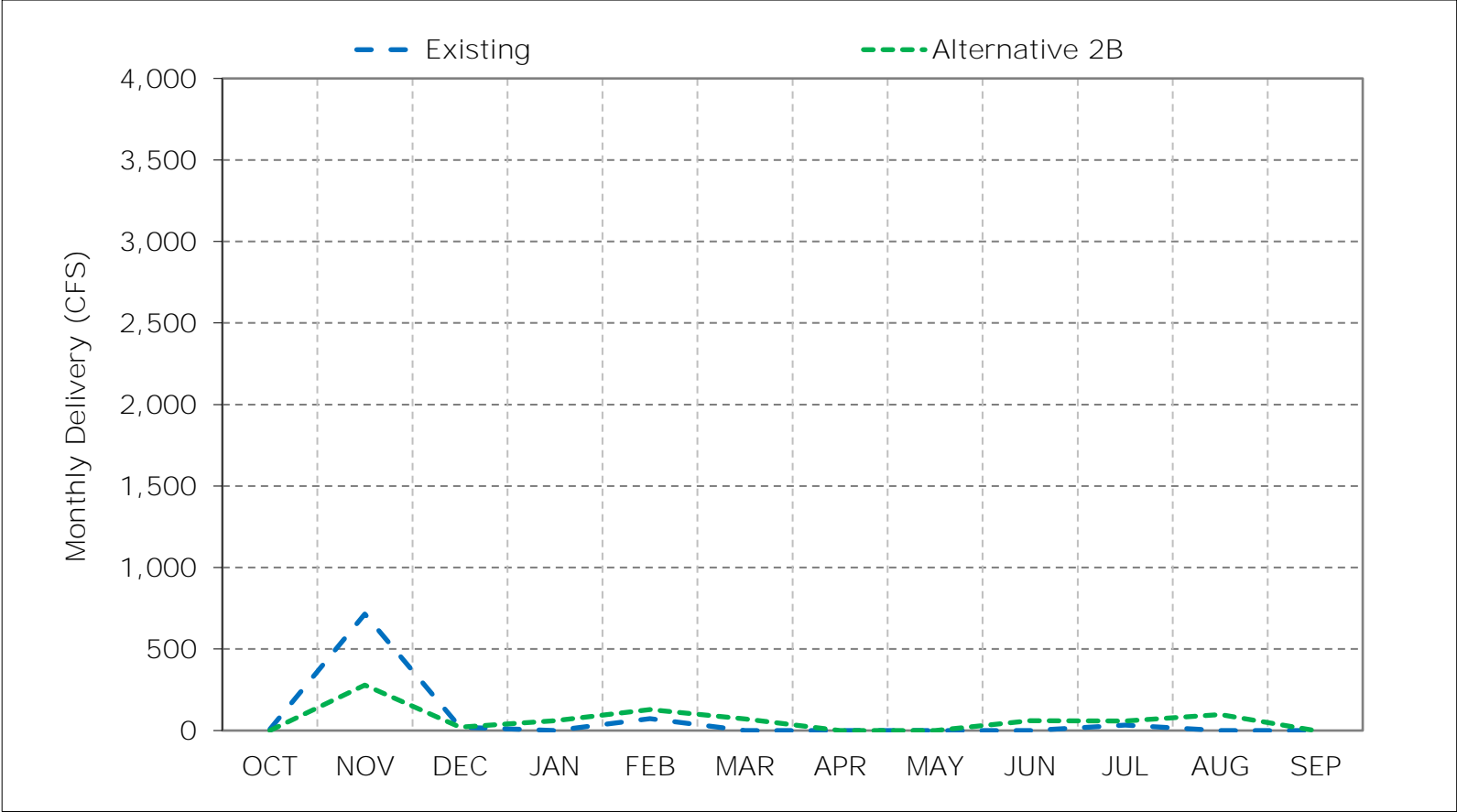
c These results are displayed with water year - year type sorting.

Figure 5-1. CVP Banks PP Exports, Long-Term Average Delivery



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

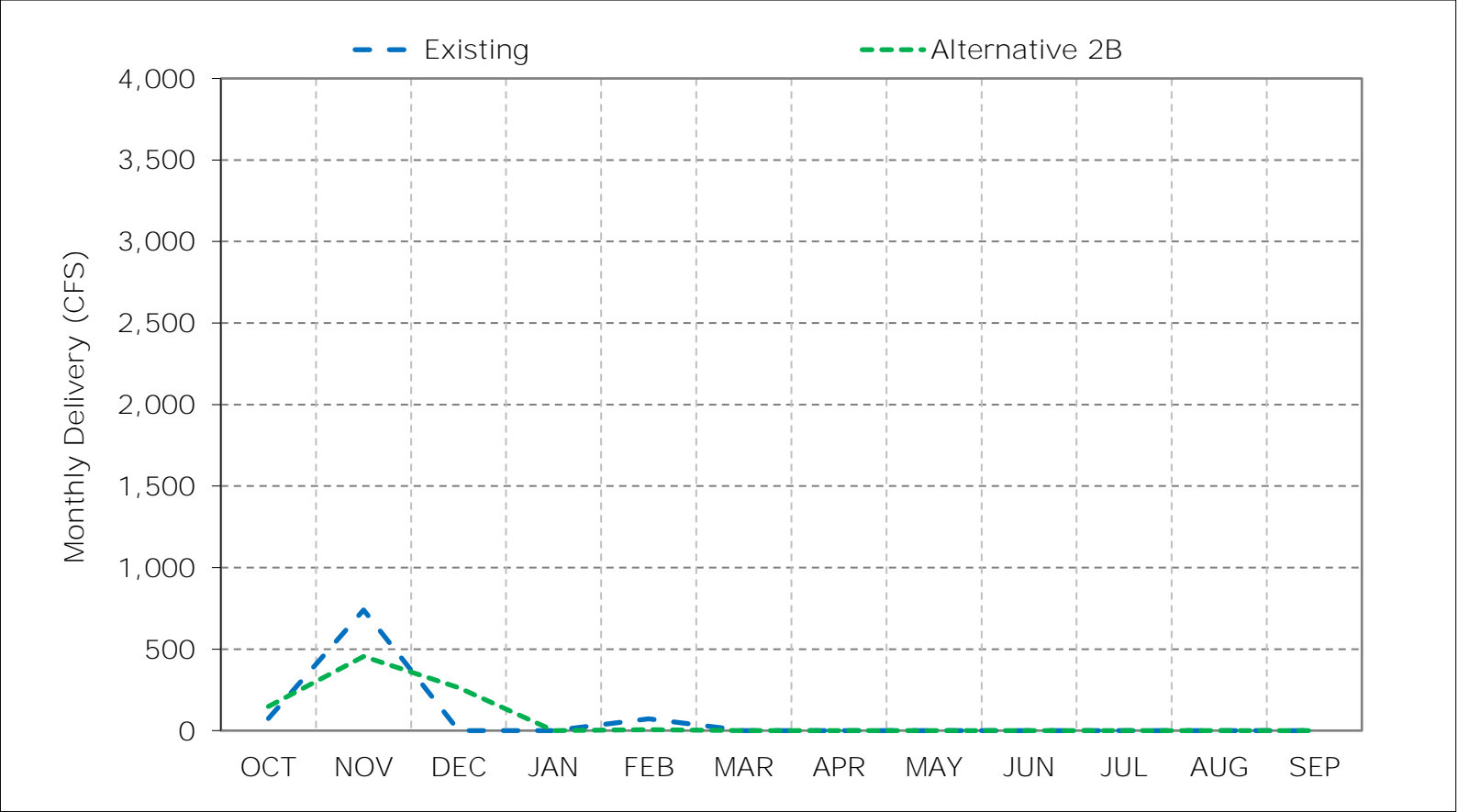
Figure 5-2. CVP Banks PP Exports, Wet Year Average Delivery



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

\*These results are displayed with water year - year type sorting.

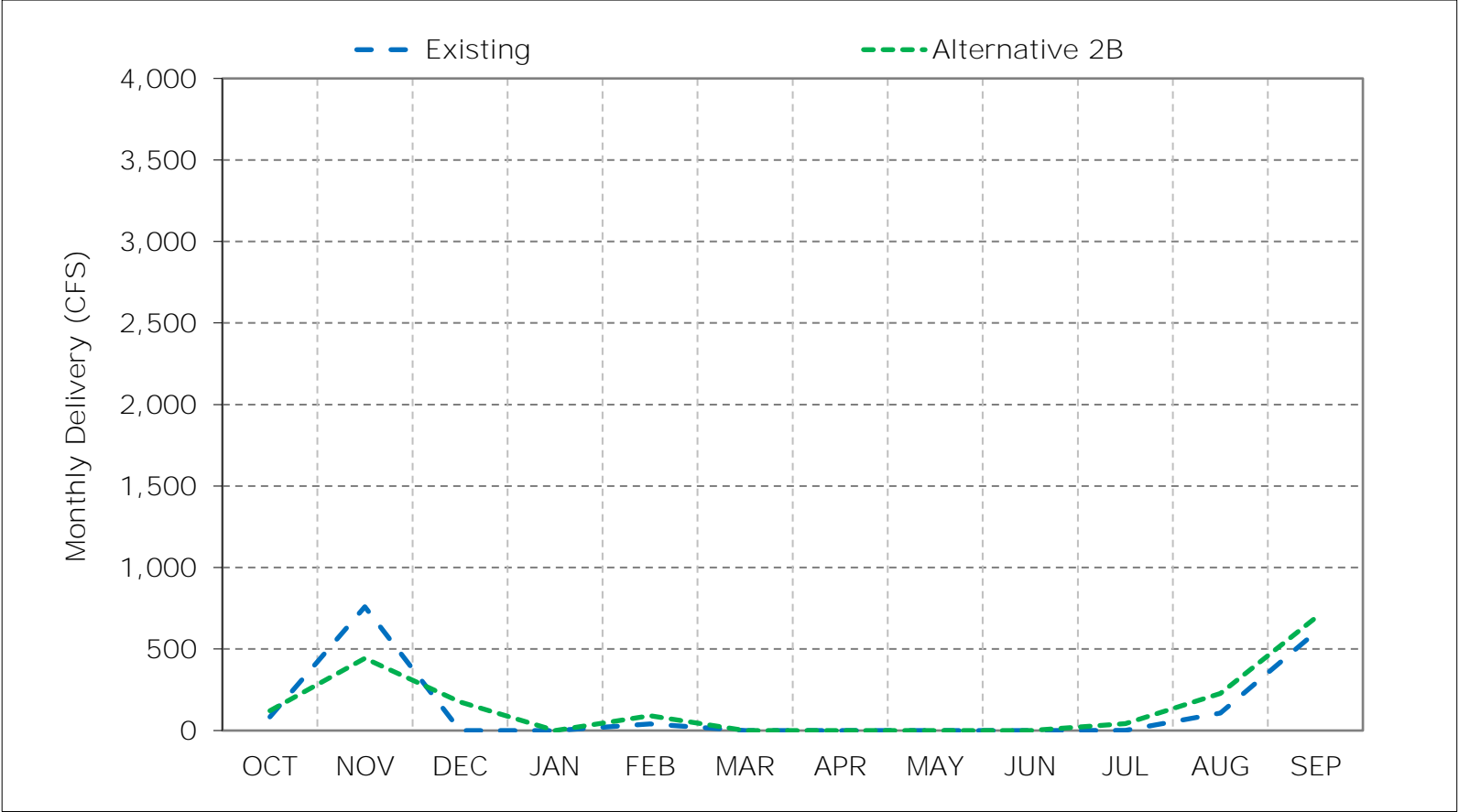
Figure 5-3. CVP Banks PP Exports, Above Normal Year Average Delivery



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

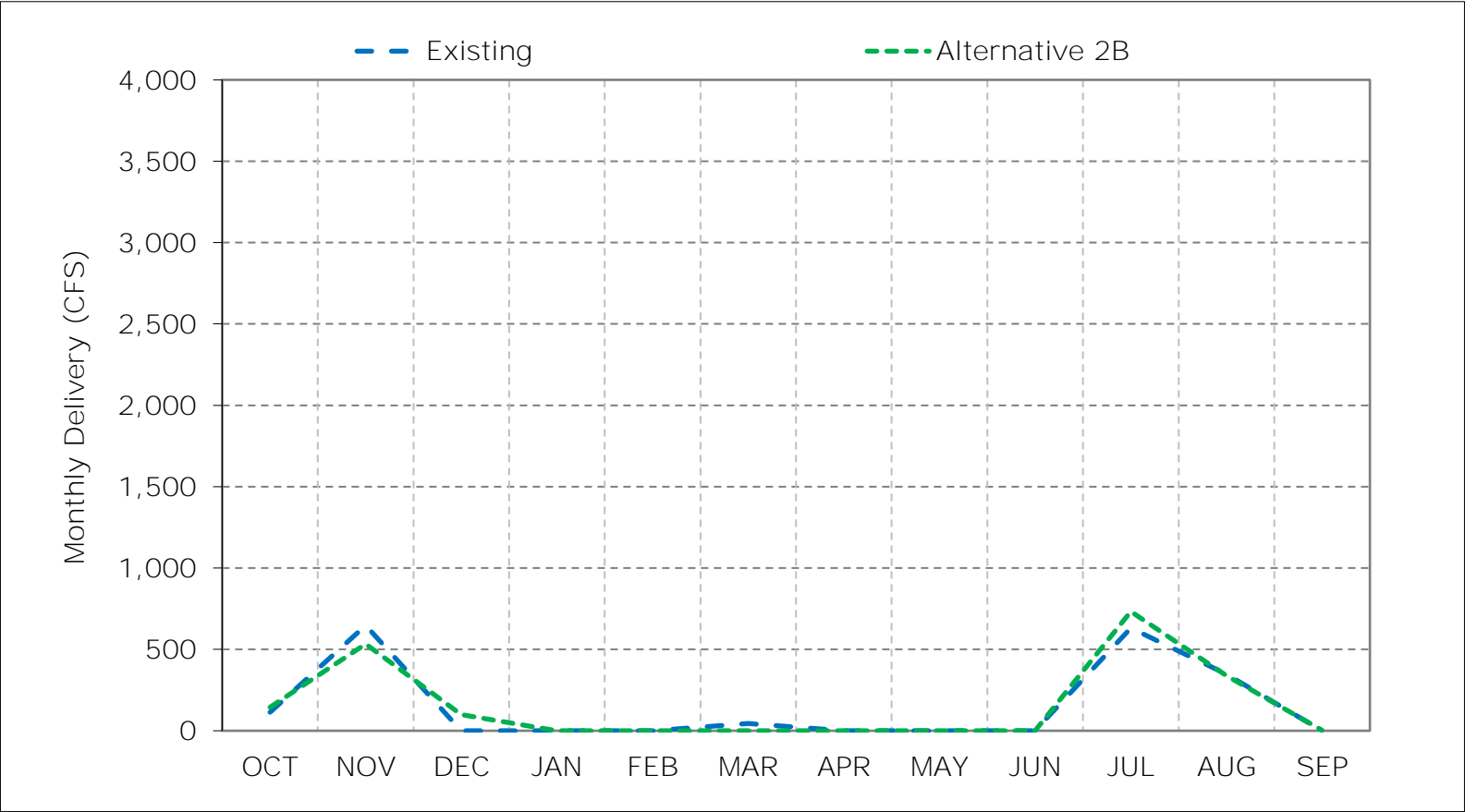


Figure 5-4. CVP Banks PP Exports, Below Normal Year Average Delivery



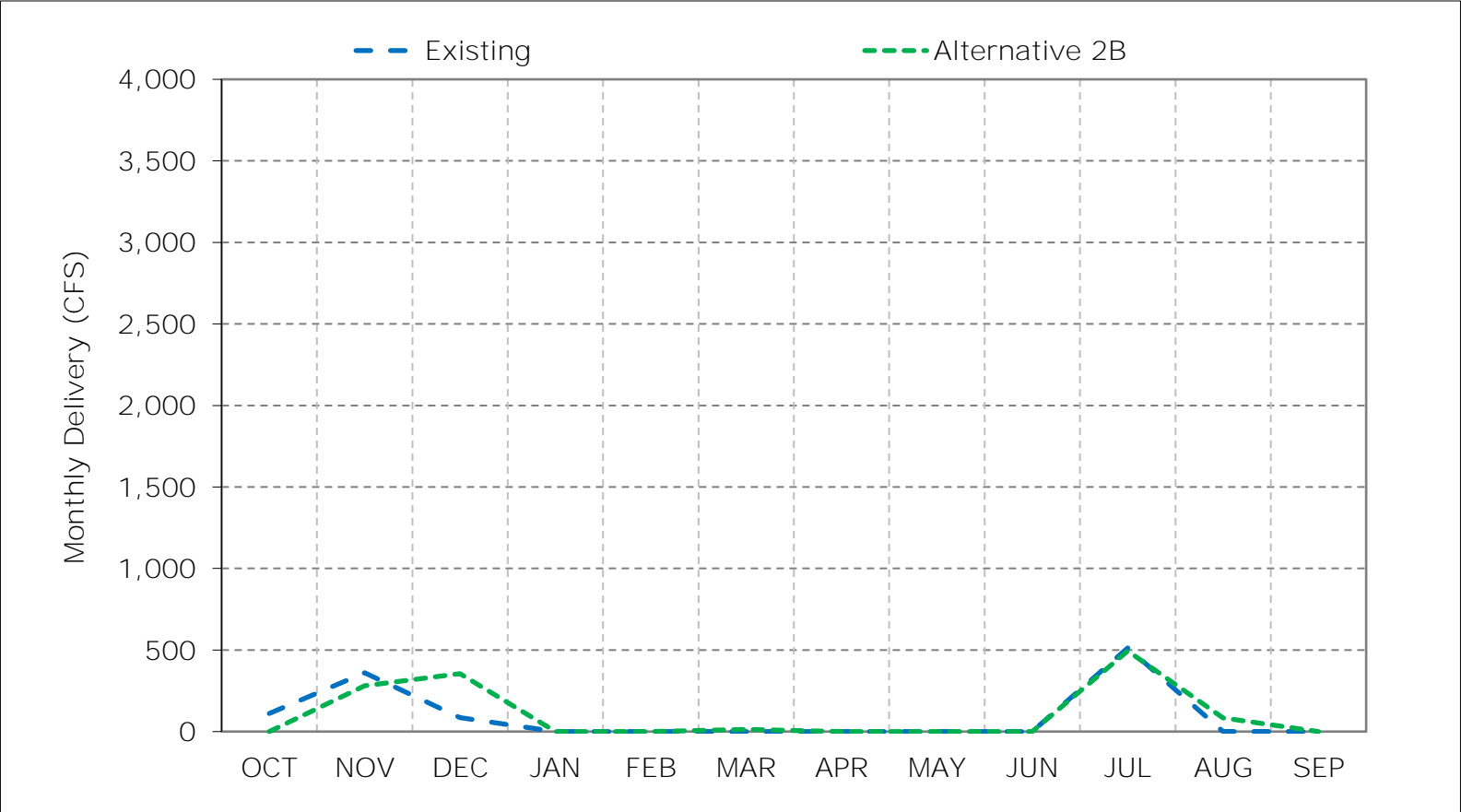
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 5-5. CVP Banks PP Exports, Dry Year Average Delivery



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 5-6. CVP Banks PP Exports, Critical Year Average Delivery



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

\*These results are displayed with water year - year type sorting.

Figure 5-7. CVP Banks PP Exports, October

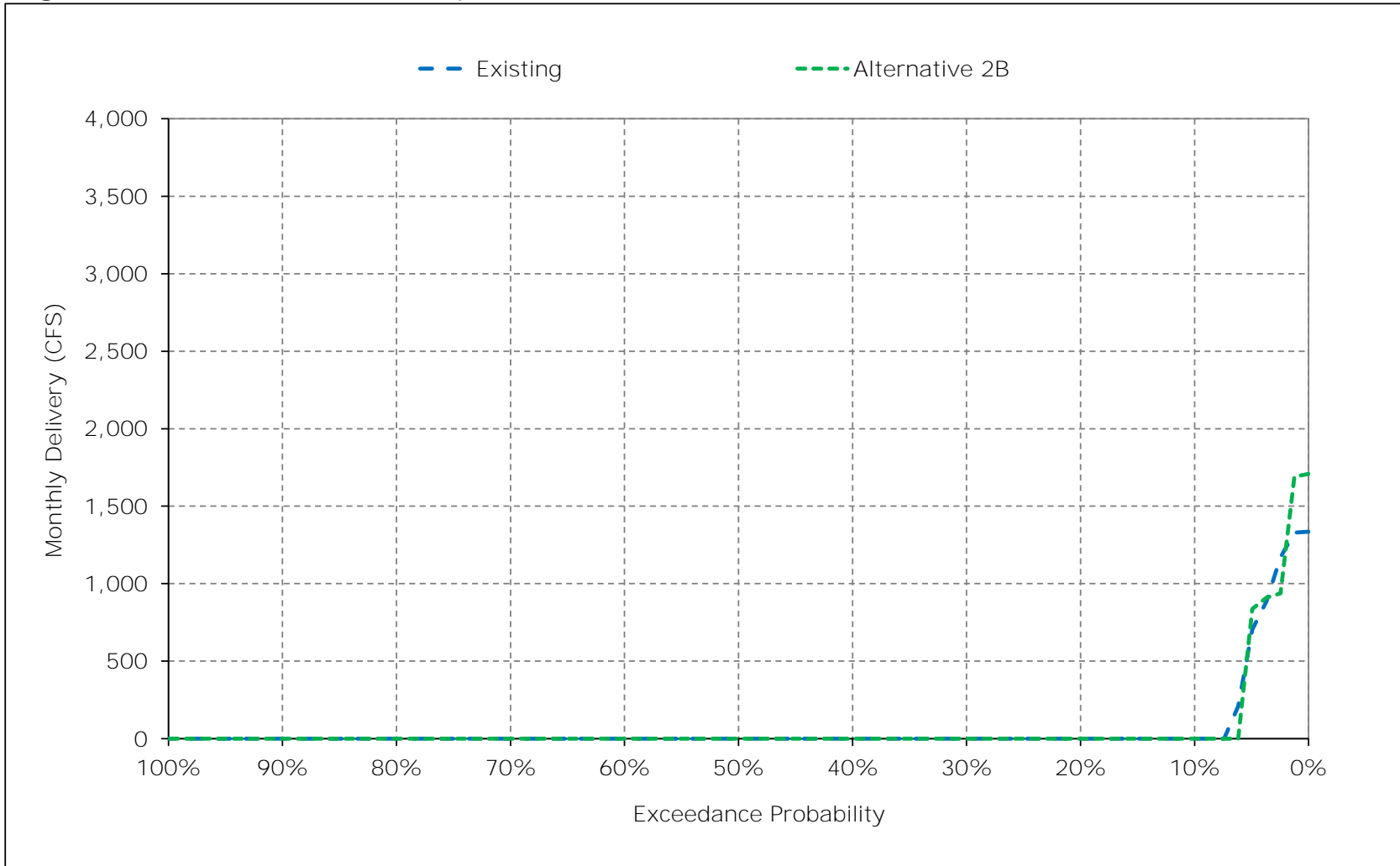


Figure 5-8. CVP Banks PP Exports, November

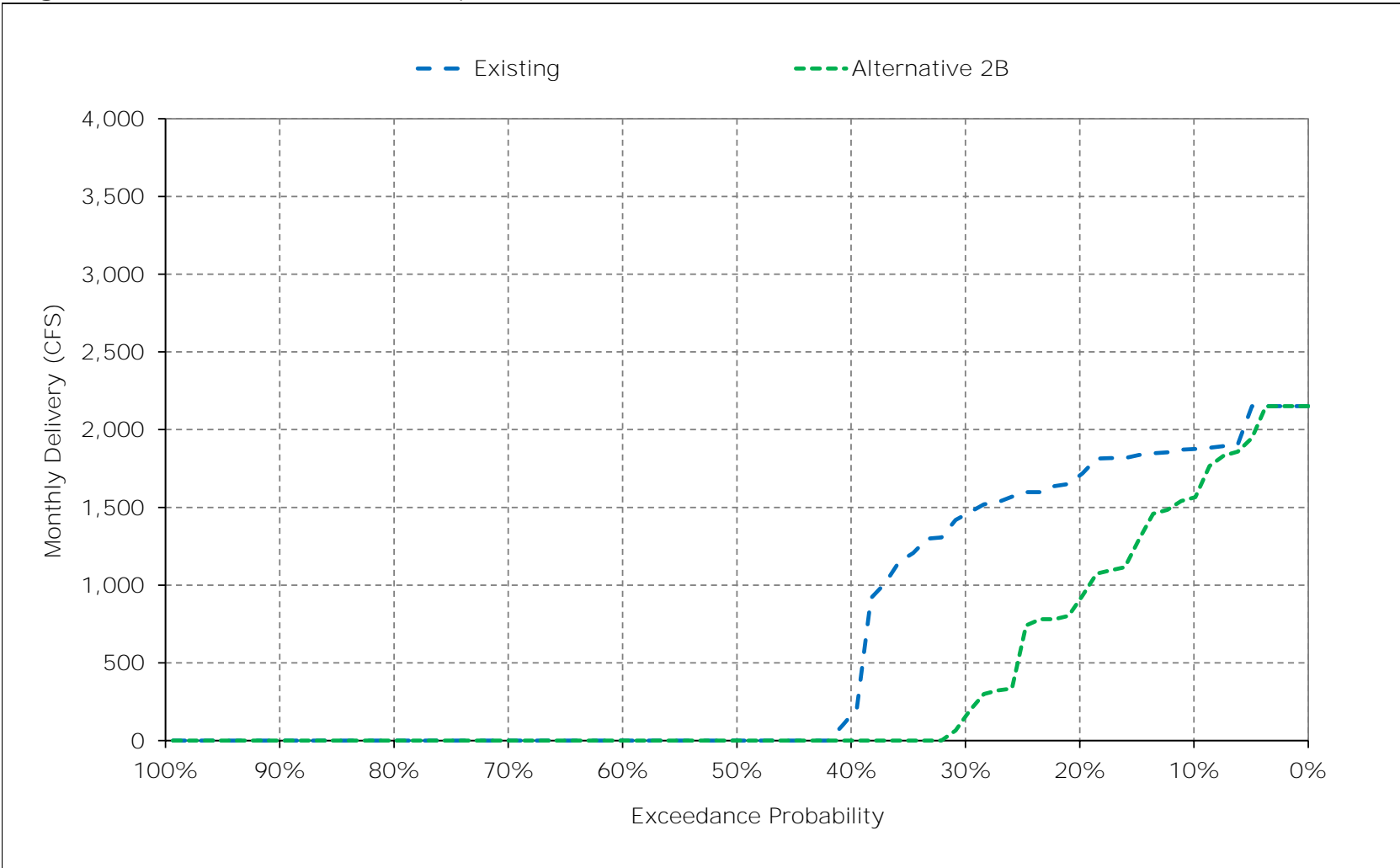


Figure 5-9. CVP Banks PP Exports, December

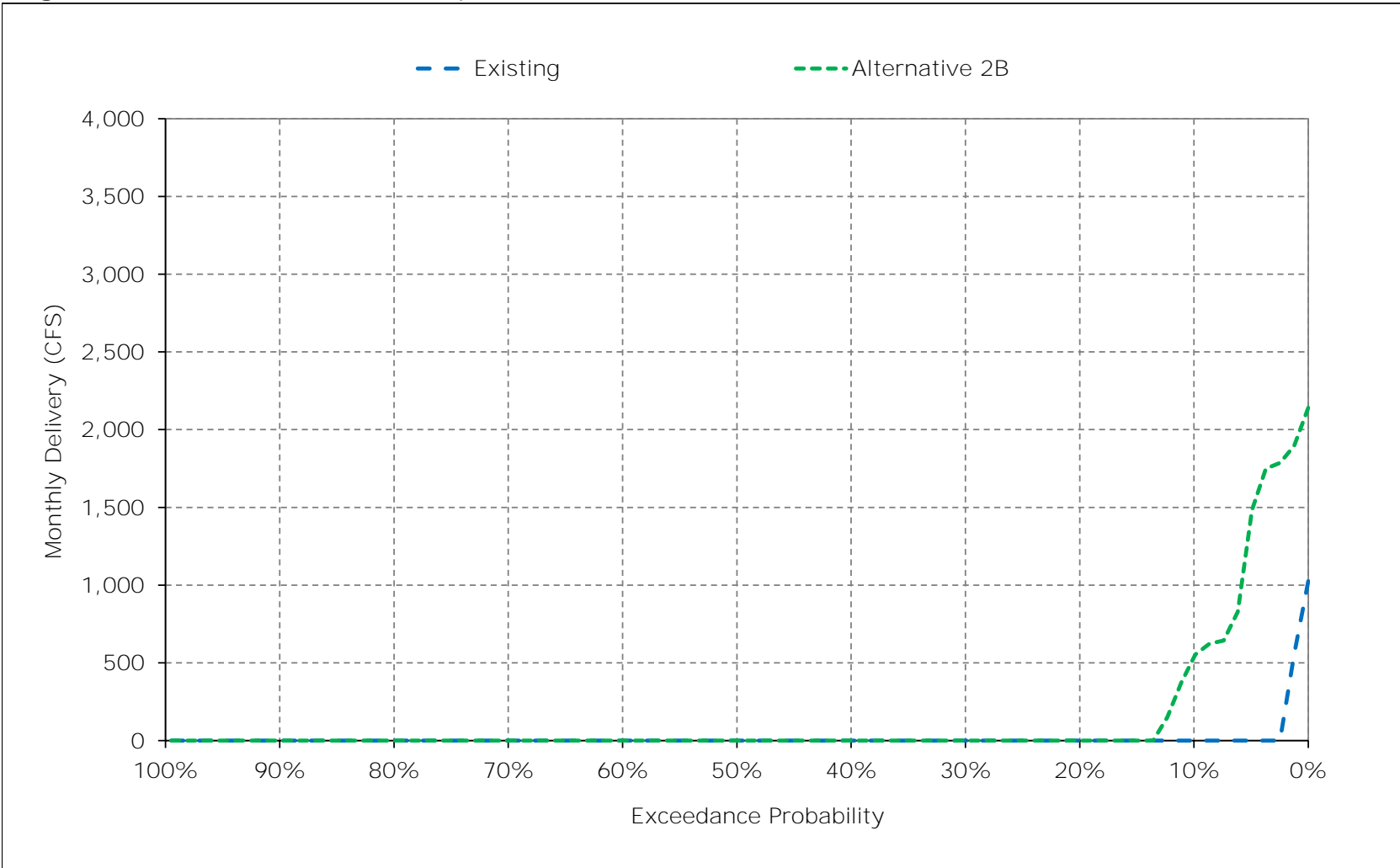


Figure 5-10. CVP Banks PP Exports, January

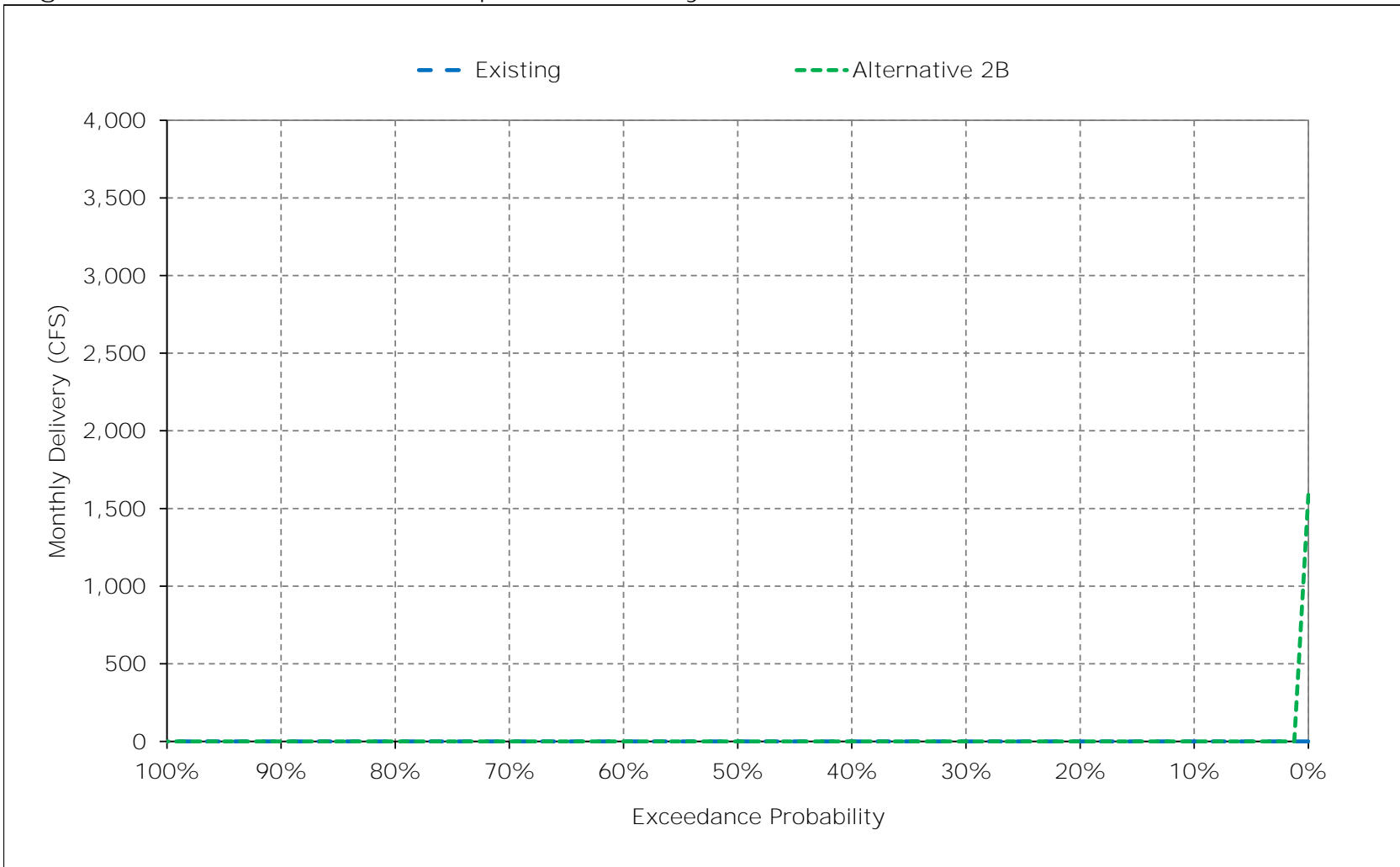


Figure 5-11. CVP Banks PP Exports, February

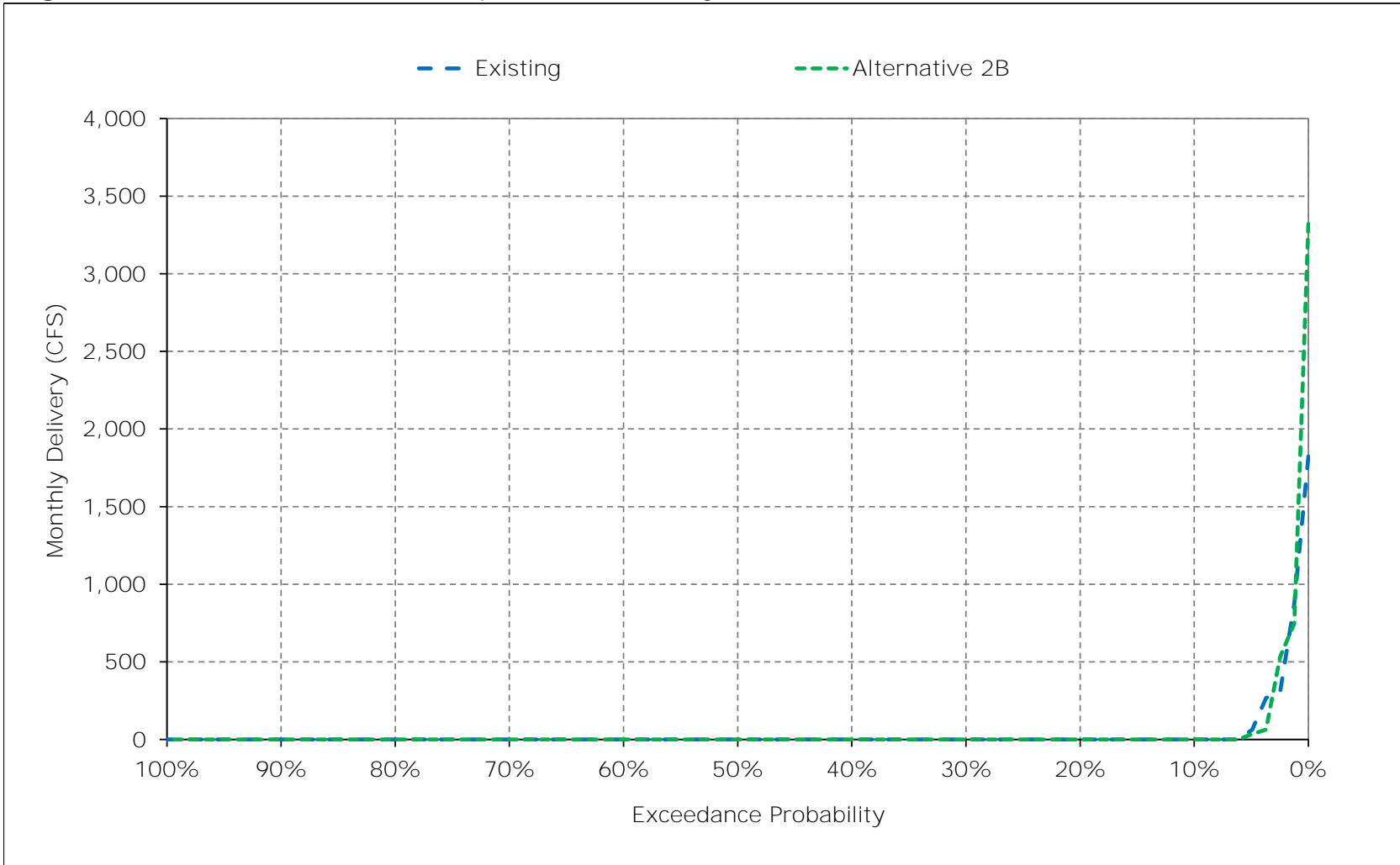




Figure 5-12. CVP Banks PP Exports, March

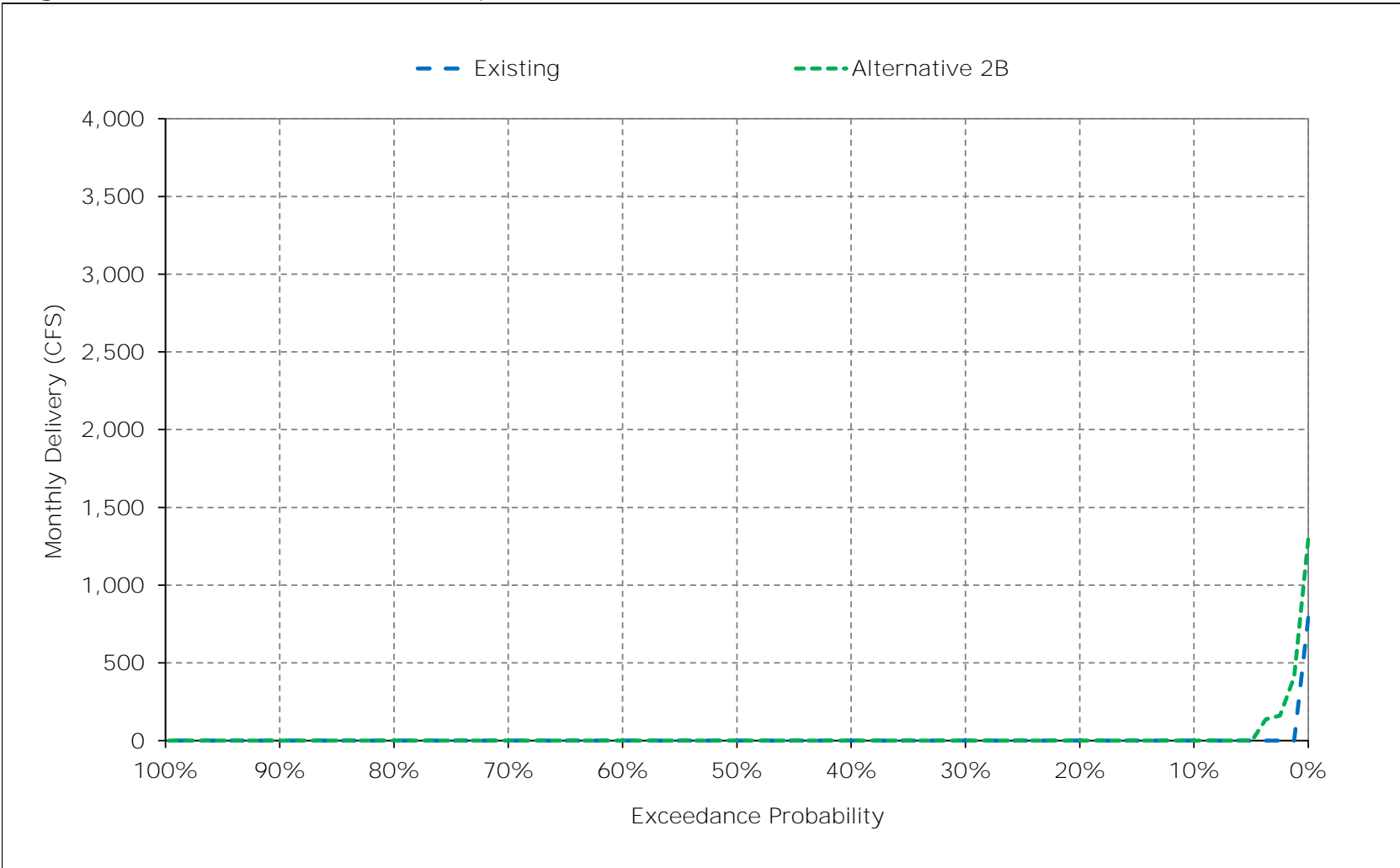


Figure 5-13. CVP Banks PP Exports, April

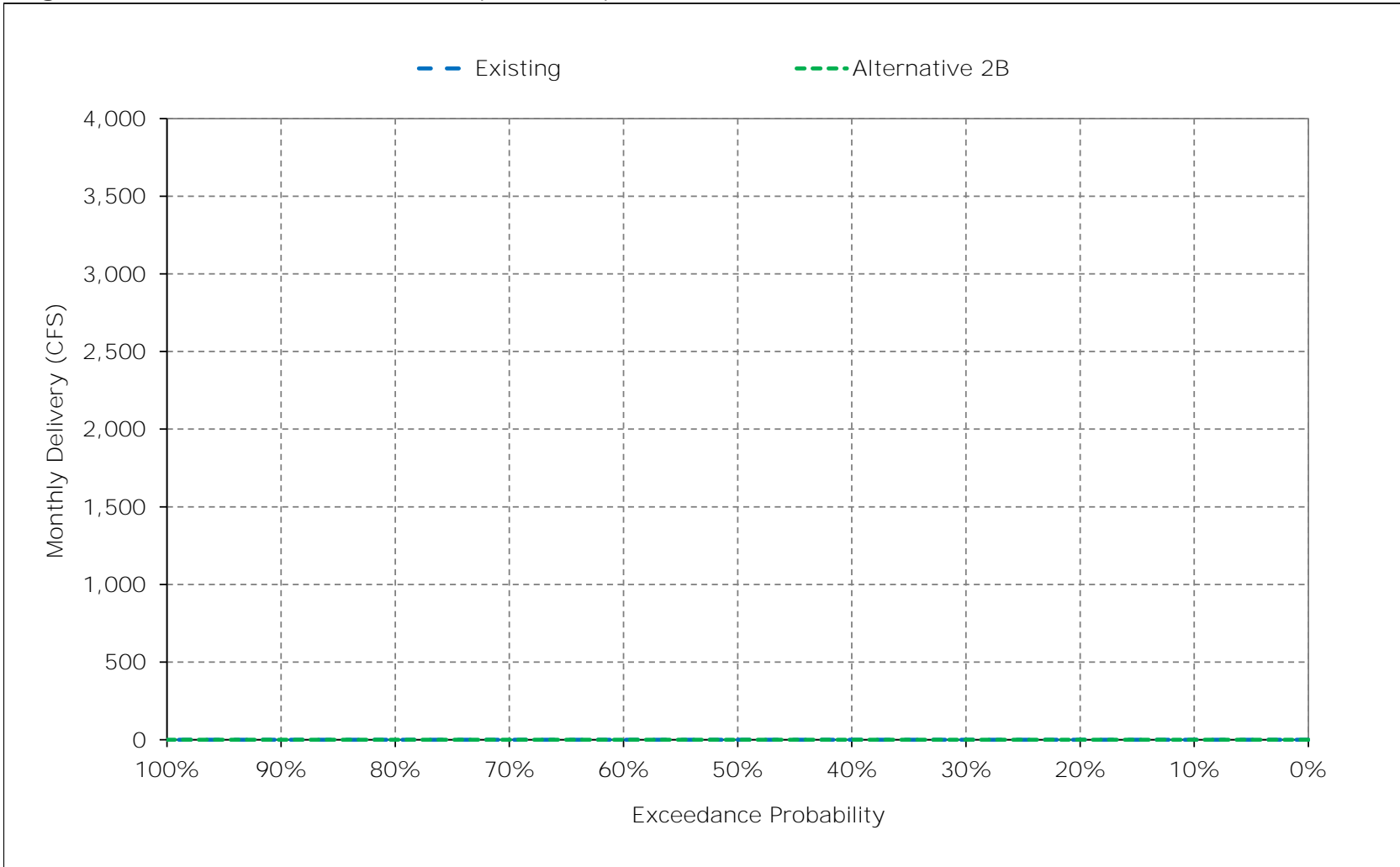


Figure 5-14. CVP Banks PP Exports, May

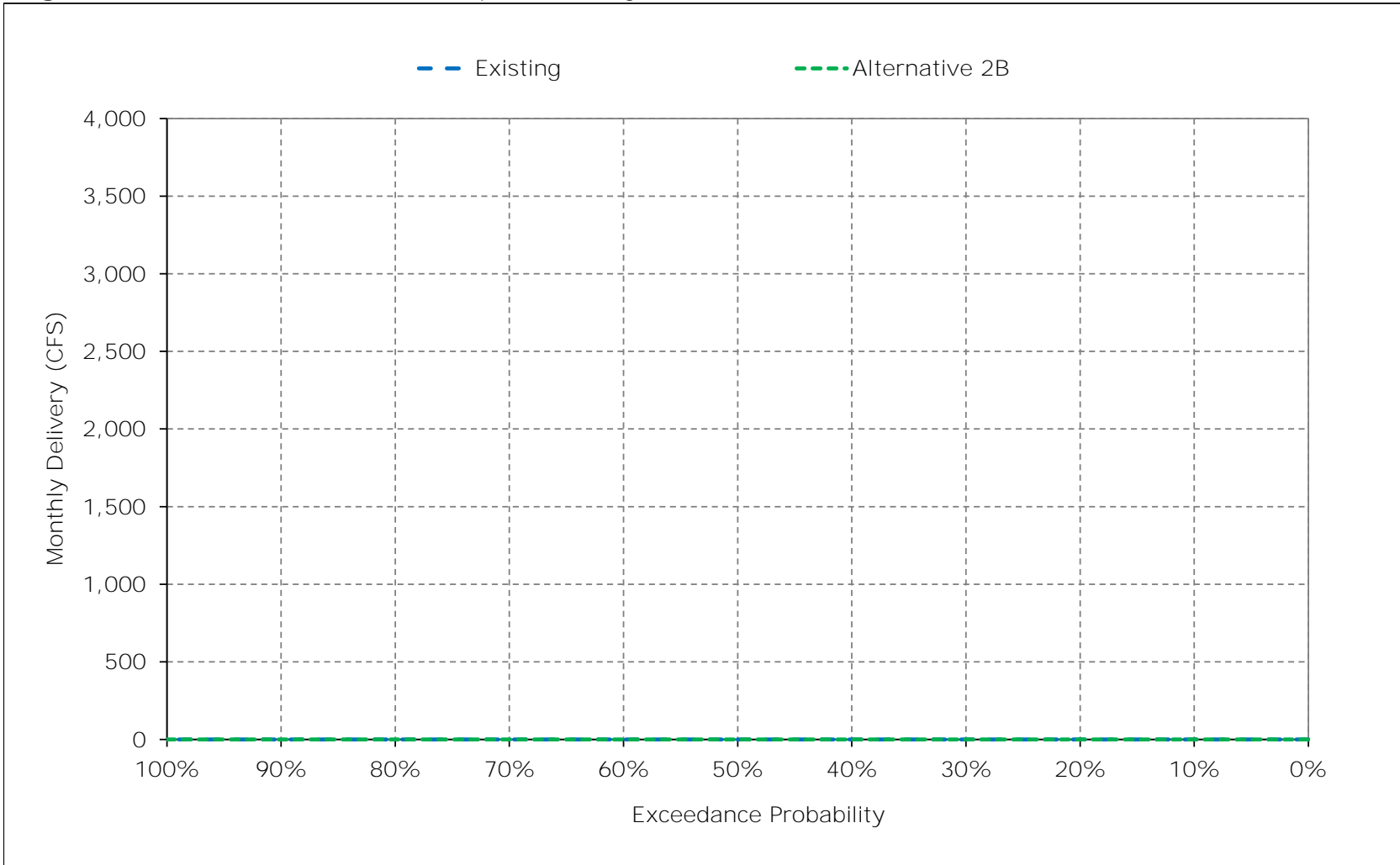


Figure 5-15. CVP Banks PP Exports, June

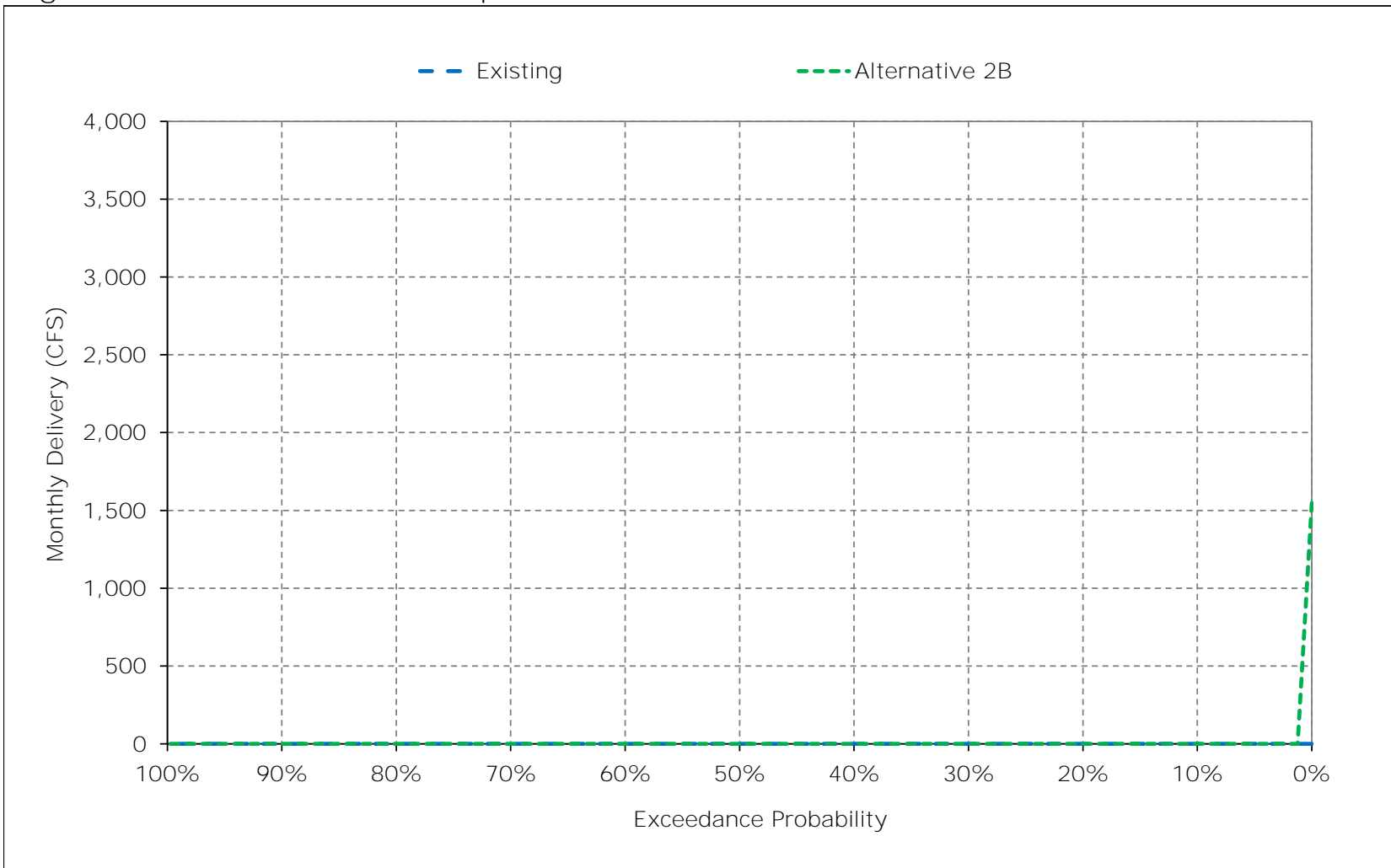


Figure 5-16. CVP Banks PP Exports, July

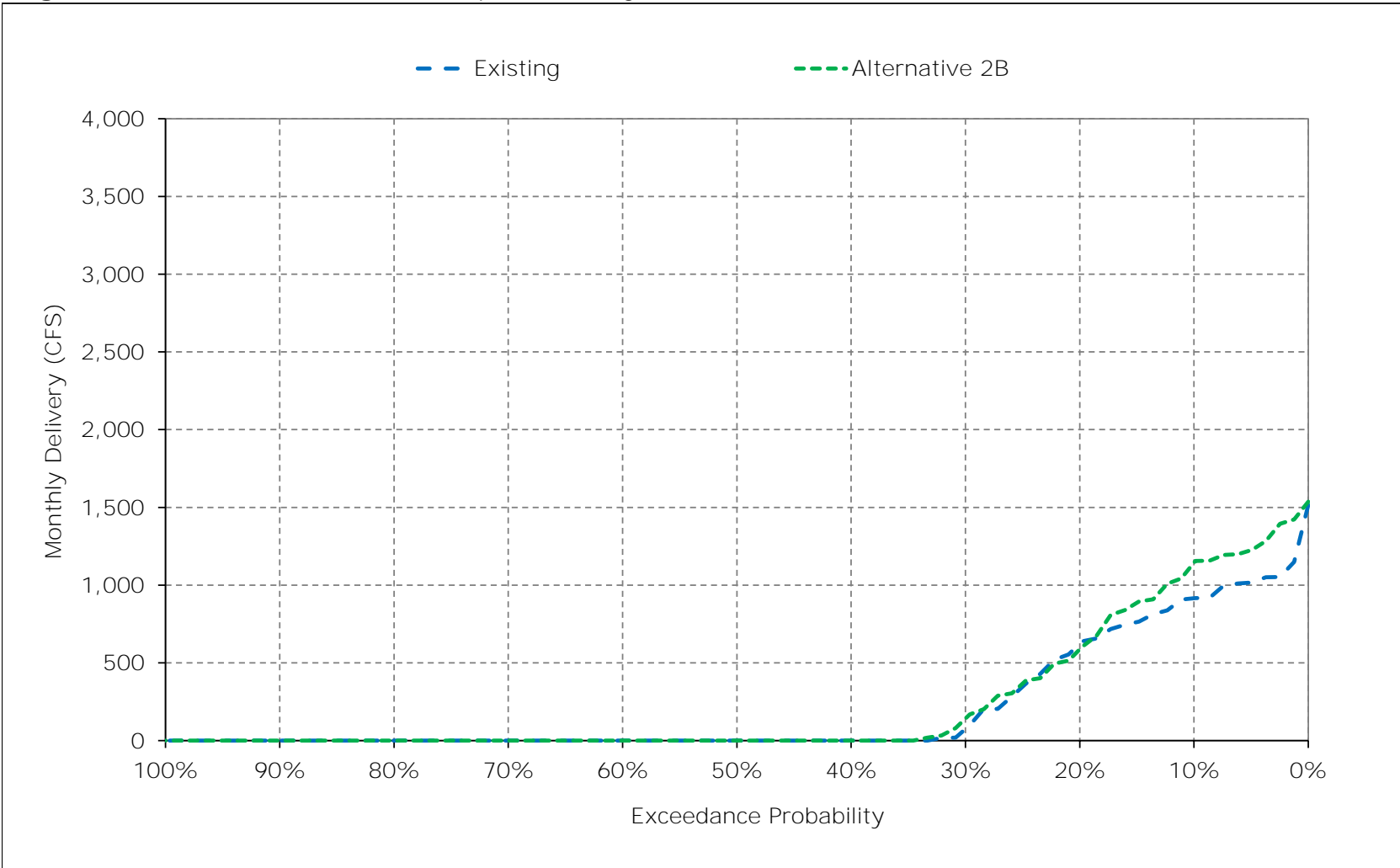


Figure 5-17. CVP Banks PP Exports, August

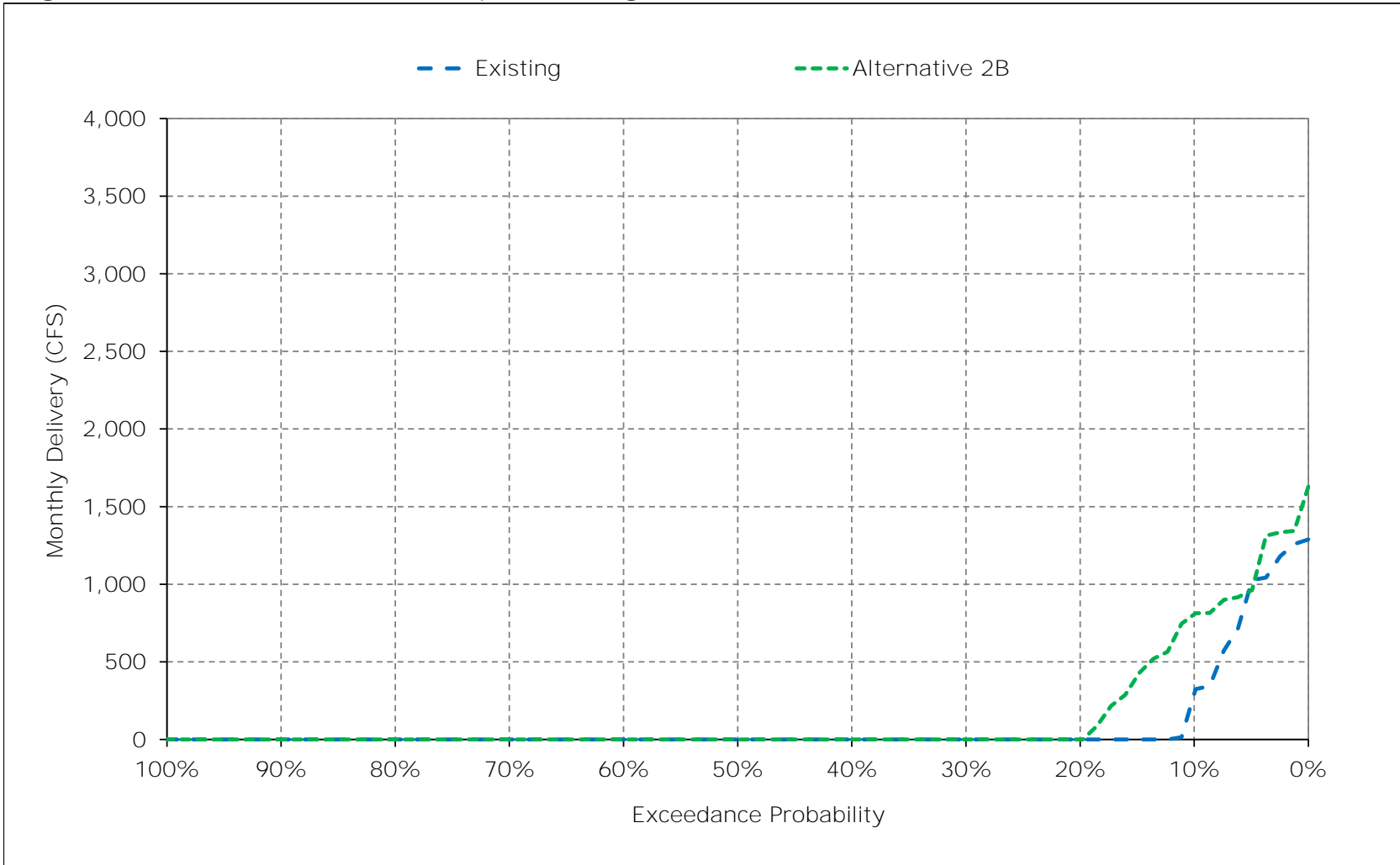


Figure 5-18. CVP Banks PP Exports, September

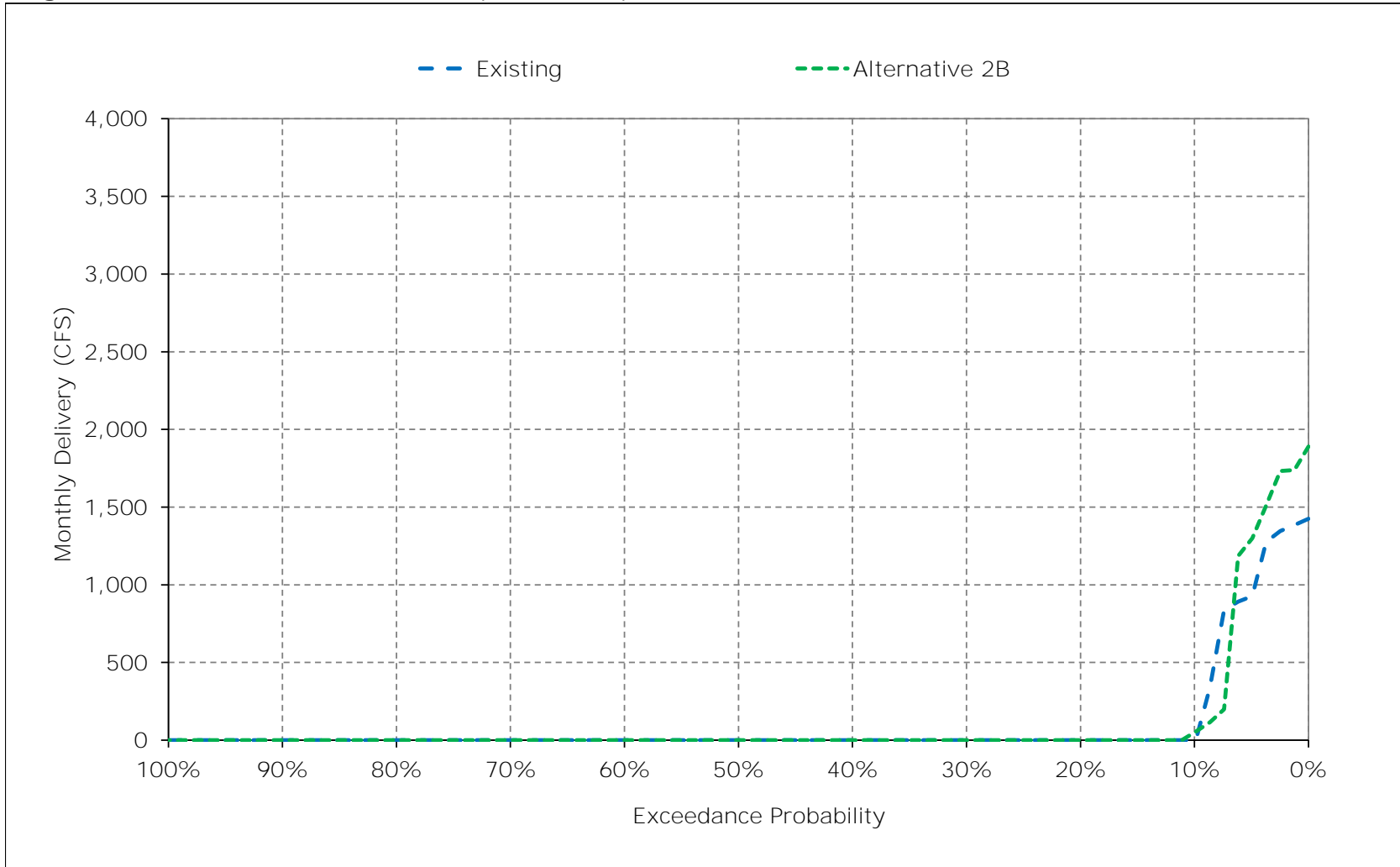


Table 6-1. Banks PP Exports, Monthly Delivery

Existing												
Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,172	6,680	7,105	5,846	7,403	8,190	1,330	1,106	4,310	6,930	7,042	6,680
20%	4,189	6,460	7,043	3,432	5,331	5,223	935	766	3,083	6,903	7,008	6,680
30%	3,988	4,842	6,672	2,864	4,069	4,832	787	637	2,325	6,873	6,965	6,680
40%	3,576	4,299	4,565	2,770	3,356	3,773	712	600	2,119	6,782	6,930	6,680
50%	3,193	3,504	4,000	2,707	2,877	2,912	673	600	1,935	6,680	6,774	6,519
60%	2,882	3,106	3,487	2,621	2,689	2,634	606	600	1,848	6,680	6,680	4,063
70%	2,297	2,691	3,017	2,601	2,622	2,386	600	600	1,757	5,793	1,588	2,826
80%	1,813	2,277	2,819	2,485	2,559	2,249	600	600	1,663	4,160	628	2,543
90%	986	1,765	2,565	2,204	2,423	1,632	600	526	549	1,076	305	1,903
Long Term												
Full Simulation Period <sup>a</sup>	3,165	3,956	4,602	3,302	3,943	3,803	873	811	2,349	5,543	4,684	4,802
Water Year Types <sup>b,c</sup>												
Wet (32%)	3,688	4,850	4,542	4,574	5,413	5,783	1,264	1,270	3,555	6,722	6,901	6,617
Above Normal (15%)	3,152	3,621	5,362	3,151	4,187	3,956	706	656	2,482	6,513	6,990	6,680
Below Normal (17%)	3,198	4,171	4,908	2,768	3,891	3,682	672	632	2,049	6,892	6,775	5,404
Dry (22%)	2,902	3,799	4,607	2,692	2,683	2,427	695	628	1,721	4,996	1,105	2,748
Critical (15%)	2,400	2,341	3,610	2,234	2,464	1,566	692	454	894	1,268	503	1,372
Alternative 2B												
Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6,607	6,680	7,080	5,849	6,903	6,210	3,176	3,405	4,307	6,924	6,902	6,680
20%	5,083	6,680	7,033	3,949	5,606	4,078	2,113	754	2,964	6,882	5,472	6,680
30%	4,505	6,680	6,036	3,201	4,321	3,429	766	601	2,168	6,826	5,380	6,680
40%	4,051	6,680	5,044	2,904	3,502	2,863	683	600	1,956	6,683	5,334	6,680
50%	3,681	6,044	4,188	2,844	3,031	2,443	603	600	1,888	6,680	5,138	5,314
60%	3,101	4,956	3,610	2,748	2,840	2,200	600	600	1,803	6,290	5,054	3,352
70%	2,491	3,689	3,021	2,625	2,618	1,986	600	600	1,764	5,341	1,619	2,727
80%	2,008	2,987	2,819	2,530	2,507	1,798	600	600	1,696	3,101	562	2,365
90%	1,183	2,104	2,619	2,217	2,398	1,622	600	493	463	1,189	365	1,590
Long Term												
Full Simulation Period <sup>a</sup>	3,586	5,069	4,620	3,452	3,957	3,146	1,241	1,046	2,310	5,351	3,921	4,571
Water Year Types <sup>b,c</sup>												
Wet (32%)	4,234	6,229	4,523	4,678	5,488	4,979	2,358	1,921	3,525	6,533	5,256	6,096
Above Normal (15%)	3,564	4,572	4,992	3,177	3,919	3,035	914	901	2,462	6,441	5,364	6,680
Below Normal (17%)	3,804	5,368	5,015	2,984	4,016	2,763	813	638	2,006	6,704	6,587	5,030
Dry (22%)	3,225	4,698	4,951	2,923	2,758	1,967	641	598	1,727	4,486	1,087	2,684
Critical (15%)	2,493	3,260	3,502	2,410	2,411	1,500	544	444	752	1,421	728	1,455
Alternative 2B minus Existing												
Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,435	0	-24	3	-499	-1,980	1,846	2,299	-3	-5	-140	0
20%	893	220	-10	516	275	-1,145	1,177	-12	-119	-22	-1,536	0
30%	517	1,838	-636	337	252	-1,403	-21	-36	-157	-48	-1,585	0
40%	475	2,381	479	134	146	-910	-29	0	-163	-99	-1,596	0
50%	489	2,540	188	137	154	-469	-70	0	-47	0	-1,636	-1,205
60%	219	1,851	123	126	151	-435	-6	0	-45	-390	-1,626	-711
70%	194	998	5	24	-5	-400	0	0	6	-452	31	-99
80%	195	710	0	45	-53	-452	0	0	32	-1,059	-67	-179
90%	197	339	54	13	-25	-10	0	-33	-86	113	60	-313
Long Term												
Full Simulation Period <sup>a</sup>	421	1,112	18	150	15	-658	368	235	-39	-192	-763	-231
Water Year Types <sup>b,c</sup>												
Wet (32%)	547	1,379	-18	104	75	-804	1,094	651	-30	-189	-1,645	-522
Above Normal (15%)	412	950	-370	26	-268	-921	207	245	-20	-72	-1,626	0
Below Normal (17%)	606	1,196	107	216	124	-919	141	7	-43	-189	-188	-374
Dry (22%)	323	899	344	231	75	-460	-54	-31	6	-510	-18	-64
Critical (15%)	92	918	-107	176	-52	-67	-148	-11	-141	152	225	83

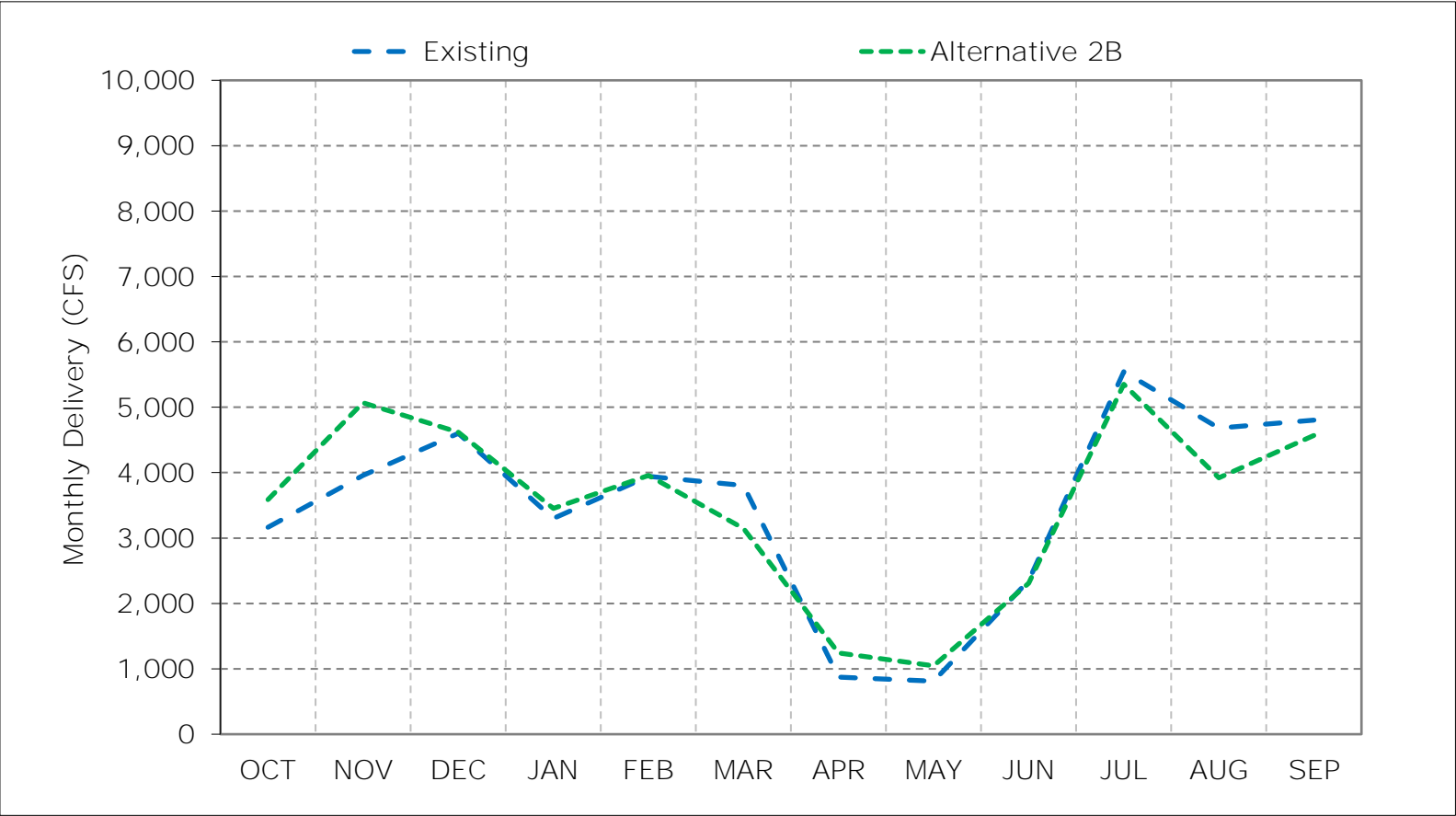
a Based on the 82-year simulation period.

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 water year - year type sorting.

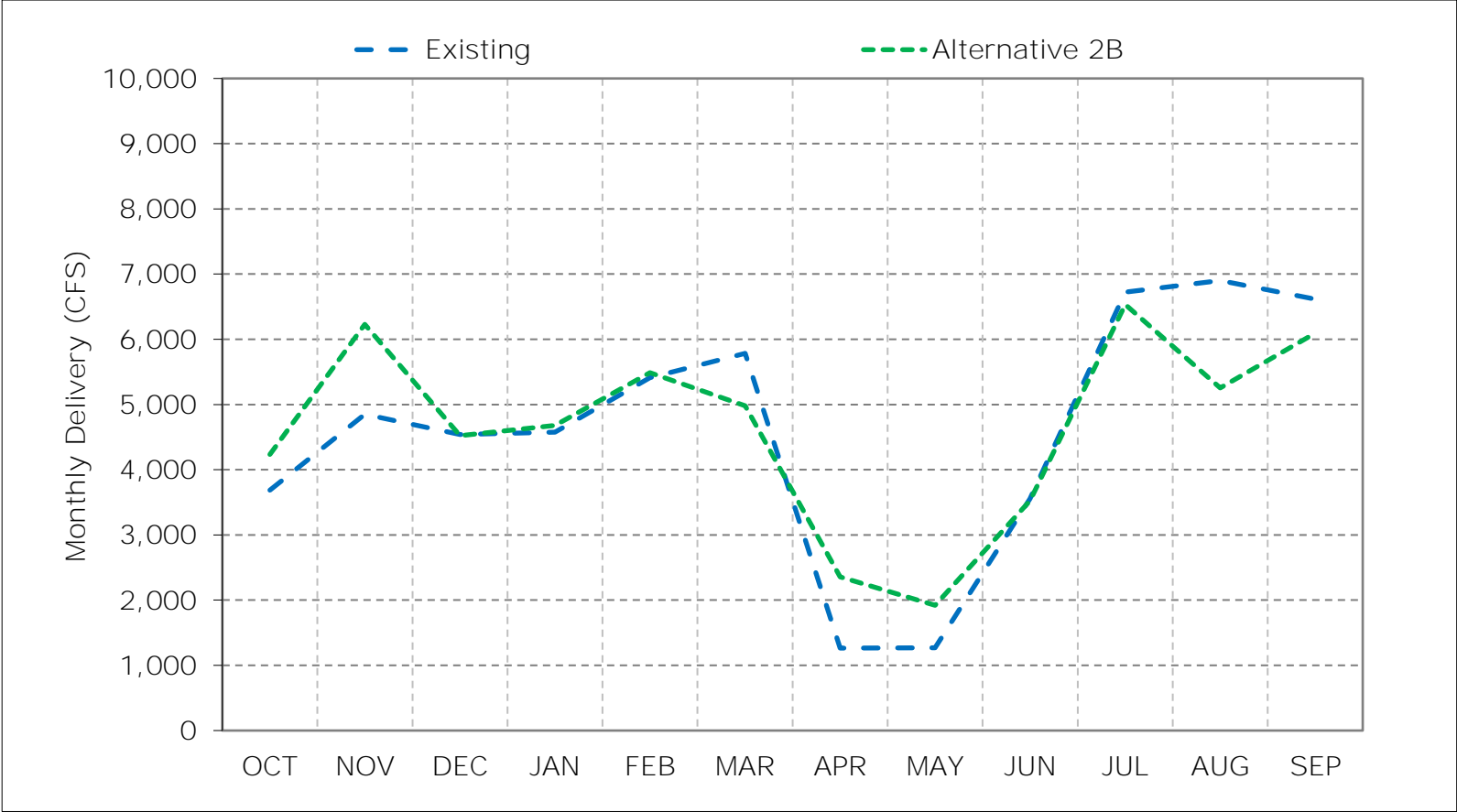


Figure 6-1. Banks PP Exports, Long-Term Average Delivery



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

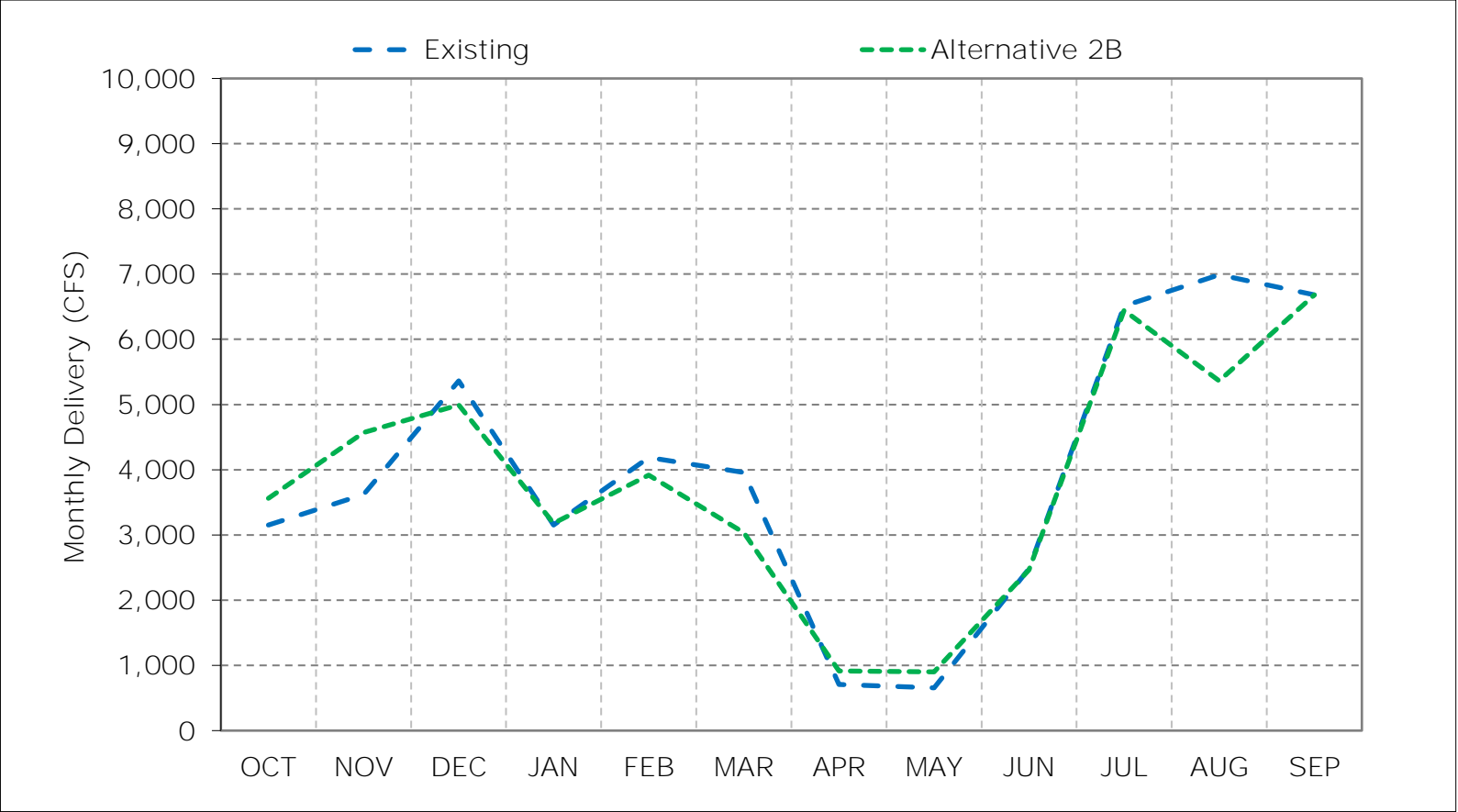
Figure 6-2. Banks PP Exports, Wet Year Average Delivery



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

\*These results are displayed with water year - year type sorting.

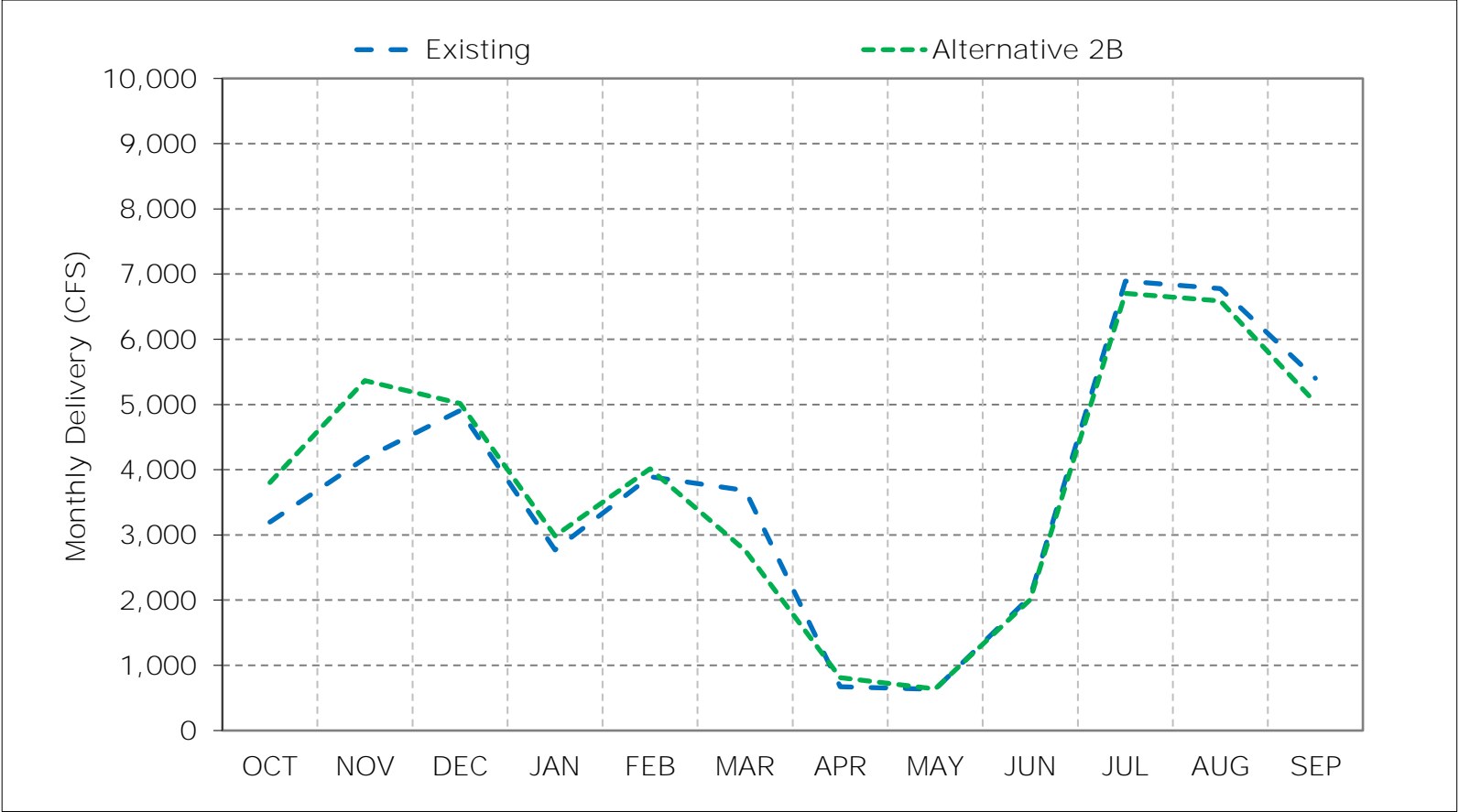
Figure 6-3. Banks PP Exports, Above Normal Year Average Delivery



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

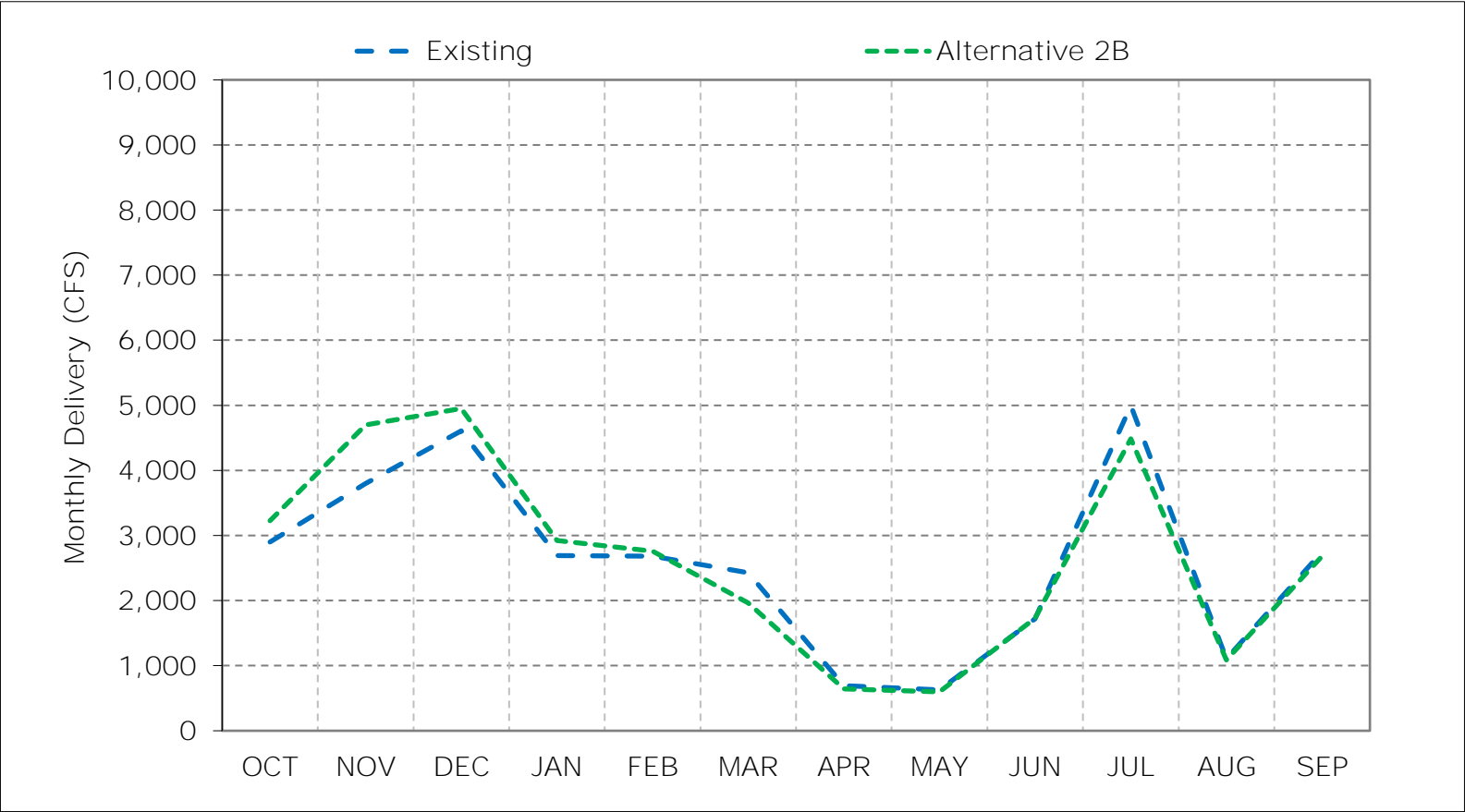
\*These results are displayed with water year - year type sorting.

Figure 6-4. Banks PP Exports, Below Normal Year Average Delivery



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

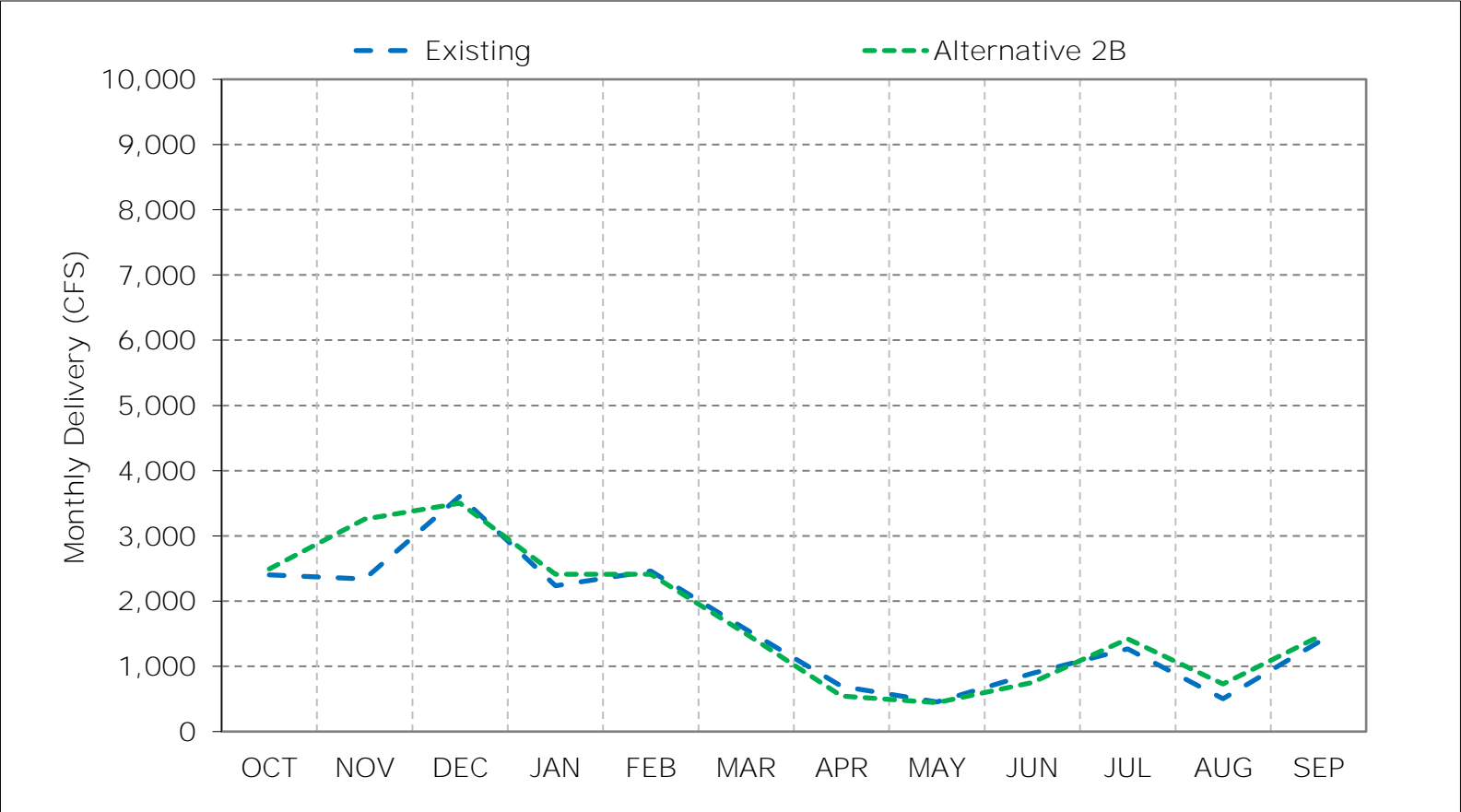
Figure 6-5. Banks PP Exports, Dry Year Average Delivery



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

\*These results are displayed with water year - year type sorting.

Figure 6-6. Banks PP Exports, Critical Year Average Delivery



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

\*These results are displayed with water year - year type sorting.

Figure 6-7. Banks PP Exports, October

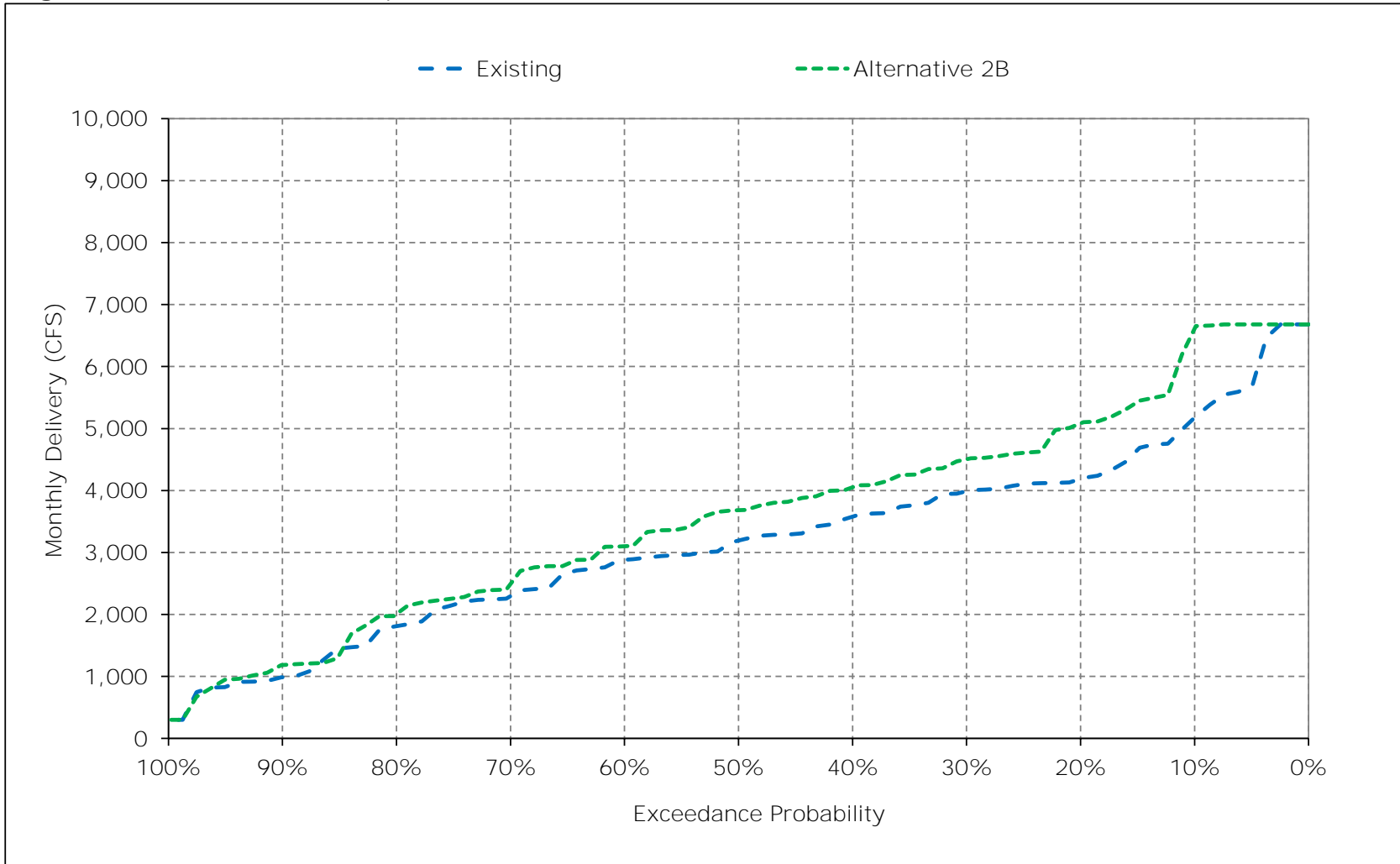


Figure 6-8. Banks PP Exports, November

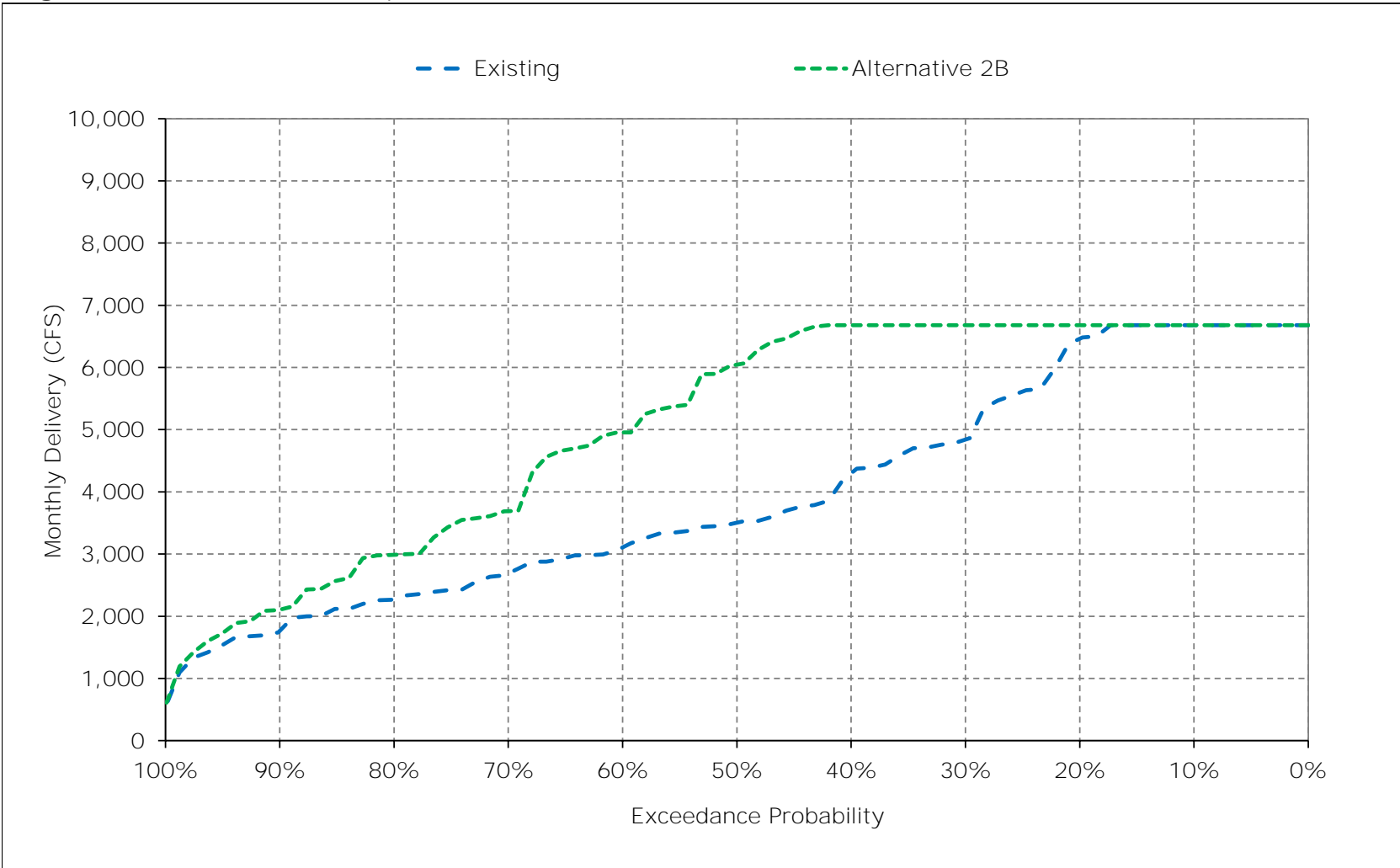




Figure 6-9. Banks PP Exports, December

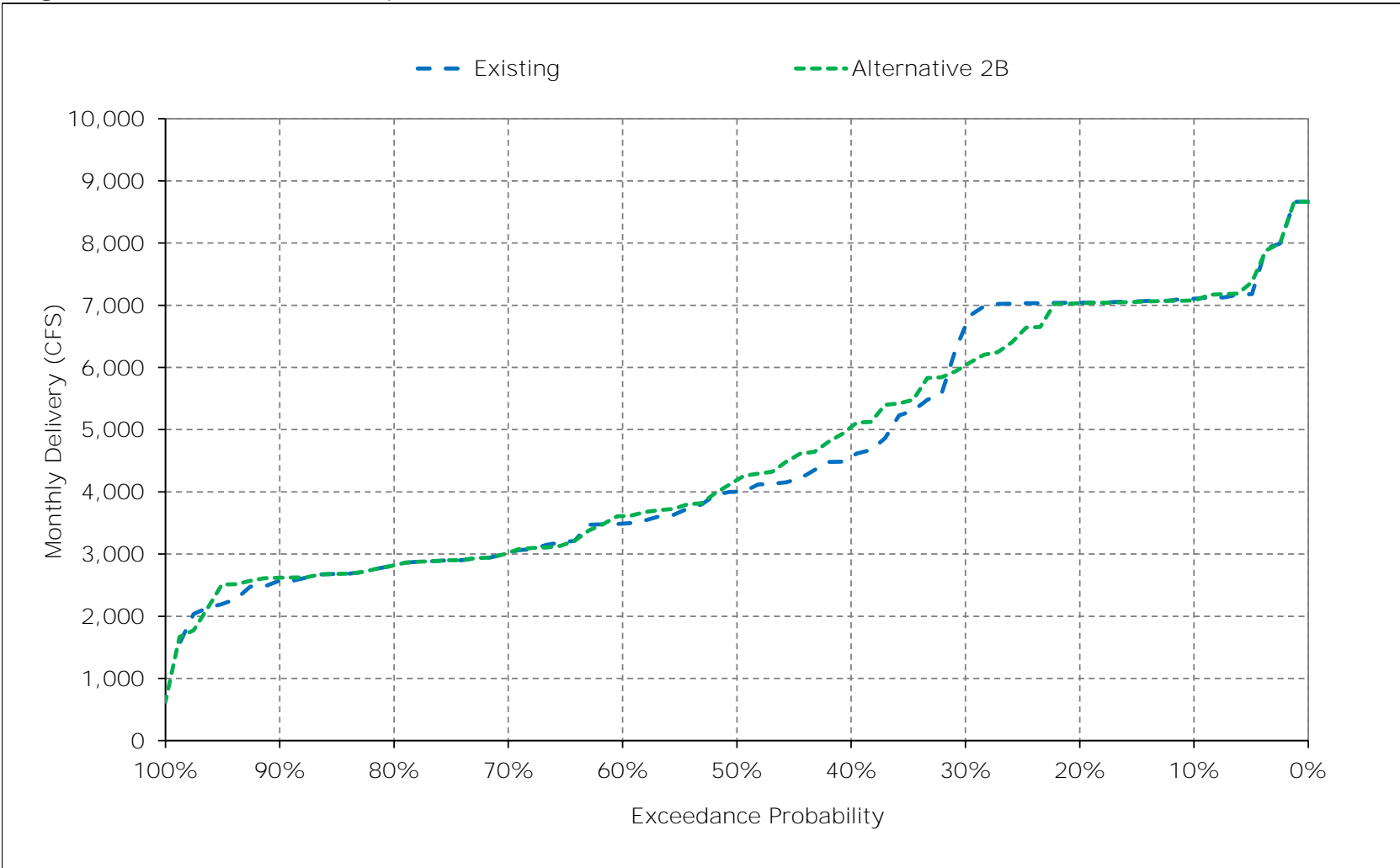


Figure 6-10. Banks PP Exports, January

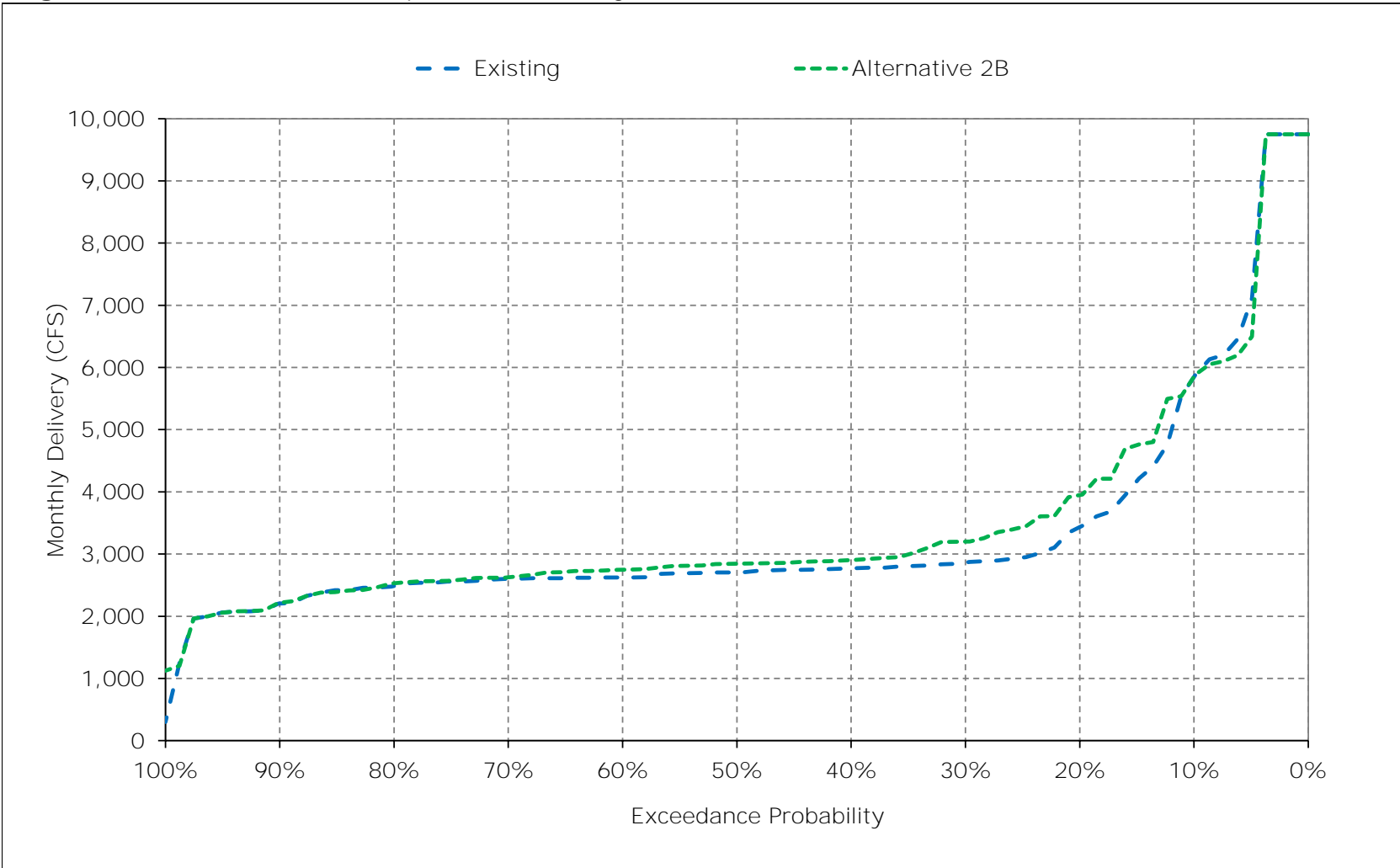


Figure 6-11. Banks PP Exports, February

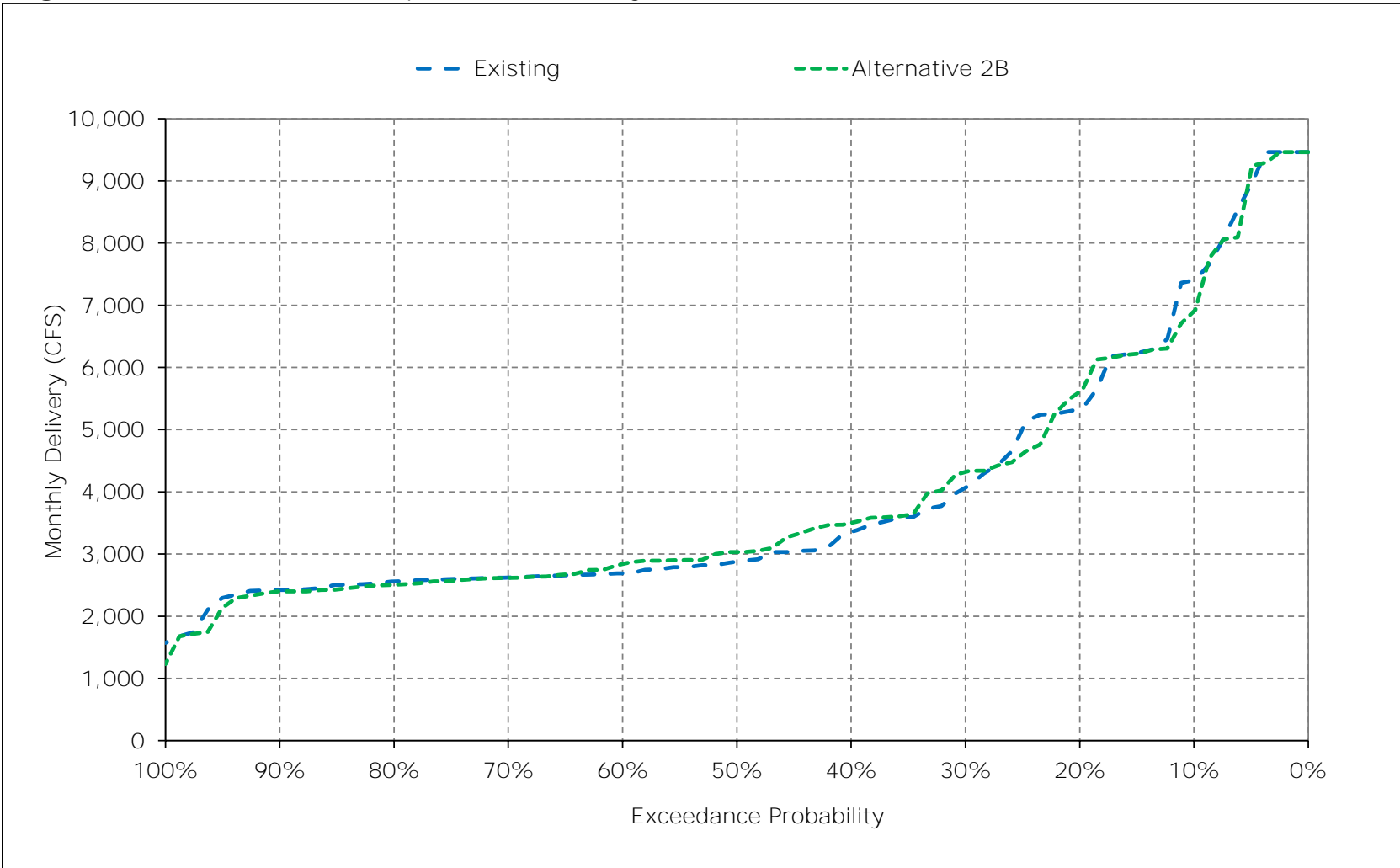


Figure 6-12. Banks PP Exports, March

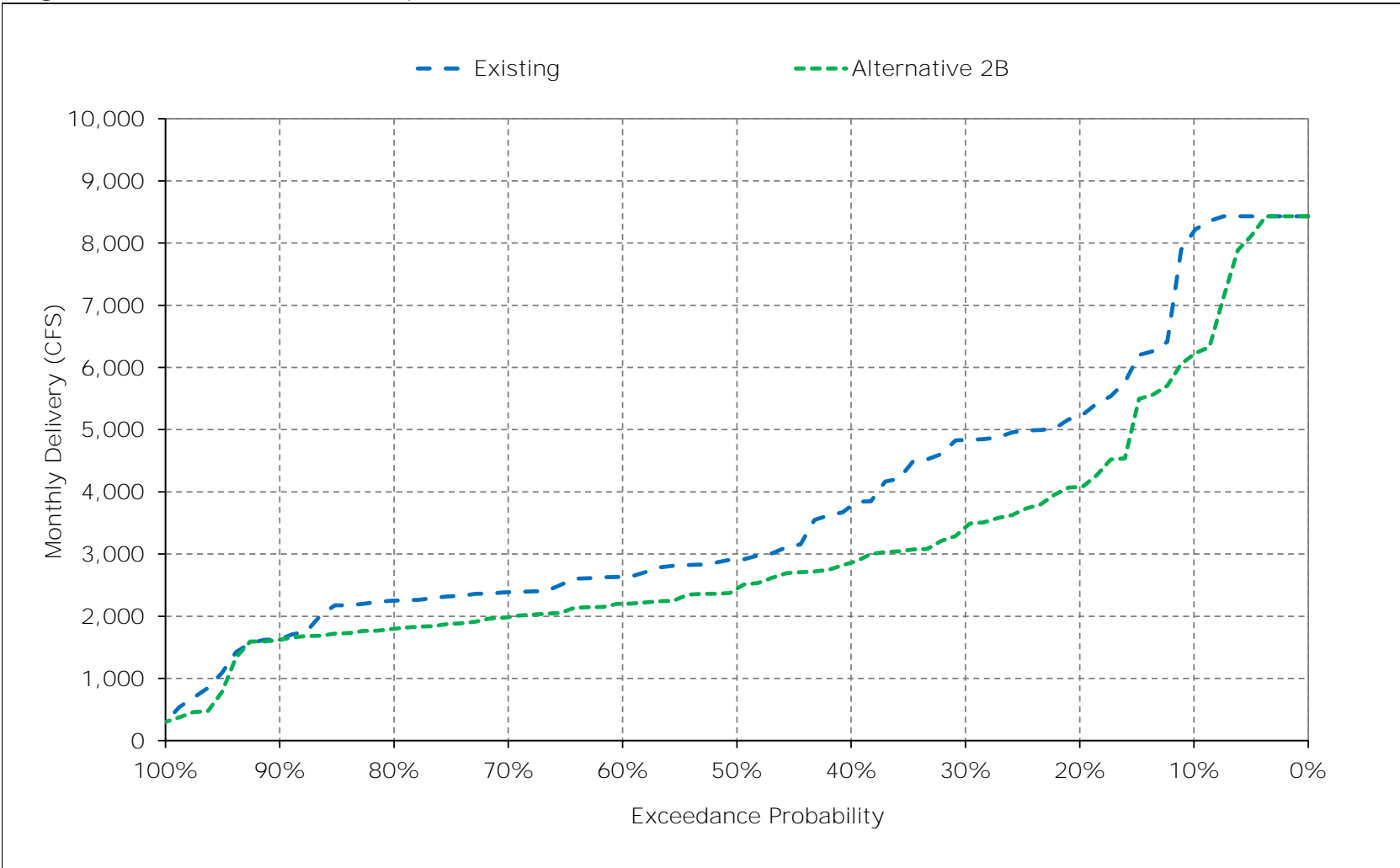


Figure 6-13. Banks PP Exports, April

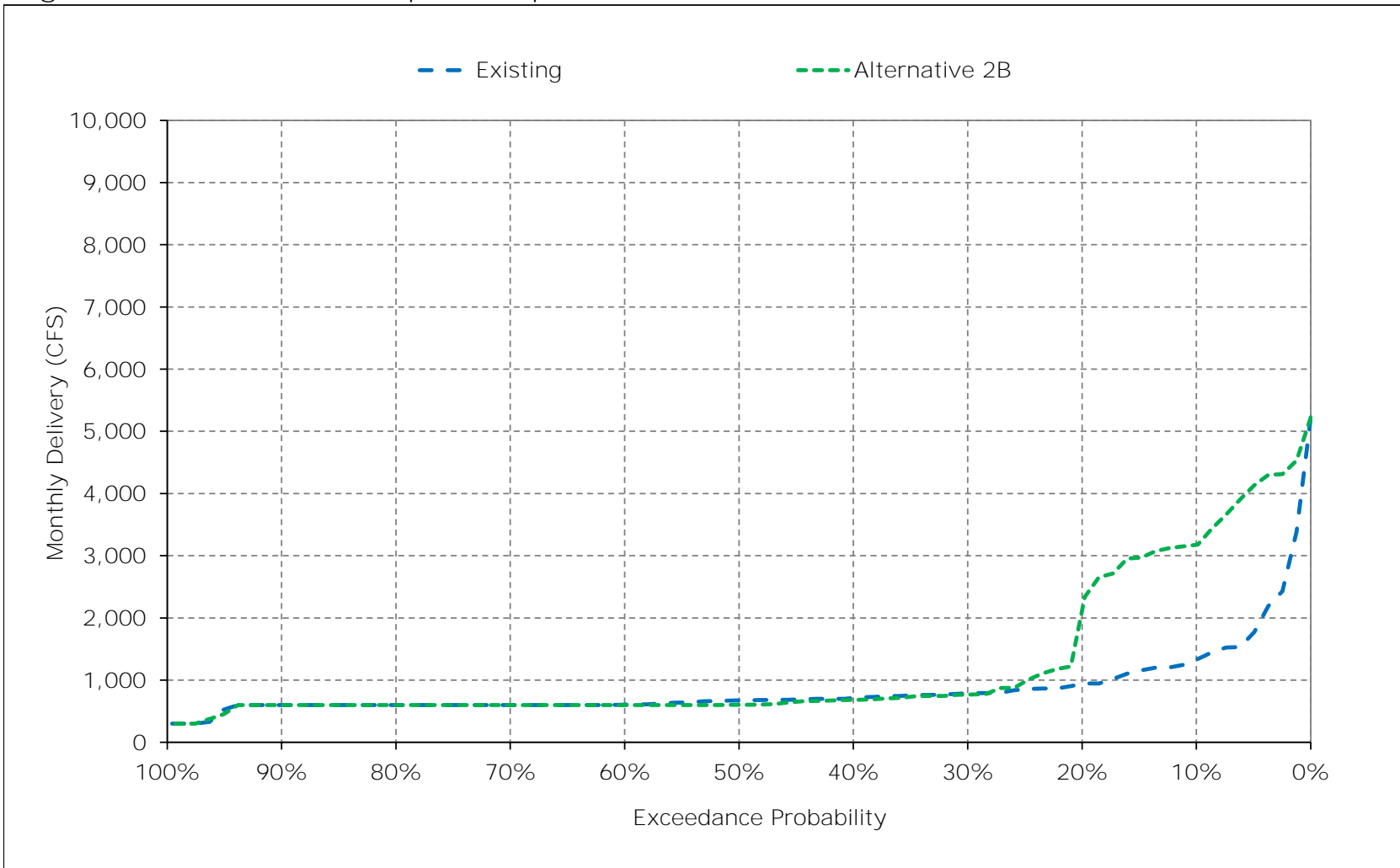


Figure 6-14. Banks PP Exports, May

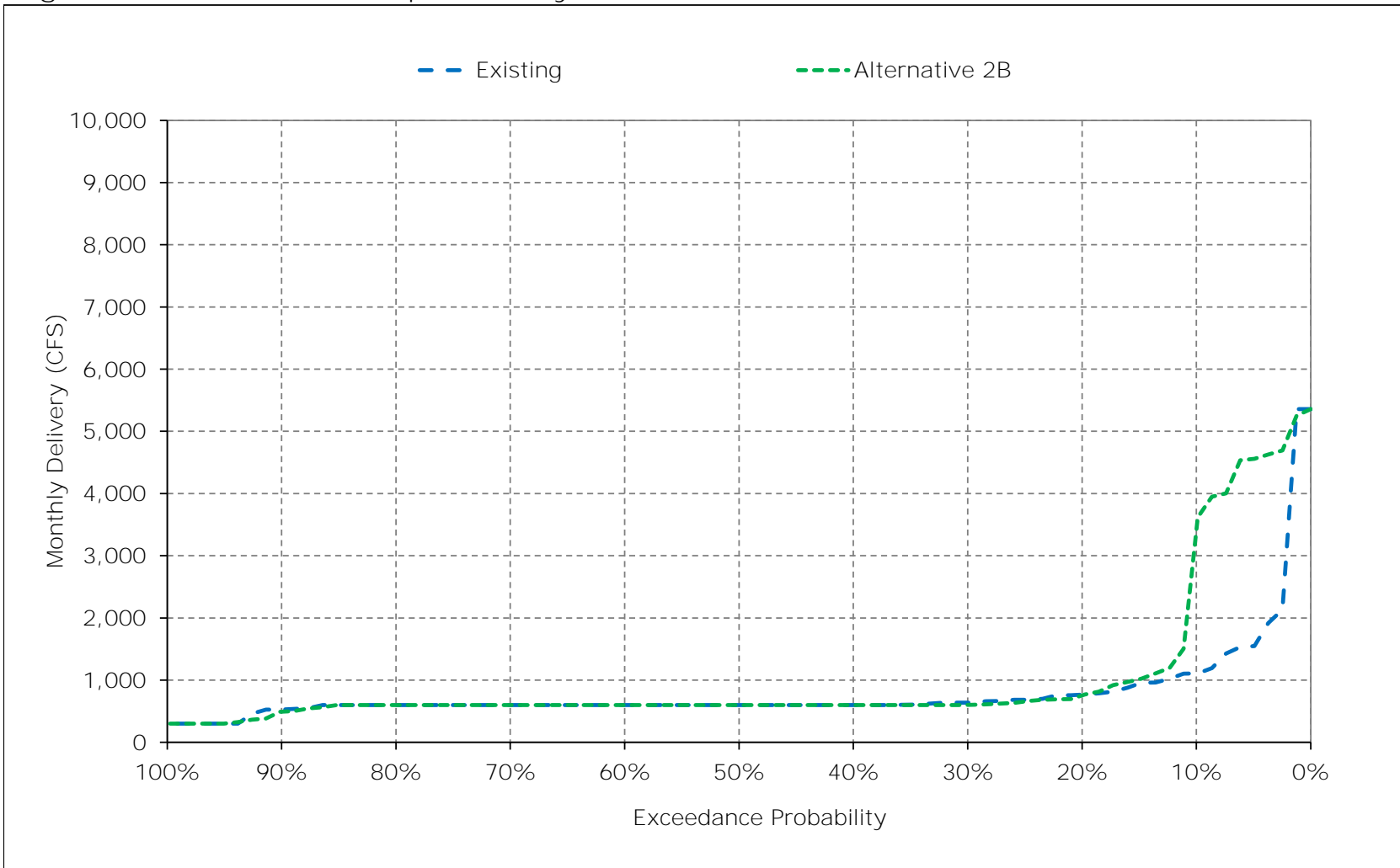


Figure 6-15. Banks PP Exports, June

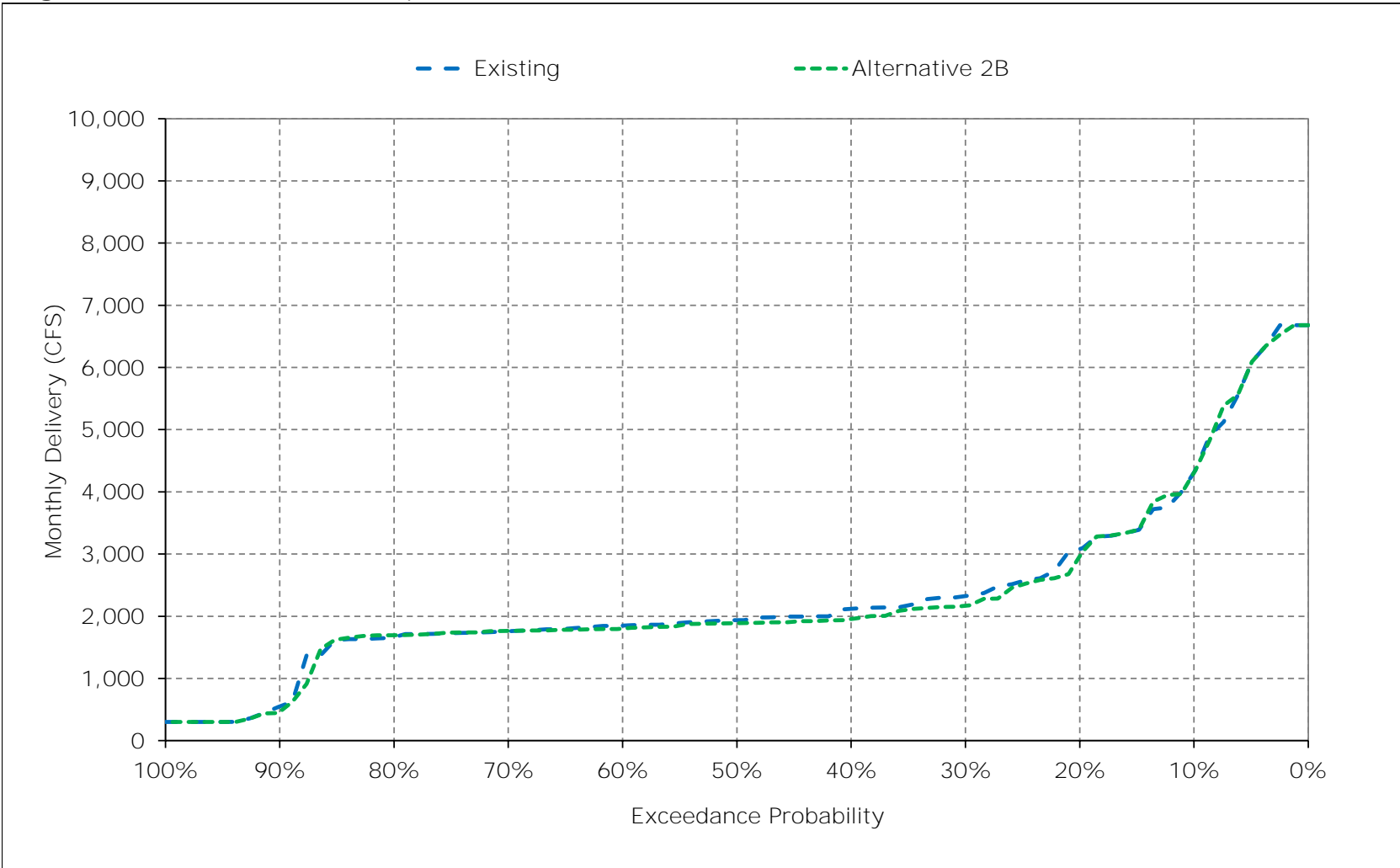


Figure 6-16. Banks PP Exports, July

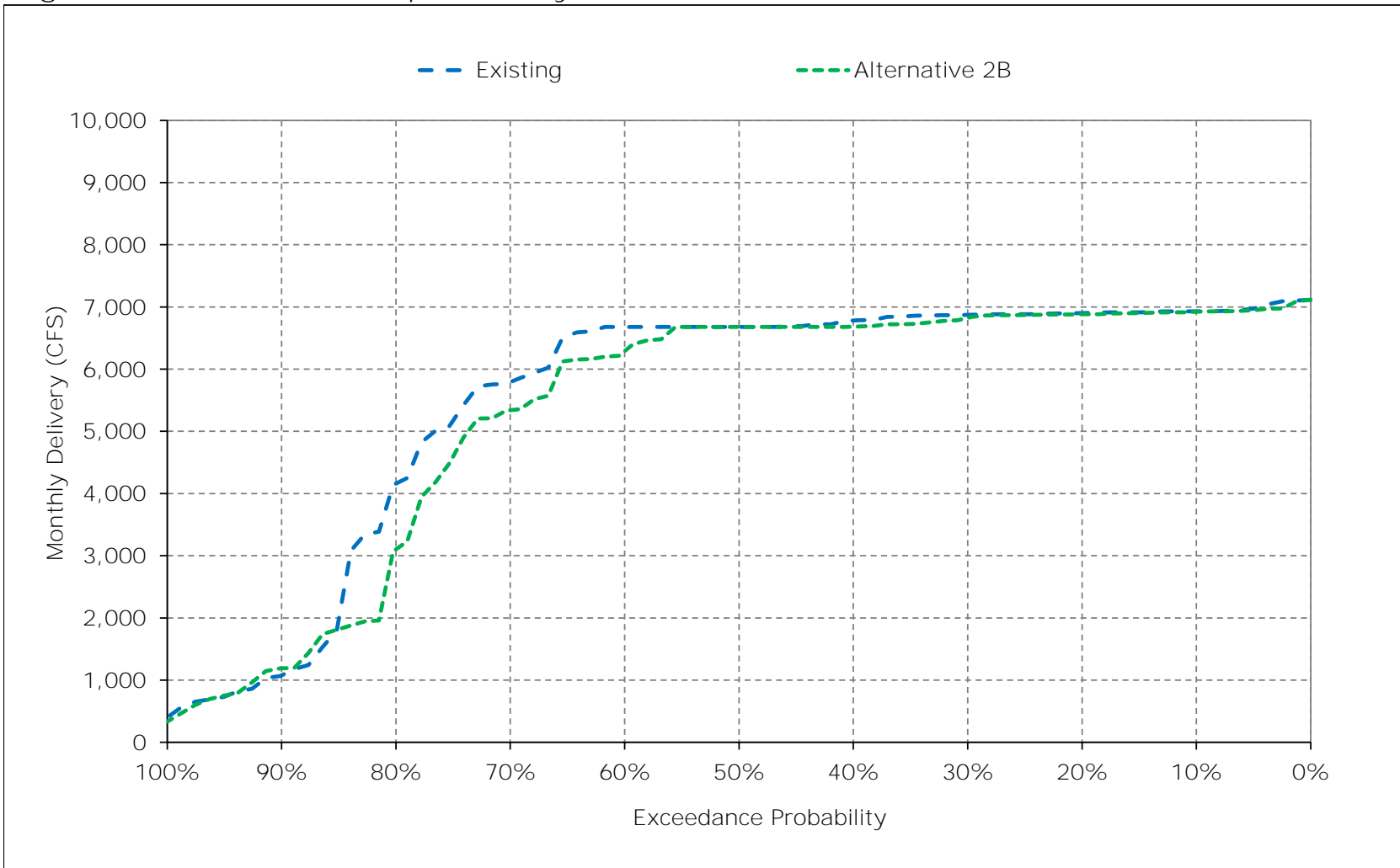




Figure 6-17. Banks PP Exports, August

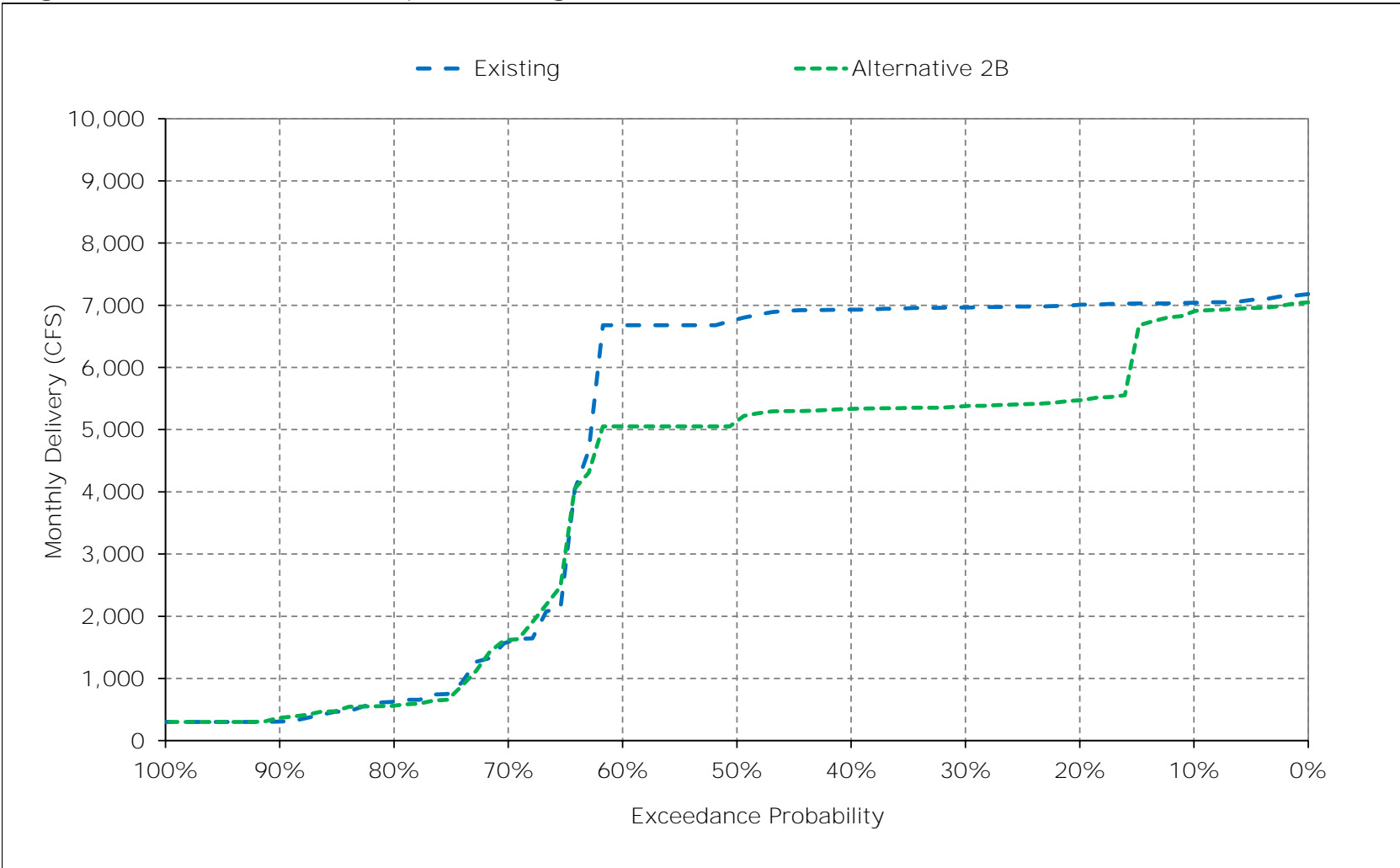


Figure 6-18. Banks PP Exports, September

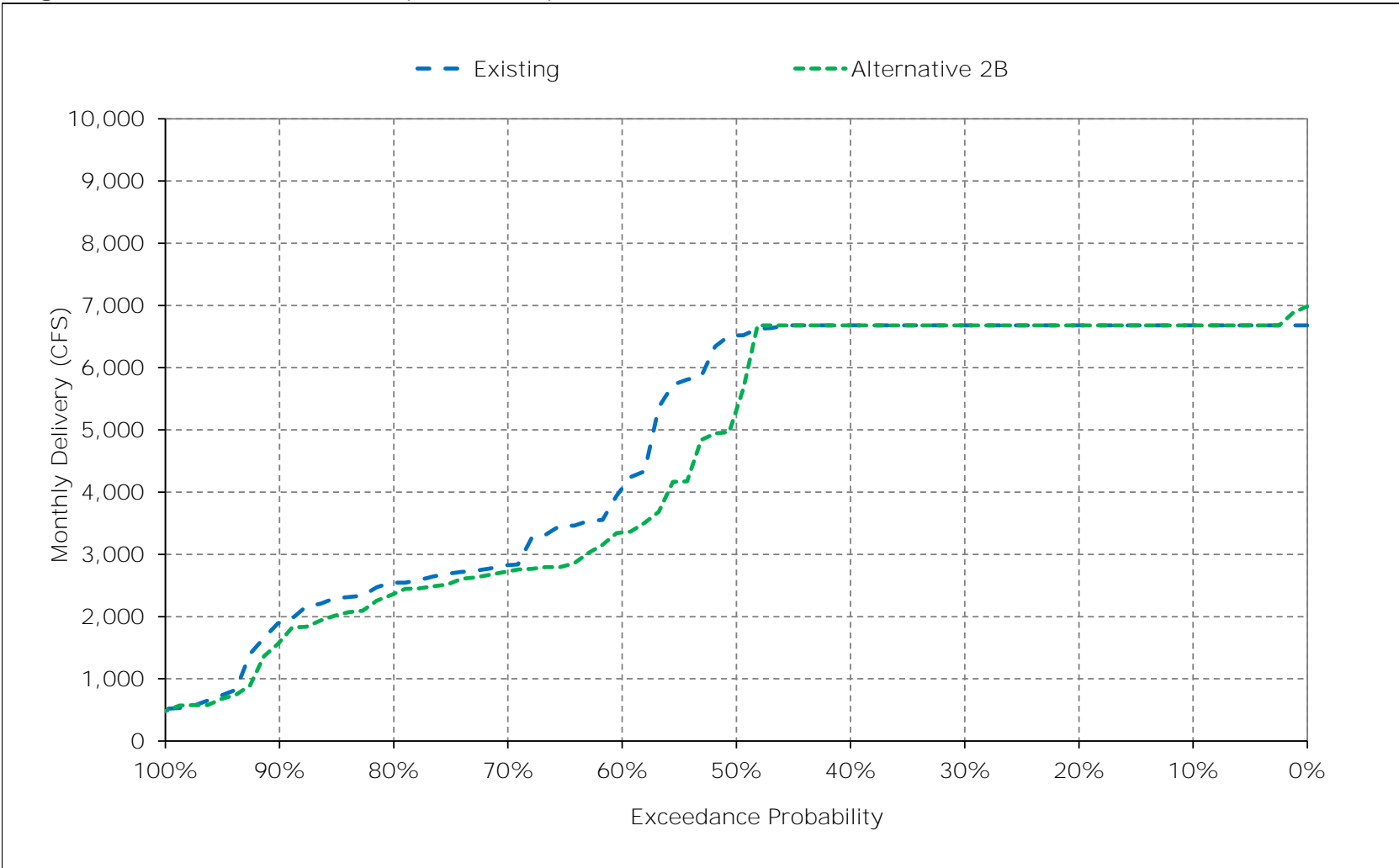


Table 7-1. Jones PP Exports, Monthly Delivery

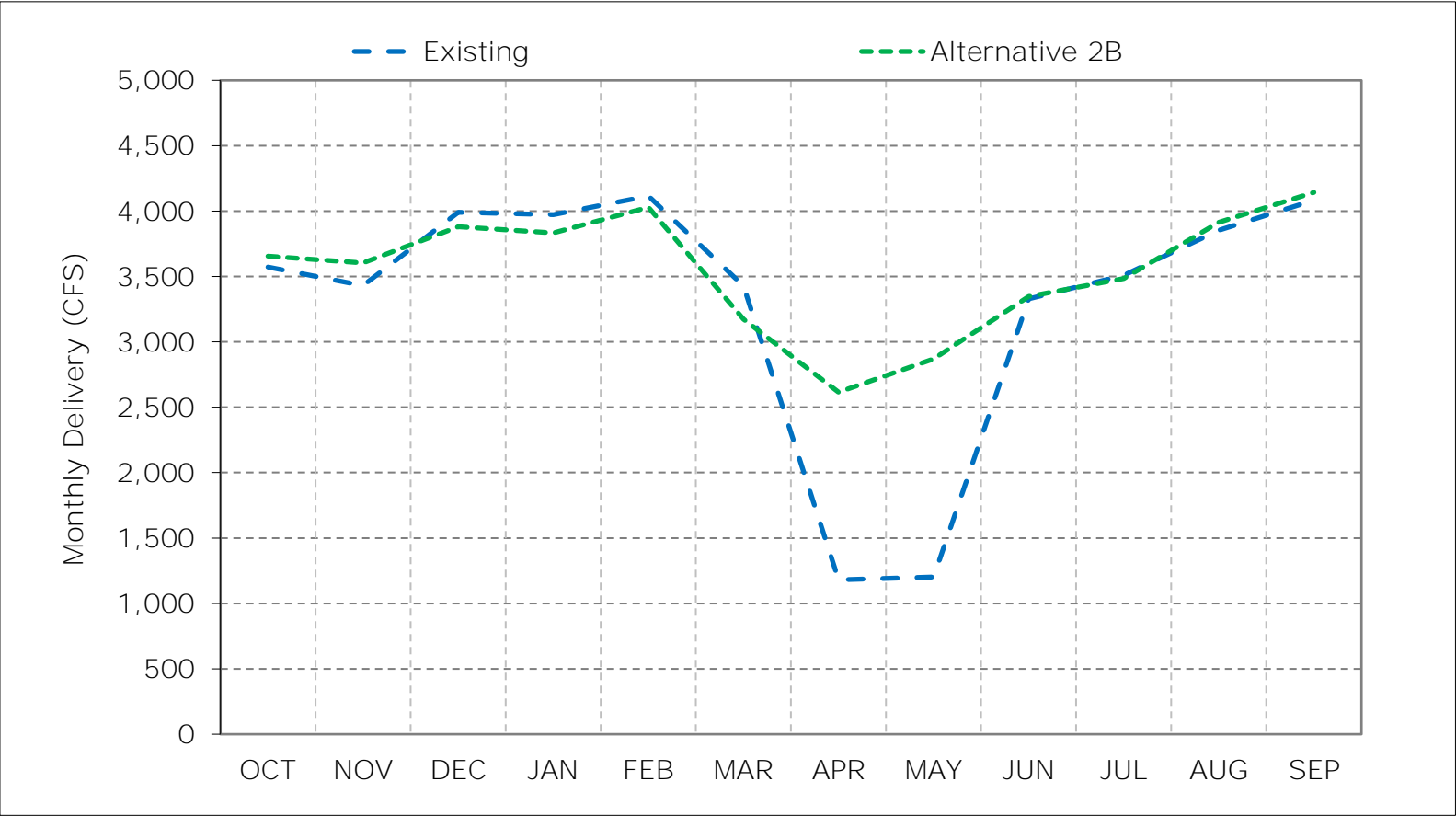
Existing												
Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,600	4,600	4,600	4,600	4,600	4,600	1,804	1,659	4,600	4,600	4,600	4,600
20%	4,393	4,600	4,600	4,600	4,600	4,371	1,341	1,346	4,433	4,600	4,600	4,600
30%	4,114	4,579	4,600	4,287	4,600	4,031	1,165	1,172	3,703	4,600	4,600	4,600
40%	3,631	4,201	4,411	4,134	4,386	3,809	1,043	975	3,491	4,397	4,600	4,524
50%	3,499	3,913	4,327	4,049	4,184	3,534	948	900	3,408	3,972	4,241	4,443
60%	3,337	3,333	4,174	3,929	3,986	3,377	900	900	3,237	3,465	3,919	4,293
70%	3,189	2,639	3,987	3,864	3,896	3,115	900	900	3,179	3,235	3,650	3,979
80%	3,064	2,063	3,614	3,685	3,762	2,552	900	900	2,728	2,110	3,198	3,544
90%	2,878	1,760	2,571	3,122	3,607	1,913	820	900	1,820	1,385	2,175	3,088
Long Term												
Full Simulation Period <sup>a</sup>	3,573	3,430	3,990	3,972	4,115	3,429	1,180	1,202	3,328	3,510	3,853	4,083
Water Year Types <sup>b,c</sup>												
Wet (32%)	3,683	3,665	4,164	4,199	4,328	3,612	1,527	1,591	4,135	4,489	4,600	4,475
Above Normal (15%)	3,409	3,543	4,101	3,983	4,132	3,917	1,059	984	3,771	3,815	4,360	4,422
Below Normal (17%)	3,541	3,525	4,023	3,912	4,285	3,515	980	948	3,317	3,625	3,518	4,401
Dry (22%)	3,670	3,331	4,064	3,881	3,870	3,416	1,118	992	2,963	3,251	3,308	4,006
Critical (15%)	3,389	2,843	3,357	3,673	3,807	2,461	878	1,190	1,698	1,335	2,936	2,639
Alternative 2B												
Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,600	4,600	4,600	4,600	4,600	4,600	4,057	4,010	4,600	4,600	4,600	4,600
20%	4,600	4,600	4,600	4,506	4,600	4,251	3,628	3,900	4,431	4,600	4,600	4,600
30%	4,600	4,600	4,600	4,300	4,593	3,570	3,265	3,482	3,588	4,600	4,600	4,600
40%	4,243	4,600	4,533	4,214	4,358	3,344	2,741	3,241	3,410	4,147	4,600	4,600
50%	3,672	4,238	4,339	4,090	4,119	3,069	2,695	2,900	3,300	3,816	4,204	4,565
60%	3,355	3,594	4,174	3,905	3,941	2,819	2,425	2,759	3,227	3,426	4,043	4,490
70%	3,070	2,920	3,725	3,669	3,841	2,732	1,989	2,396	3,136	2,965	3,817	4,063
80%	2,914	2,333	3,387	3,354	3,635	2,534	1,642	1,686	2,929	2,606	3,174	3,582
90%	2,677	1,695	2,295	2,712	3,283	1,990	1,061	1,477	2,191	1,484	2,631	3,049
Long Term												
Full Simulation Period <sup>a</sup>	3,657	3,604	3,880	3,834	4,030	3,173	2,615	2,870	3,347	3,483	3,914	4,143
Water Year Types <sup>b,c</sup>												
Wet (32%)	3,929	3,903	4,181	4,002	3,996	3,391	3,336	3,647	4,077	4,461	4,598	4,522
Above Normal (15%)	3,556	3,443	3,907	4,022	4,148	3,715	3,188	3,357	3,700	3,856	4,431	4,376
Below Normal (17%)	3,634	3,686	3,808	3,850	4,270	3,232	2,802	3,087	3,293	3,304	3,605	4,524
Dry (22%)	3,602	3,481	4,001	3,874	3,930	2,819	2,095	2,196	3,097	3,317	3,544	4,078
Critical (15%)	3,274	3,204	3,107	3,203	3,856	2,620	1,041	1,457	1,848	1,453	2,829	2,742
Alternative 2B minus Existing												
Statistic	Monthly Delivery (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	2,253	2,351	0	0	0	0
20%	207	0	0	-94	0	-120	2,287	2,554	-2	0	0	0
30%	486	21	0	13	-7	-461	2,100	2,309	-115	0	0	0
40%	612	399	122	81	-27	-466	1,697	2,266	-81	-249	0	76
50%	173	325	12	41	-65	-466	1,746	2,000	-108	-156	-37	122
60%	18	262	0	-25	-45	-558	1,525	1,859	-10	-40	124	197
70%	-119	281	-263	-194	-55	-383	1,089	1,496	-43	-270	167	85
80%	-150	271	-226	-331	-127	-18	742	786	201	496	-24	39
90%	-201	-64	-276	-410	-324	77	241	577	371	100	456	-39
Long Term												
Full Simulation Period <sup>a</sup>	84	174	-110	-137	-85	-256	1,435	1,668	18	-26	61	60
Water Year Types <sup>b,c</sup>												
Wet (32%)	246	238	17	-197	-332	-221	1,810	2,056	-58	-29	-2	47
Above Normal (15%)	148	-99	-194	39	17	-201	2,129	2,373	-71	41	71	-46
Below Normal (17%)	93	161	-215	-62	-15	-283	1,822	2,139	-24	-322	87	123
Dry (22%)	-68	150	-64	-7	61	-597	978	1,204	134	66	236	72
Critical (15%)	-115	361	-250	-470	49	159	163	267	149	118	-107	103

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).

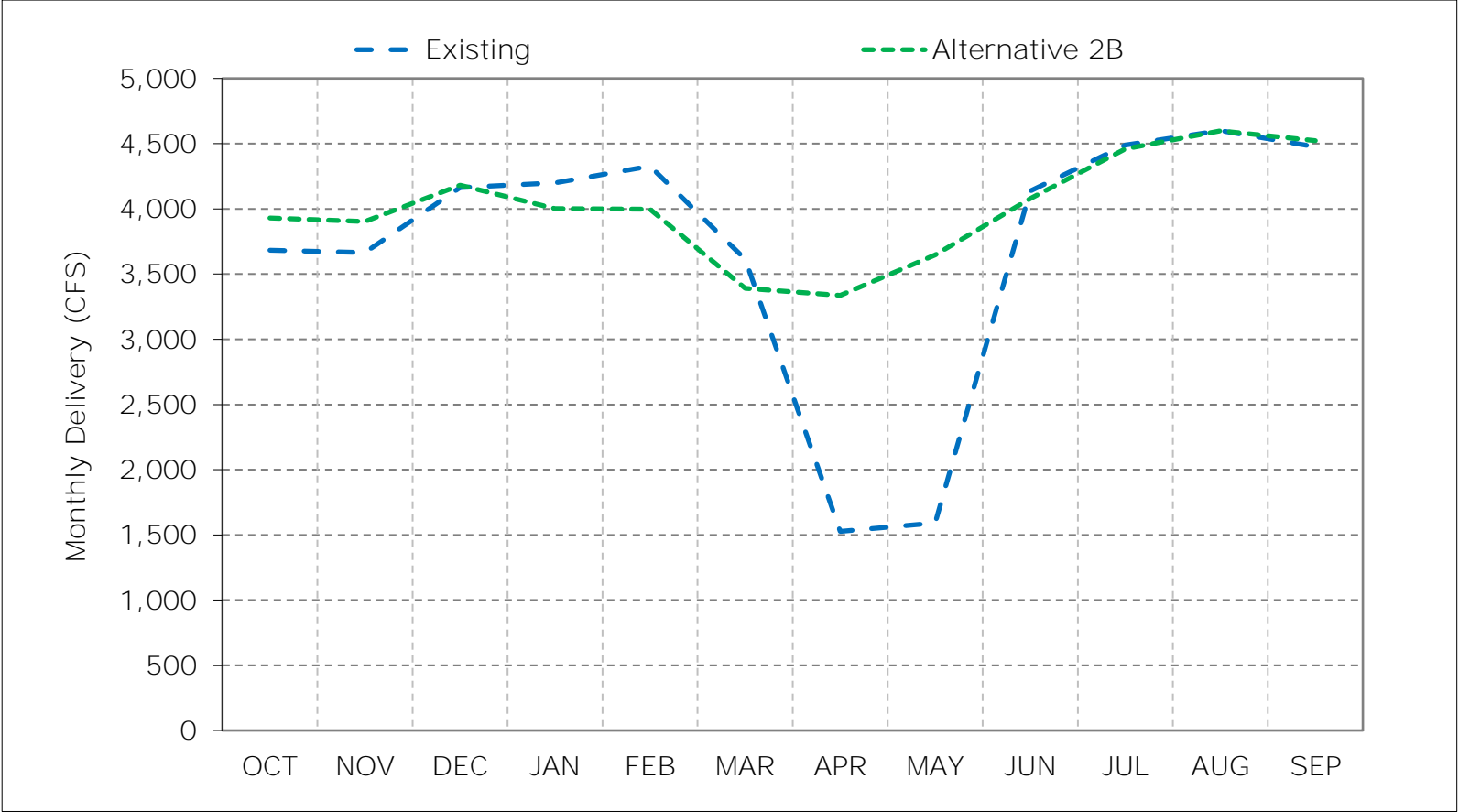
c These results are displayed with water year - year type sorting.

Figure 7-1. Jones PP Exports, Long-Term Average Delivery



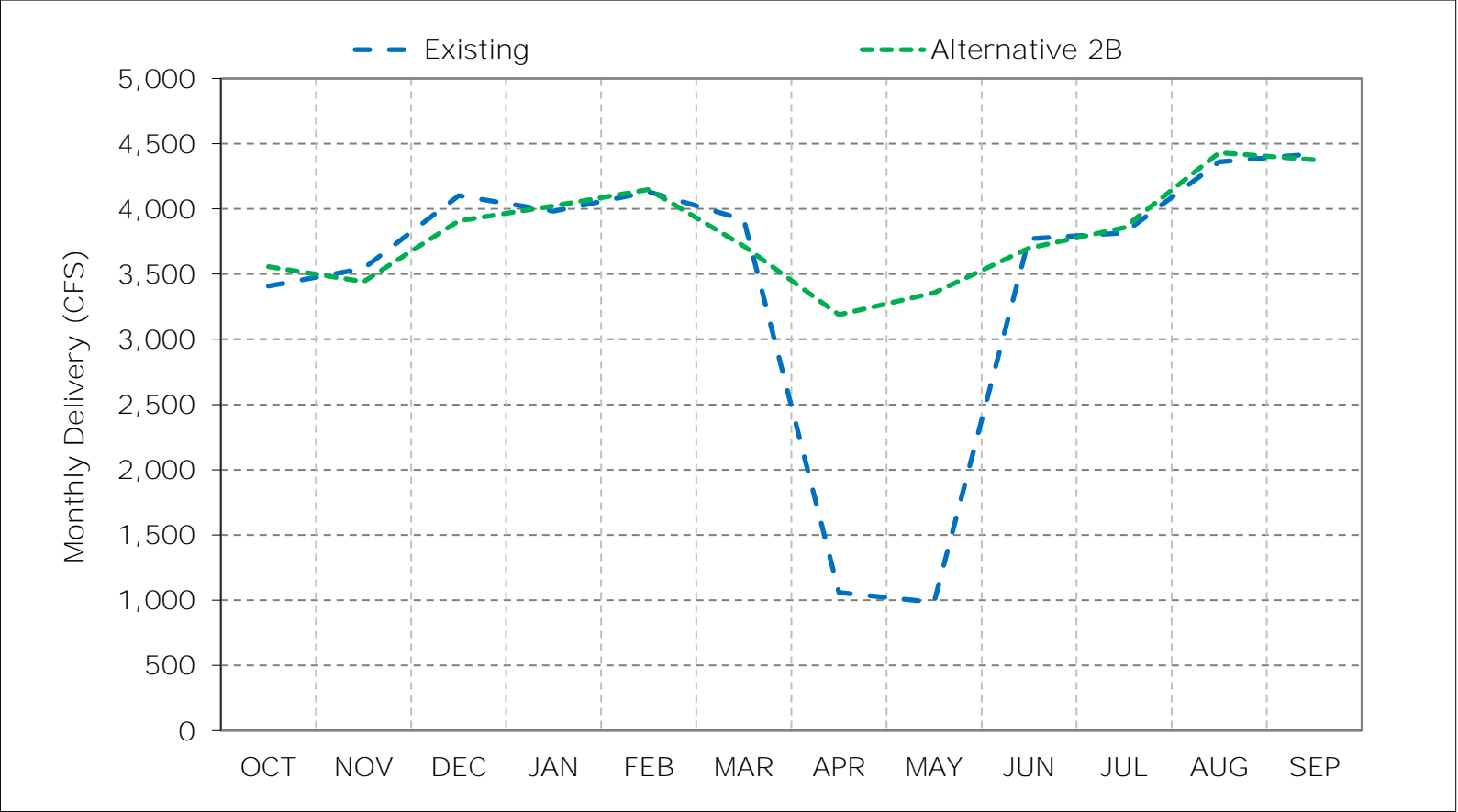
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 7-2. Jones PP Exports, Wet Year Average Delivery



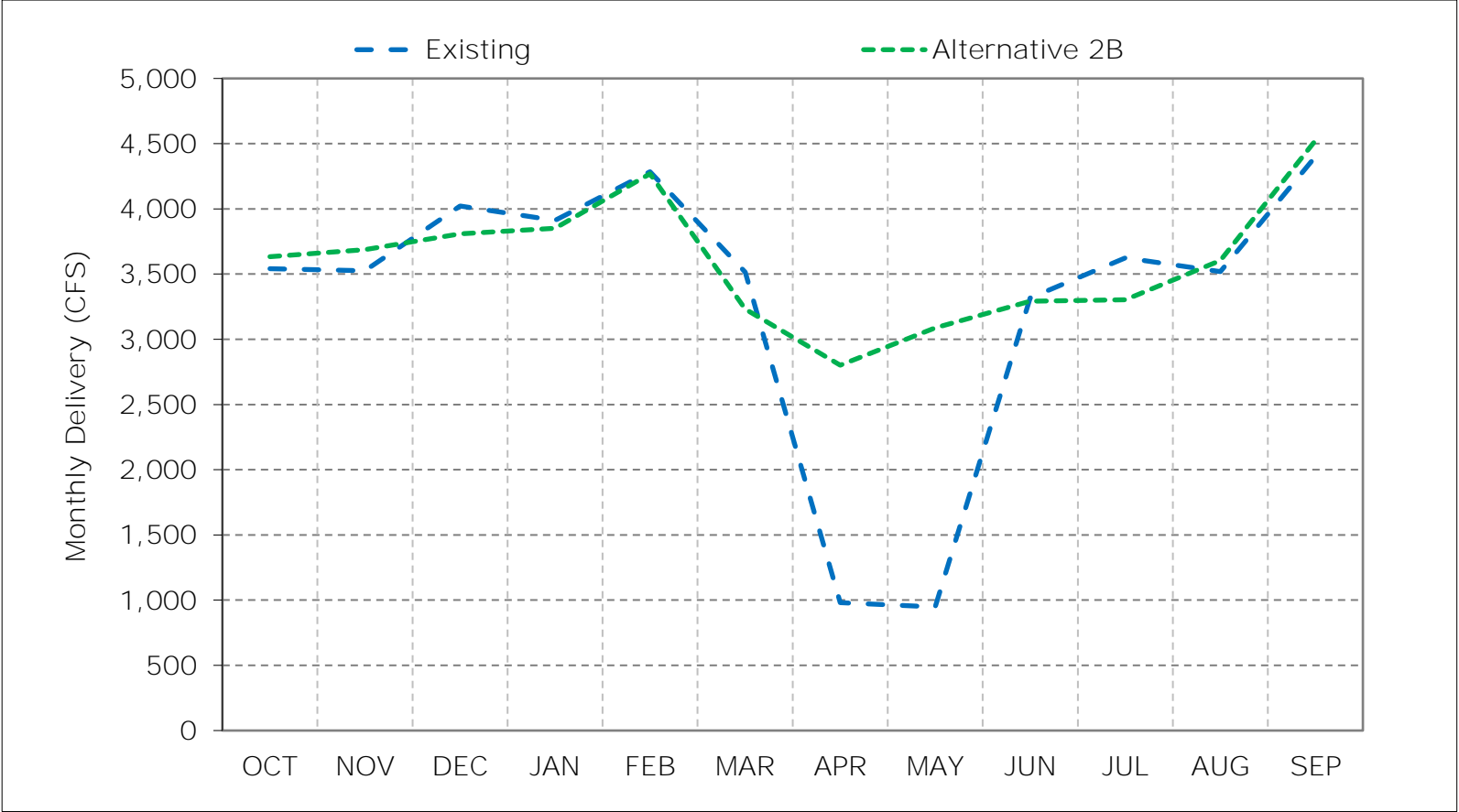
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 7-3. Jones PP Exports, Above Normal Year Average Delivery



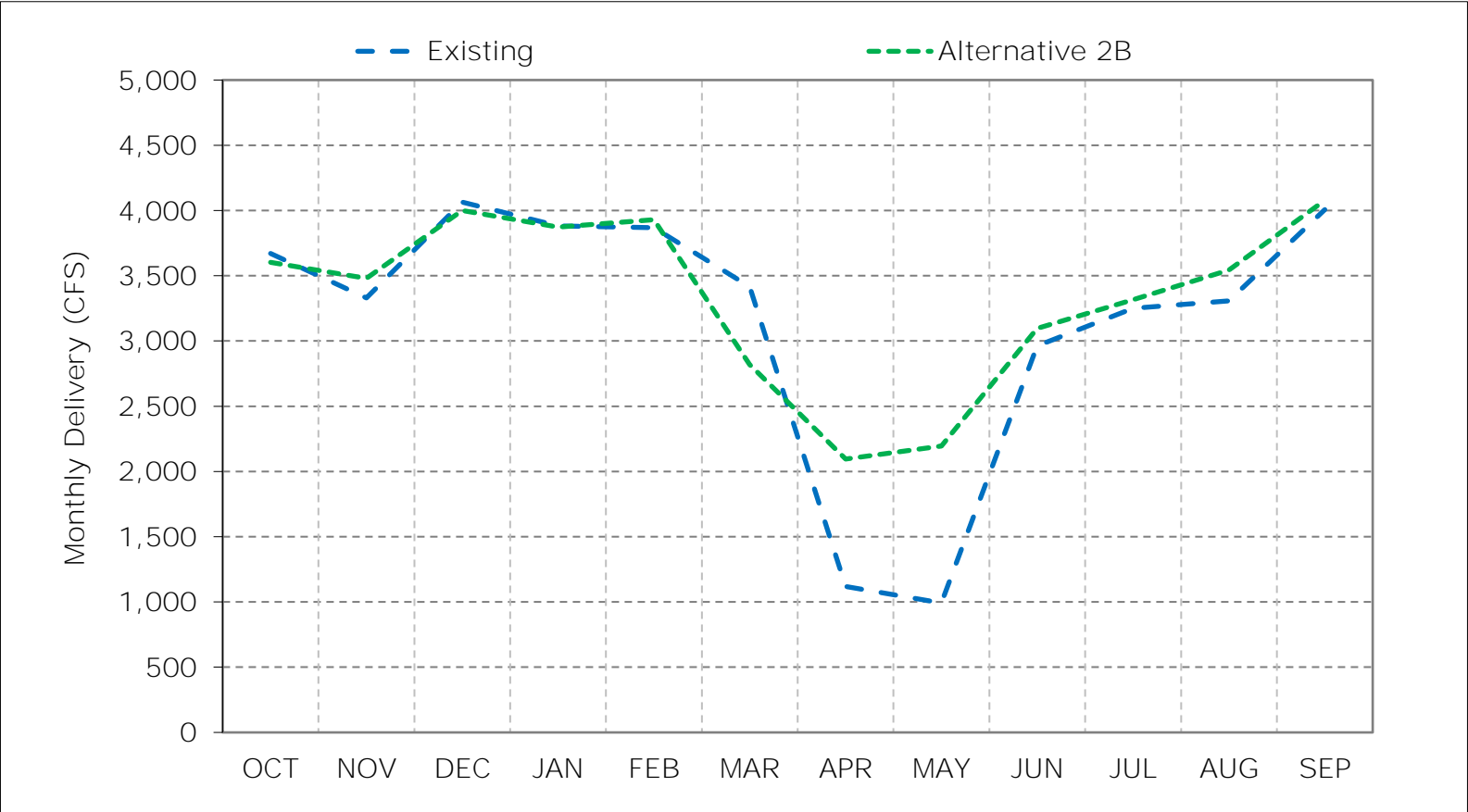
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 7-4. Jones PP Exports, Below Normal Year Average Delivery



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

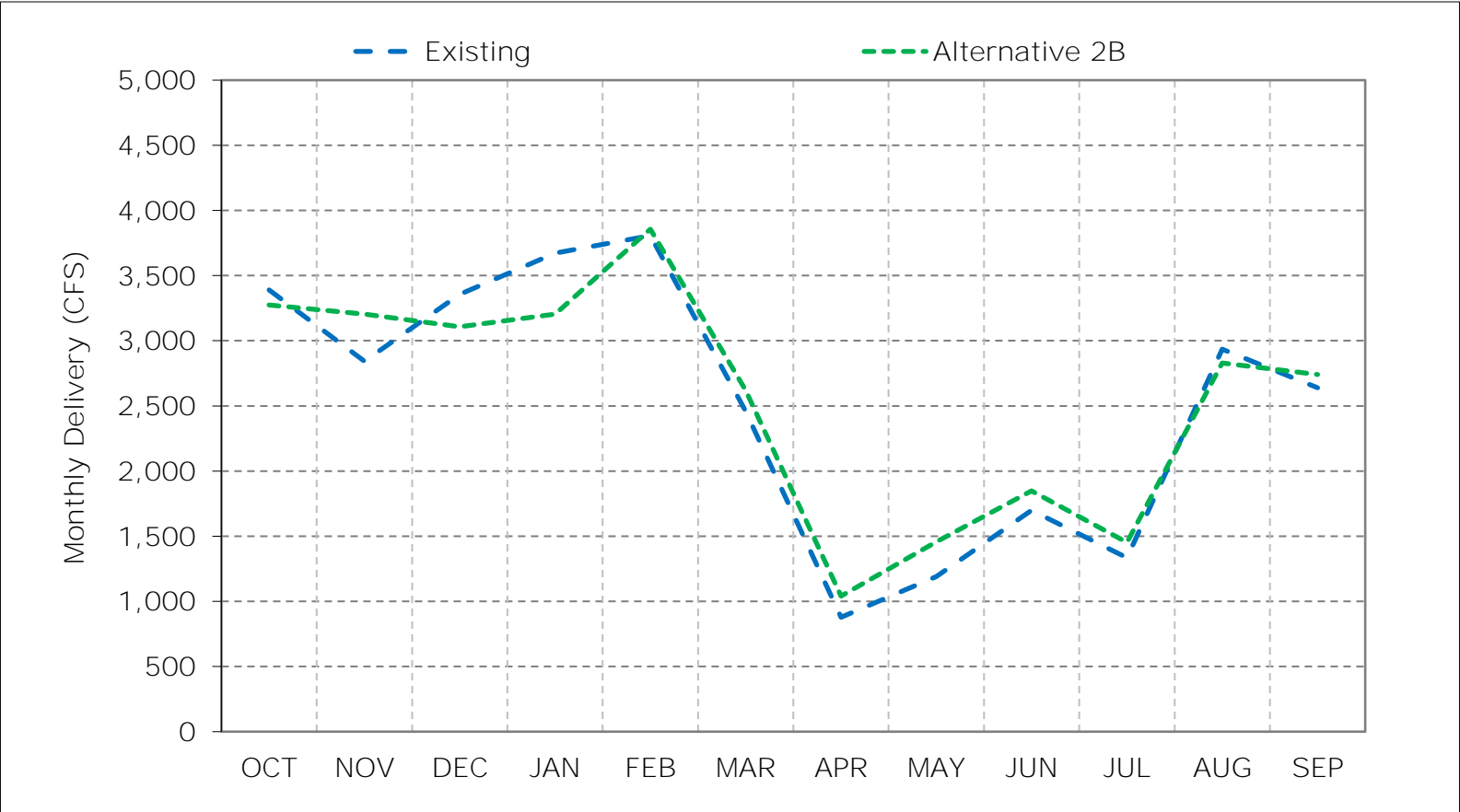
Figure 7-5. Jones PP Exports, Dry Year Average Delivery



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.



Figure 7-6. Jones PP Exports, Critical Year Average Delivery



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
 \*These results are displayed with water year - year type sorting.

Figure 7-7. Jones PP Exports, October

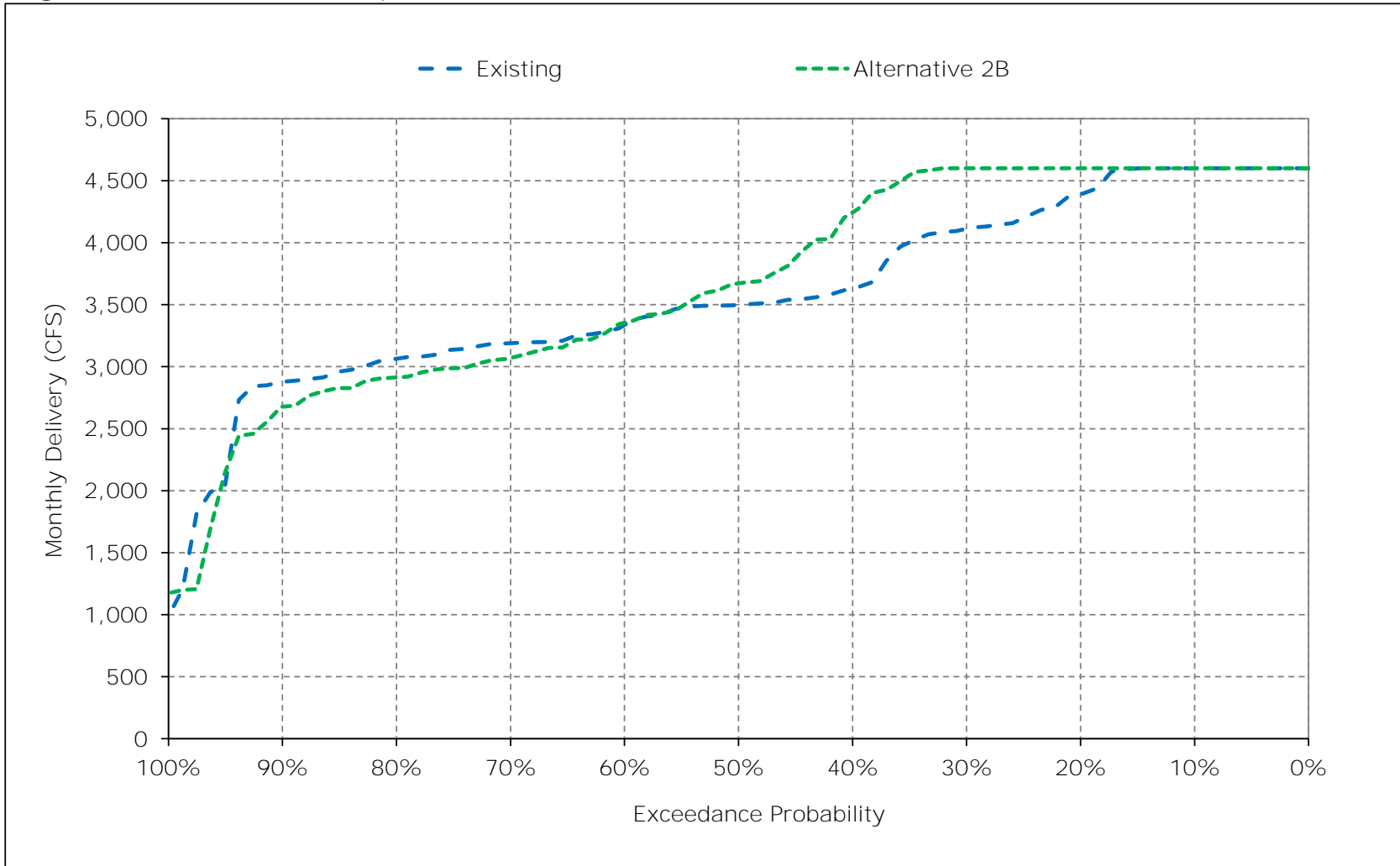


Figure 7-8. Jones PP Exports, November

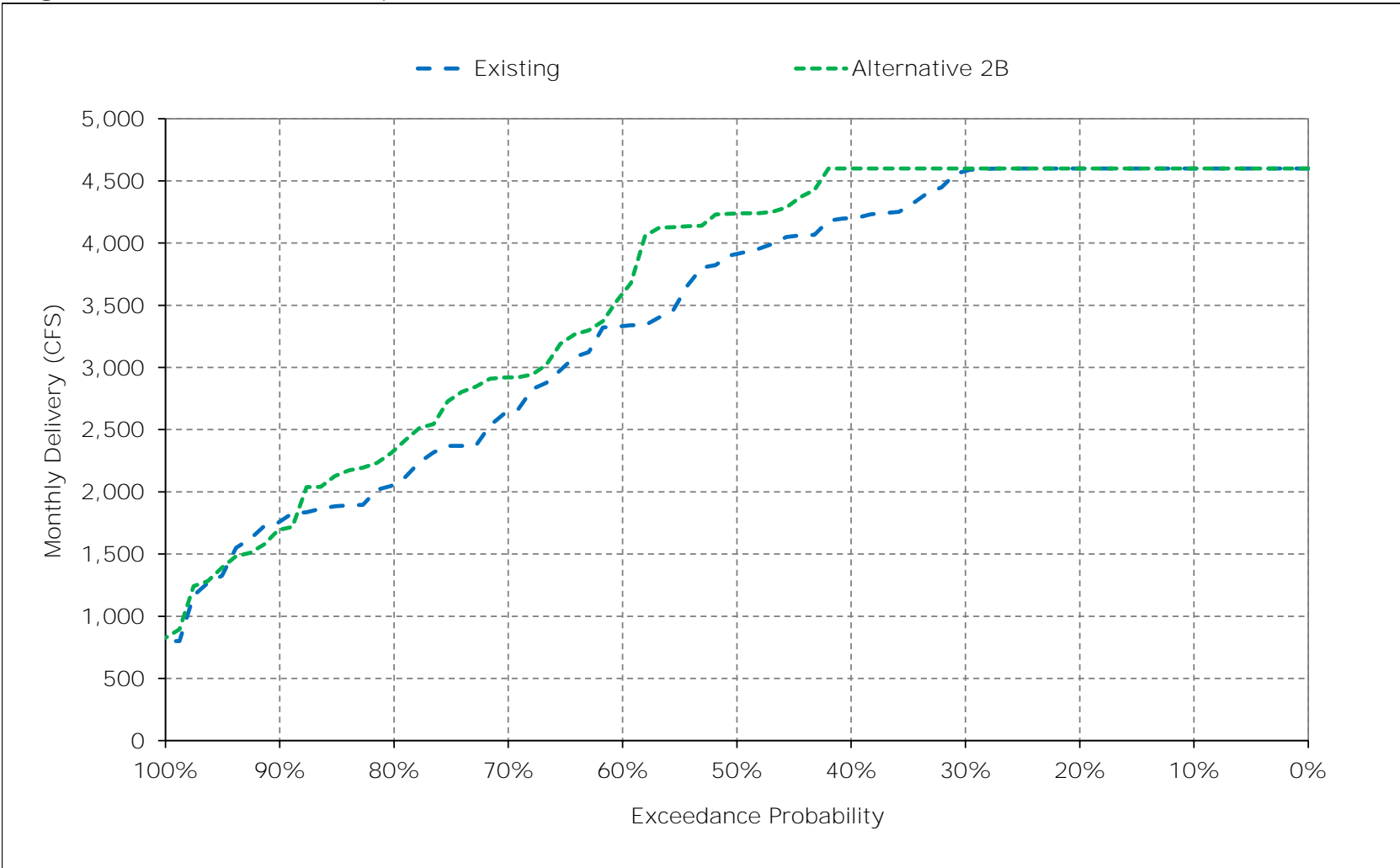


Figure 7-9. Jones PP Exports, December

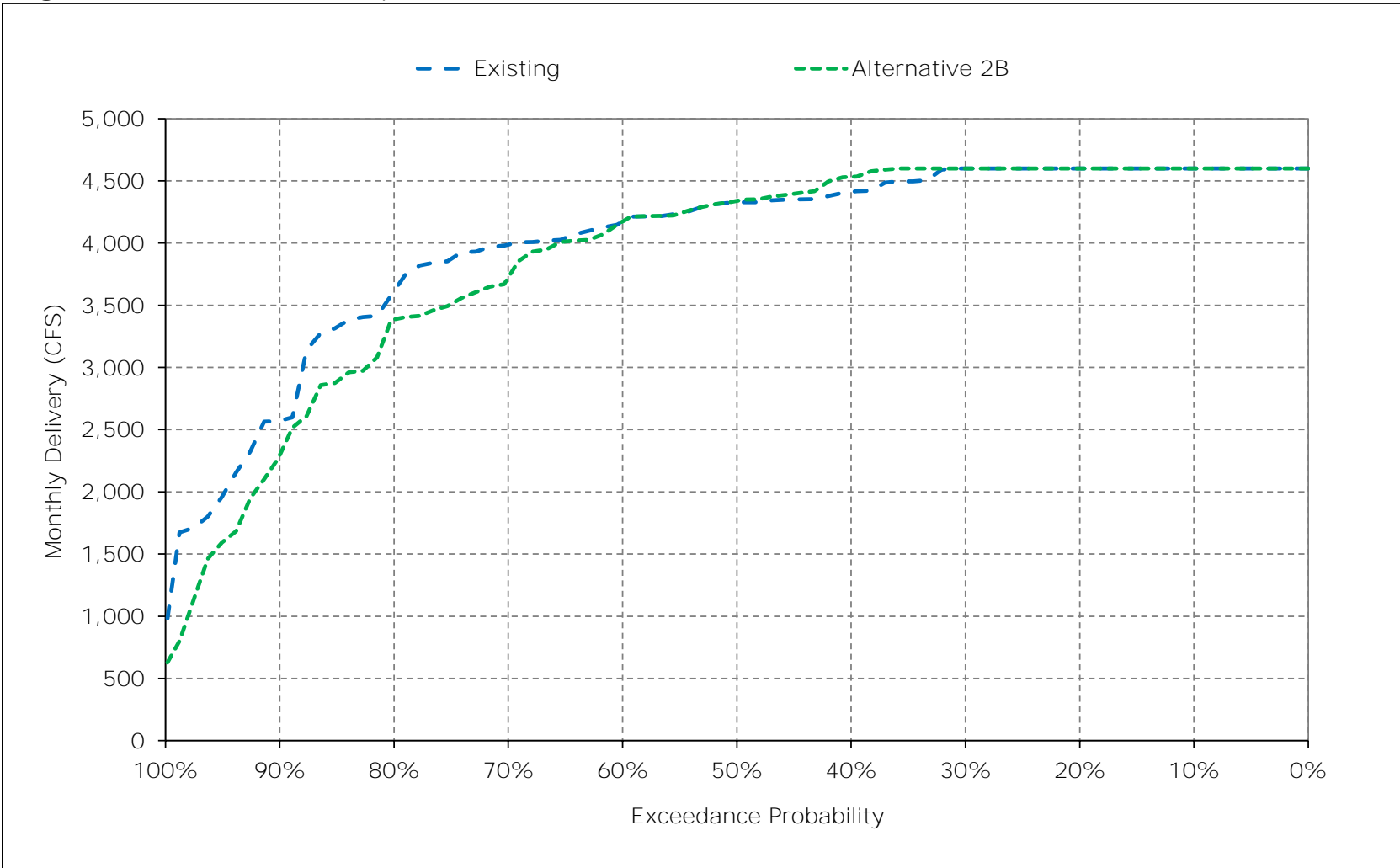


Figure 7-10. Jones PP Exports, January

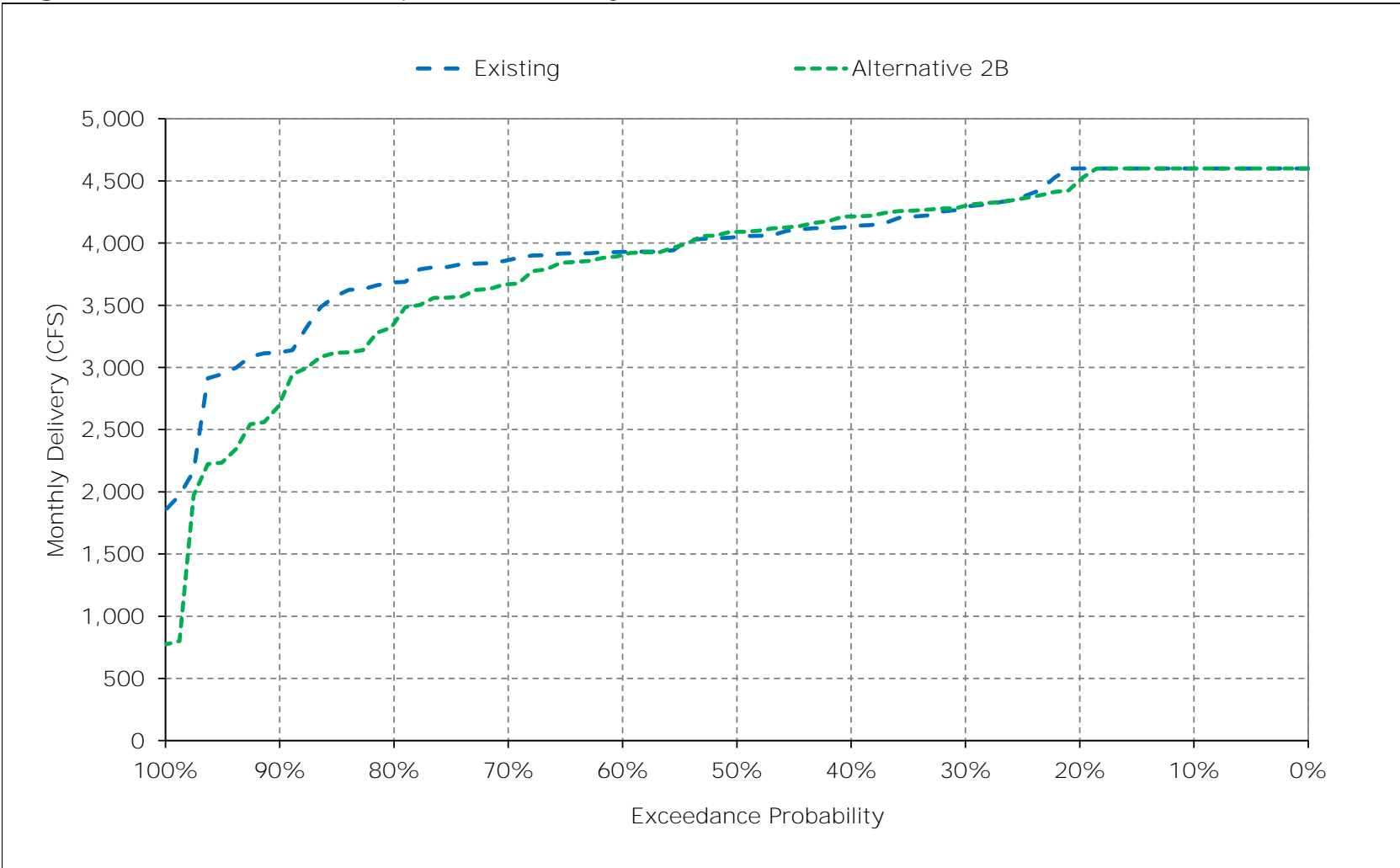


Figure 7-11. Jones PP Exports, February

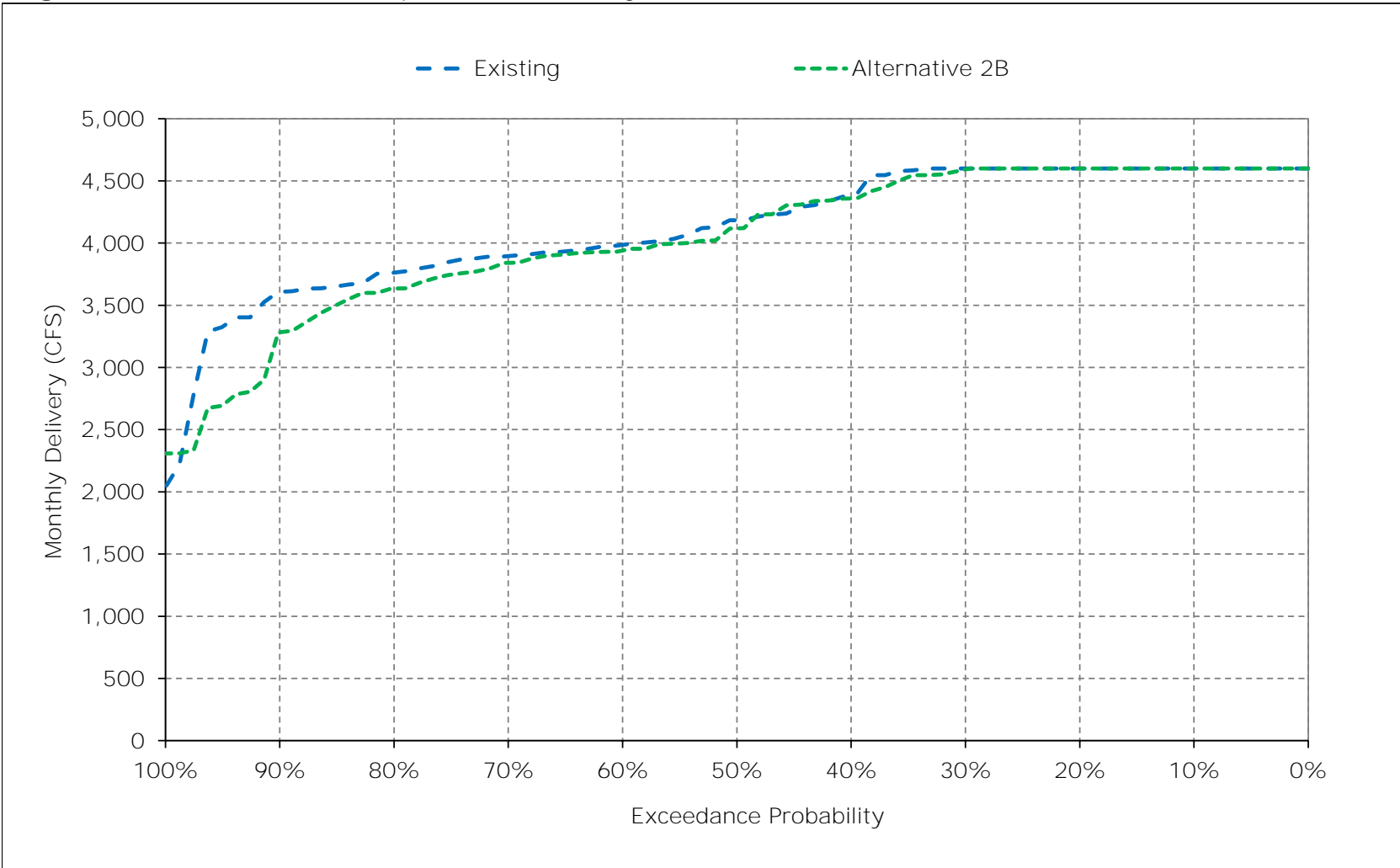


Figure 7-12. Jones PP Exports, March

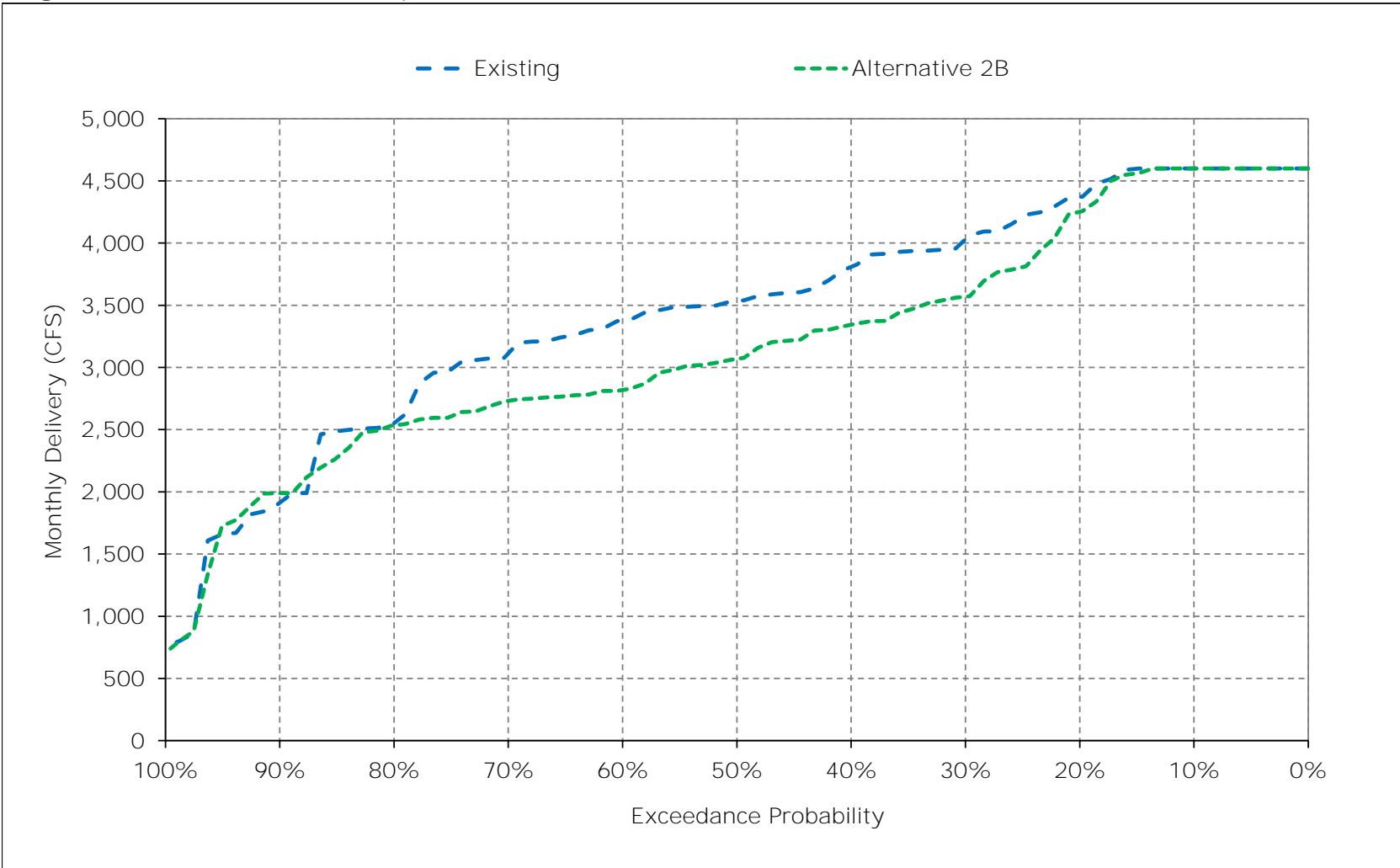


Figure 7-13. Jones PP Exports, April

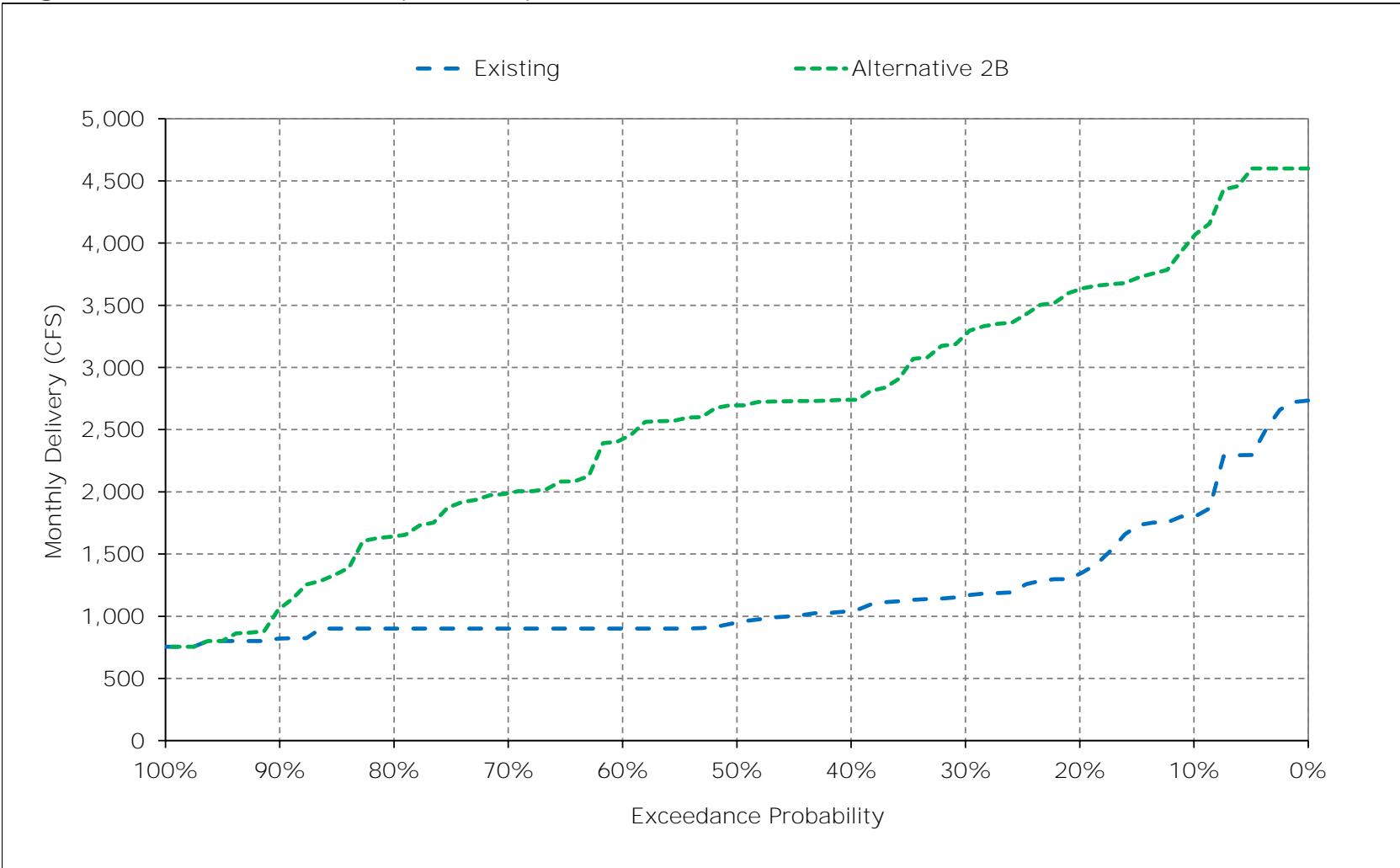




Figure 7-14. Jones PP Exports, May

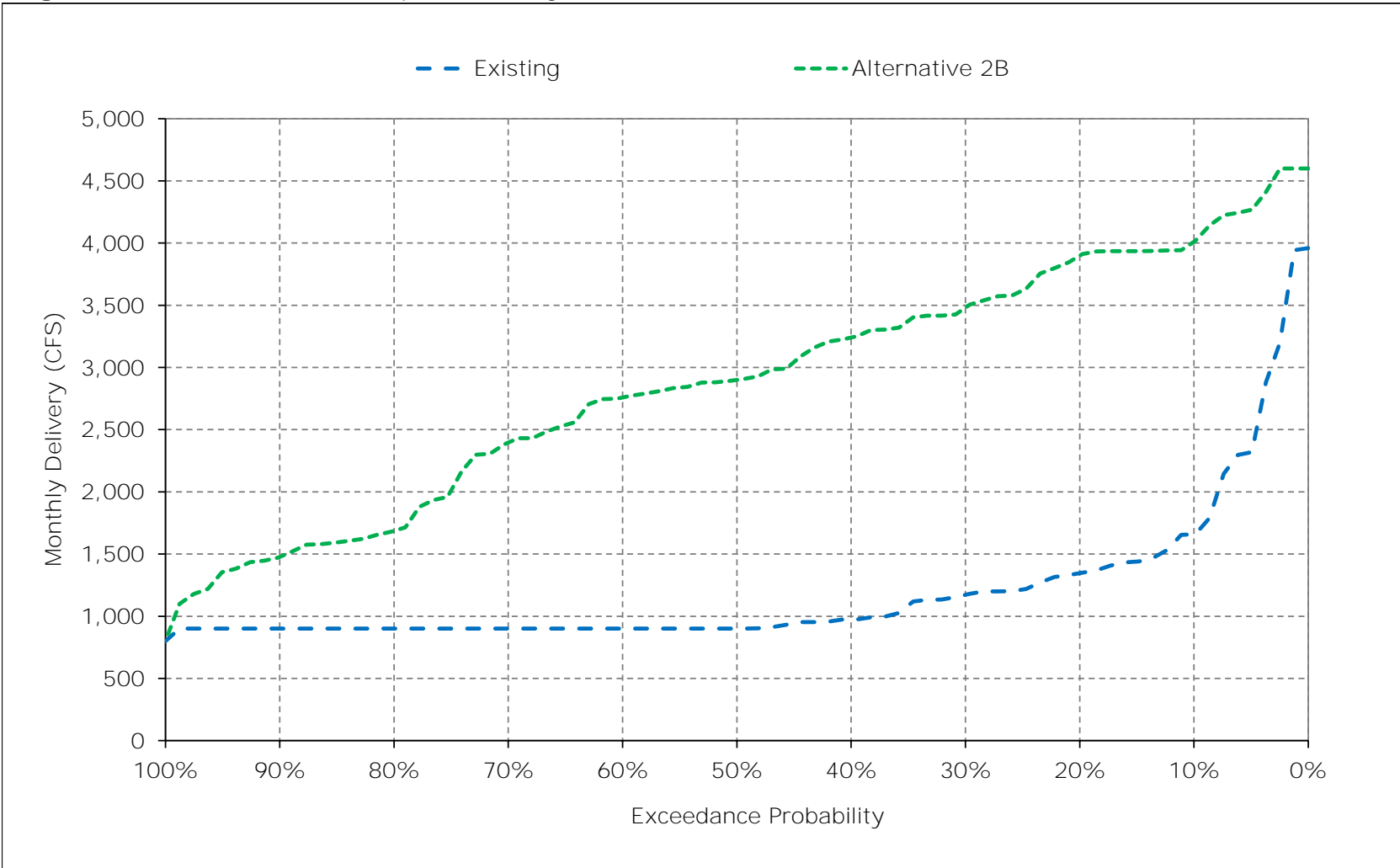


Figure 7-15. Jones PP Exports, June

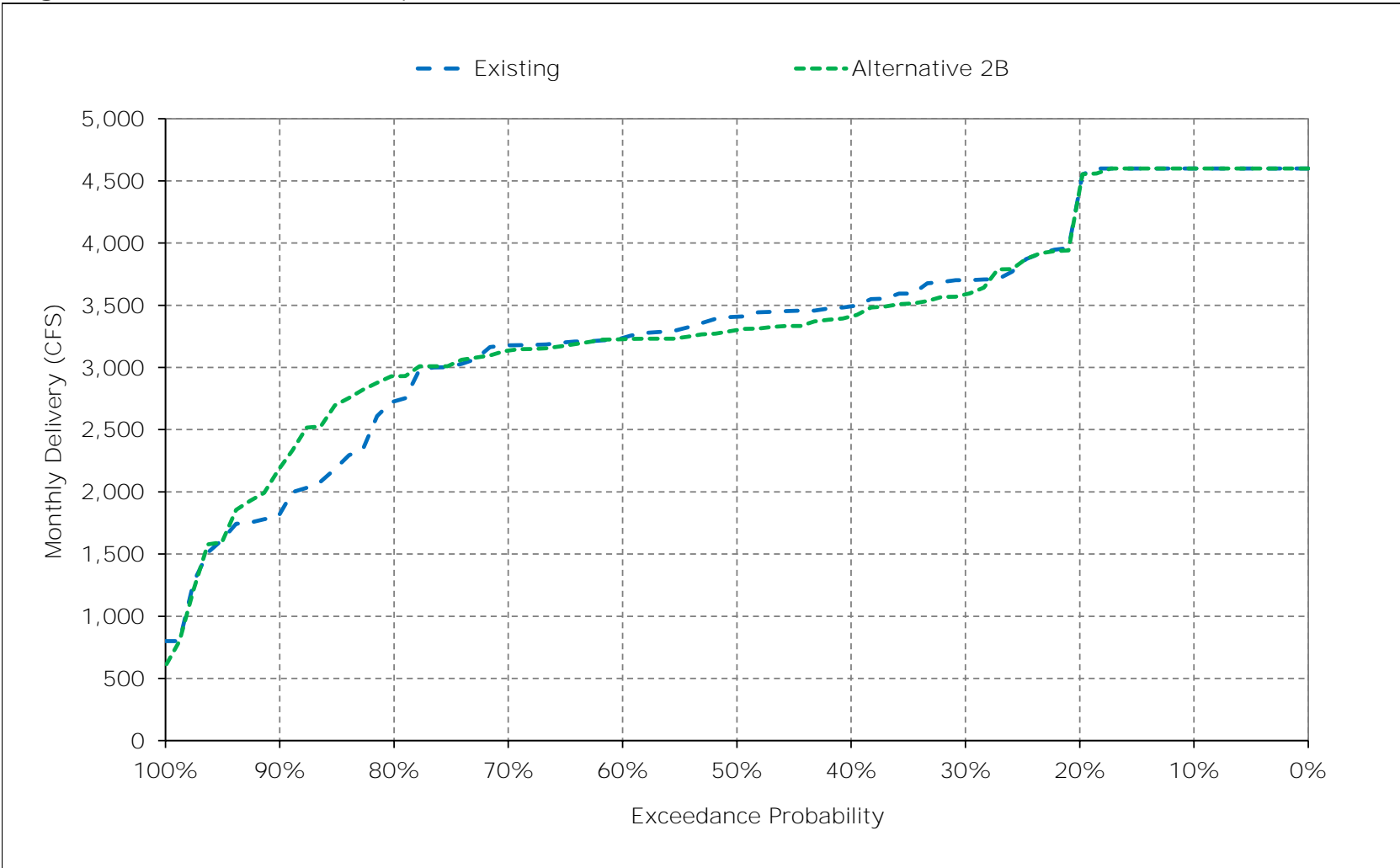


Figure 7-16. Jones PP Exports, July

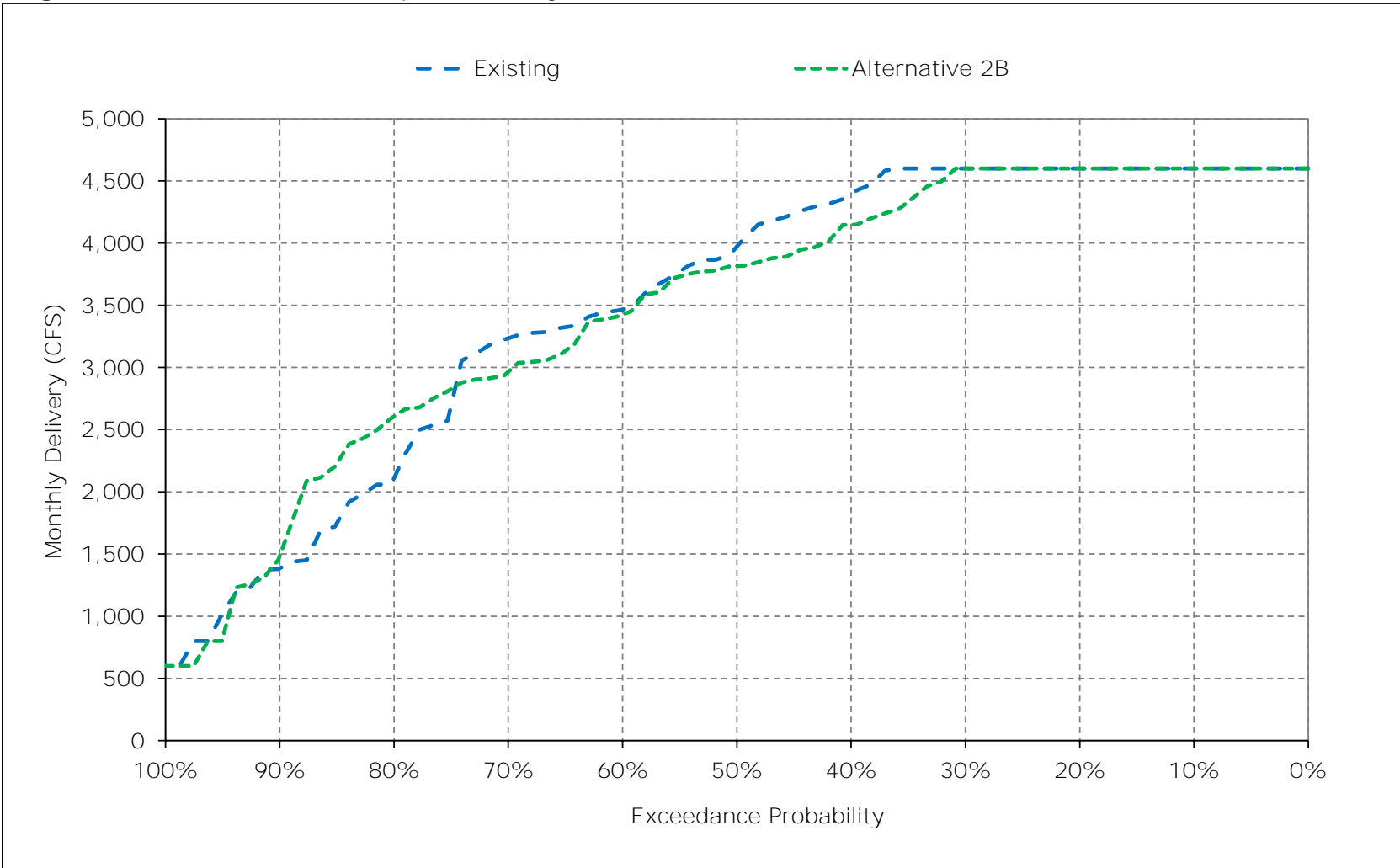


Figure 7-17. Jones PP Exports, August

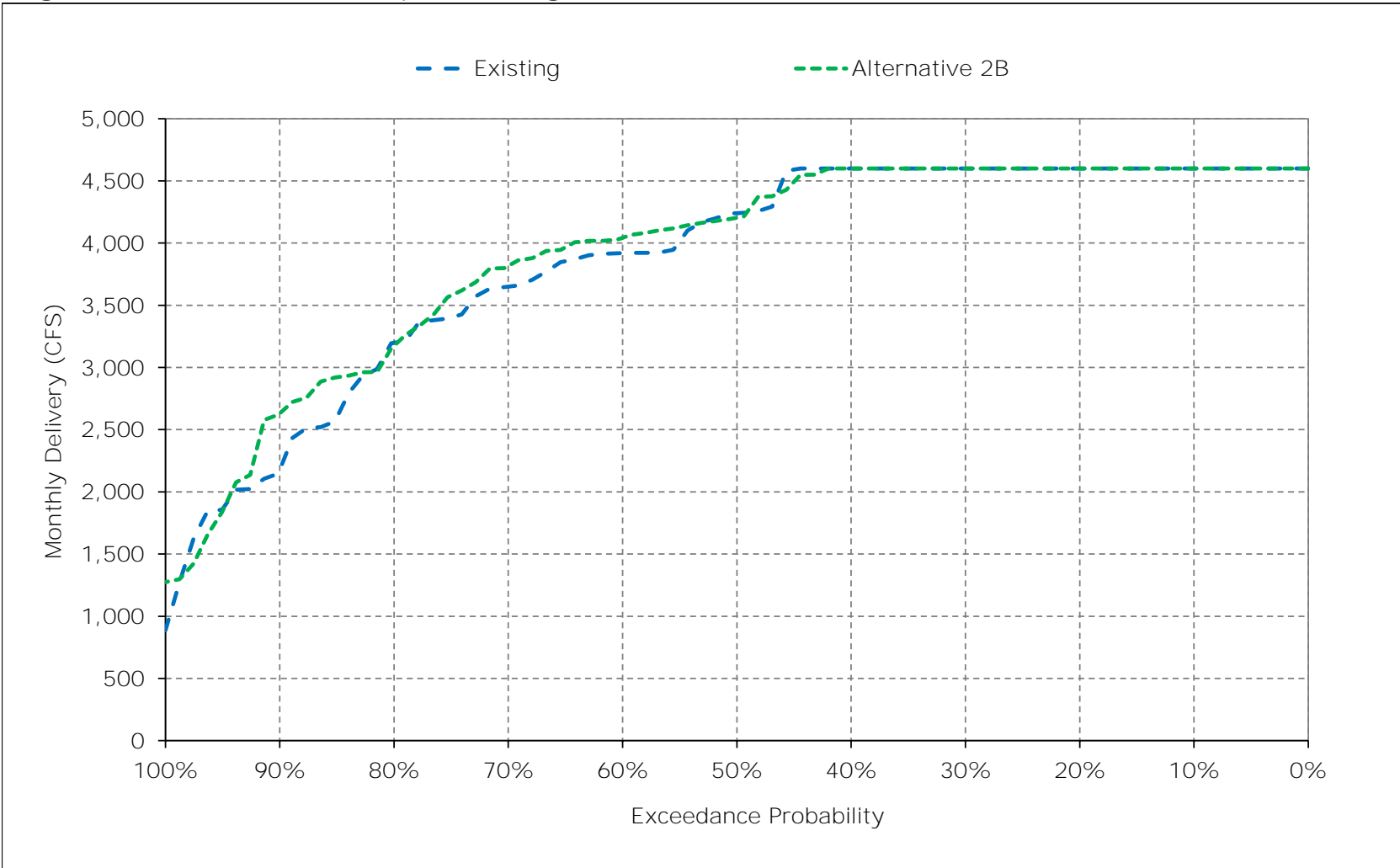
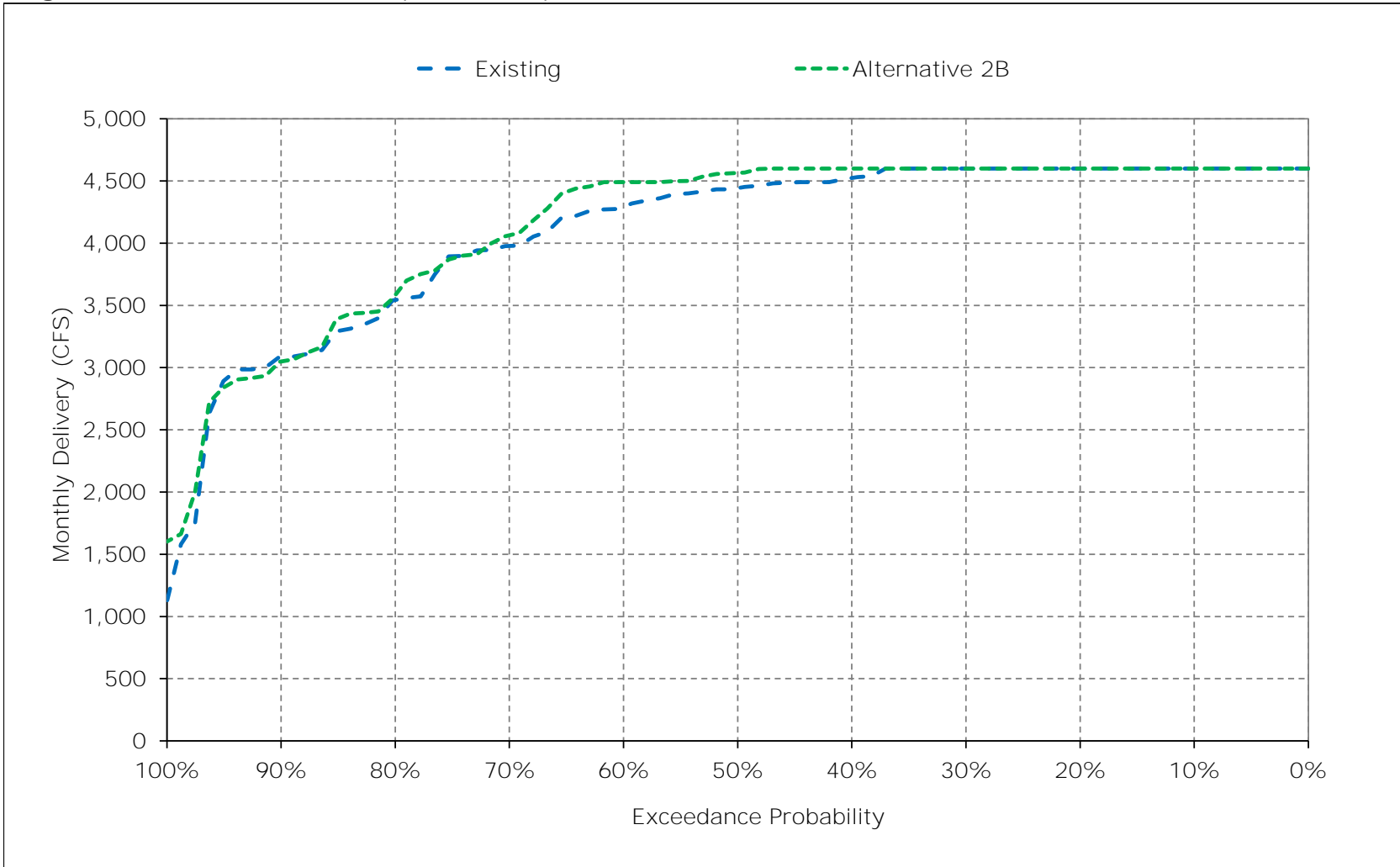


Figure 7-18. Jones PP Exports, September



## Appendix C – Modeling

### Attachment 3-4 – Water Supply Results (CalSim II)

***NOTE: Attachment 3-4 is a new attachment that has been added to the DEIR since initial publication, as part of the FEIR process. The additional attachment is not shown in underline for ease of reading.***

The following water supply results of the CalSim II model are included for the following alternatives:

- Existing Conditions
- Refined Alternative 2b

<b>Title</b>	<b>Model Parameter</b>	<b>Table Numbers</b>	<b>Figure Numbers</b>
CalSim II Water Supply Summary Report	NA	1-1 to 1-2	1-1 to 1-9
Total Delta Exports	TOTAL_EXP		2-1

Report formats

- Tables comparing water supply of two scenarios (water supply by region and type, and water supply by type)
- Annual exceedance charts including all scenarios

Table 1-1. CALSIM II Water Summary Report, by Region and Type, Long-Term Average and Dry and Critical Year Averages

					Alternative 2B	Existing	Alternative 2B minus Existing
<b>Water Supply Reliability</b>							
<b>Sacramento River Hydrologic Region</b>							
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term	1,599	1,610	-10	
			Dry and Critical	1,575	1,585	-10	
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	164	159	5	
			Dry and Critical	147	140	7	
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	231	225	6	
			Dry and Critical	210	199	11	
CVP Ag	Contract Delivery (annual average - does not include Settlement)	(TAF/year)	Long Term	299	275	25	
			Dry and Critical	227	181	46	
SWP FRSA	Contract Delivery (annual average)	(TAF/year)	Long Term	952	952	0	
			Dry and Critical	908	908	0	
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	32	30	2	
			Dry and Critical	25	20	5	
<b>San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users)</b>							
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term	852	852	0	
			Dry and Critical	814	814	0	
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	261	261	0	
			Dry and Critical	248	249	-1	
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	18	17	1	
			Dry and Critical	15	15	0	
CVP Ag	Contract Delivery (annual average: does not include Exchange)	(TAF/year)	Long Term	410	352	58	
			Dry and Critical	251	226	24	
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term	3	3	0	
			Dry and Critical	2	2	0	
<b>San Francisco Bay Hydrologic Region</b>							
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	264	259	5	
			Dry and Critical	284	281	3	
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term	51	44	7	
			Dry and Critical	31	28	3	
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term	206	202	3	
			Dry and Critical	146	125	21	
<b>Central Coast Hydrologic Region</b>							
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	40	40	0	
			Dry and Critical	25	22	2	
<b>Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)</b>							
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	12	12	0	
			Dry and Critical	11	11	0	
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term	834	728	106	
			Dry and Critical	526	474	51	
SWP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	77	77	-1	
			Dry and Critical	48	42	6	
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term	574	585	-11	
			Dry and Critical	317	310	6	
<b>South Lahontan Hydrologic Region</b>							
SWP M&I	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term	259	260	-1	
			Dry and Critical	173	155	18	
<b>South Coast Hydrologic Region</b>							
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term	1,274	1,242	32	
			Dry and Critical	912	763	148	
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term	7	7	0	
			Dry and Critical	5	4	1	
<b>Total For All Regions</b>							
Total Supplies	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term	8,419	8,193	226	
			Dry and Critical	6,899	6,556	342	

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921



Table 1-2. CALSIM II Water Supply Summary Report, by Type, Long-Term Average and Dry and Critical Year Averages

				Alternative 2B	Existing	Alternative 2B minus Existing
<b>Water Supply Reliability</b>						
<b>North of Delta</b>						
CVP Ag	Contract Delivery (annual average; does not include Exchange)	(TAF/year)	Long Term Dry and Critical	299 227	275 181	25 46
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term Dry and Critical	383 397	376 386	6 11
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term Dry and Critical	0 0	0 0	0 0
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term Dry and Critical	103 73	101 68	2 5
<b>Total CVP North of Delta</b>						
Total CVP Ag and M&I NOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term Dry and Critical	682 624	651 567	31 57
<b>Total SWP North of Delta</b>						
Total SWP Ag and M&I NOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term Dry and Critical	103 73	101 68	2 5
<b>Total North of Delta</b>						
Total North of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term Dry and Critical	785 697	752 635	33 62
<b>South of Delta</b>						
CVP Ag	Contract Delivery (annual average; does not include Exchange)	(TAF/year)	Long Term Dry and Critical	1,295 808	1,124 729	171 79
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term Dry and Critical	130 112	124 109	6 3
SWP Ag	Contract Delivery (including Article 21) (annual average)	(TAF/year)	Long Term Dry and Critical	585 323	596 316	-11 7
SWP M&I	Contract Delivery (including Article 21, includes transfers to SWP contractors) (annual average)	(TAF/year)	Long Term Dry and Critical	1,784 1,256	1,750 1,060	33 196
<b>Total CVP South of Delta</b>						
Total CVP Ag and M&I SOD	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term Dry and Critical	1,425 920	1,248 838	177 82
<b>Total SWP South of Delta</b>						
Total SWP Ag and M&I SOD	Contract Delivery (SWP) (annual average)	(TAF/year)	Long Term Dry and Critical	2,369 1,579	2,346 1,377	22 203
<b>Total South of Delta</b>						
Total South of Delta Ag and M&I Deliveries	Contract Delivery (CVP, SWP and other) (annual average)	(TAF/year)	Long Term Dry and Critical	3,794 2,499	3,594 2,215	200 285

Notes:

1. Long Term is the average quantity for the period of Oct 1921 - Sep 2003.
2. Dry and Critical Years Average is the average quantity for the combination of the SWRCB D-1641 40-30-30 Dry and Critical years for the period of Oct 1921

Figure 1-1. CVP North of Delta Agricultural Water Service Contract Deliveries, Annual (Mar-Feb)

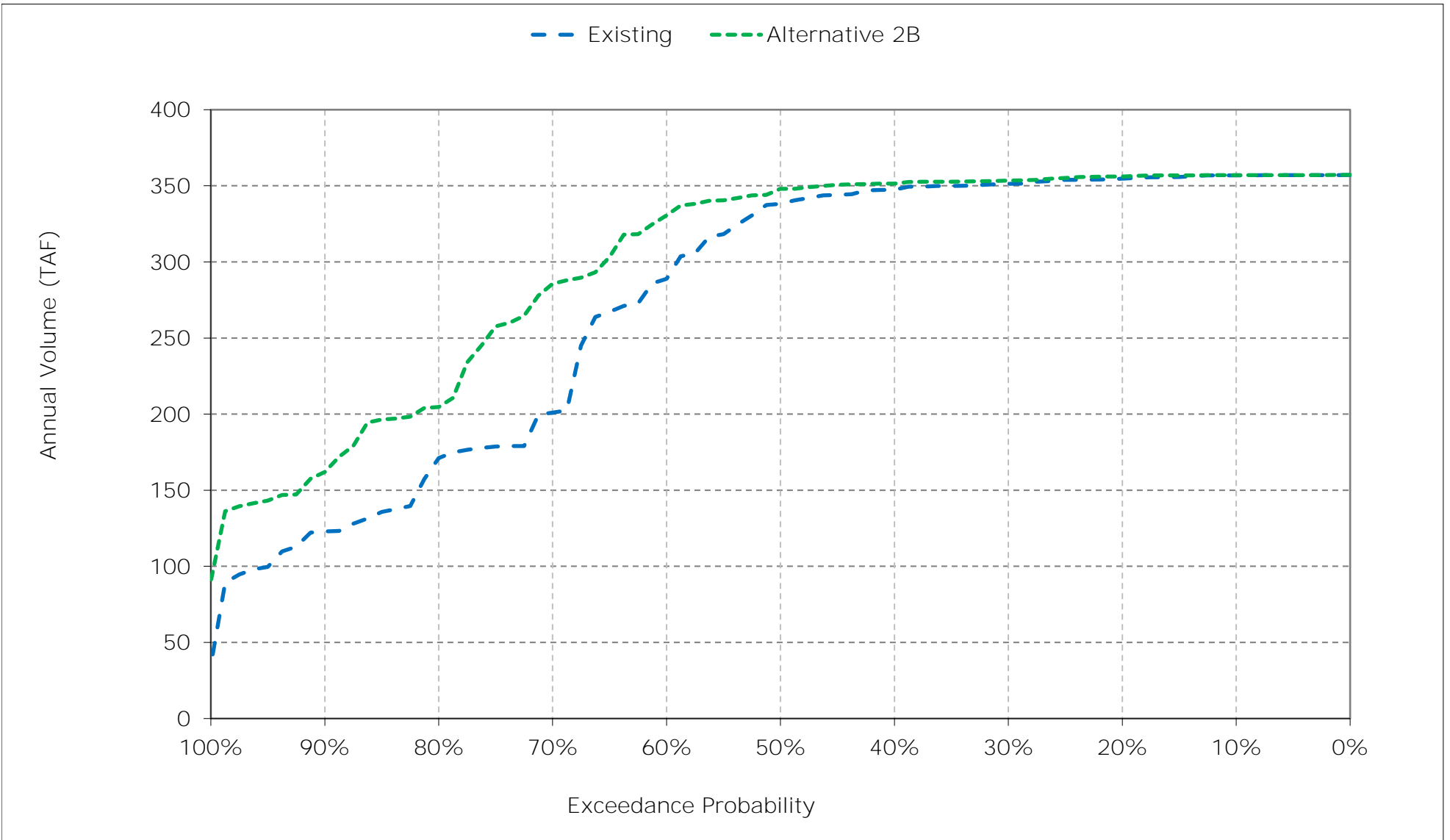


Figure 1-2. CVP South of Delta Agricultural Water Service Contract Deliveries, Annual (Mar-Feb)

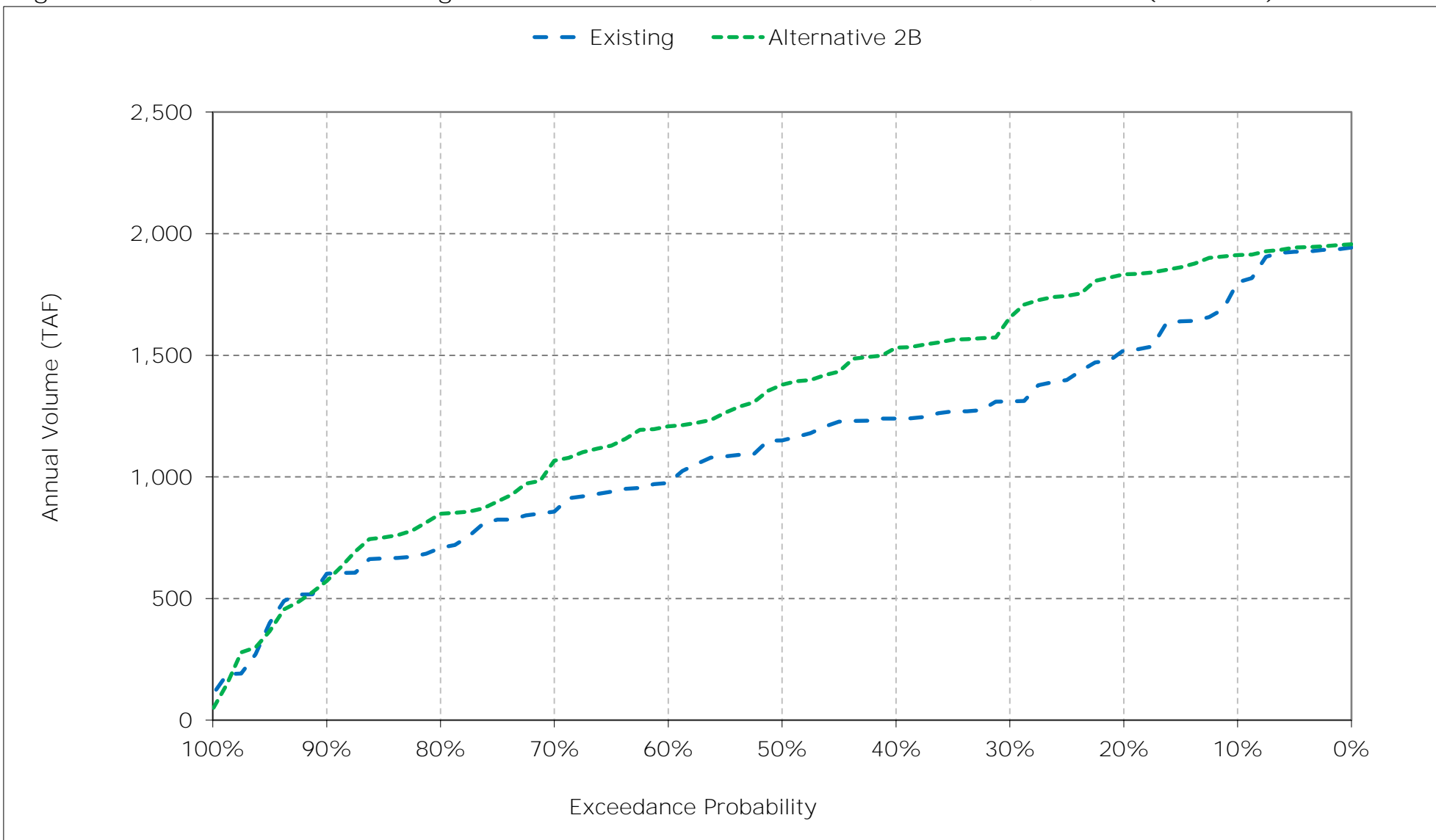


Figure 1-3. CVP North of Delta M&I Water Service Contract Deliveries, Annual (Mar-Feb)

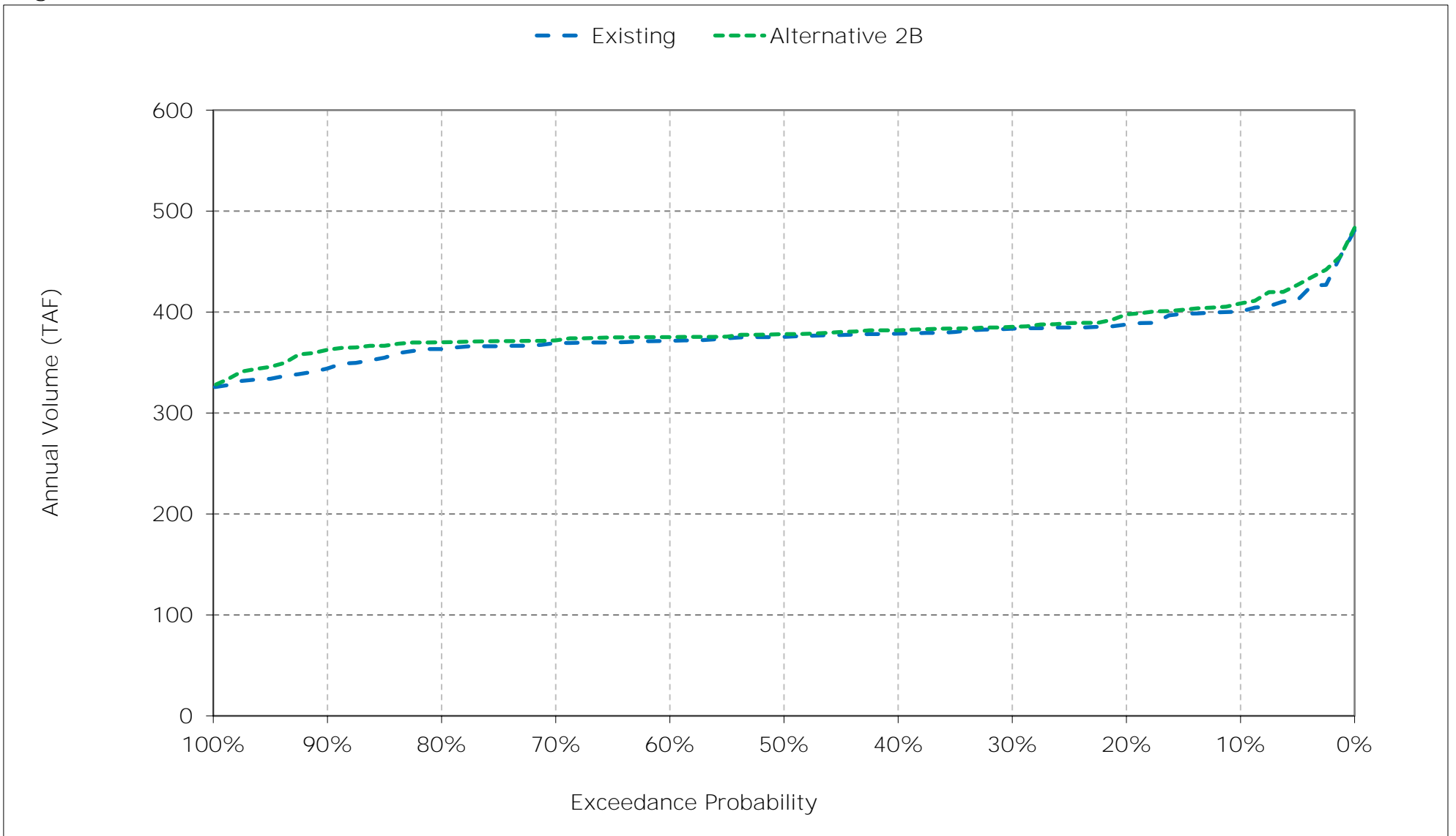


Figure 1-4. CVP South of Delta M&I Water Service Contract Deliveries, Annual (Mar-Feb)

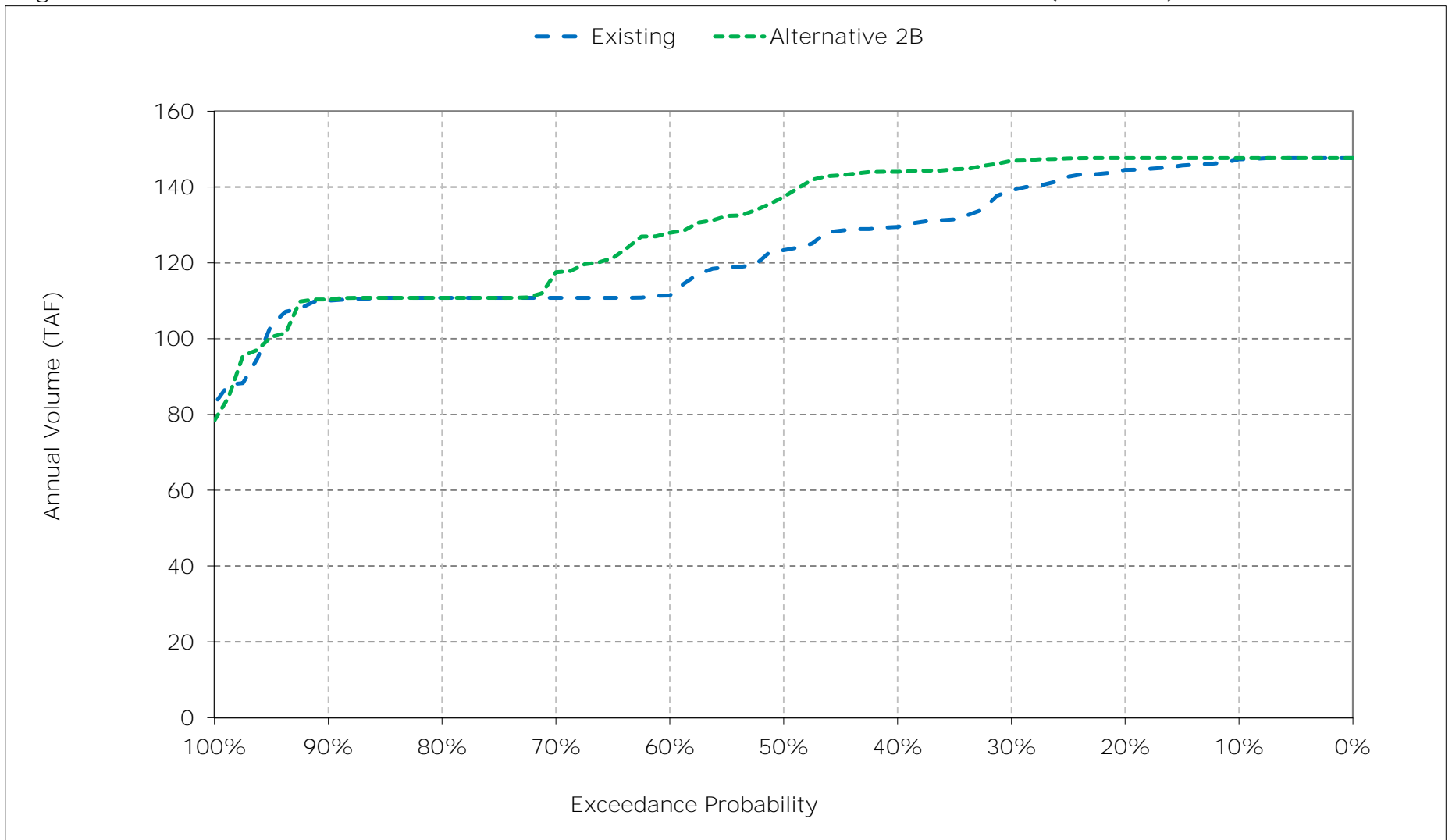


Figure 1-5. Total SWP Deliveries, Annual (Jan-Dec)



Figure 1-6. Total SWP South of Delta Deliveries including Article 21 and 56, Annual (Jan-Dec)

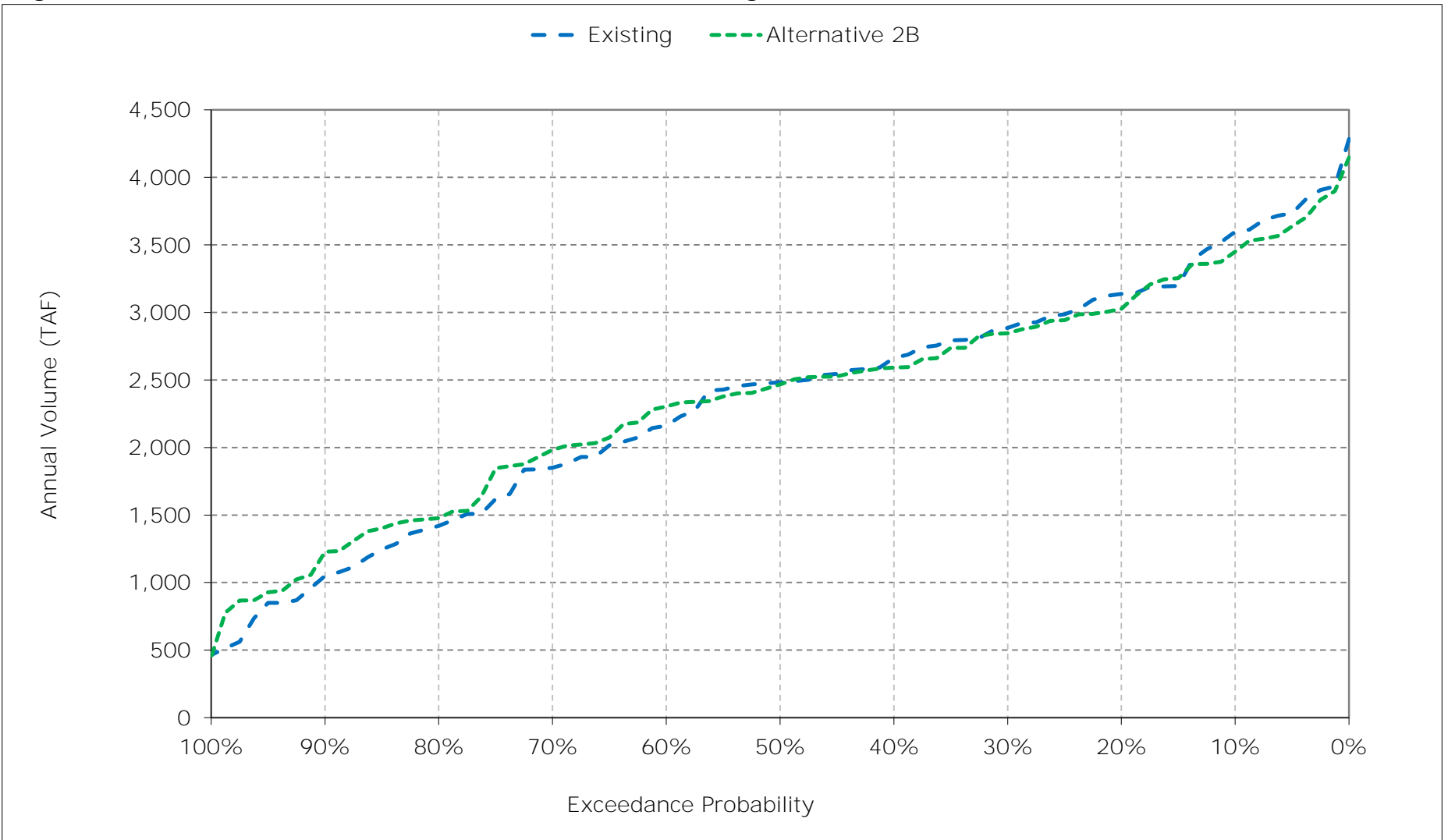


Figure 1-7. SWP Table A Deliveries with Article 56, Annual (Jan-Dec)

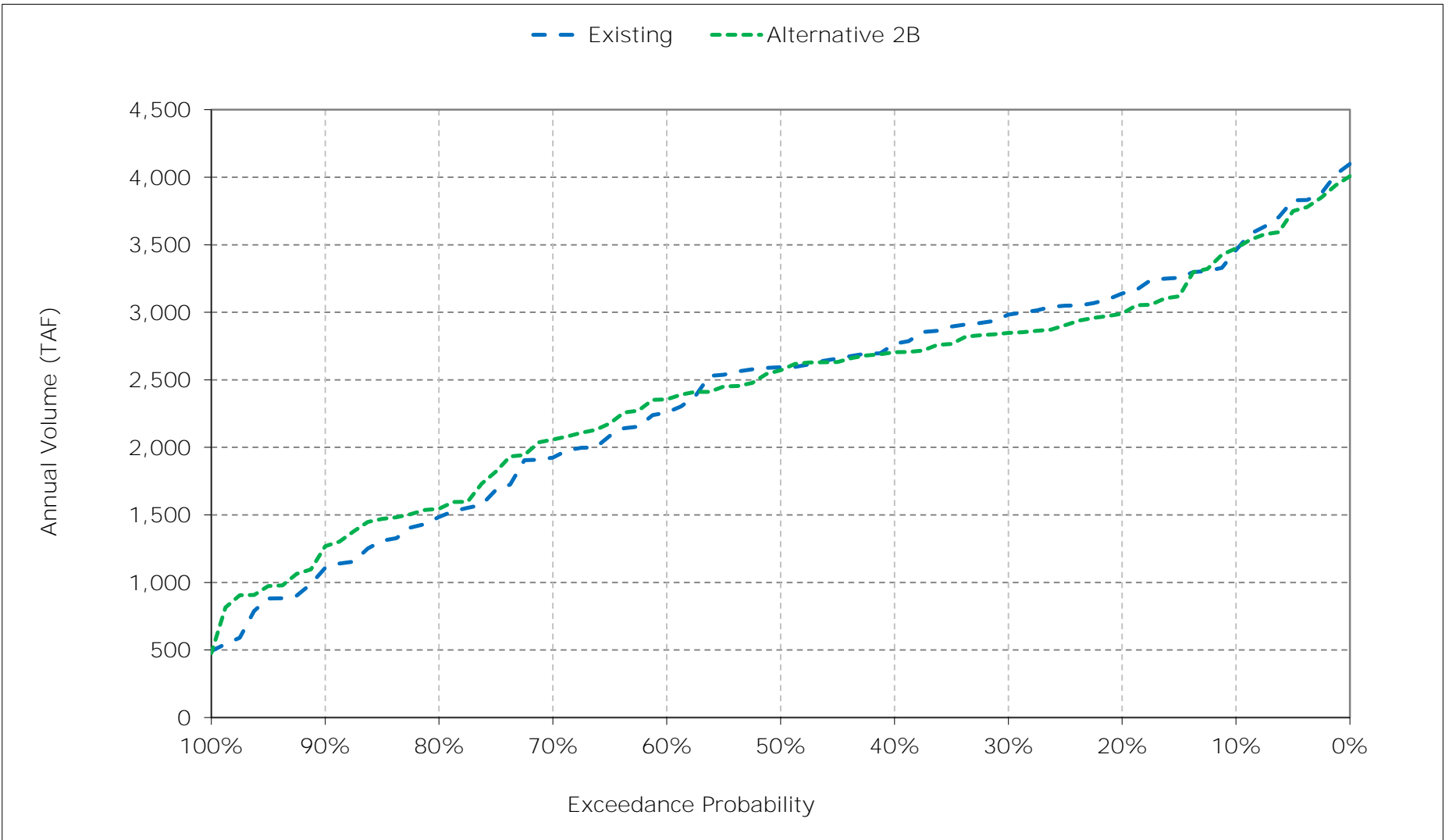




Figure 1-8. SWP South of Delta Table A Deliveries with Article 56, Annual (Jan-Dec)

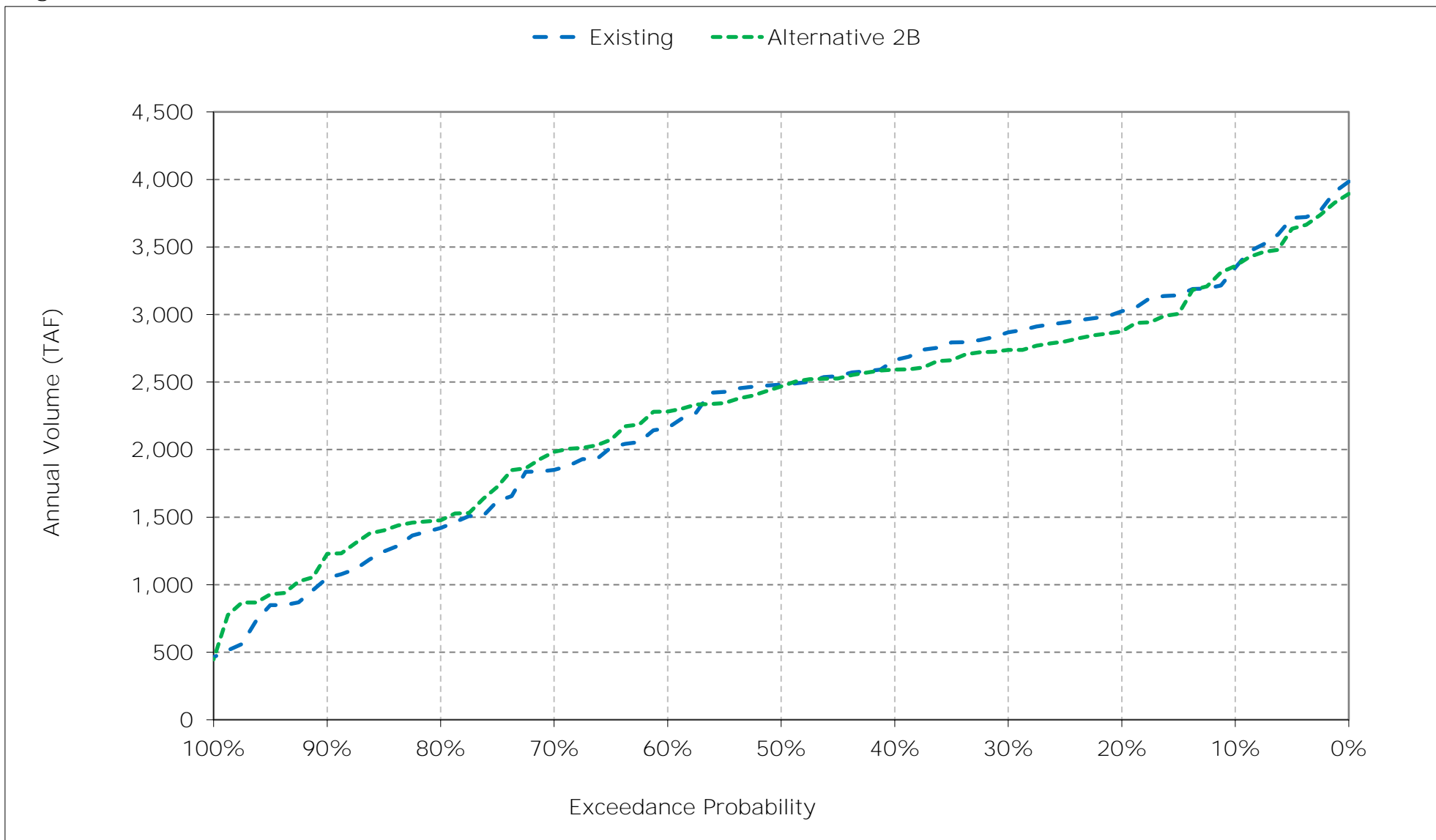


Figure 1-9. SWP Article 21 Deliveries, Annual (Jan-Dec)

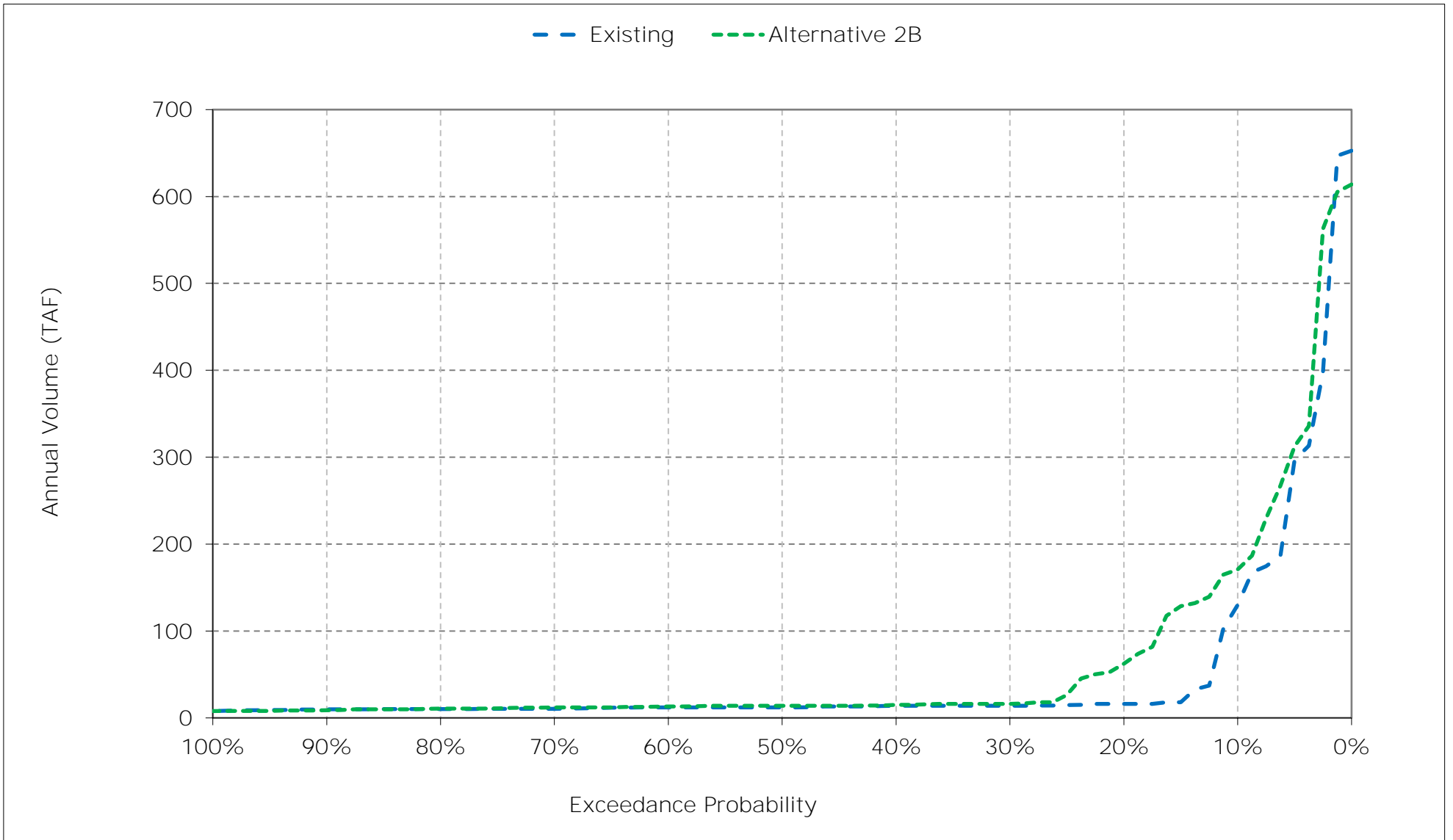
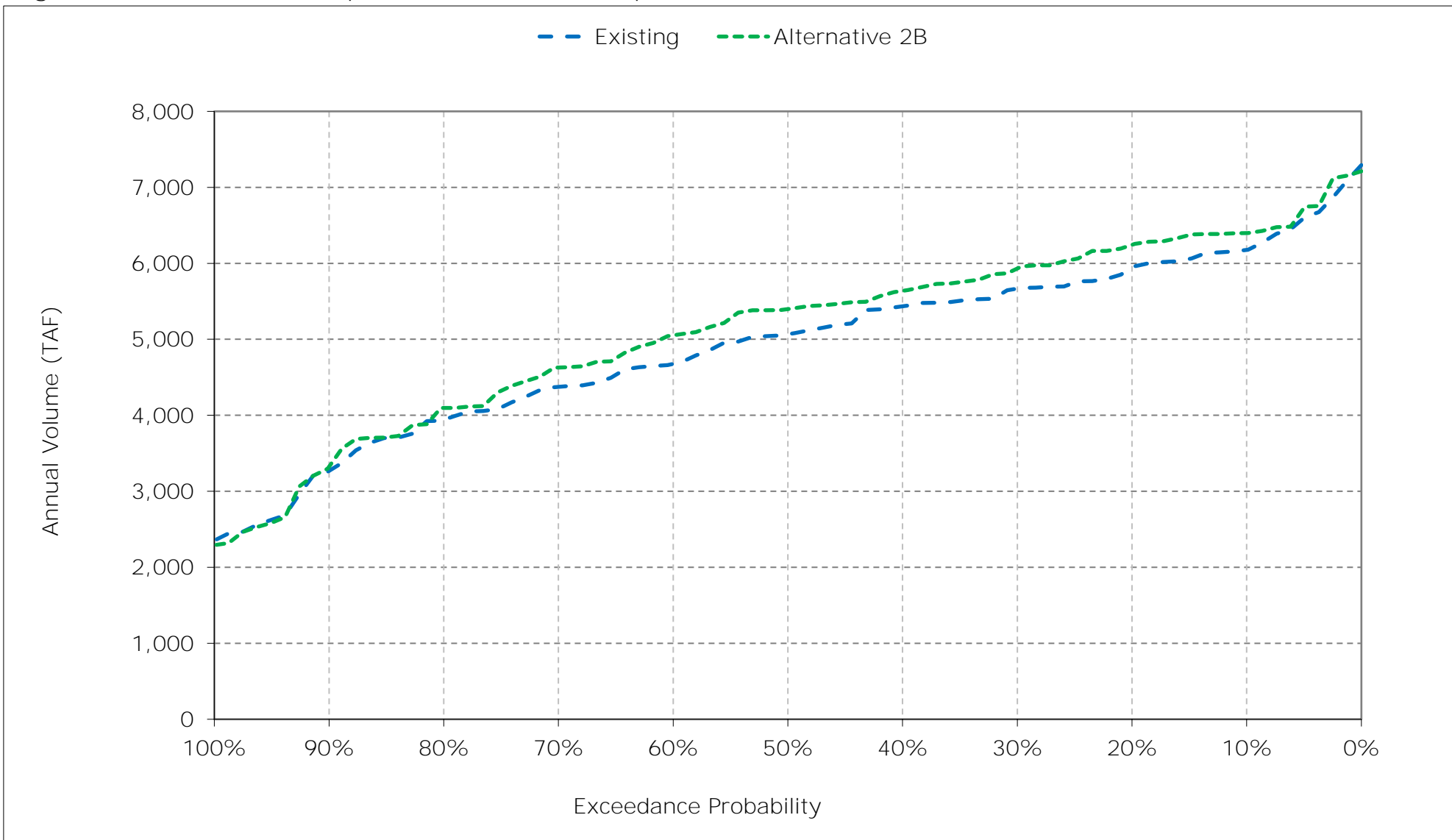


Figure 2-1. Total Delta Exports, Annual (Oct-Sep)



## Appendix C – Modeling

### Attachment 3-5 – X2 Position Results (CalSim II)

***NOTE: Attachment 3-5 is a new attachment that has been added to the DEIR since initial publication, as part of the FEIR process. The additional attachment is not shown in underline for ease of reading.***

The following results of the CalSim II model are included for Delta X2 conditions for the following alternatives:

- Existing Conditions
- Refined Alternative 2b

<b>Title</b>	<b>Model Parameter</b>	<b>Table Numbers</b>	<b>Figure Numbers</b>
X2	X2_PRV_MOD	1-1	1-1 to 1-18

Report formats

- Monthly tables comparing two scenarios (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 scenarios
- Monthly exceedance charts (all months) including all scenarios

Table 1-1. X2 Position, Monthly Position

Existing												
Statistic	Monthly Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	92.8	91.8	90.7	84.5	78.2	77.3	78.1	80.9	83.4	86.4	90.3	92.3
20%	92.1	91.3	88.6	82.9	72.2	71.8	72.2	78.1	81.7	85.1	88.2	91.1
30%	91.7	90.9	84.0	79.8	67.4	65.1	67.8	75.1	81.0	84.5	87.7	90.6
40%	91.0	90.4	82.0	73.4	63.3	63.6	66.4	71.0	80.4	82.4	86.3	89.8
50%	89.9	81.1	80.1	71.5	58.9	60.3	62.4	66.9	77.0	80.9	85.7	88.5
60%	81.0	80.9	78.8	65.4	53.8	57.3	60.0	64.5	75.3	79.9	85.0	81.0
70%	74.0	75.4	71.5	55.4	51.0	54.0	57.9	62.0	72.2	78.6	84.6	74.1
80%	74.0	74.0	63.5	50.3	48.2	49.9	53.2	58.7	66.5	77.1	83.7	74.0
90%	74.0	73.3	52.5	48.4	47.7	48.1	49.1	53.1	59.7	73.9	82.4	74.0
Long Term												
Full Simulation Period <sup>a</sup>	84.1	82.4	76.3	67.9	60.7	60.9	63.2	67.7	74.9	80.5	85.6	83.9
Water Year Types <sup>b,c</sup>												
Wet (32%)	80.7	76.7	63.8	53.9	50.2	51.8	54.1	57.9	65.5	74.4	82.7	73.6
Above Normal (15%)	83.6	80.9	76.6	62.5	54.7	53.8	58.2	62.5	73.0	78.2	83.6	74.3
Below Normal (17%)	85.3	84.9	81.5	72.7	61.0	63.5	63.9	68.5	76.9	81.6	85.4	89.1
Dry (22%)	85.3	85.4	82.7	78.1	69.3	67.2	69.8	74.8	80.8	84.9	87.9	90.8
Critical (15%)	88.9	88.6	87.7	82.7	76.3	75.4	77.5	82.7	86.2	88.2	90.5	92.5

Alternative 2B												
Statistic	Monthly Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	92.5	91.9	90.7	86.2	77.9	77.4	78.7	81.3	83.4	86.4	90.1	92.6
20%	92.1	91.4	88.8	84.2	72.4	71.0	73.8	80.2	82.9	85.3	88.5	91.3
30%	91.6	90.9	88.1	81.0	67.7	64.4	69.4	77.3	81.7	84.6	87.9	90.9
40%	91.3	90.5	87.3	74.0	63.8	62.8	67.5	73.2	81.0	81.8	85.8	89.8
50%	89.8	86.8	84.3	70.8	58.7	59.7	64.1	69.7	77.9	80.6	85.4	88.7
60%	80.1	86.4	81.1	64.6	53.7	56.7	61.1	67.5	76.6	79.9	84.8	80.1
70%	80.0	86.2	74.0	55.2	51.1	53.6	59.1	63.7	73.4	78.6	84.4	80.0
80%	80.0	84.8	64.6	50.2	48.1	49.2	54.2	60.0	66.9	77.2	83.7	80.0
90%	79.9	73.3	53.0	48.2	47.7	48.0	49.5	54.3	59.8	73.7	82.9	79.9
Long Term												
Full Simulation Period <sup>a</sup>	85.6	85.7	78.1	68.2	60.8	60.6	64.2	69.6	75.7	80.4	85.6	85.6
Water Year Types <sup>b,c</sup>												
Wet (32%)	82.7	81.1	65.0	53.8	50.1	51.6	54.9	59.6	66.3	74.5	82.6	78.9
Above Normal (15%)	85.5	84.4	78.9	62.5	54.4	53.3	59.3	64.8	73.9	78.3	83.8	73.3
Below Normal (17%)	86.9	88.1	83.7	72.4	60.6	62.8	65.2	71.3	77.7	80.9	85.1	89.1
Dry (22%)	86.7	88.2	84.7	79.2	70.0	66.7	70.8	76.6	81.6	84.9	88.1	91.1
Critical (15%)	89.1	90.6	89.1	83.4	77.0	75.6	78.0	83.3	86.4	88.2	90.5	92.6

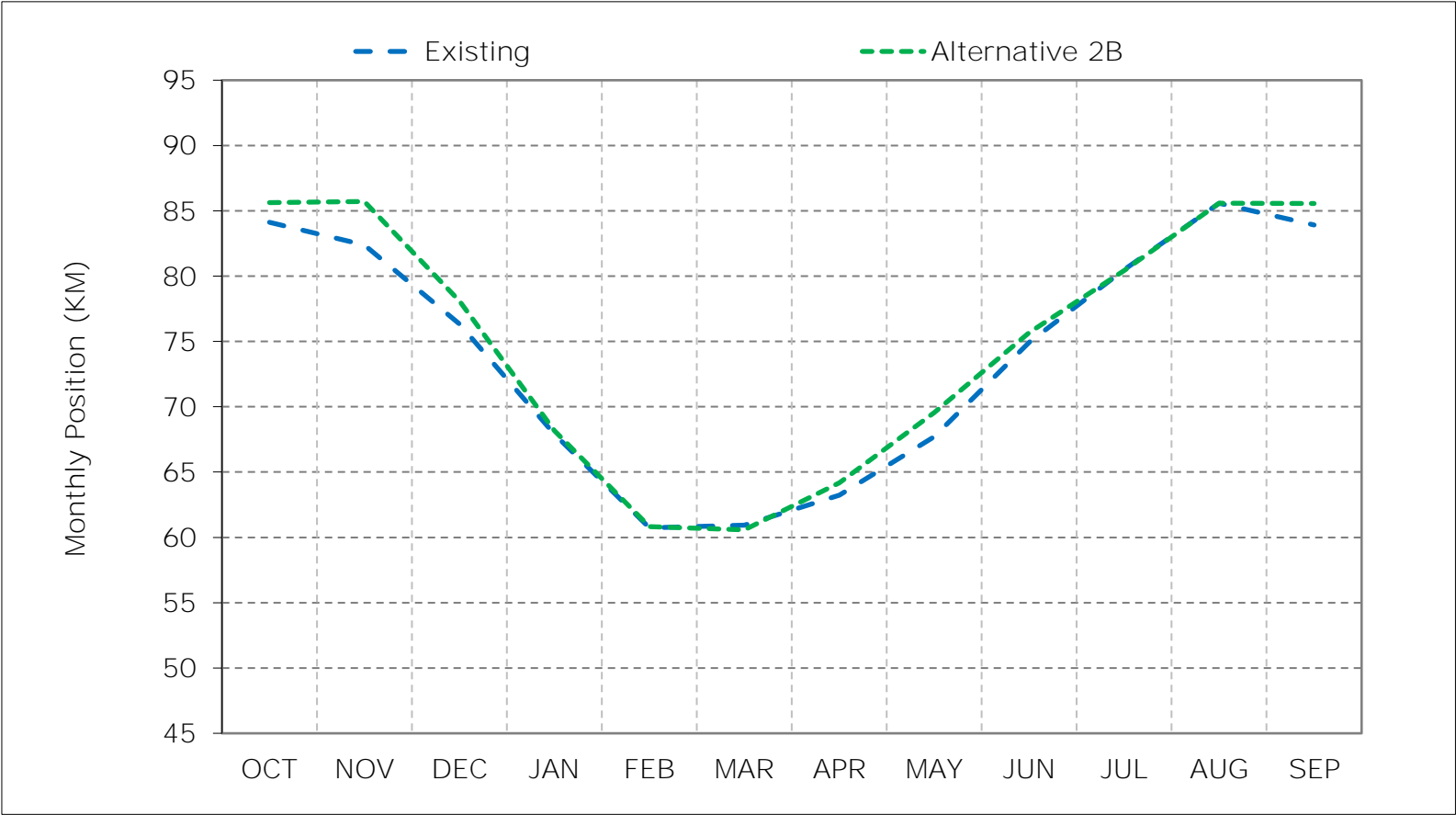
Alternative 2B minus Existing												
Statistic	Monthly Position (KM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.3	0.1	0.0	1.7	-0.3	0.1	0.6	0.4	0.0	0.0	-0.2	0.3
20%	0.0	0.1	0.1	1.2	0.2	-0.7	1.6	2.0	1.2	0.1	0.3	0.2
30%	-0.1	0.0	4.2	1.2	0.2	-0.7	1.6	2.2	0.7	0.1	0.2	0.2
40%	0.2	0.1	5.3	0.5	0.5	-0.8	1.2	2.3	0.5	-0.5	-0.4	-0.1
50%	0.0	5.7	4.2	-0.7	-0.2	-0.6	1.6	2.8	0.9	-0.3	-0.2	0.2
60%	-0.9	5.5	2.3	-0.8	-0.1	-0.6	1.1	2.9	1.3	0.0	-0.2	-0.9
70%	6.0	10.8	2.5	-0.1	0.1	-0.4	1.2	1.8	1.3	0.1	-0.2	5.9
80%	6.0	10.7	1.1	0.0	-0.1	-0.6	1.0	1.2	0.4	0.1	0.1	5.9
90%	6.0	-0.1	0.6	-0.2	-0.1	-0.1	0.4	1.2	0.1	-0.2	0.5	6.0
Long Term												
Full Simulation Period <sup>a</sup>	1.5	3.3	1.7	0.3	0.1	-0.4	0.9	1.8	0.7	-0.1	0.0	1.6
Water Year Types <sup>b,c</sup>												
Wet (32%)	1.9	4.4	1.2	-0.1	-0.2	-0.3	0.8	1.7	0.8	0.1	-0.1	5.3
Above Normal (15%)	1.9	3.5	2.3	0.0	-0.3	-0.5	1.0	2.3	1.0	0.1	0.2	-0.9
Below Normal (17%)	1.6	3.2	2.2	-0.3	-0.5	-0.7	1.3	2.8	0.8	-0.7	-0.3	0.0
Dry (22%)	1.4	2.7	2.0	1.1	0.7	-0.5	1.1	1.8	0.7	0.0	0.2	0.3
Critical (15%)	0.2	1.9	1.4	0.8	0.6	0.2	0.6	0.6	0.3	0.0	0.0	0.1

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 water year - year type sorting.

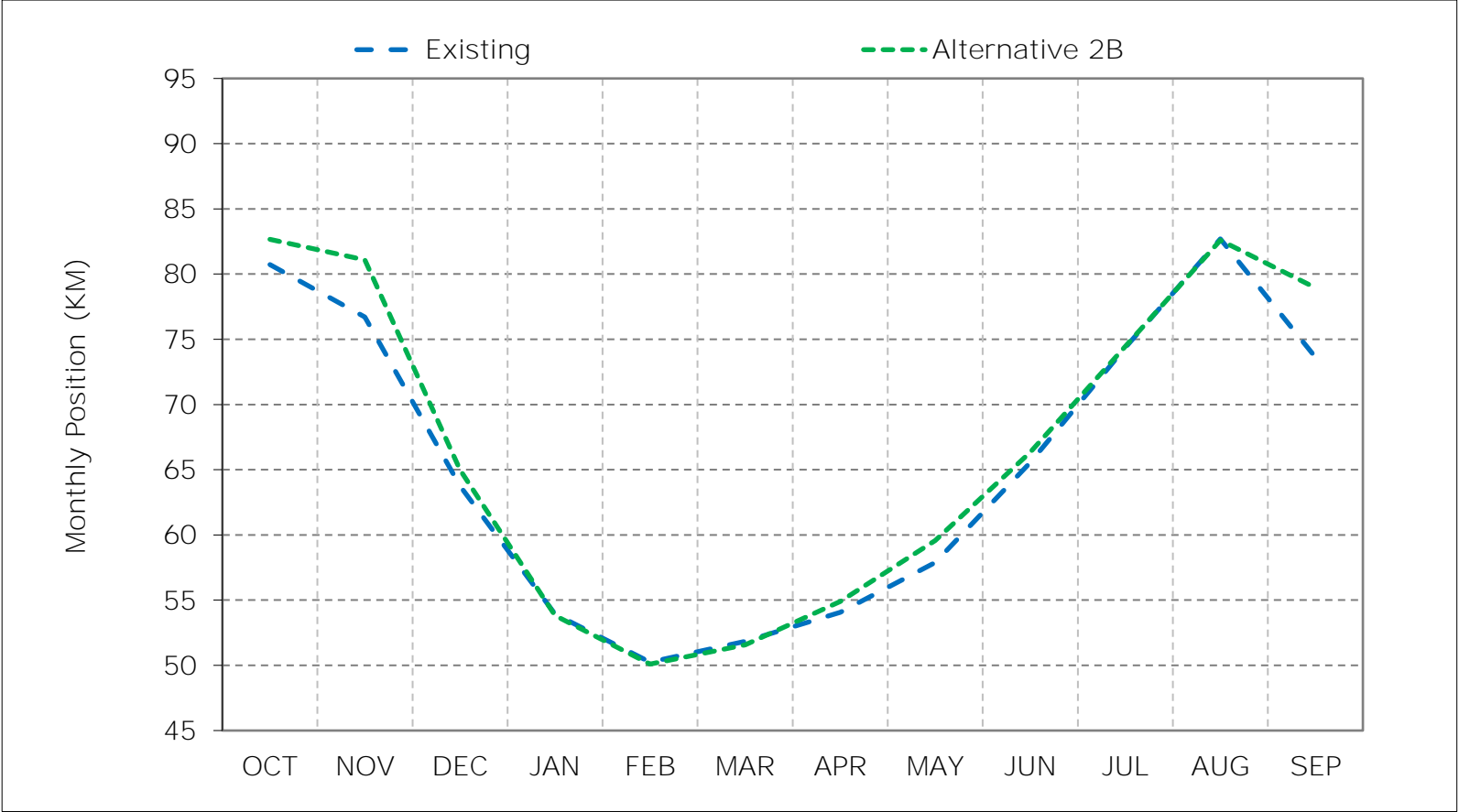
Figure 1-1. X2 Position, Long-Term Average Position



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

\*These results are displayed with water year - year type sorting.

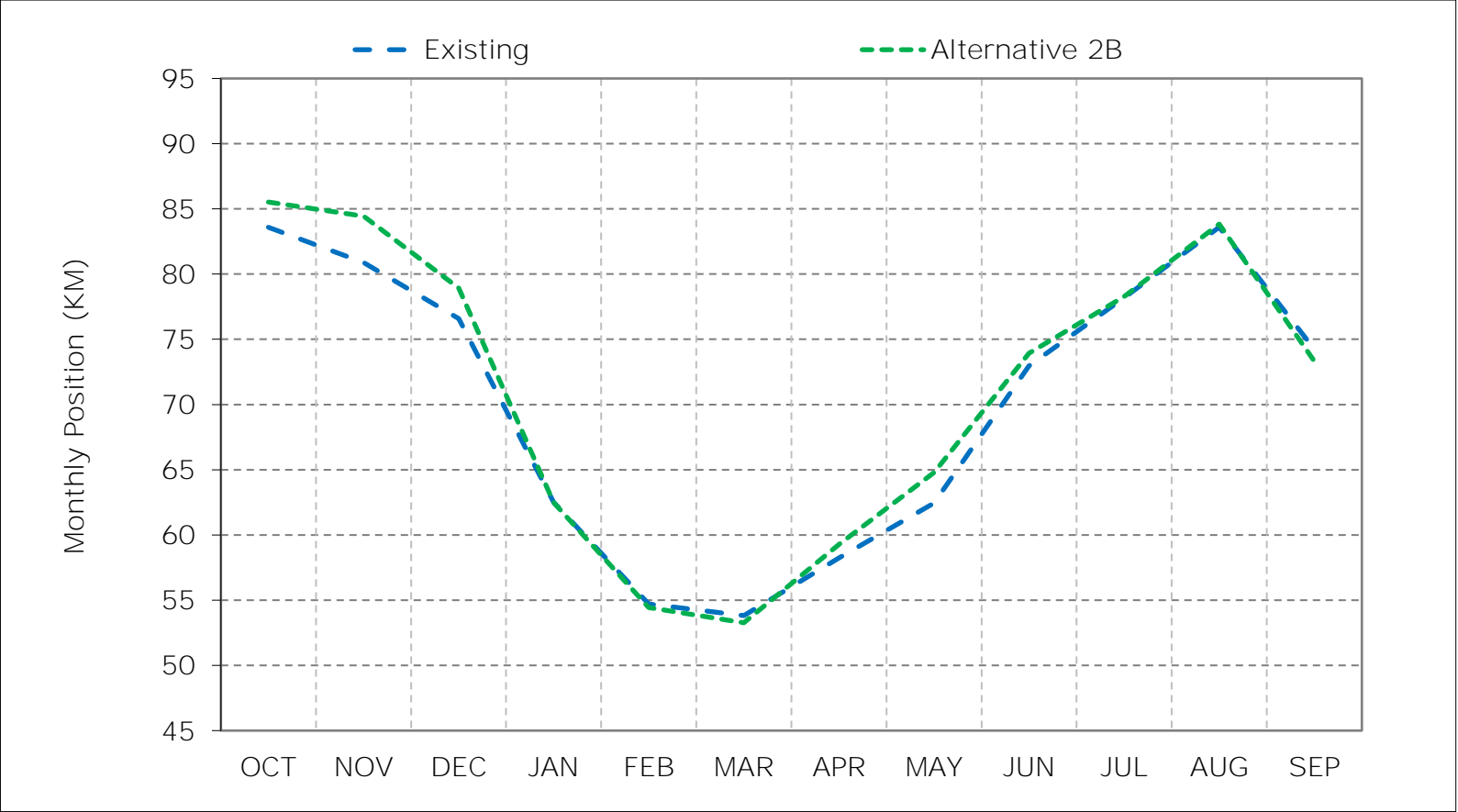
Figure 1-2. X2 Position, Wet Year Average Position



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

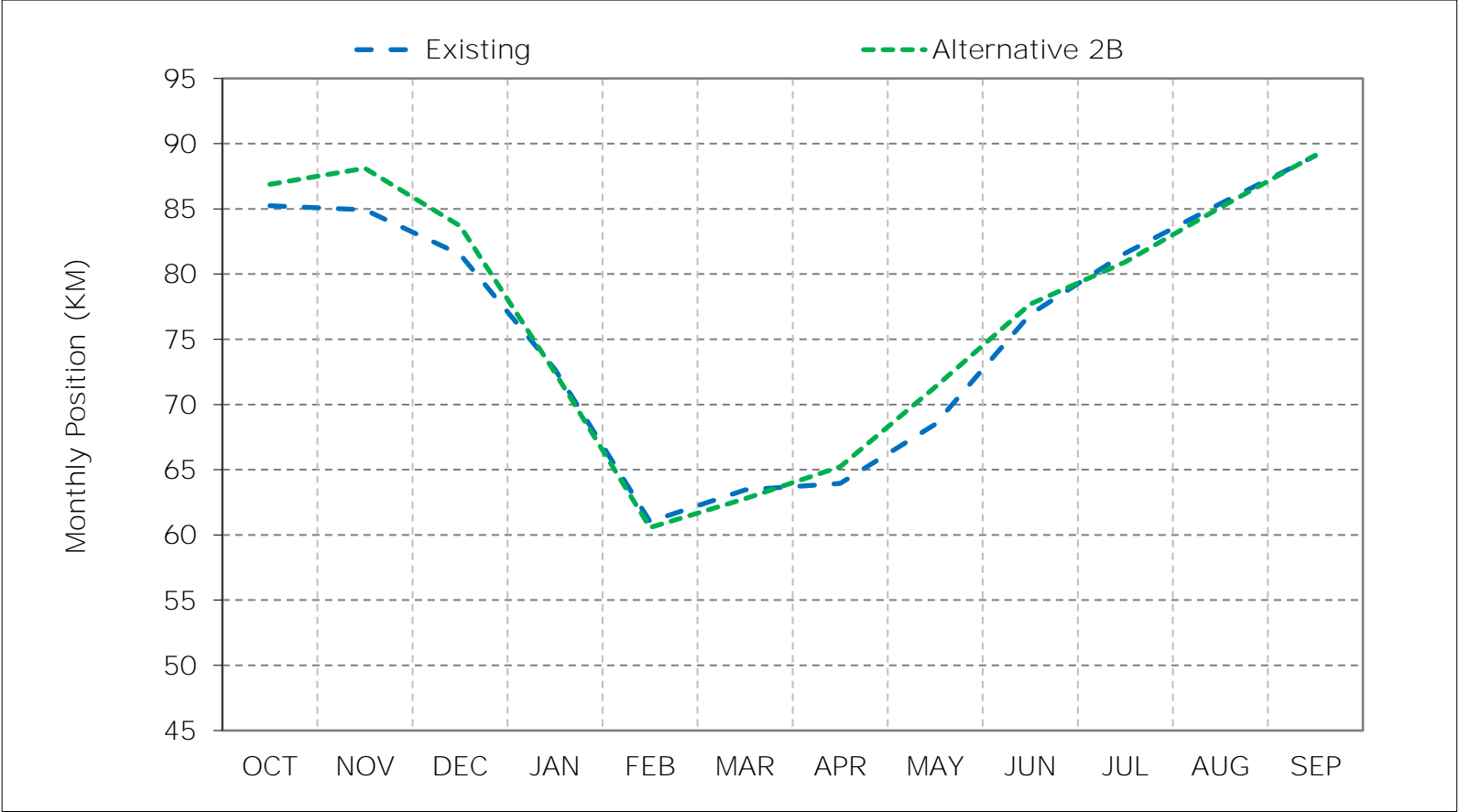


Figure 1-3. X2 Position, Above Normal Year Average Position



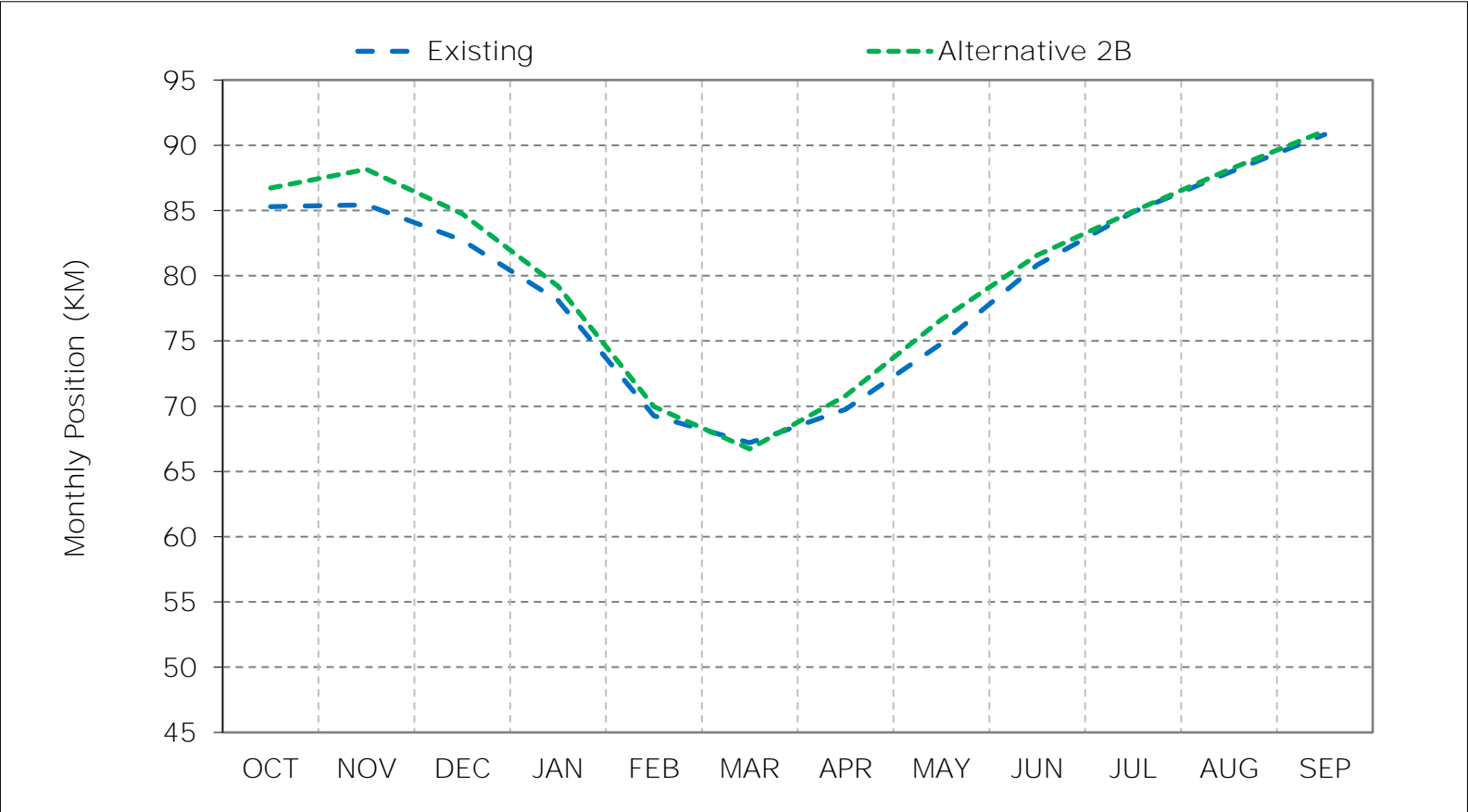
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 1-4. X2 Position, Below Normal Year Average Position



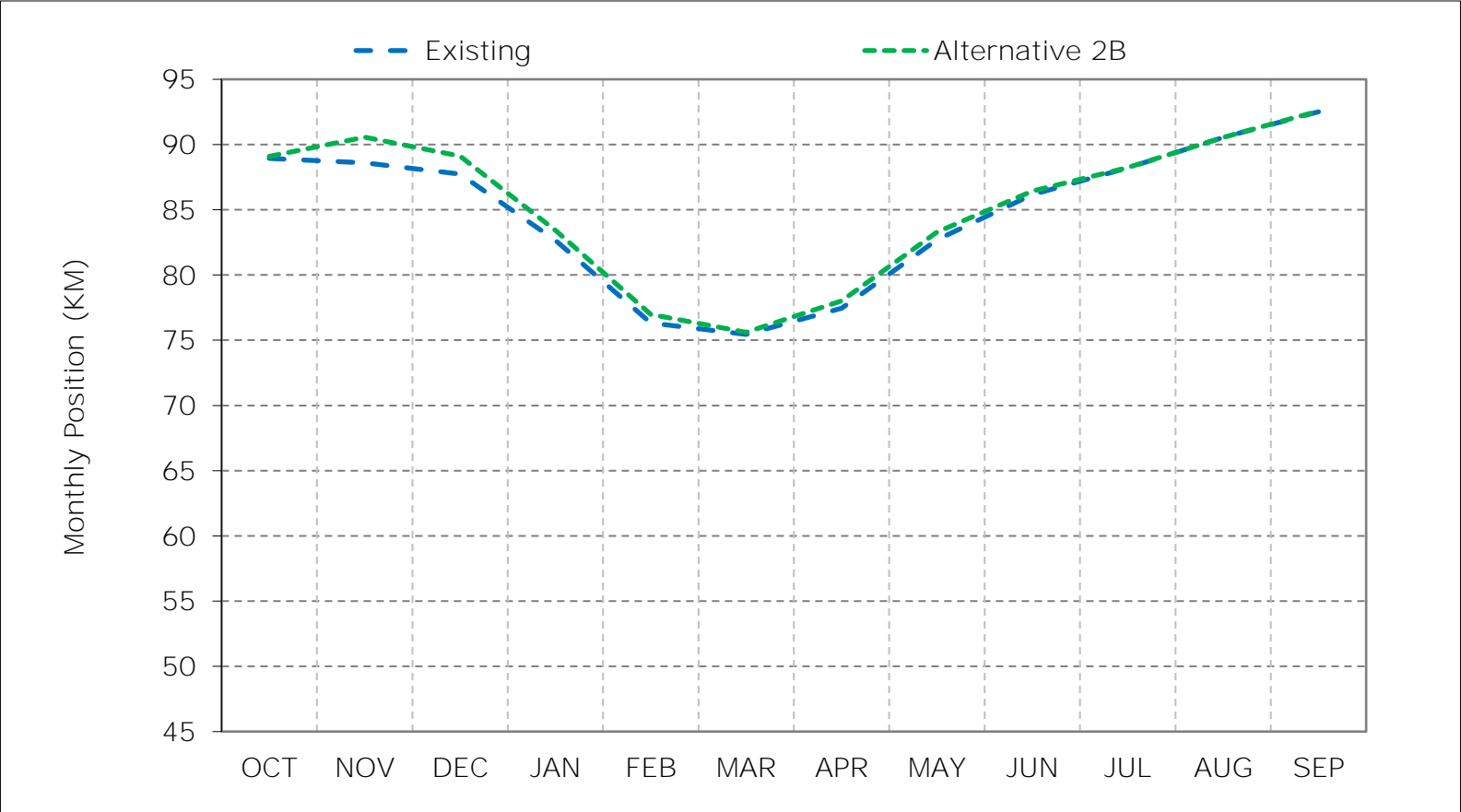
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 1-5. X2 Position, Dry Year Average Position



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 1-6. X2 Position, Critical Year Average Position



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 1-7. X2 Position, October

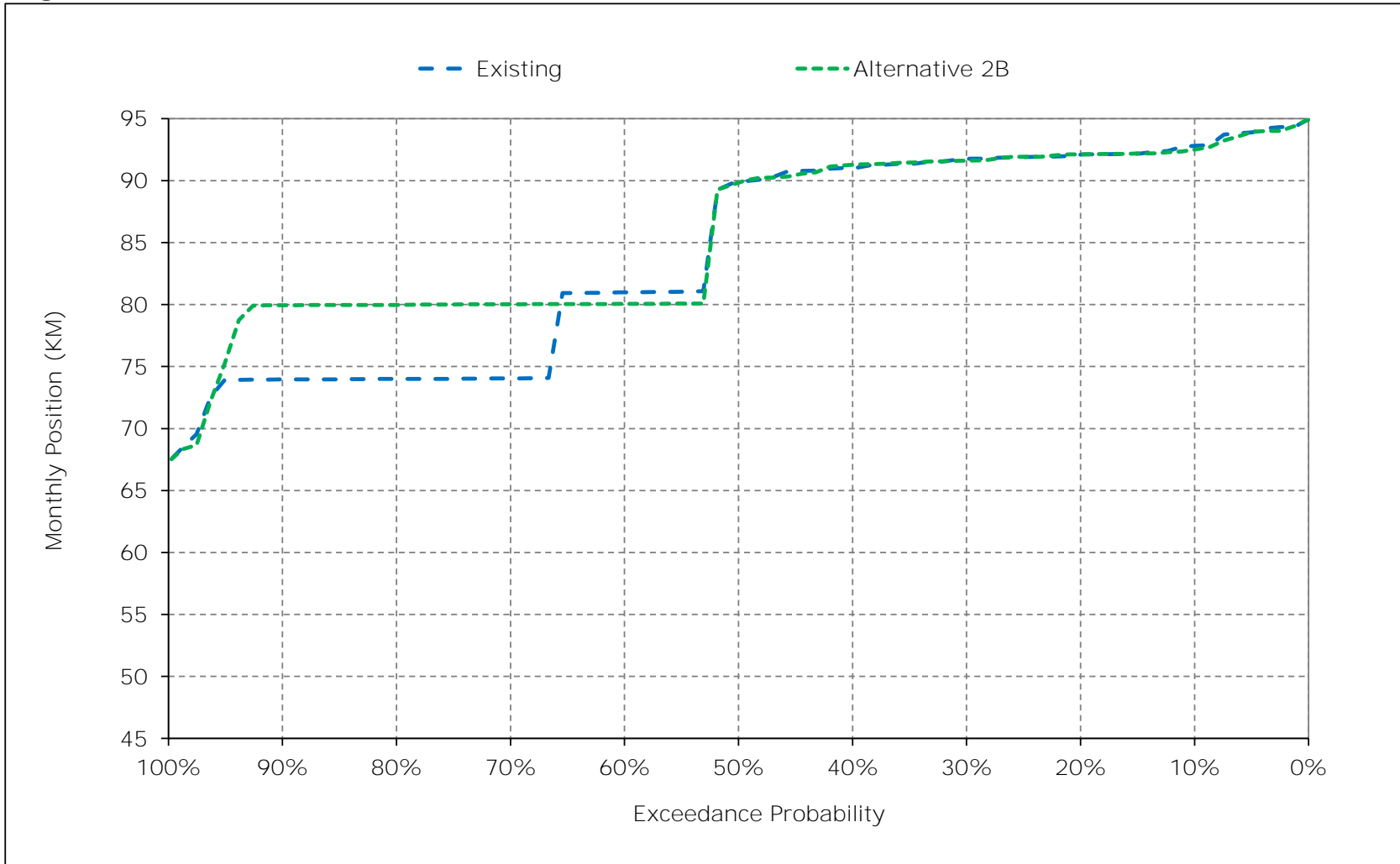


Figure 1-8. X2 Position, November

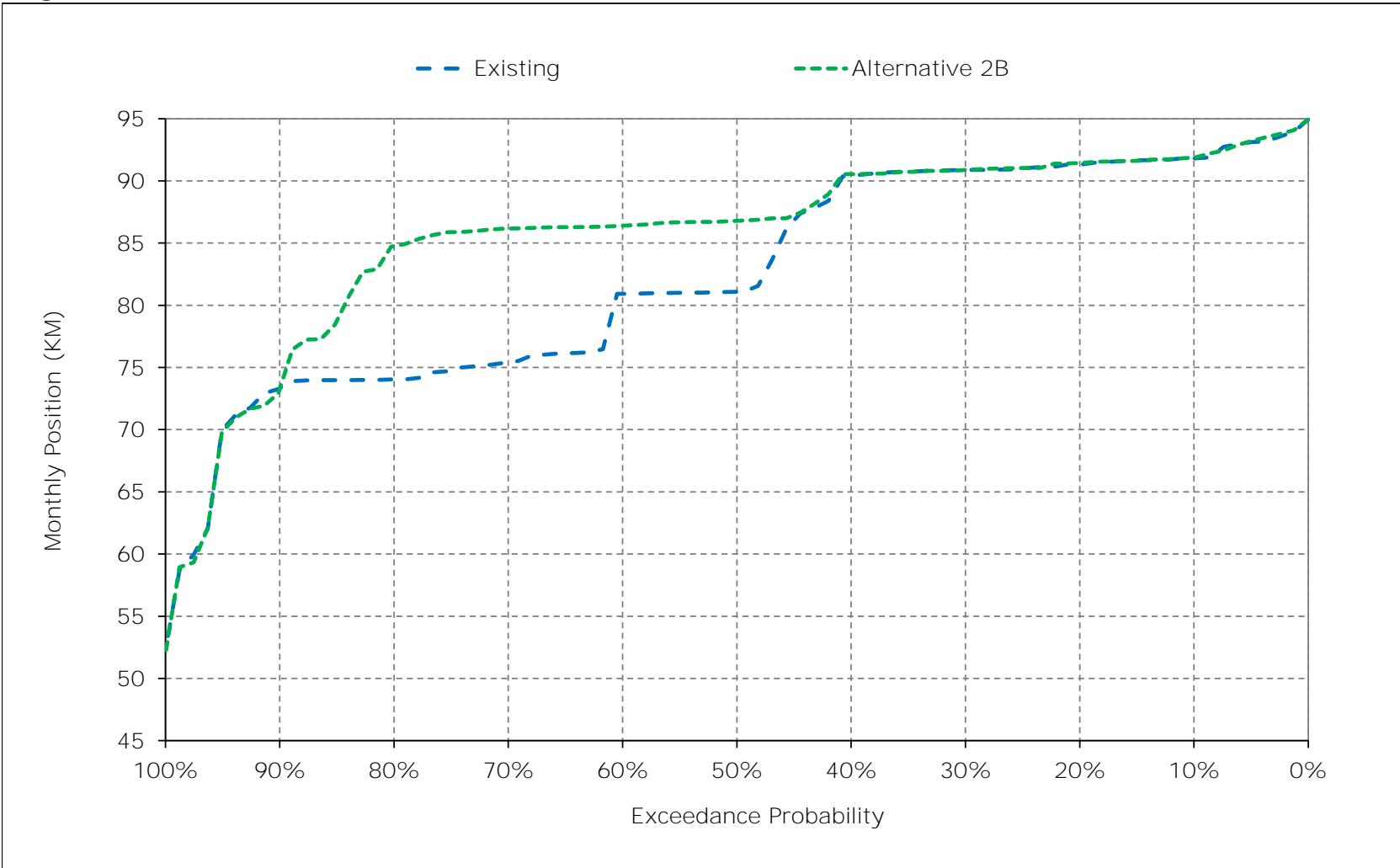


Figure 1-9. X2 Position, December

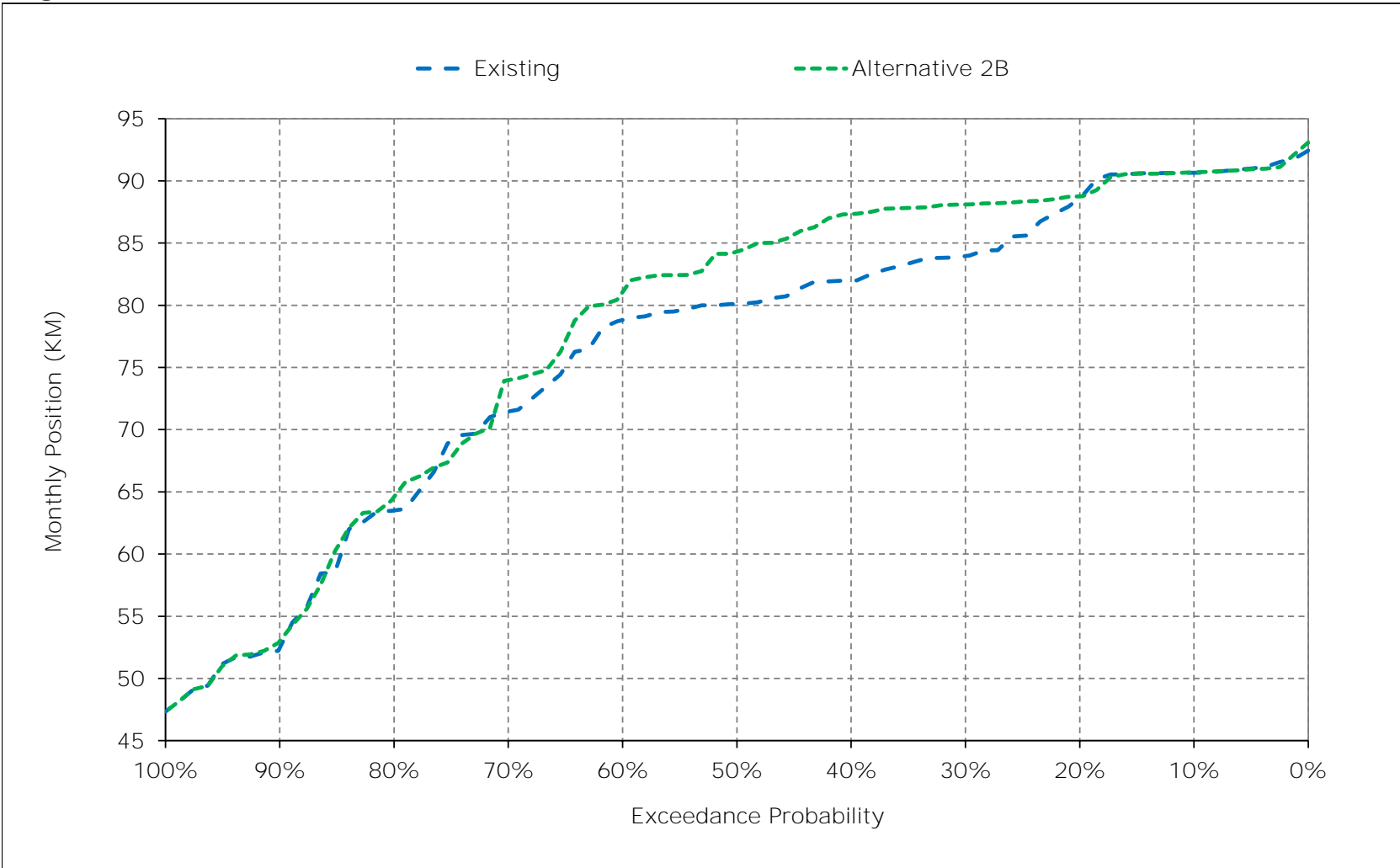


Figure 1-10. X2 Position, January

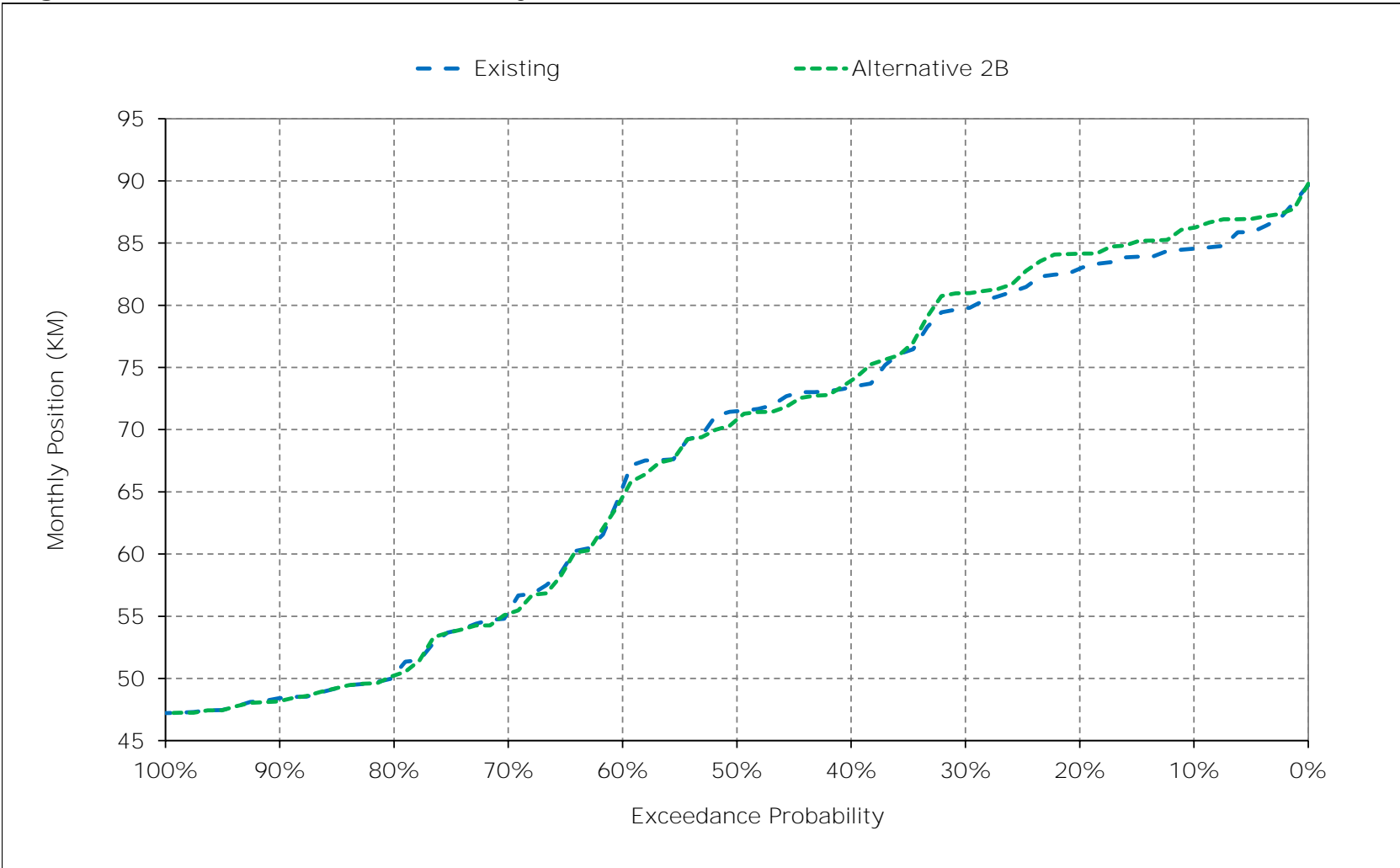




Figure 1-11. X2 Position, February



Figure 1-12. X2 Position, March

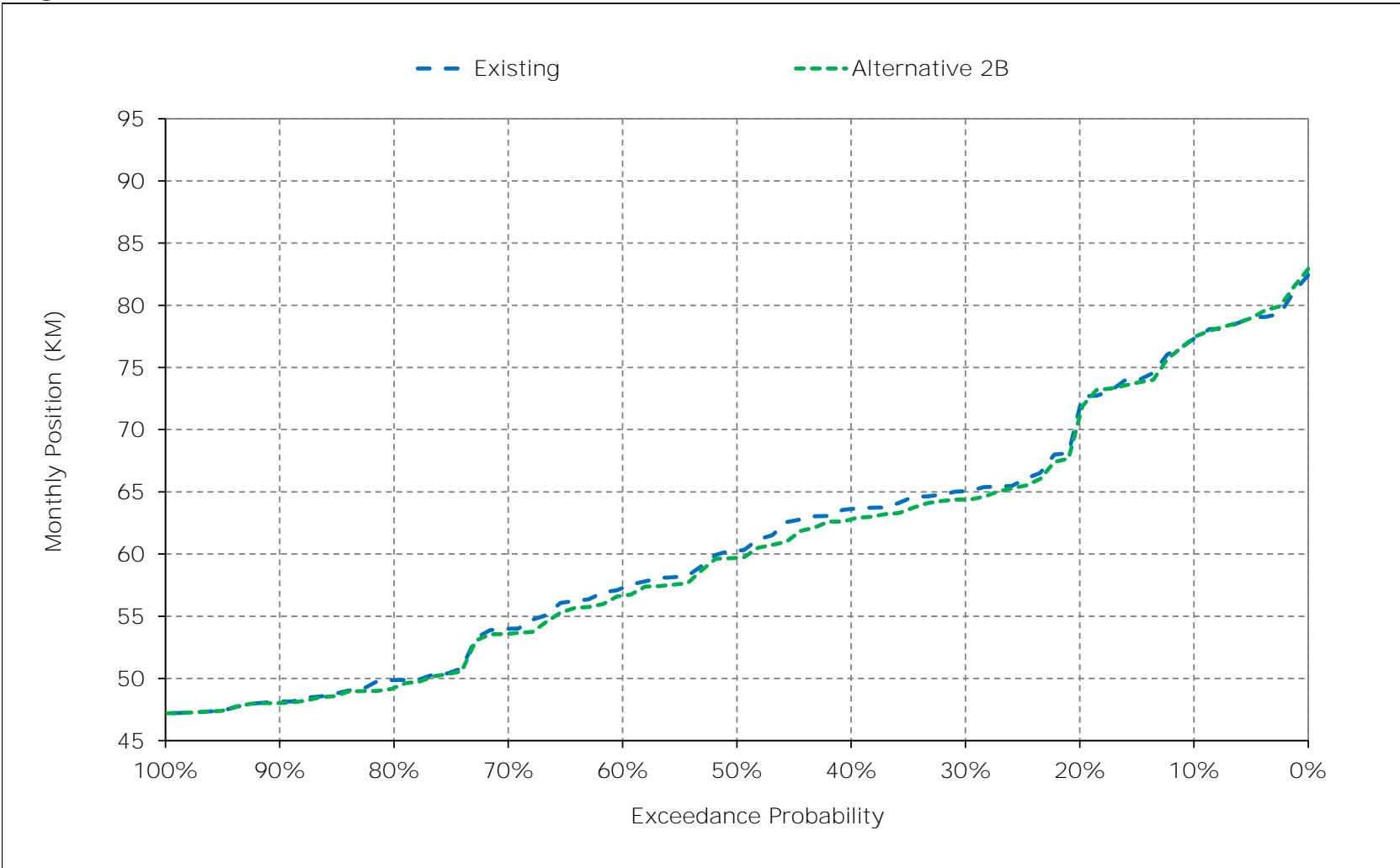


Figure 1-13. X2 Position, April

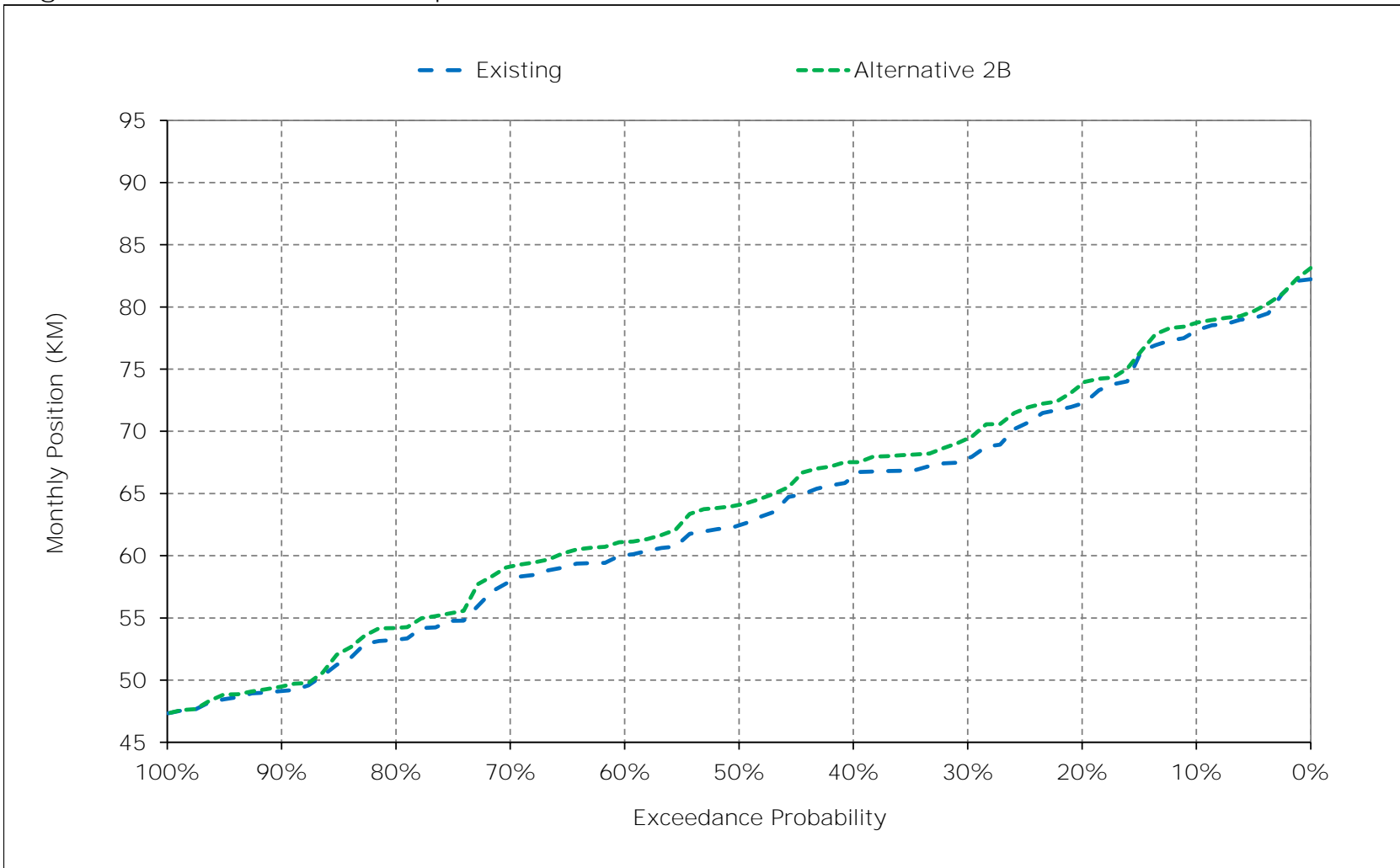


Figure 1-14. X2 Position, May

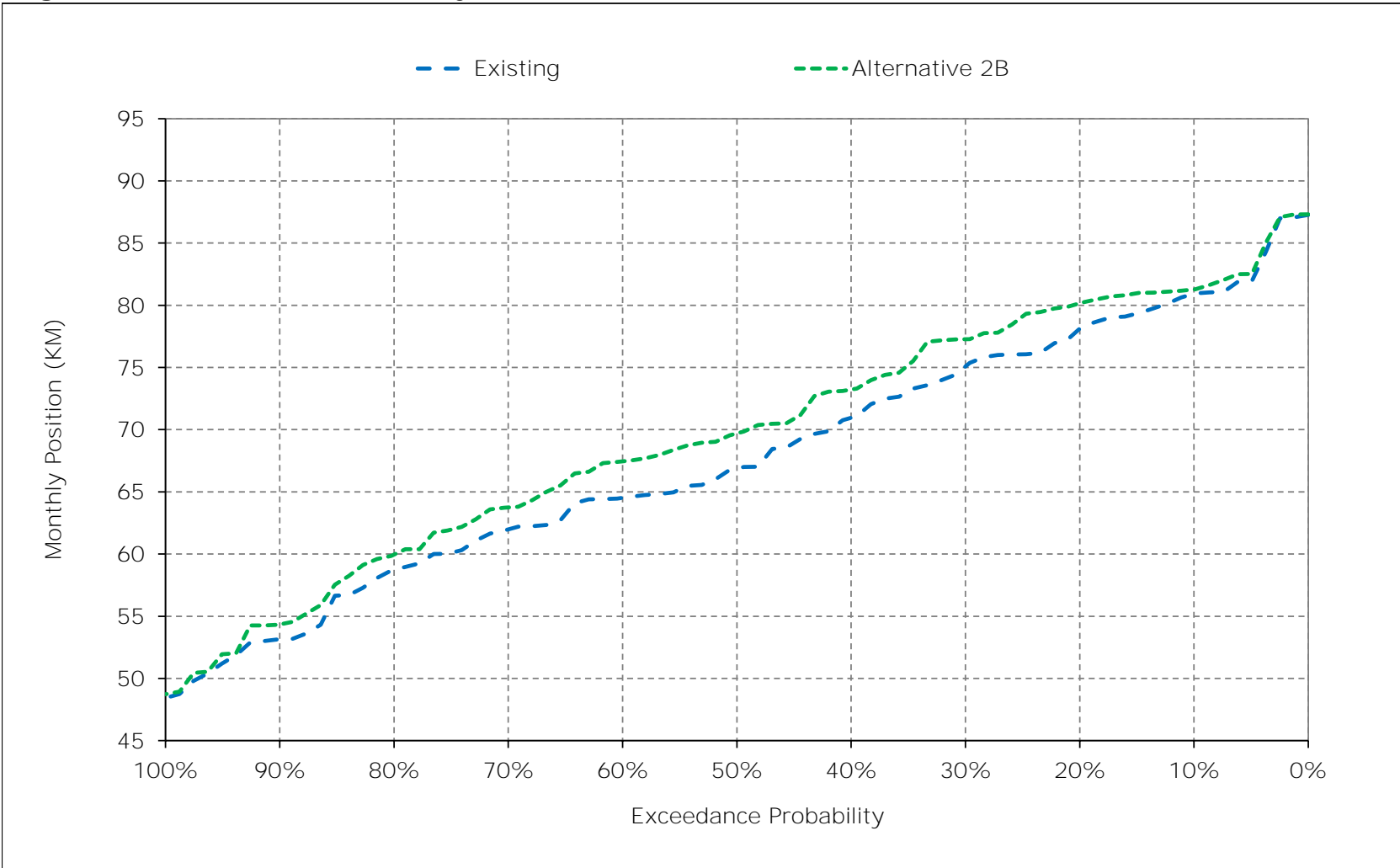


Figure 1-15. X2 Position, June

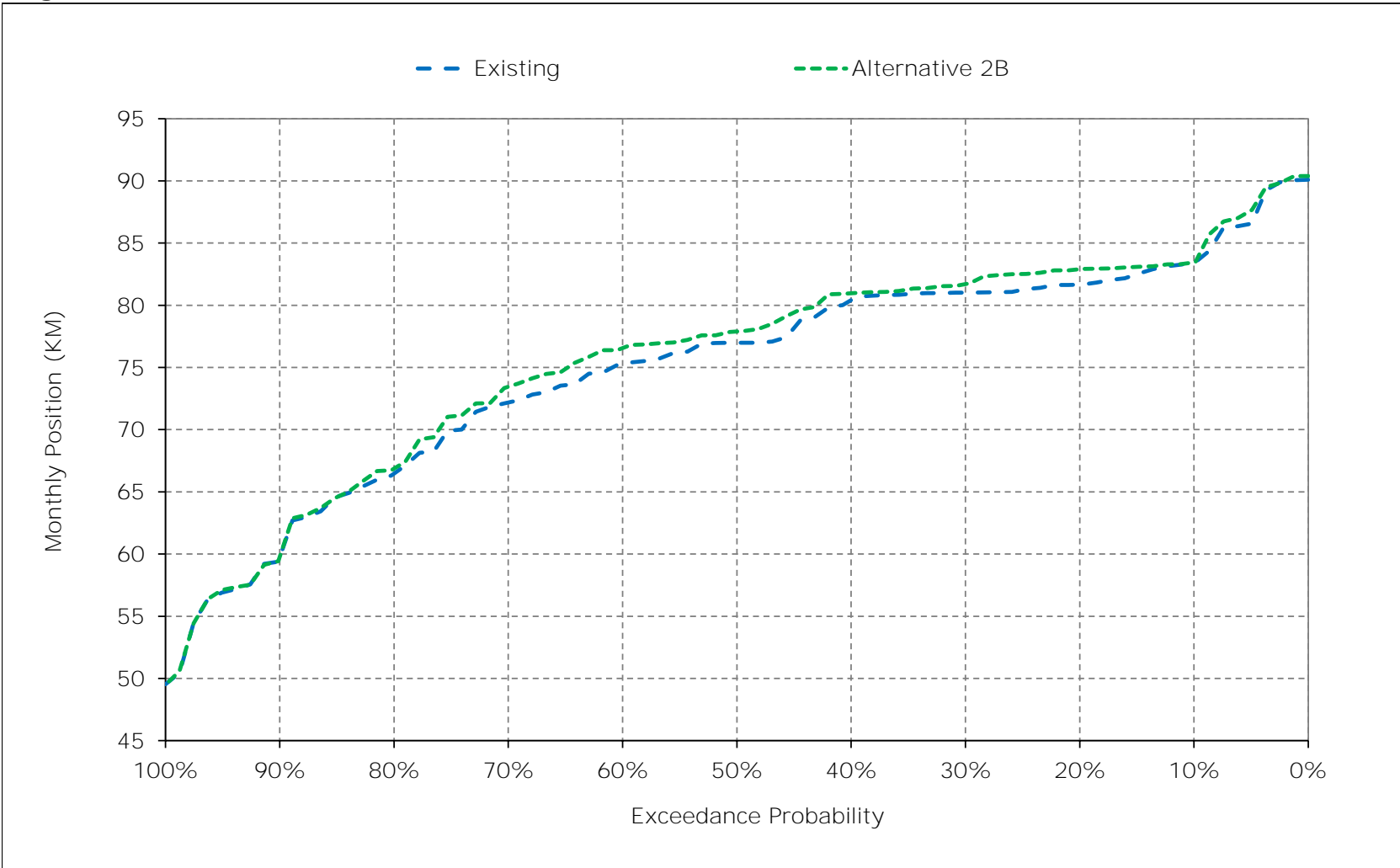


Figure 1-16. X2 Position, July

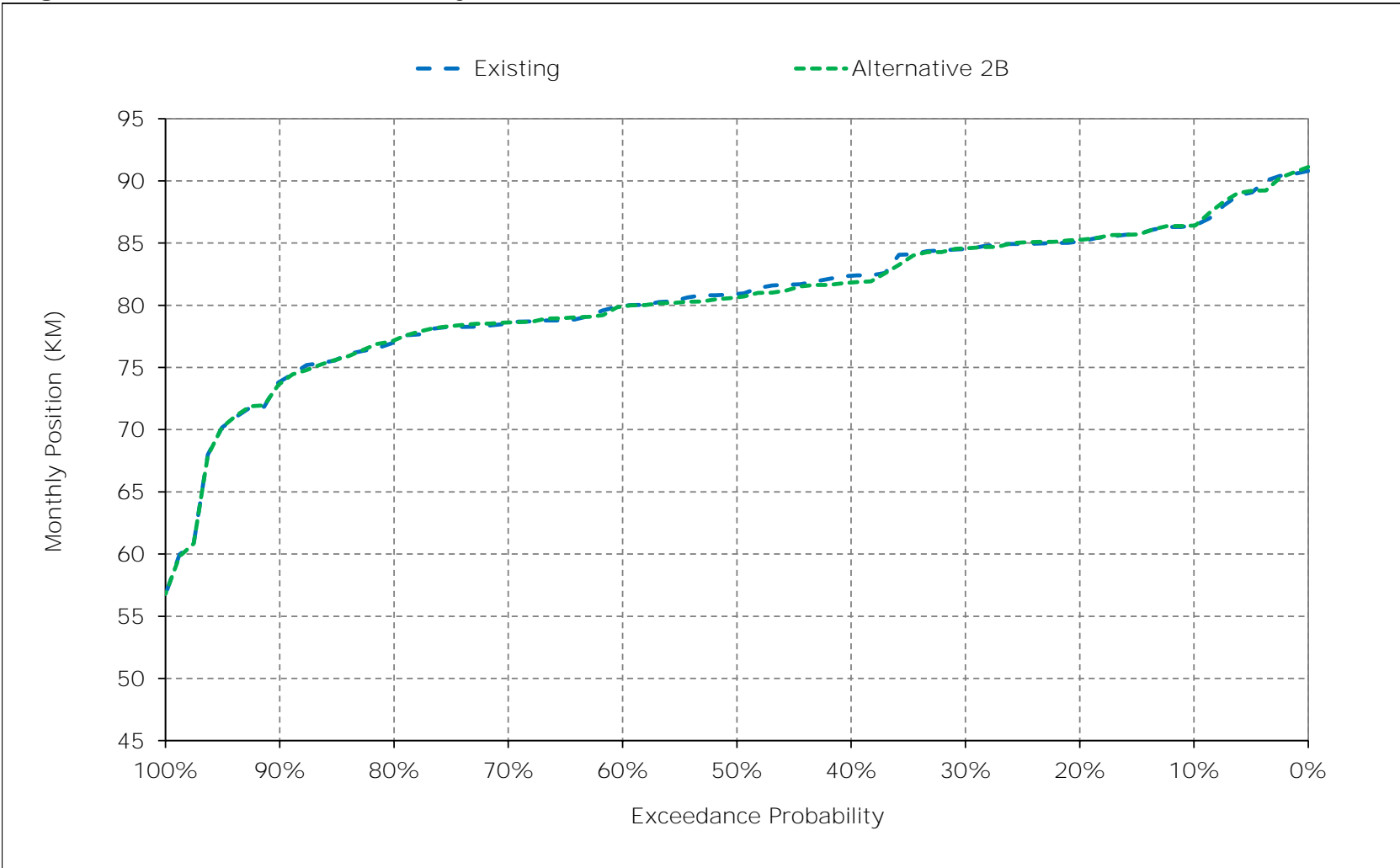


Figure 1-17. X2 Position, August

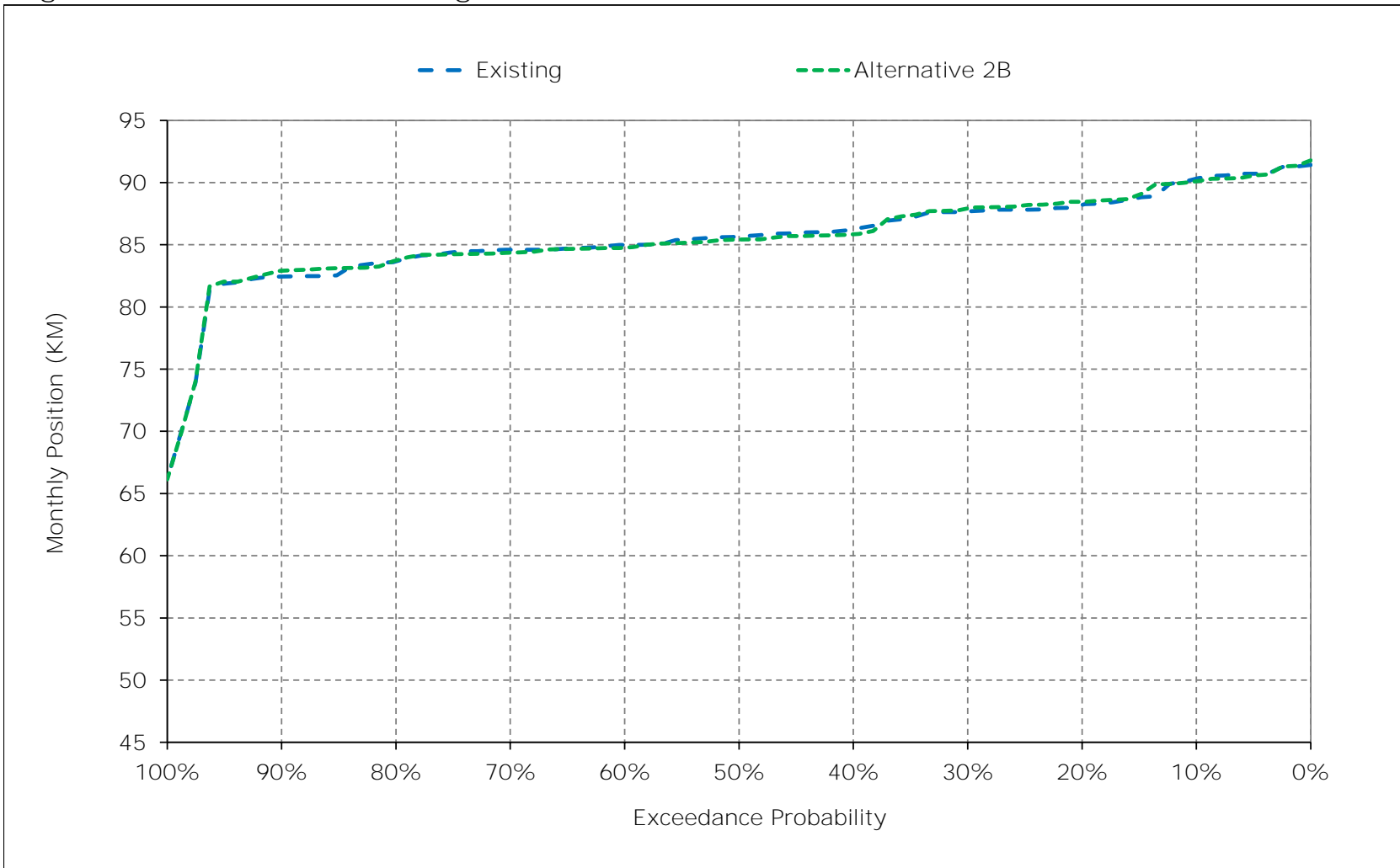
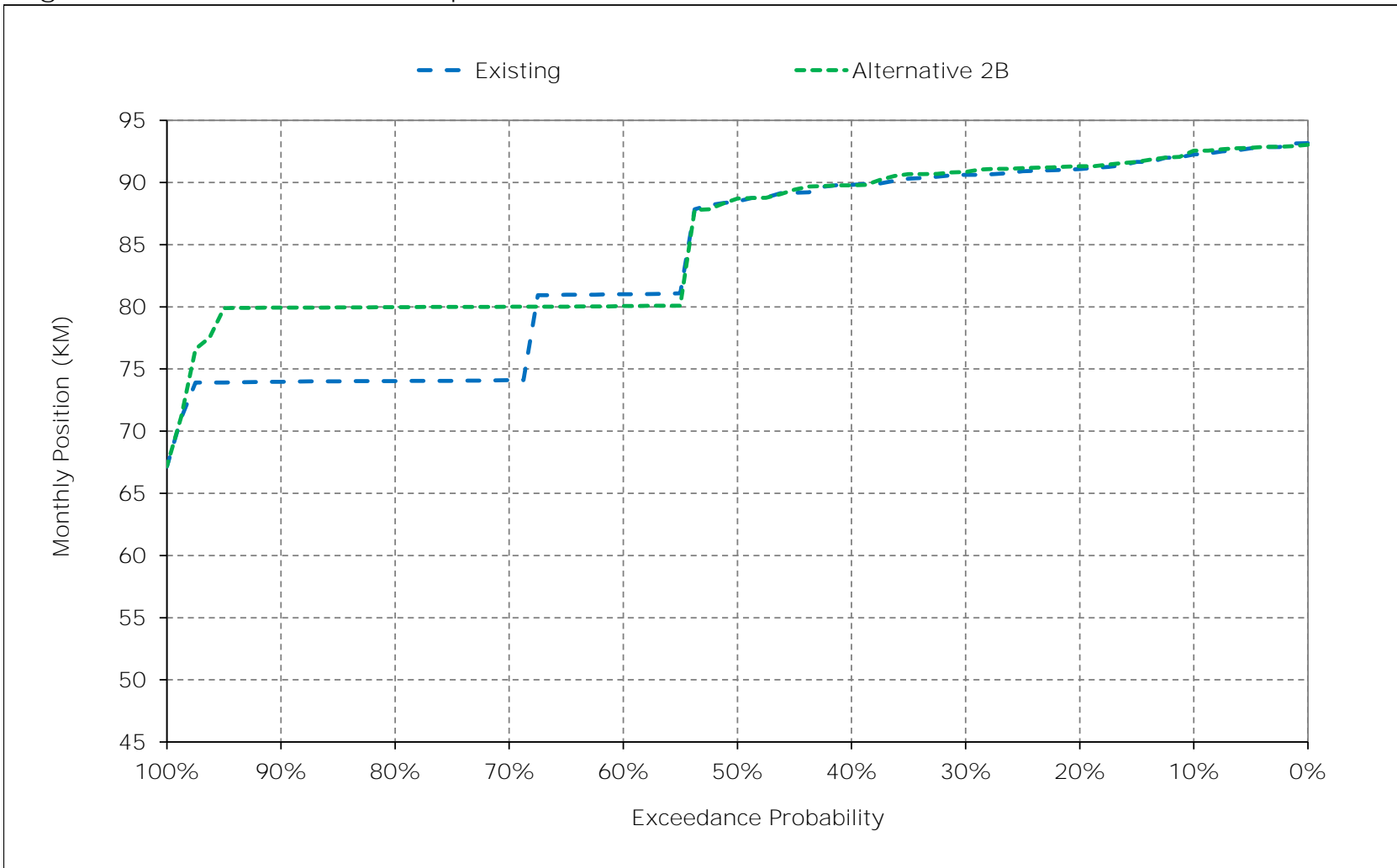


Figure 1-18. X2 Position, September





## Appendix C – Modeling

### Attachment 3-6 – Water Surface Elevation Results (DSM2-HYDRO)

***NOTE: Attachment 3-6 is a new attachment that has been added to the DEIR since initial publication, as part of the FEIR process. The additional attachment is not shown in underline for ease of reading.***

The following results of the DSM2-HYDRO model are included for Delta water surface elevation conditions for the following alternatives:

- Existing Conditions
- Refined Alternative 2b

<b>Title</b>	<b>Model Parameter</b>	<b>Table Numbers</b>	<b>Figure Numbers</b>
Sacramento River at Freeport Water Surface Elevation	RSAC155	1-1 to 1-2	NA
Sacramento River downstream of Steamboat Slough Water Surface Elevation	SAC_DS_STMBTSL	2-1 to 2-2	NA
Sacramento River at Rio Vista Water Surface Elevation	RSAC101	3-1 to 3-2	NA
San Joaquin River at Jersey Point Water Surface Elevation	RSAN018	4-1 to 4-2	NA
San Joaquin River at Prisoners Point Water Surface Elevation	RSAN037	5-1 to 5-2	NA
Old River at Tracy Boulevard Water Surface Elevation	ROLD059	6-1 to 6-2	NA

#### Report formats

- Monthly tables comparing two scenarios (exceedance values, long-term average, and average by water year type)

Table 1-1-1. Sacramento River at Freeport, Monthly Averaged Daily Maximum Elevation

Existing												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	5.6	5.9	7.5	15.0	12.0	10.8	5.7	4.7	5.3	4.6	6.5
20%	3.6	4.8	5.0	6.9	12.0	8.9	6.7	4.3	4.5	5.0	4.5	4.3
30%	3.6	4.0	4.6	6.0	9.0	7.5	6.1	4.3	4.4	4.9	4.3	4.0
40%	3.5	3.7	4.3	5.5	6.0	6.5	6.0	4.2	4.4	4.7	4.1	3.8
50%	3.5	3.7	3.9	5.1	5.0	4.8	5.6	4.0	4.2	4.6	4.0	3.8
60%	3.4	3.6	3.8	4.9	4.7	4.0	4.2	3.8	4.1	4.5	3.9	3.7
70%	3.3	3.4	3.8	4.3	4.5	3.8	3.7	3.8	3.9	4.2	3.9	3.6
80%	3.3	3.3	3.7	4.0	4.4	3.4	3.6	3.6	3.8	4.0	3.8	3.5
90%	3.2	3.3	3.7	3.9	4.2	3.3	3.4	3.4	3.8	3.9	3.7	3.5
Long Term												
Full Simulation Period <sup>a</sup>	3.5	4.1	4.9	5.5	7.7	6.6	6.0	4.6	4.4	4.6	4.1	4.3
Water Year Types <sup>b</sup>												
Wet (32%)	3.5	3.7	4.0	4.5	4.6	4.6	3.6	3.6	4.0	4.2	3.9	3.6
Above Normal (16%)	3.2	4.3	4.4	5.8	14.3	7.3	8.7	5.1	4.4	5.0	4.2	5.6
Below Normal (13%)	3.5	3.6	3.8	4.9	9.5	4.7	5.4	3.7	4.2	4.5	3.7	3.5
Dry (24%)	3.5	3.9	4.4	6.2	7.3	7.3	5.0	4.0	4.2	4.9	4.3	4.4
Critical (15%)	3.5	4.6	6.3	5.6	7.6	7.7	7.7	5.9	5.0	4.6	4.2	4.5

Alternative 2B												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.8	4.8	6.0	7.4	14.9	12.6	10.8	5.7	4.8	5.4	4.6	5.8
20%	3.7	4.0	5.1	6.9	11.5	8.8	6.5	4.3	4.7	5.1	4.5	4.3
30%	3.6	3.8	4.6	5.9	9.1	7.5	6.2	4.2	4.6	5.0	4.3	3.9
40%	3.5	3.7	4.3	5.6	6.3	6.5	6.0	4.2	4.4	4.8	4.0	3.8
50%	3.5	3.6	4.0	5.1	5.1	4.6	5.5	4.1	4.2	4.5	3.9	3.7
60%	3.5	3.5	3.9	4.8	4.8	4.0	4.1	3.8	4.0	4.3	3.9	3.7
70%	3.3	3.4	3.8	4.2	4.6	3.8	3.7	3.8	4.0	4.1	3.8	3.6
80%	3.3	3.3	3.7	4.0	4.4	3.6	3.7	3.6	4.0	4.0	3.8	3.5
90%	3.2	3.3	3.7	3.9	4.3	3.4	3.4	3.4	3.9	3.9	3.7	3.5
Long Term												
Full Simulation Period <sup>a</sup>	3.5	3.9	4.9	5.5	7.7	6.6	6.0	4.6	4.5	4.6	4.1	4.1
Water Year Types <sup>b</sup>												
Wet (32%)	3.5	3.6	4.0	4.5	4.6	4.6	3.6	3.6	4.0	4.3	3.8	3.6
Above Normal (16%)	3.2	4.2	4.4	5.7	14.2	7.2	8.7	5.1	4.5	5.0	4.3	4.8
Below Normal (13%)	3.5	3.5	3.9	4.9	9.5	4.3	5.4	4.2	4.1	4.3	3.7	3.5
Dry (24%)	3.5	3.5	4.4	6.2	7.2	7.6	4.9	4.0	4.3	4.8	4.3	4.4
Critical (15%)	3.5	4.3	6.3	5.6	7.7	7.7	7.8	5.9	5.1	4.6	4.1	4.0

Alternative 2B minus Existing												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.8	0.1	-0.1	-0.1	0.7	0.0	-0.1	0.1	0.0	0.0	-0.7
20%	0.1	-0.8	0.1	0.0	-0.4	-0.1	-0.2	0.0	0.2	0.0	0.0	0.1
30%	0.0	-0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	-0.1	-0.2
40%	0.0	0.0	-0.1	0.1	0.2	0.0	0.0	0.0	0.1	0.1	-0.1	0.0
50%	0.0	0.0	0.1	-0.1	0.1	-0.2	0.0	0.1	0.0	0.0	0.0	-0.1
60%	0.0	-0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Long Term												
Full Simulation Period <sup>a</sup>	0.0	-0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	-0.2
Water Year Types <sup>b</sup>												
Wet (32%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Above Normal (16%)	0.0	-0.1	0.0	-0.1	-0.2	-0.1	0.0	-0.1	0.1	0.0	0.0	-0.9
Below Normal (13%)	0.0	-0.1	0.1	0.0	0.0	-0.4	0.0	0.4	-0.1	-0.2	0.0	0.0
Dry (24%)	-0.1	-0.4	0.0	0.0	0.0	0.3	-0.1	0.0	0.1	-0.1	0.0	0.1
Critical (15%)	0.0	-0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	-0.1	-0.4

a Based on the 16-year simulation period

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

c The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table 1-2-1. Sacramento River at Freeport, Monthly Averaged Daily Minimum Elevation

Existing												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.1	4.7	5.0	6.8	14.6	11.5	10.4	4.7	3.3	4.1	3.2	5.7
20%	1.8	3.7	4.0	6.0	11.5	8.4	5.9	2.9	2.8	3.8	3.0	2.8
30%	1.6	2.3	3.2	5.2	8.5	6.9	5.5	2.7	2.8	3.5	2.8	2.4
40%	1.5	1.9	2.8	4.4	5.2	5.7	5.2	2.7	2.7	3.2	2.3	1.9
50%	1.4	1.7	2.1	4.1	4.0	3.7	4.7	2.3	2.5	3.0	1.7	1.8
60%	1.3	1.3	1.9	3.6	3.7	2.7	2.7	1.9	2.1	2.9	1.7	1.6
70%	1.1	1.2	1.8	2.7	3.3	2.3	2.1	1.8	2.0	2.2	1.6	1.3
80%	1.0	0.9	1.7	2.5	3.1	2.1	1.9	1.5	1.9	1.6	1.6	1.2
90%	0.9	0.9	1.6	2.3	2.8	1.9	1.6	1.2	1.6	1.6	1.4	1.1
Long Term												
Full Simulation Period <sup>a</sup>	1.5	2.3	3.3	4.3	6.8	5.6	4.9	3.0	2.7	2.9	2.2	2.5
Water Year Types <sup>b</sup>												
Wet (32%)	1.4	1.5	2.1	3.0	3.4	3.2	1.9	1.4	2.0	2.0	1.5	1.3
Above Normal (16%)	1.1	2.8	3.1	4.6	13.9	6.5	8.2	3.9	2.7	3.7	2.5	4.4
Below Normal (13%)	1.5	1.7	1.7	3.6	9.0	3.6	4.5	1.9	2.5	3.0	1.4	1.4
Dry (24%)	1.4	1.9	2.9	5.3	6.3	6.3	3.7	2.3	2.5	3.3	2.4	2.7
Critical (15%)	1.7	3.2	4.9	4.5	6.7	6.9	6.9	4.6	3.5	3.1	2.5	2.9
Alternative 2B												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.1	3.5	5.1	6.6	14.5	12.2	10.4	4.7	3.4	4.2	3.2	4.9
20%	2.1	2.5	4.0	6.0	11.0	8.3	5.7	2.9	3.3	3.9	3.1	2.9
30%	1.6	2.2	3.1	5.1	8.6	6.8	5.5	2.8	3.0	3.5	2.8	2.1
40%	1.5	1.8	2.7	4.6	5.4	5.8	5.2	2.7	2.8	3.3	1.9	1.8
50%	1.4	1.4	2.3	4.0	4.1	3.4	4.7	2.6	2.5	3.0	1.8	1.8
60%	1.3	1.3	2.0	3.5	3.8	2.6	2.7	2.0	2.3	2.8	1.6	1.6
70%	1.1	1.2	1.8	2.6	3.4	2.4	2.1	1.7	2.2	1.9	1.5	1.4
80%	1.0	0.9	1.7	2.4	3.1	2.3	2.0	1.6	2.0	1.7	1.4	1.2
90%	0.9	0.9	1.6	2.3	2.8	1.9	1.6	1.2	1.7	1.6	1.3	1.1
Long Term												
Full Simulation Period <sup>a</sup>	1.5	2.0	3.3	4.3	6.8	5.6	4.9	3.0	2.8	2.9	2.1	2.3
Water Year Types <sup>b</sup>												
Wet (32%)	1.4	1.5	2.2	3.0	3.4	3.3	1.9	1.4	2.1	2.1	1.5	1.3
Above Normal (16%)	1.1	2.7	3.2	4.5	13.7	6.4	8.2	3.9	2.9	3.7	2.5	3.4
Below Normal (13%)	1.5	1.4	1.9	3.5	9.0	3.0	4.5	2.7	2.4	2.8	1.4	1.5
Dry (24%)	1.3	1.4	2.8	5.3	6.3	6.6	3.7	2.3	2.7	3.1	2.4	2.7
Critical (15%)	1.7	2.7	4.9	4.5	6.9	6.9	7.0	4.6	3.6	3.1	2.4	2.4
Alternative 2B minus Existing												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-1.2	0.1	-0.2	-0.1	0.7	0.0	-0.1	0.1	0.0	0.0	-0.8
20%	0.3	-1.2	0.0	0.0	-0.4	-0.1	-0.2	0.0	0.5	0.1	0.1	0.1
30%	0.0	-0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	-0.1	-0.4
40%	0.0	-0.1	-0.1	0.2	0.2	0.1	0.0	0.1	0.1	0.1	-0.5	-0.1
50%	0.0	-0.3	0.2	-0.1	0.2	-0.3	0.0	0.3	0.0	-0.1	0.1	0.0
60%	0.0	0.0	0.1	0.0	0.1	0.0	-0.1	0.0	0.2	-0.2	0.0	0.0
70%	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.2	-0.3	-0.1	0.0
80%	0.0	0.0	0.0	-0.1	0.0	0.3	0.1	0.1	0.1	0.1	-0.2	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	-0.1	0.0
Long Term												
Full Simulation Period <sup>a</sup>	0.0	-0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	-0.3
Water Year Types <sup>b</sup>												
Wet (32%)	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	-0.1	0.0
Above Normal (16%)	0.0	-0.1	0.1	-0.1	-0.2	-0.1	0.0	-0.1	0.2	0.0	0.1	-1.0
Below Normal (13%)	0.0	-0.3	0.2	0.0	0.0	-0.6	0.0	0.8	-0.1	-0.3	0.0	0.0
Dry (24%)	-0.1	-0.5	0.0	0.0	-0.1	0.3	-0.1	0.0	0.2	-0.3	0.0	0.1
Critical (15%)	0.0	-0.5	0.0	0.0	0.2	0.0	0.1	0.0	0.2	0.0	-0.1	-0.6

a Based on the 16-year simulation period

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

c The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table 2-1-1. Sacramento River d/s of Steamboat Slough, Monthly Averaged Daily Maximum Elevation

Existing												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	4.1	4.2	4.9	9.1	7.1	6.4	4.1	3.9	4.1	3.9	4.3
20%	3.2	3.6	3.8	4.6	7.1	5.5	4.3	3.8	3.8	4.1	3.8	3.7
30%	3.2	3.4	3.8	4.2	5.6	4.7	4.1	3.7	3.8	4.0	3.7	3.6
40%	3.2	3.4	3.7	4.1	4.2	4.3	4.0	3.6	3.7	4.0	3.6	3.5
50%	3.2	3.3	3.5	4.0	3.9	3.7	3.9	3.5	3.7	3.9	3.6	3.4
60%	3.1	3.2	3.5	3.8	3.8	3.4	3.5	3.4	3.7	3.9	3.5	3.3
70%	3.0	3.1	3.4	3.7	3.7	3.3	3.3	3.4	3.5	3.7	3.5	3.3
80%	2.9	3.0	3.3	3.6	3.6	3.0	3.2	3.2	3.5	3.6	3.5	3.2
90%	2.9	2.9	3.3	3.5	3.6	3.0	3.1	3.1	3.5	3.6	3.3	3.1
Long Term												
Full Simulation Period <sup>a</sup>	3.1	3.4	3.9	4.1	5.2	4.5	4.2	3.7	3.8	3.9	3.6	3.5
Water Year Types <sup>b</sup>												
Wet (32%)	3.1	3.2	3.5	3.8	3.7	3.6	3.2	3.2	3.6	3.7	3.5	3.3
Above Normal (16%)	2.9	3.4	3.5	4.1	8.6	4.7	5.3	3.9	3.7	4.0	3.6	4.1
Below Normal (13%)	3.1	3.2	3.5	4.0	5.8	3.7	4.0	3.3	3.7	3.8	3.3	3.1
Dry (24%)	3.1	3.3	3.7	4.3	5.1	4.9	3.7	3.6	3.7	4.0	3.7	3.6
Critical (15%)	3.2	3.6	4.5	4.1	5.2	5.1	5.0	4.3	4.0	3.9	3.6	3.6
Alternative 2B												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.8	4.3	4.8	9.0	7.5	6.4	4.1	4.0	4.1	3.9	3.9
20%	3.2	3.4	3.8	4.6	6.9	5.4	4.2	3.8	4.0	4.1	3.8	3.7
30%	3.2	3.3	3.8	4.2	5.6	4.7	4.1	3.7	3.8	4.0	3.7	3.5
40%	3.2	3.3	3.7	4.1	4.3	4.3	4.0	3.6	3.8	3.9	3.6	3.4
50%	3.1	3.2	3.6	4.0	3.9	3.6	3.9	3.6	3.7	3.9	3.6	3.3
60%	3.1	3.1	3.5	3.8	3.8	3.4	3.5	3.5	3.6	3.8	3.5	3.3
70%	3.0	3.1	3.4	3.7	3.7	3.3	3.3	3.4	3.6	3.7	3.5	3.3
80%	2.9	3.0	3.3	3.6	3.6	3.1	3.3	3.3	3.5	3.7	3.4	3.1
90%	2.9	2.9	3.3	3.5	3.6	3.0	3.1	3.1	3.5	3.6	3.3	3.1
Long Term												
Full Simulation Period <sup>a</sup>	3.1	3.3	3.9	4.1	5.2	4.6	4.2	3.7	3.8	3.9	3.6	3.4
Water Year Types <sup>b</sup>												
Wet (32%)	3.2	3.2	3.5	3.8	3.7	3.6	3.2	3.2	3.6	3.8	3.5	3.3
Above Normal (16%)	2.9	3.4	3.5	4.1	8.5	4.6	5.3	3.8	3.8	4.0	3.7	3.6
Below Normal (13%)	3.1	3.1	3.5	4.0	5.8	3.6	4.0	3.5	3.6	3.7	3.3	3.1
Dry (24%)	3.1	3.1	3.7	4.3	5.0	5.1	3.7	3.6	3.8	3.9	3.7	3.6
Critical (15%)	3.2	3.5	4.6	4.1	5.2	5.1	5.0	4.3	4.0	3.9	3.6	3.4
Alternative 2B minus Existing												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.3	0.0	0.0	-0.1	0.4	0.0	0.0	0.0	0.0	0.0	-0.4
20%	0.0	-0.2	0.0	0.0	-0.2	0.0	-0.1	0.0	0.1	0.0	0.0	0.0
30%	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	-0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1
50%	0.0	0.0	0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
60%	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Long Term												
Full Simulation Period <sup>a</sup>	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
Water Year Types <sup>b</sup>												
Wet (32%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal (16%)	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.1	0.0	0.0	-0.4
Below Normal (13%)	0.0	-0.1	0.1	0.0	0.0	-0.1	0.0	0.2	0.0	-0.1	0.0	0.0
Dry (24%)	0.0	-0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	-0.1	0.0	0.0
Critical (15%)	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2

a Based on the 16-year simulation period

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

c The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table 2-2-1. Sacramento River d/s of Steamboat Slough, Monthly Averaged Daily Minimum Elevation

Existing												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	2.0	2.2	3.2	8.4	6.2	5.4	2.0	1.1	1.4	1.0	2.4
20%	0.5	1.4	1.6	2.8	6.2	4.3	2.7	1.1	0.9	1.2	1.0	0.9
30%	0.4	0.7	1.2	2.3	4.3	3.3	2.4	1.1	0.8	1.2	0.9	0.8
40%	0.3	0.5	1.0	1.9	2.3	2.7	2.3	1.0	0.8	1.0	0.7	0.6
50%	0.3	0.4	0.6	1.7	1.7	1.6	2.1	0.8	0.7	0.9	0.5	0.5
60%	0.3	0.3	0.5	1.5	1.5	0.9	1.0	0.6	0.5	0.9	0.5	0.5
70%	0.1	0.1	0.5	1.0	1.4	0.8	0.7	0.5	0.5	0.6	0.4	0.3
80%	0.1	0.0	0.4	0.9	1.2	0.6	0.5	0.3	0.5	0.4	0.4	0.3
90%	0.0	-0.1	0.3	0.8	1.1	0.5	0.4	0.2	0.3	0.4	0.3	0.2
Long Term												
Full Simulation Period <sup>a</sup>	0.3	0.7	1.3	1.9	3.5	2.7	2.2	1.2	0.8	0.9	0.6	0.9
Water Year Types <sup>b</sup>												
Wet (32%)	0.3	0.3	0.6	1.2	1.3	1.3	0.6	0.3	0.5	0.5	0.4	0.3
Above Normal (16%)	0.1	1.0	1.1	2.0	7.8	3.1	4.1	1.7	0.9	1.2	0.7	1.9
Below Normal (13%)	0.4	0.4	0.5	1.5	4.6	1.6	2.0	0.6	0.7	0.9	0.3	0.3
Dry (24%)	0.3	0.5	1.0	2.3	3.2	3.1	1.5	0.8	0.7	1.0	0.8	0.9
Critical (15%)	0.4	1.2	2.3	2.0	3.4	3.5	3.4	2.1	1.3	1.0	0.8	1.1
Alternative 2B												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.6	1.4	2.3	3.1	8.3	6.6	5.4	2.0	1.1	1.4	1.0	1.8
20%	0.6	0.7	1.6	2.8	5.9	4.2	2.6	1.1	1.0	1.3	1.0	1.0
30%	0.4	0.6	1.2	2.3	4.4	3.3	2.5	1.1	0.9	1.2	0.9	0.7
40%	0.4	0.5	0.9	2.0	2.5	2.7	2.2	1.0	0.8	1.0	0.6	0.5
50%	0.3	0.3	0.7	1.6	1.7	1.5	2.0	1.0	0.7	1.0	0.5	0.5
60%	0.3	0.3	0.6	1.5	1.5	0.9	1.0	0.6	0.6	0.8	0.4	0.5
70%	0.1	0.1	0.5	1.0	1.4	0.8	0.7	0.5	0.6	0.5	0.4	0.3
80%	0.1	0.0	0.4	0.9	1.2	0.8	0.6	0.4	0.4	0.4	0.3	0.3
90%	0.0	-0.1	0.3	0.8	1.1	0.5	0.4	0.3	0.4	0.4	0.3	0.2
Long Term												
Full Simulation Period <sup>a</sup>	0.3	0.6	1.3	1.8	3.5	2.7	2.2	1.2	0.9	0.9	0.6	0.7
Water Year Types <sup>b</sup>												
Wet (32%)	0.3	0.3	0.7	1.2	1.3	1.3	0.6	0.3	0.5	0.6	0.4	0.3
Above Normal (16%)	0.1	0.9	1.1	1.9	7.7	3.1	4.0	1.6	0.9	1.2	0.8	1.1
Below Normal (13%)	0.4	0.3	0.6	1.5	4.6	1.3	2.0	1.0	0.6	0.8	0.3	0.3
Dry (24%)	0.2	0.2	1.0	2.4	3.1	3.3	1.5	0.8	0.8	0.9	0.8	0.9
Critical (15%)	0.4	0.9	2.3	2.0	3.5	3.5	3.5	2.1	1.4	1.0	0.7	0.8
Alternative 2B minus Existing												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.0	-0.6	0.1	-0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	-0.6
20%	0.1	-0.7	0.0	0.0	-0.3	-0.1	-0.1	0.0	0.2	0.0	0.0	0.0
30%	0.0	-0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	-0.1
40%	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	-0.2	-0.1
50%	0.0	-0.1	0.1	0.0	0.1	-0.2	0.0	0.1	0.0	0.0	0.0	0.0
60%	0.0	0.0	0.1	-0.1	0.0	0.0	0.0	0.0	0.1	-0.1	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	-0.1	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Long Term												
Full Simulation Period <sup>a</sup>	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	-0.2
Water Year Types <sup>b</sup>												
Wet (32%)	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal (16%)	0.0	-0.1	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.1	0.0	0.0	-0.8
Below Normal (13%)	0.0	-0.1	0.1	0.0	0.0	-0.3	0.0	0.4	-0.1	-0.1	0.0	0.0
Dry (24%)	0.0	-0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.1	-0.1	0.0	0.0
Critical (15%)	0.0	-0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	-0.4

a Based on the 16-year simulation period

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

c The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table 3-1-1. Sacramento River at Rio Vista, Monthly Averaged Daily Maximum Elevation

Existing												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.4	3.5	3.6	4.0	3.5	3.4	3.5	3.6	3.7	3.6	3.5
20%	3.2	3.3	3.4	3.5	3.7	3.4	3.3	3.4	3.6	3.7	3.6	3.4
30%	3.2	3.3	3.4	3.5	3.6	3.3	3.2	3.4	3.6	3.7	3.6	3.4
40%	3.1	3.2	3.4	3.5	3.5	3.2	3.1	3.3	3.6	3.7	3.5	3.3
50%	3.1	3.2	3.4	3.4	3.4	3.1	3.1	3.3	3.5	3.7	3.5	3.3
60%	3.1	3.2	3.3	3.4	3.4	3.0	3.1	3.3	3.5	3.6	3.5	3.3
70%	3.1	3.1	3.3	3.3	3.3	3.0	3.0	3.2	3.5	3.6	3.5	3.3
80%	3.0	3.1	3.2	3.3	3.1	2.9	3.0	3.1	3.5	3.6	3.5	3.3
90%	3.0	3.0	3.1	3.2	3.1	2.7	2.9	3.0	3.4	3.5	3.4	3.2
Long Term												
Full Simulation Period <sup>a</sup>	3.1	3.2	3.4	3.4	3.5	3.1	3.1	3.3	3.5	3.6	3.5	3.3
Water Year Types <sup>b</sup>												
Wet (32%)	3.2	3.2	3.3	3.4	3.2	3.0	3.0	3.2	3.5	3.7	3.5	3.4
Above Normal (16%)	3.0	3.1	3.1	3.2	3.8	3.1	3.2	3.3	3.5	3.6	3.5	3.4
Below Normal (13%)	3.2	3.2	3.5	3.5	3.7	3.2	3.3	3.1	3.5	3.5	3.5	3.1
Dry (24%)	3.1	3.2	3.4	3.4	3.5	3.2	3.1	3.4	3.5	3.7	3.6	3.4
Critical (15%)	3.1	3.2	3.4	3.4	3.4	3.2	3.2	3.4	3.5	3.6	3.4	3.3

Alternative 2B												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.3	3.4	3.5	3.6	4.0	3.5	3.4	3.5	3.6	3.7	3.6	3.5
20%	3.2	3.3	3.4	3.5	3.7	3.4	3.3	3.4	3.6	3.7	3.6	3.4
30%	3.2	3.3	3.4	3.5	3.6	3.3	3.2	3.4	3.6	3.7	3.6	3.4
40%	3.1	3.2	3.4	3.5	3.5	3.2	3.1	3.3	3.6	3.7	3.5	3.3
50%	3.1	3.2	3.4	3.4	3.4	3.1	3.1	3.3	3.5	3.7	3.5	3.3
60%	3.1	3.1	3.3	3.4	3.4	3.0	3.1	3.2	3.5	3.6	3.5	3.3
70%	3.1	3.1	3.3	3.3	3.3	3.0	3.0	3.2	3.5	3.6	3.5	3.3
80%	3.0	3.1	3.3	3.3	3.1	2.9	3.0	3.2	3.5	3.6	3.4	3.3
90%	3.0	3.0	3.1	3.2	3.1	2.7	3.0	3.0	3.4	3.5	3.4	3.2
Long Term												
Full Simulation Period <sup>a</sup>	3.1	3.2	3.4	3.4	3.5	3.1	3.1	3.3	3.5	3.6	3.5	3.3
Water Year Types <sup>b</sup>												
Wet (32%)	3.2	3.2	3.3	3.4	3.2	3.0	3.0	3.2	3.5	3.7	3.5	3.4
Above Normal (16%)	3.0	3.1	3.1	3.2	3.8	3.1	3.2	3.3	3.5	3.6	3.5	3.3
Below Normal (13%)	3.2	3.2	3.5	3.5	3.7	3.2	3.3	3.2	3.5	3.5	3.4	3.1
Dry (24%)	3.1	3.1	3.4	3.4	3.5	3.2	3.1	3.4	3.5	3.7	3.6	3.4
Critical (15%)	3.1	3.2	3.4	3.4	3.4	3.2	3.2	3.4	3.5	3.6	3.4	3.2

Alternative 2B minus Existing												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0
Long Term												
Full Simulation Period <sup>a</sup>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types <sup>b</sup>												
Wet (32%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal (16%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
Below Normal (13%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry (24%)	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0

a Based on the 16-year simulation period

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

c The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table 3-2-1. Sacramento River at Rio Vista, Monthly Averaged Daily Minimum Elevation

Existing												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.8	-0.9	-0.9	-0.8	0.3	-0.4	-0.5	-0.8	-0.9	-0.8	-0.7	-0.6
20%	-0.8	-0.9	-1.0	-0.9	-0.2	-0.6	-0.7	-0.9	-0.9	-0.8	-0.7	-0.6
30%	-0.9	-1.0	-1.1	-0.9	-0.4	-0.7	-0.8	-0.9	-1.0	-0.9	-0.8	-0.7
40%	-0.9	-1.1	-1.1	-1.0	-0.8	-0.8	-0.9	-1.1	-1.0	-0.9	-0.8	-0.8
50%	-1.0	-1.1	-1.2	-1.0	-0.8	-0.8	-1.0	-1.1	-1.0	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.2	-1.1	-0.9	-0.9	-1.0	-1.1	-1.0	-0.9	-0.8	-0.8
70%	-1.1	-1.3	-1.2	-1.1	-0.9	-1.1	-1.1	-1.1	-1.0	-0.9	-0.9	-0.8
80%	-1.1	-1.3	-1.2	-1.1	-0.9	-1.2	-1.1	-1.2	-1.1	-1.0	-0.9	-0.8
90%	-1.1	-1.3	-1.3	-1.2	-1.1	-1.2	-1.2	-1.2	-1.1	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period <sup>a</sup>	-1.0	-1.1	-1.1	-1.0	-0.6	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.8
Water Year Types <sup>b</sup>												
Wet (32%)	-1.0	-1.2	-1.2	-1.1	-1.0	-1.1	-1.1	-1.2	-1.1	-0.9	-0.9	-0.8
Above Normal (16%)	-1.1	-1.1	-1.3	-1.1	0.2	-0.8	-0.7	-1.0	-0.9	-0.9	-0.8	-0.7
Below Normal (13%)	-0.8	-1.1	-1.0	-0.9	-0.3	-0.7	-0.7	-1.2	-1.0	-1.0	-0.9	-1.0
Dry (24%)	-1.0	-1.2	-1.1	-1.1	-0.7	-0.8	-1.0	-1.0	-1.0	-0.9	-0.8	-0.7
Critical (15%)	-0.9	-1.0	-0.9	-1.0	-0.5	-0.5	-0.7	-0.9	-0.9	-0.8	-0.8	-0.7

Alternative 2B												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.8	-0.9	-0.9	-0.8	0.3	-0.3	-0.6	-0.8	-0.9	-0.8	-0.7	-0.6
20%	-0.8	-1.0	-1.0	-0.9	-0.2	-0.6	-0.7	-0.9	-0.9	-0.8	-0.7	-0.7
30%	-0.9	-1.0	-1.1	-0.9	-0.4	-0.7	-0.8	-0.9	-1.0	-0.9	-0.8	-0.7
40%	-0.9	-1.1	-1.1	-1.0	-0.8	-0.8	-0.9	-1.1	-1.0	-0.9	-0.8	-0.8
50%	-1.0	-1.1	-1.2	-1.1	-0.9	-0.8	-1.0	-1.1	-1.0	-0.9	-0.8	-0.8
60%	-1.0	-1.2	-1.2	-1.1	-0.9	-0.9	-1.0	-1.1	-1.0	-0.9	-0.8	-0.8
70%	-1.1	-1.3	-1.2	-1.1	-0.9	-1.1	-1.1	-1.1	-1.0	-0.9	-0.8	-0.8
80%	-1.1	-1.3	-1.2	-1.1	-0.9	-1.2	-1.1	-1.2	-1.0	-1.0	-0.9	-0.8
90%	-1.1	-1.3	-1.3	-1.2	-1.1	-1.2	-1.2	-1.2	-1.1	-1.0	-0.9	-0.9
Long Term												
Full Simulation Period <sup>a</sup>	-1.0	-1.1	-1.1	-1.0	-0.6	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8	-0.8
Water Year Types <sup>b</sup>												
Wet (32%)	-1.0	-1.2	-1.2	-1.1	-1.0	-1.1	-1.1	-1.2	-1.1	-0.9	-0.9	-0.8
Above Normal (16%)	-1.1	-1.1	-1.3	-1.1	0.2	-0.8	-0.8	-1.0	-0.9	-0.9	-0.8	-0.8
Below Normal (13%)	-0.8	-1.1	-1.0	-0.9	-0.3	-0.7	-0.7	-1.1	-1.0	-1.0	-0.9	-1.0
Dry (24%)	-1.0	-1.2	-1.1	-1.1	-0.7	-0.7	-1.0	-1.0	-1.0	-0.9	-0.8	-0.7
Critical (15%)	-0.9	-1.0	-0.9	-1.0	-0.5	-0.5	-0.7	-0.9	-0.9	-0.8	-0.8	-0.8

Alternative 2B minus Existing												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	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	0.1	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
30%	0.0	0.0	0.0	0.0	0.0	0.0	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	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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0
Long Term												
Full Simulation Period <sup>a</sup>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types <sup>b</sup>												
Wet (32%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal (16%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal (13%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry (24%)	0.0	0.0	0.0	0.0	0.0	0.1	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	0.0	0.0	0.0	0.0	0.0	0.0

a Based on the 16-year simulation period

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

c The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)



Table 4-1-1. San Joaquin River at Jersey Point, Monthly Averaged Daily Maximum Elevation

Existing												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.0	3.0	3.1	3.2	3.5	3.0	2.9	3.2	3.3	3.4	3.3	3.2
20%	2.9	2.9	3.1	3.1	3.2	3.0	2.8	3.1	3.3	3.4	3.3	3.1
30%	2.9	2.9	3.0	3.1	3.2	2.9	2.8	3.1	3.3	3.4	3.2	3.0
40%	2.8	2.9	3.0	3.0	3.1	2.8	2.8	3.0	3.2	3.3	3.2	3.0
50%	2.8	2.8	3.0	3.0	3.0	2.7	2.8	3.0	3.2	3.3	3.2	3.0
60%	2.8	2.8	3.0	3.0	3.0	2.7	2.7	2.8	3.1	3.3	3.2	3.0
70%	2.8	2.8	2.9	2.9	2.9	2.6	2.7	2.8	3.1	3.3	3.1	2.9
80%	2.7	2.8	2.9	2.9	2.8	2.6	2.7	2.8	3.1	3.2	3.1	2.9
90%	2.7	2.7	2.8	2.8	2.7	2.4	2.6	2.7	3.1	3.1	3.0	2.9
Long Term												
Full Simulation Period <sup>a</sup>	2.8	2.8	3.0	3.0	3.0	2.7	2.8	2.9	3.2	3.3	3.2	3.0
Water Year Types <sup>b</sup>												
Wet (32%)	2.9	2.9	3.0	3.1	2.9	2.7	2.7	2.9	3.2	3.4	3.2	3.1
Above Normal (16%)	2.6	2.7	2.7	2.8	3.3	2.7	2.8	2.9	3.2	3.2	3.2	3.0
Below Normal (13%)	2.9	2.8	3.1	3.1	3.2	2.8	2.9	2.8	3.1	3.1	3.1	2.8
Dry (24%)	2.8	2.8	3.0	3.0	3.1	2.8	2.7	3.0	3.2	3.3	3.3	3.1
Critical (15%)	2.8	2.9	3.0	3.0	3.0	2.8	2.8	3.0	3.2	3.3	3.1	2.9

Alternative 2B												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.0	3.0	3.1	3.2	3.5	3.1	2.9	3.2	3.3	3.4	3.3	3.2
20%	2.9	2.9	3.1	3.1	3.2	3.0	2.8	3.1	3.3	3.4	3.3	3.1
30%	2.9	2.9	3.0	3.1	3.1	2.9	2.8	3.1	3.3	3.4	3.2	3.0
40%	2.8	2.9	3.0	3.0	3.1	2.8	2.8	3.0	3.2	3.3	3.2	3.0
50%	2.8	2.8	3.0	3.0	3.0	2.7	2.7	3.0	3.2	3.3	3.2	3.0
60%	2.8	2.8	3.0	3.0	3.0	2.7	2.7	2.8	3.2	3.3	3.2	3.0
70%	2.8	2.8	2.9	2.9	2.9	2.6	2.7	2.8	3.1	3.3	3.1	2.9
80%	2.7	2.8	2.9	2.9	2.7	2.6	2.7	2.8	3.1	3.2	3.1	2.9
90%	2.7	2.6	2.8	2.8	2.7	2.4	2.6	2.7	3.1	3.1	3.0	2.8
Long Term												
Full Simulation Period <sup>a</sup>	2.8	2.8	3.0	3.0	3.0	2.7	2.8	2.9	3.2	3.3	3.2	3.0
Water Year Types <sup>b</sup>												
Wet (32%)	2.9	2.9	3.0	3.1	2.8	2.7	2.7	2.9	3.2	3.4	3.2	3.1
Above Normal (16%)	2.6	2.7	2.7	2.8	3.3	2.7	2.7	2.9	3.2	3.2	3.1	3.0
Below Normal (13%)	2.9	2.8	3.1	3.1	3.2	2.8	2.9	2.8	3.1	3.1	3.1	2.8
Dry (24%)	2.8	2.8	3.0	3.0	3.1	2.8	2.7	3.0	3.2	3.3	3.3	3.1
Critical (15%)	2.8	2.9	3.0	3.0	3.0	2.8	2.8	3.0	3.2	3.3	3.1	2.9

Alternative 2B minus Existing												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0
Long Term												
Full Simulation Period <sup>a</sup>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types <sup>b</sup>												
Wet (32%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal (16%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal (13%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry (24%)	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0

a Based on the 16-year simulation period

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

c The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table 4-2-1. San Joaquin River at Jersey Point, Monthly Averaged Daily Minimum Elevation

Existing												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.6	-0.6	-0.5	0.2	-0.2	-0.3	-0.5	-0.5	-0.4	-0.3	-0.3
20%	-0.5	-0.6	-0.7	-0.6	-0.1	-0.3	-0.4	-0.5	-0.5	-0.5	-0.4	-0.3
30%	-0.5	-0.7	-0.7	-0.6	-0.2	-0.4	-0.5	-0.5	-0.6	-0.5	-0.4	-0.4
40%	-0.6	-0.7	-0.7	-0.7	-0.5	-0.5	-0.5	-0.7	-0.6	-0.5	-0.4	-0.4
50%	-0.6	-0.8	-0.8	-0.7	-0.5	-0.6	-0.7	-0.7	-0.6	-0.5	-0.5	-0.4
60%	-0.6	-0.8	-0.8	-0.7	-0.6	-0.7	-0.7	-0.7	-0.6	-0.6	-0.5	-0.4
70%	-0.7	-0.9	-0.9	-0.7	-0.6	-0.8	-0.7	-0.8	-0.7	-0.6	-0.5	-0.5
80%	-0.7	-0.9	-0.9	-0.8	-0.6	-0.8	-0.8	-0.8	-0.7	-0.6	-0.5	-0.5
90%	-0.7	-0.9	-0.9	-0.8	-0.7	-0.8	-0.8	-0.9	-0.7	-0.6	-0.5	-0.5
Long Term												
Full Simulation Period <sup>a</sup>	-0.6	-0.8	-0.7	-0.7	-0.4	-0.5	-0.6	-0.7	-0.6	-0.5	-0.4	-0.4
Water Year Types <sup>b</sup>												
Wet (32%)	-0.6	-0.8	-0.8	-0.7	-0.7	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5	-0.4
Above Normal (16%)	-0.7	-0.8	-0.9	-0.8	0.0	-0.6	-0.5	-0.6	-0.5	-0.6	-0.5	-0.4
Below Normal (13%)	-0.4	-0.7	-0.6	-0.5	-0.1	-0.3	-0.3	-0.8	-0.7	-0.6	-0.5	-0.6
Dry (24%)	-0.7	-0.8	-0.8	-0.7	-0.4	-0.5	-0.7	-0.6	-0.6	-0.6	-0.4	-0.4
Critical (15%)	-0.5	-0.7	-0.6	-0.6	-0.3	-0.3	-0.4	-0.5	-0.5	-0.5	-0.4	-0.4

Alternative 2B												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.5	-0.6	-0.6	-0.5	0.2	-0.2	-0.3	-0.5	-0.5	-0.4	-0.3	-0.3
20%	-0.5	-0.6	-0.6	-0.6	-0.1	-0.3	-0.4	-0.5	-0.5	-0.5	-0.4	-0.4
30%	-0.5	-0.7	-0.7	-0.6	-0.2	-0.4	-0.5	-0.5	-0.6	-0.5	-0.4	-0.4
40%	-0.6	-0.7	-0.7	-0.7	-0.5	-0.5	-0.6	-0.7	-0.6	-0.5	-0.4	-0.4
50%	-0.6	-0.8	-0.8	-0.7	-0.5	-0.6	-0.7	-0.7	-0.6	-0.5	-0.4	-0.4
60%	-0.6	-0.8	-0.8	-0.7	-0.6	-0.7	-0.7	-0.7	-0.6	-0.5	-0.5	-0.4
70%	-0.7	-0.9	-0.9	-0.7	-0.6	-0.8	-0.7	-0.8	-0.7	-0.6	-0.5	-0.5
80%	-0.7	-0.9	-0.9	-0.8	-0.6	-0.8	-0.8	-0.8	-0.7	-0.6	-0.5	-0.5
90%	-0.7	-1.0	-0.9	-0.8	-0.7	-0.8	-0.8	-0.8	-0.7	-0.6	-0.5	-0.5
Long Term												
Full Simulation Period <sup>a</sup>	-0.6	-0.8	-0.7	-0.7	-0.4	-0.5	-0.6	-0.7	-0.6	-0.5	-0.4	-0.4
Water Year Types <sup>b</sup>												
Wet (32%)	-0.6	-0.8	-0.8	-0.7	-0.7	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5	-0.4
Above Normal (16%)	-0.7	-0.8	-0.9	-0.8	0.0	-0.5	-0.5	-0.6	-0.5	-0.6	-0.5	-0.4
Below Normal (13%)	-0.4	-0.7	-0.6	-0.5	-0.1	-0.3	-0.4	-0.8	-0.7	-0.6	-0.5	-0.6
Dry (24%)	-0.7	-0.9	-0.8	-0.7	-0.4	-0.5	-0.7	-0.6	-0.6	-0.5	-0.4	-0.3
Critical (15%)	-0.5	-0.7	-0.6	-0.6	-0.3	-0.3	-0.5	-0.6	-0.5	-0.5	-0.4	-0.4

Alternative 2B minus Existing												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	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	0.1	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0
Long Term												
Full Simulation Period <sup>a</sup>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types <sup>b</sup>												
Wet (32%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal (16%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal (13%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry (24%)	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0

a Based on the 16-year simulation period

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

c The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table 5-1-1. San Joaquin River at Prisoners Point, Monthly Averaged Daily Maximum Elevation

Existing												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.1	3.1	3.2	3.3	3.7	3.2	3.1	3.3	3.4	3.5	3.4	3.3
20%	3.1	3.0	3.2	3.2	3.4	3.1	3.0	3.2	3.4	3.5	3.4	3.2
30%	3.0	3.0	3.1	3.2	3.3	3.0	3.0	3.2	3.4	3.5	3.4	3.2
40%	2.9	3.0	3.1	3.1	3.2	2.9	2.9	3.2	3.4	3.5	3.3	3.1
50%	2.9	2.9	3.1	3.1	3.2	2.8	2.9	3.1	3.3	3.4	3.3	3.1
60%	2.9	2.9	3.1	3.1	3.1	2.8	2.8	3.0	3.3	3.4	3.3	3.1
70%	2.9	2.9	3.0	3.0	3.0	2.7	2.8	2.9	3.2	3.4	3.3	3.1
80%	2.8	2.9	3.0	3.0	2.9	2.7	2.8	2.9	3.2	3.3	3.2	3.0
90%	2.8	2.8	2.9	2.9	2.8	2.5	2.7	2.8	3.2	3.2	3.1	3.0
Long Term												
Full Simulation Period <sup>a</sup>	2.9	2.9	3.1	3.1	3.2	2.9	2.9	3.1	3.3	3.4	3.3	3.1
Water Year Types <sup>b</sup>												
Wet (32%)	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.3	3.2
Above Normal (16%)	2.8	2.8	2.8	2.9	3.4	2.8	2.9	3.0	3.3	3.3	3.3	3.1
Below Normal (13%)	3.0	2.9	3.2	3.2	3.4	2.9	3.1	2.9	3.2	3.2	3.2	2.9
Dry (24%)	2.9	2.9	3.1	3.1	3.3	2.9	2.9	3.1	3.3	3.4	3.4	3.2
Critical (15%)	2.9	3.0	3.2	3.1	3.2	2.9	2.9	3.1	3.3	3.4	3.2	3.0

Alternative 2B												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3.1	3.1	3.2	3.3	3.7	3.2	3.1	3.3	3.4	3.5	3.4	3.3
20%	3.1	3.0	3.2	3.2	3.4	3.1	3.0	3.2	3.4	3.5	3.4	3.2
30%	3.0	3.0	3.1	3.2	3.3	3.0	2.9	3.2	3.4	3.5	3.4	3.2
40%	2.9	3.0	3.1	3.2	3.2	2.9	2.9	3.2	3.3	3.5	3.3	3.1
50%	2.9	3.0	3.1	3.1	3.2	2.8	2.9	3.1	3.3	3.4	3.3	3.1
60%	2.9	2.9	3.1	3.1	3.1	2.8	2.8	2.9	3.3	3.4	3.3	3.1
70%	2.9	2.9	3.0	3.0	3.0	2.8	2.8	2.9	3.2	3.4	3.3	3.1
80%	2.8	2.9	3.0	3.0	2.8	2.7	2.8	2.9	3.2	3.3	3.2	3.0
90%	2.8	2.8	2.9	2.9	2.8	2.5	2.7	2.8	3.2	3.2	3.1	3.0
Long Term												
Full Simulation Period <sup>a</sup>	2.9	2.9	3.1	3.1	3.2	2.9	2.9	3.1	3.3	3.4	3.3	3.1
Water Year Types <sup>b</sup>												
Wet (32%)	3.0	3.0	3.1	3.2	3.0	2.8	2.8	3.0	3.3	3.5	3.3	3.2
Above Normal (16%)	2.8	2.8	2.8	2.9	3.4	2.8	2.9	3.0	3.3	3.3	3.3	3.1
Below Normal (13%)	3.0	2.9	3.2	3.2	3.3	2.9	3.1	2.9	3.2	3.2	3.2	2.9
Dry (24%)	2.9	2.9	3.1	3.1	3.3	2.9	2.9	3.1	3.3	3.4	3.4	3.2
Critical (15%)	2.9	3.0	3.2	3.1	3.2	2.9	2.9	3.1	3.3	3.4	3.2	3.0

Alternative 2B minus Existing												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0
Long Term												
Full Simulation Period <sup>a</sup>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types <sup>b</sup>												
Wet (32%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal (16%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal (13%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry (24%)	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0

a Based on the 16-year simulation period

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

c The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table 5-2-1. San Joaquin River at Prisoners Point, Monthly Averaged Daily Minimum Elevation

Existing												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.6	-0.7	-0.6	-0.6	0.1	-0.3	-0.3	-0.5	-0.6	-0.5	-0.5	-0.4
20%	-0.6	-0.7	-0.8	-0.6	-0.2	-0.4	-0.4	-0.6	-0.6	-0.6	-0.5	-0.4
30%	-0.6	-0.8	-0.8	-0.7	-0.3	-0.5	-0.5	-0.6	-0.7	-0.6	-0.5	-0.5
40%	-0.6	-0.8	-0.8	-0.7	-0.6	-0.5	-0.6	-0.7	-0.7	-0.6	-0.5	-0.5
50%	-0.7	-0.9	-0.9	-0.8	-0.6	-0.6	-0.7	-0.8	-0.7	-0.6	-0.5	-0.5
60%	-0.7	-0.9	-0.9	-0.8	-0.7	-0.7	-0.7	-0.8	-0.7	-0.6	-0.5	-0.5
70%	-0.7	-0.9	-0.9	-0.8	-0.7	-0.9	-0.8	-0.8	-0.7	-0.6	-0.6	-0.6
80%	-0.8	-1.0	-0.9	-0.9	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.6	-0.6
90%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-0.9	-0.9	-0.8	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period <sup>a</sup>	-0.7	-0.9	-0.8	-0.7	-0.4	-0.6	-0.6	-0.7	-0.7	-0.6	-0.5	-0.5
Water Year Types <sup>b</sup>												
Wet (32%)	-0.7	-0.9	-0.9	-0.8	-0.8	-0.8	-0.8	-0.9	-0.7	-0.6	-0.6	-0.5
Above Normal (16%)	-0.8	-0.9	-1.0	-0.9	0.0	-0.6	-0.5	-0.6	-0.6	-0.7	-0.6	-0.5
Below Normal (13%)	-0.5	-0.8	-0.7	-0.6	-0.2	-0.4	-0.4	-0.8	-0.7	-0.7	-0.5	-0.7
Dry (24%)	-0.7	-0.9	-0.9	-0.8	-0.4	-0.6	-0.7	-0.7	-0.7	-0.6	-0.5	-0.5
Critical (15%)	-0.6	-0.8	-0.7	-0.7	-0.4	-0.4	-0.5	-0.6	-0.6	-0.6	-0.5	-0.5

Alternative 2B												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-0.6	-0.7	-0.6	-0.6	0.1	-0.2	-0.4	-0.5	-0.6	-0.5	-0.4	-0.4
20%	-0.6	-0.7	-0.7	-0.6	-0.2	-0.4	-0.5	-0.6	-0.6	-0.6	-0.5	-0.4
30%	-0.6	-0.8	-0.8	-0.7	-0.3	-0.5	-0.5	-0.6	-0.7	-0.6	-0.5	-0.5
40%	-0.6	-0.8	-0.8	-0.7	-0.6	-0.5	-0.6	-0.7	-0.7	-0.6	-0.5	-0.5
50%	-0.7	-0.9	-0.9	-0.8	-0.6	-0.6	-0.7	-0.8	-0.7	-0.6	-0.5	-0.5
60%	-0.7	-0.9	-0.9	-0.8	-0.6	-0.7	-0.7	-0.8	-0.7	-0.6	-0.6	-0.5
70%	-0.8	-1.0	-0.9	-0.8	-0.7	-0.9	-0.8	-0.8	-0.7	-0.6	-0.6	-0.5
80%	-0.8	-1.0	-0.9	-0.9	-0.7	-0.9	-0.8	-0.9	-0.7	-0.7	-0.6	-0.6
90%	-0.8	-1.0	-1.0	-0.9	-0.8	-0.9	-0.9	-0.9	-0.8	-0.7	-0.6	-0.6
Long Term												
Full Simulation Period <sup>a</sup>	-0.7	-0.9	-0.8	-0.7	-0.4	-0.6	-0.6	-0.7	-0.7	-0.6	-0.5	-0.5
Water Year Types <sup>b</sup>												
Wet (32%)	-0.7	-0.9	-0.9	-0.8	-0.8	-0.8	-0.8	-0.9	-0.8	-0.6	-0.6	-0.5
Above Normal (16%)	-0.8	-0.9	-1.0	-0.9	0.0	-0.6	-0.5	-0.7	-0.6	-0.7	-0.6	-0.5
Below Normal (13%)	-0.5	-0.8	-0.7	-0.6	-0.2	-0.4	-0.4	-0.9	-0.7	-0.7	-0.6	-0.7
Dry (24%)	-0.7	-0.9	-0.8	-0.8	-0.4	-0.6	-0.7	-0.7	-0.7	-0.6	-0.5	-0.5
Critical (15%)	-0.6	-0.8	-0.7	-0.7	-0.4	-0.4	-0.5	-0.6	-0.6	-0.5	-0.5	-0.5

Alternative 2B minus Existing												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	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	0.1	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	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	-0.1	0.0	0.0	0.0	0.0	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0
Long Term												
Full Simulation Period <sup>a</sup>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types <sup>b</sup>												
Wet (32%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal (16%)	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0
Below Normal (13%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry (24%)	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0

a Based on the 16-year simulation period

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

c The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table 6-1-1. Old River at Tracy Blvd, Monthly Averaged Daily Maximum Elevation

Existing												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.4	2.4	2.8	2.8	3.6	3.1	3.3	3.2	2.8	2.8	2.7	2.7
20%	2.4	2.3	2.8	2.8	3.3	2.8	3.2	3.1	2.8	2.7	2.7	2.6
30%	2.4	2.3	2.6	2.7	2.9	2.7	3.1	2.8	2.7	2.6	2.6	2.6
40%	2.3	2.3	2.5	2.7	2.7	2.5	3.0	2.8	2.7	2.6	2.6	2.4
50%	2.3	2.2	2.4	2.6	2.7	2.5	2.8	2.7	2.7	2.5	2.5	2.4
60%	2.2	2.2	2.4	2.5	2.6	2.4	2.6	2.6	2.7	2.4	2.5	2.3
70%	2.2	2.1	2.3	2.5	2.5	2.3	2.5	2.4	2.6	2.3	2.5	2.3
80%	2.2	2.1	2.3	2.5	2.5	2.3	2.5	2.4	2.5	2.3	2.5	2.3
90%	2.2	2.0	2.2	2.4	2.2	2.2	2.4	2.3	2.4	2.1	2.3	2.2
Long Term												
Full Simulation Period <sup>a</sup>	2.3	2.2	2.5	2.6	2.9	2.7	2.8	2.8	2.7	2.5	2.5	2.4
Water Year Types <sup>b</sup>												
Wet (32%)	2.4	2.4	2.5	2.7	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.6
Above Normal (16%)	2.2	2.1	2.2	2.4	3.0	2.3	3.1	2.8	2.7	2.2	2.4	2.3
Below Normal (13%)	2.4	2.1	2.8	2.7	3.0	2.4	3.0	2.4	2.2	2.0	2.6	2.3
Dry (24%)	2.3	2.3	2.4	2.6	2.9	2.7	2.7	2.7	2.7	2.4	2.5	2.4
Critical (15%)	2.2	2.1	2.6	2.6	3.1	3.2	3.1	3.1	2.8	2.7	2.5	2.3

Alternative 2B												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2.7	2.6	2.8	2.8	3.5	3.2	3.0	3.1	2.8	2.9	2.8	2.8
20%	2.6	2.6	2.8	2.8	3.3	2.7	2.9	2.9	2.7	2.7	2.7	2.7
30%	2.6	2.5	2.6	2.7	2.9	2.7	2.8	2.9	2.7	2.6	2.7	2.7
40%	2.5	2.5	2.5	2.7	2.7	2.7	2.8	2.8	2.6	2.6	2.6	2.5
50%	2.5	2.5	2.5	2.6	2.7	2.5	2.7	2.7	2.6	2.5	2.6	2.5
60%	2.5	2.4	2.4	2.5	2.6	2.5	2.7	2.5	2.6	2.4	2.5	2.5
70%	2.5	2.4	2.3	2.5	2.5	2.4	2.7	2.5	2.5	2.3	2.5	2.4
80%	2.4	2.3	2.3	2.4	2.4	2.2	2.6	2.5	2.4	2.2	2.5	2.4
90%	2.4	2.2	2.2	2.4	2.2	2.0	2.6	2.5	2.4	2.1	2.3	2.3
Long Term												
Full Simulation Period <sup>a</sup>	2.5	2.4	2.5	2.6	2.9	2.7	2.8	2.8	2.6	2.5	2.6	2.5
Water Year Types <sup>b</sup>												
Wet (32%)	2.6	2.5	2.5	2.7	2.4	2.4	2.6	2.6	2.6	2.6	2.7	2.7
Above Normal (16%)	2.4	2.3	2.2	2.4	3.0	2.4	2.7	2.7	2.6	2.2	2.4	2.4
Below Normal (13%)	2.6	2.4	2.7	2.7	2.9	2.7	2.8	2.5	2.2	2.1	2.6	2.4
Dry (24%)	2.6	2.5	2.5	2.6	2.9	2.7	2.7	2.8	2.6	2.5	2.6	2.5
Critical (15%)	2.5	2.4	2.6	2.6	3.1	3.1	3.0	3.1	2.8	2.7	2.5	2.5

Alternative 2B minus Existing												
Statistic	Monthly Averaged Daily Maximum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.3	0.2	0.0	0.0	0.0	0.1	-0.3	-0.1	-0.1	0.1	0.0	0.1
20%	0.3	0.2	0.0	0.0	0.0	0.0	-0.2	-0.2	0.0	0.0	0.0	0.1
30%	0.2	0.2	0.0	0.0	0.0	0.1	-0.2	0.0	-0.1	0.0	0.0	0.1
40%	0.2	0.3	0.0	0.0	0.0	0.2	-0.2	0.1	-0.1	0.0	0.0	0.1
50%	0.3	0.2	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	0.0	0.0	0.1
60%	0.2	0.2	0.0	0.0	0.0	0.1	0.1	0.0	-0.1	0.0	0.0	0.1
70%	0.3	0.3	0.0	0.0	-0.1	0.1	0.1	0.1	-0.1	0.0	0.0	0.1
80%	0.2	0.3	0.0	0.0	0.0	0.0	0.1	0.1	0.0	-0.1	0.0	0.2
90%	0.2	0.2	0.0	0.0	0.0	-0.1	0.2	0.2	0.0	0.0	0.0	0.1
Long Term												
Full Simulation Period <sup>a</sup>	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.1
Water Year Types <sup>b</sup>												
Wet (32%)	0.2	0.1	0.0	0.0	0.0	0.0	0.2	0.2	0.0	-0.1	0.0	0.1
Above Normal (16%)	0.2	0.3	0.0	0.0	0.0	0.1	-0.4	-0.1	-0.1	0.0	0.0	0.1
Below Normal (13%)	0.2	0.3	-0.1	0.0	0.0	0.3	-0.2	0.1	0.0	0.1	0.0	0.1
Dry (24%)	0.2	0.2	0.1	0.0	0.0	0.1	0.0	0.0	-0.1	0.1	0.0	0.1
Critical (15%)	0.3	0.3	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.1

a Based on the 16-year simulation period

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

c The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

Table 6-2-1. Old River at Tracy Blvd, Monthly Averaged Daily Minimum Elevation

Existing												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.5	1.4	-0.2	-0.2	1.1	0.4	0.4	0.6	1.7	1.5	1.6	1.5
20%	1.4	1.3	-0.5	-0.4	0.3	0.0	0.4	0.3	1.7	1.5	1.6	1.5
30%	1.4	1.3	-0.6	-0.4	-0.1	-0.3	0.3	0.0	1.6	1.4	1.5	1.5
40%	1.4	1.3	-0.6	-0.5	-0.1	-0.4	0.1	-0.1	1.5	1.2	1.4	1.5
50%	1.4	1.3	-0.7	-0.5	-0.3	-0.4	-0.2	-0.3	1.2	1.2	1.4	1.4
60%	1.3	1.3	-0.7	-0.6	-0.4	-0.4	-0.5	-0.4	1.2	1.2	1.3	1.4
70%	1.3	1.2	-0.7	-0.6	-0.4	-0.5	-0.6	-0.4	1.1	1.2	1.3	1.4
80%	1.3	1.2	-0.7	-0.6	-0.5	-0.6	-0.7	-0.4	1.1	1.1	1.3	1.4
90%	1.3	1.2	-0.8	-0.7	-0.6	-0.7	-0.7	-0.5	1.1	1.1	1.3	1.4
Long Term												
Full Simulation Period <sup>a</sup>	1.4	1.3	-0.5	-0.5	0.1	0.0	-0.1	0.0	1.4	1.4	1.4	1.4
Water Year Types <sup>b</sup>												
Wet (32%)	1.4	1.3	-0.6	-0.6	-0.6	-0.6	-0.7	-0.4	1.2	1.2	1.3	1.4
Above Normal (16%)	1.3	1.2	-0.7	-0.7	0.1	-0.5	0.2	0.0	1.6	1.2	1.4	1.4
Below Normal (13%)	1.5	1.3	-0.3	-0.4	-0.1	-0.4	0.1	-0.4	1.0	1.0	1.3	1.4
Dry (24%)	1.4	1.3	-0.7	-0.6	0.0	-0.2	-0.3	-0.1	1.4	1.3	1.4	1.4
Critical (15%)	1.4	1.3	-0.4	-0.3	0.6	0.8	0.5	0.6	1.5	1.7	1.5	1.5

Alternative 2B												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1.7	1.5	-0.3	-0.2	1.1	0.5	0.3	0.5	1.6	1.5	1.6	1.7
20%	1.7	1.5	-0.5	-0.4	0.3	0.1	0.2	0.2	1.5	1.5	1.6	1.6
30%	1.6	1.5	-0.6	-0.4	-0.1	-0.3	0.1	0.1	1.5	1.4	1.5	1.6
40%	1.6	1.4	-0.6	-0.5	-0.1	-0.3	0.0	0.0	1.4	1.2	1.4	1.5
50%	1.6	1.4	-0.7	-0.5	-0.3	-0.4	-0.1	-0.2	1.2	1.2	1.4	1.5
60%	1.5	1.4	-0.7	-0.6	-0.4	-0.5	-0.3	-0.3	1.2	1.2	1.4	1.5
70%	1.5	1.4	-0.7	-0.6	-0.5	-0.5	-0.5	-0.3	1.2	1.2	1.3	1.4
80%	1.4	1.3	-0.8	-0.6	-0.5	-0.6	-0.6	-0.3	1.1	1.1	1.3	1.4
90%	1.4	1.3	-0.8	-0.7	-0.6	-0.7	-0.6	-0.4	1.0	1.1	1.3	1.4
Long Term												
Full Simulation Period <sup>a</sup>	1.6	1.4	-0.6	-0.5	0.1	0.0	-0.1	0.1	1.3	1.4	1.4	1.5
Water Year Types <sup>b</sup>												
Wet (32%)	1.5	1.4	-0.7	-0.6	-0.6	-0.6	-0.5	-0.4	1.1	1.2	1.3	1.5
Above Normal (16%)	1.4	1.4	-0.8	-0.7	0.1	-0.4	0.0	0.0	1.5	1.2	1.4	1.5
Below Normal (13%)	1.6	1.4	-0.4	-0.4	-0.1	-0.3	0.0	-0.3	1.0	1.0	1.4	1.4
Dry (24%)	1.5	1.4	-0.6	-0.6	0.0	-0.2	-0.2	-0.1	1.4	1.3	1.4	1.5
Critical (15%)	1.6	1.4	-0.4	-0.3	0.6	0.7	0.4	0.7	1.4	1.7	1.5	1.6

Alternative 2B minus Existing												
Statistic	Monthly Averaged Daily Minimum Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0.2	0.2	-0.1	0.0	0.0	0.1	-0.1	-0.1	-0.1	0.0	0.0	0.1
20%	0.2	0.2	0.0	0.0	0.0	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.1
30%	0.2	0.2	0.0	0.0	0.0	0.0	-0.2	0.0	-0.2	0.0	0.0	0.1
40%	0.2	0.2	0.0	0.0	0.0	0.1	-0.2	0.1	-0.1	0.0	0.0	0.1
50%	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
60%	0.2	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1
70%	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1
80%	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
90%	0.1	0.1	0.0	0.0	0.0	-0.1	0.1	0.1	0.0	0.0	0.0	0.0
Long Term												
Full Simulation Period <sup>a</sup>	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Water Year Types <sup>b</sup>												
Wet (32%)	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
Above Normal (16%)	0.1	0.1	0.0	0.0	0.0	0.1	-0.2	0.0	-0.1	0.0	0.0	0.1
Below Normal (13%)	0.2	0.2	-0.1	0.0	0.0	0.1	-0.2	0.1	0.0	0.0	0.0	0.1
Dry (24%)	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1
Critical (15%)	0.2	0.2	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	0.0	0.0	0.1

a Based on the 16-year simulation period

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

c The Elevations are based on National Geodetic Vertical Datum of 1929 (NGVD 29)

## **Appendix C – Modeling**

### **Attachment 3-7 – Salinity Results (DSM2-QUAL)**

***NOTE: Attachment 3-7 is a new attachment that has been added to the DEIR since initial publication, as part of the FEIR process. The additional attachment is not shown in underline for ease of reading.***

The following results of the DSM2-QUAL model are included for Delta salinity conditions for the following alternatives:

- Existing Conditions
- Refined Alternative 2b

<b>Title</b>	<b>Model Parameter</b>	<b>Table Numbers</b>	<b>Figure Numbers</b>
Sacramento River downstream of Steamboat Slough Salinity	SAC_DS_STMBTSL	1-1	1-1 to 1-18
Cache Slough at Ryer Island Salinity	CACHE_RYER	2-1	2-1 to 2-18
Sacramento River downstream of Georgiana Slough Salinity	RSAC123	3-1	3-1 to 3-18
Sacramento River at Rio Vista Salinity	RSAC101	4-1	4-1 to 4-18
Sacramento River at Emmaton Salinity	RSAC092	5-1	5-1 to 5-18
Sacramento River at Collinsville Salinity	RSAC081	6-1	6-1 to 6-18
Sacramento River at Mallard Slough Salinity	RSAC075	7-1	7-1 to 7-18
Chipps Island North Channel Salinity	CHIPS_N_437	8-1	8-1 to 8-18
Chipps Island South Channel Salinity	CHIPS_S_442	9-1	9-1 to 9-18
Sacramento River at Port Chicago Salinity	RSAC064	10-1	10-1 to 10-18
San Joaquin River at Antioch Salinity	RSAN007	11-1	11-1 to 11-18
San Joaquin River at Jersey Point Salinity	RSAN018	12-1	12-1 to 12-18
San Joaquin River at San Andreas Salinity	RSAN032	13-1	13-1 to 13-18
San Joaquin River at Prisoners Point Salinity	RSAN037	14-1	14-1 to 14-18
Old River at Rock Slough Salinity	ROLD024	15-1	15-1 to 15-18
Banks Pumping Plant South Delta Exports Salinity	CLIFTON_COURT	16-1	16-1 to 16-18
Jones Pumping Plant South Delta Exports Salinity	CHDMC006	17-1	17-1 to 17-18
Old River at Highway 4	ROLD034	18-1	18-1 to 18-18
Victoria Canal	CHVCT000	19-1	19-1 to 19-18
Montezuma Slough at Hunter Cut	SLMZU003	20-1	20-1 to 20-18
Montezuma Slough at Beldons Landing	SLMZU011	21-1	21-1 to 21-18
Montezuma Slough at National Steel	SLMZU025	22-1	22-1 to 22-18
Suisun Bay near Ryer	RYC	24-1	24-1 to 24-18



Goodyear Slough Outfall at Naval Fleet	GYS	25-1	25-1 to 25-18
Three Mile Slough	3MILE_SL	26-1	26-1 to 26-18

#### Report formats

- Monthly tables comparing two scenarios (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 scenarios
- Monthly exceedance charts (all months) including all scenarios

**Table 1-1. Sacramento River downstream of Steamboat Slough Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	176	177	179	181	179	177	176	176	176	176	176	176
20%	176	176	178	180	178	176	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	177	178	177	176	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	175
60%	176	176	176	178	176	176	176	176	176	175	176	175
70%	176	175	176	177	176	176	175	175	176	175	176	175
80%	175	175	175	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	176	176	177	178	177	176	176	176	176	176	176	176
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	176	176	177	178	176	176	175	175	176	175	176	175
Above Normal (15%)	176	176	177	178	177	176	176	175	176	175	175	175
Below Normal (17%)	176	176	177	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	177	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	176	178	177	176	176	176	176	176	176	176

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	176	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	176	178	177	176	176	176	176	175	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	175
60%	176	176	176	178	176	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	175	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	176	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	176	176	177	178	177	176	176	176	176	176	176	176
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	176	176	176	178	176	176	175	175	176	175	176	175
Above Normal (15%)	176	176	177	178	177	176	176	175	176	175	175	175
Below Normal (17%)	176	176	177	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	177	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	176	179	177	176	176	176	176	176	176	176

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
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
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Water Year Types<sup>b</sup></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

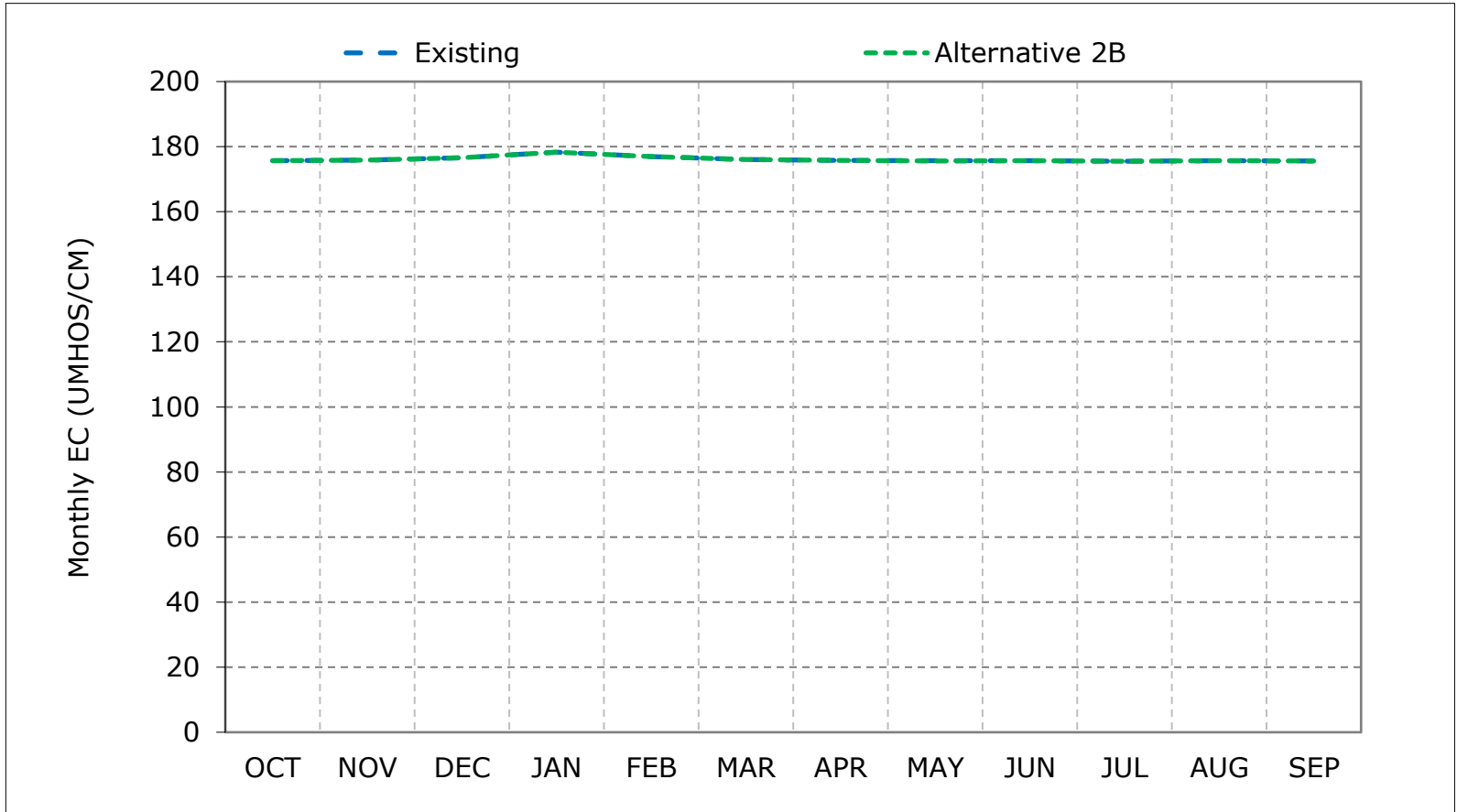
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

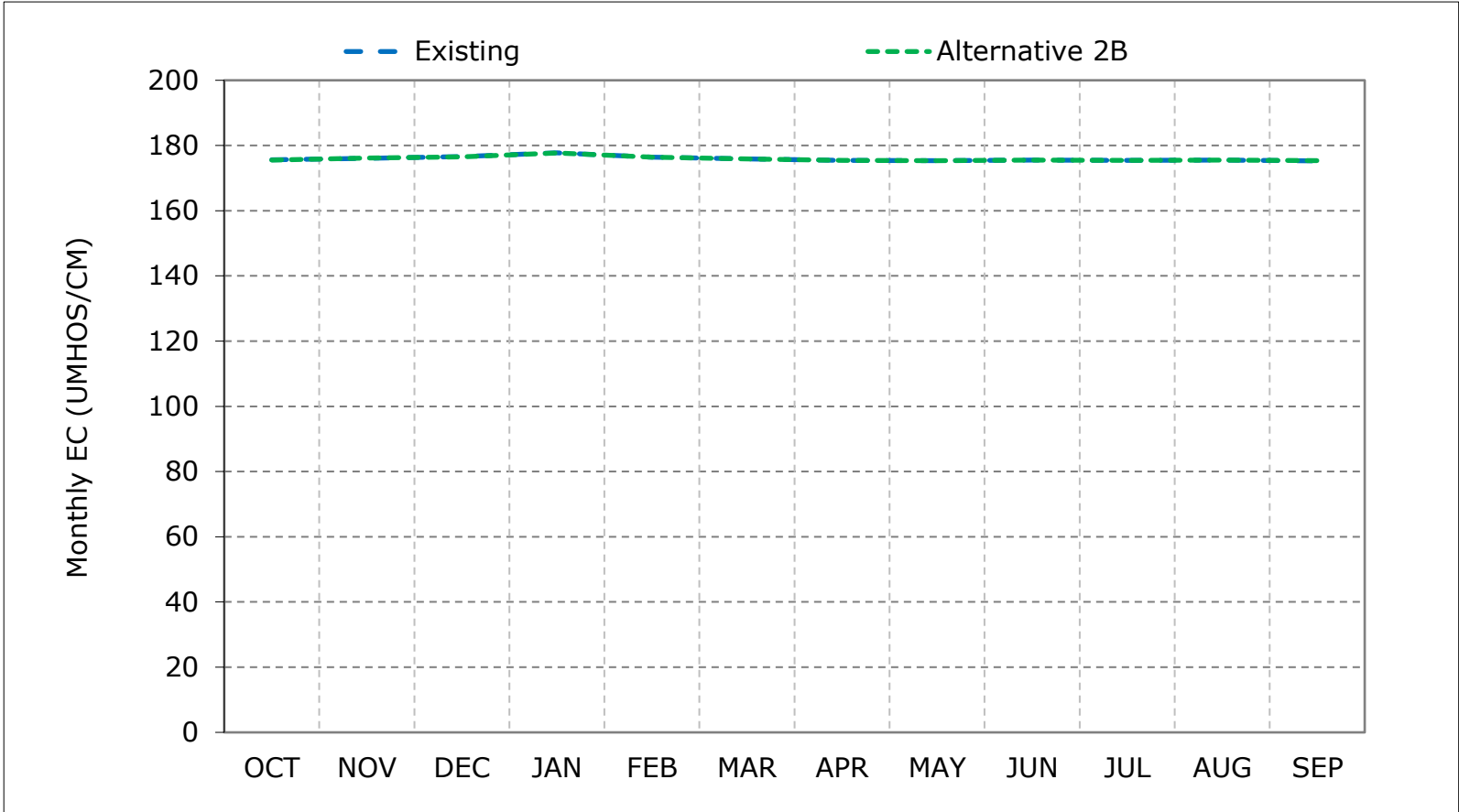
**Figure 1-1. Sacramento River downstream of Steamboat Slough Salinity, Long-Ter**



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

\*These results are displayed with water year - year type sorting.

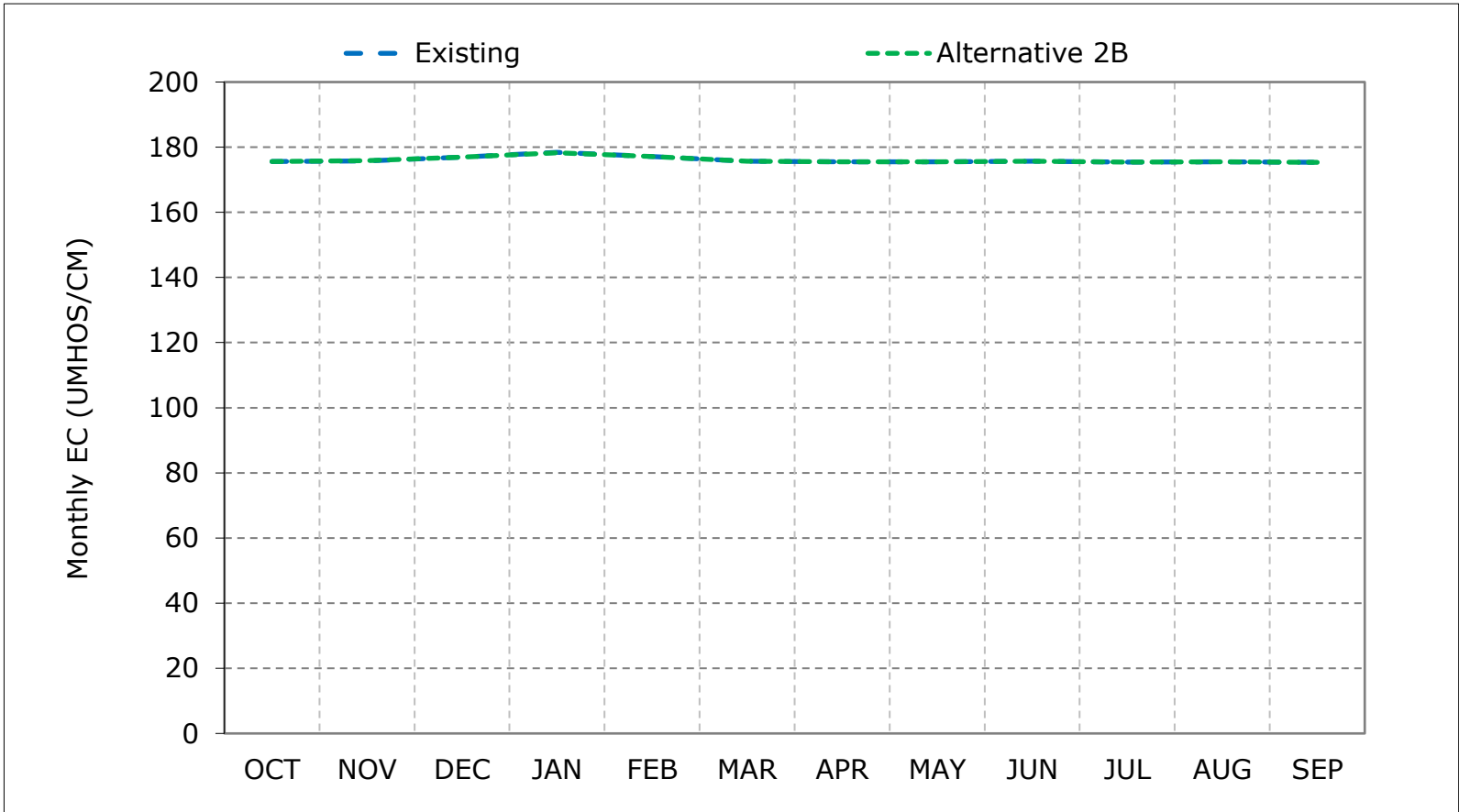
**Figure 1-2. Sacramento River downstream of Steamboat Slough Salinity, Wet Year**



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

\*These results are displayed with water year - year type sorting.

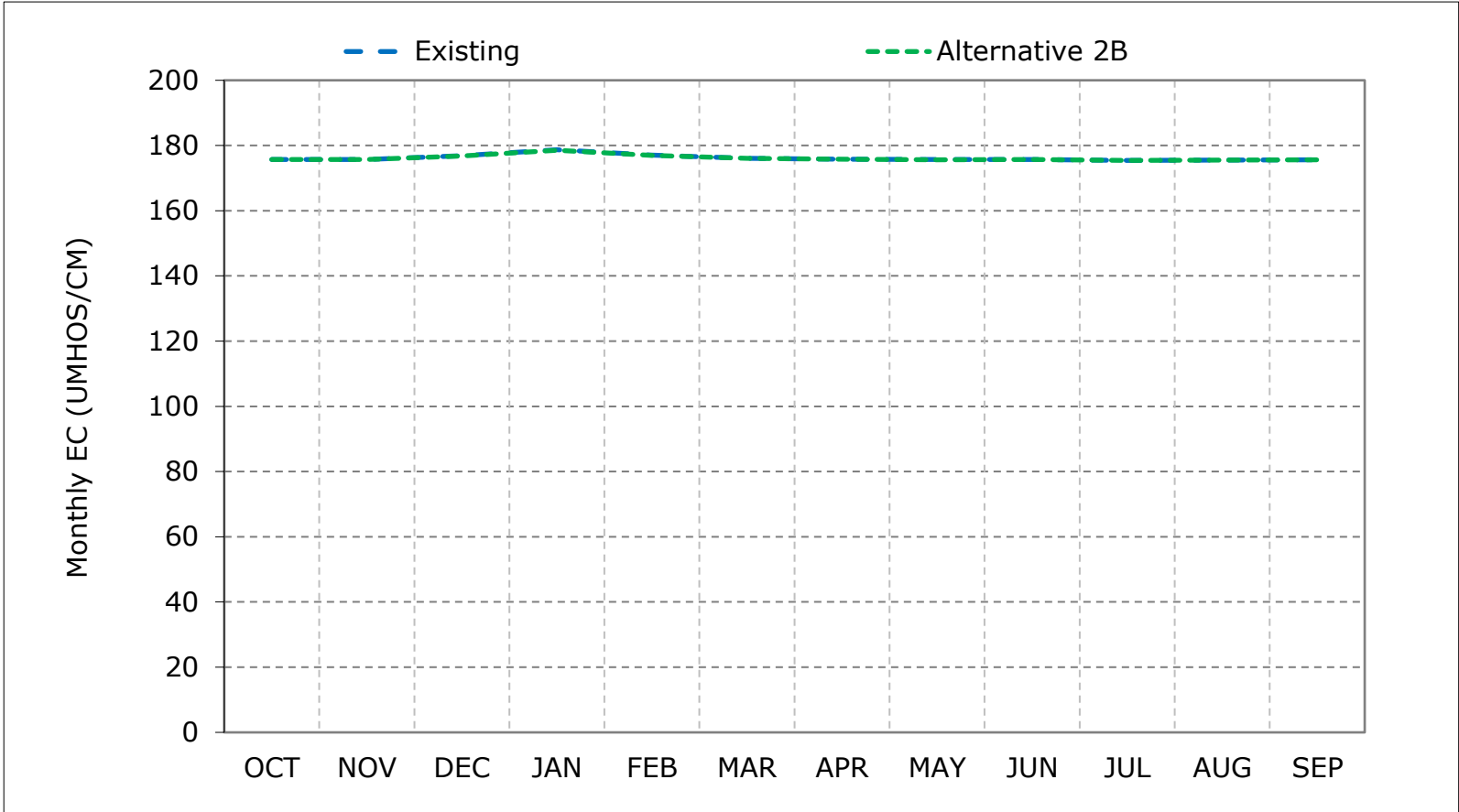
**Figure 1-3. Sacramento River downstream of Steamboat Slough Salinity, Above No**



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

\*These results are displayed with water year - year type sorting.

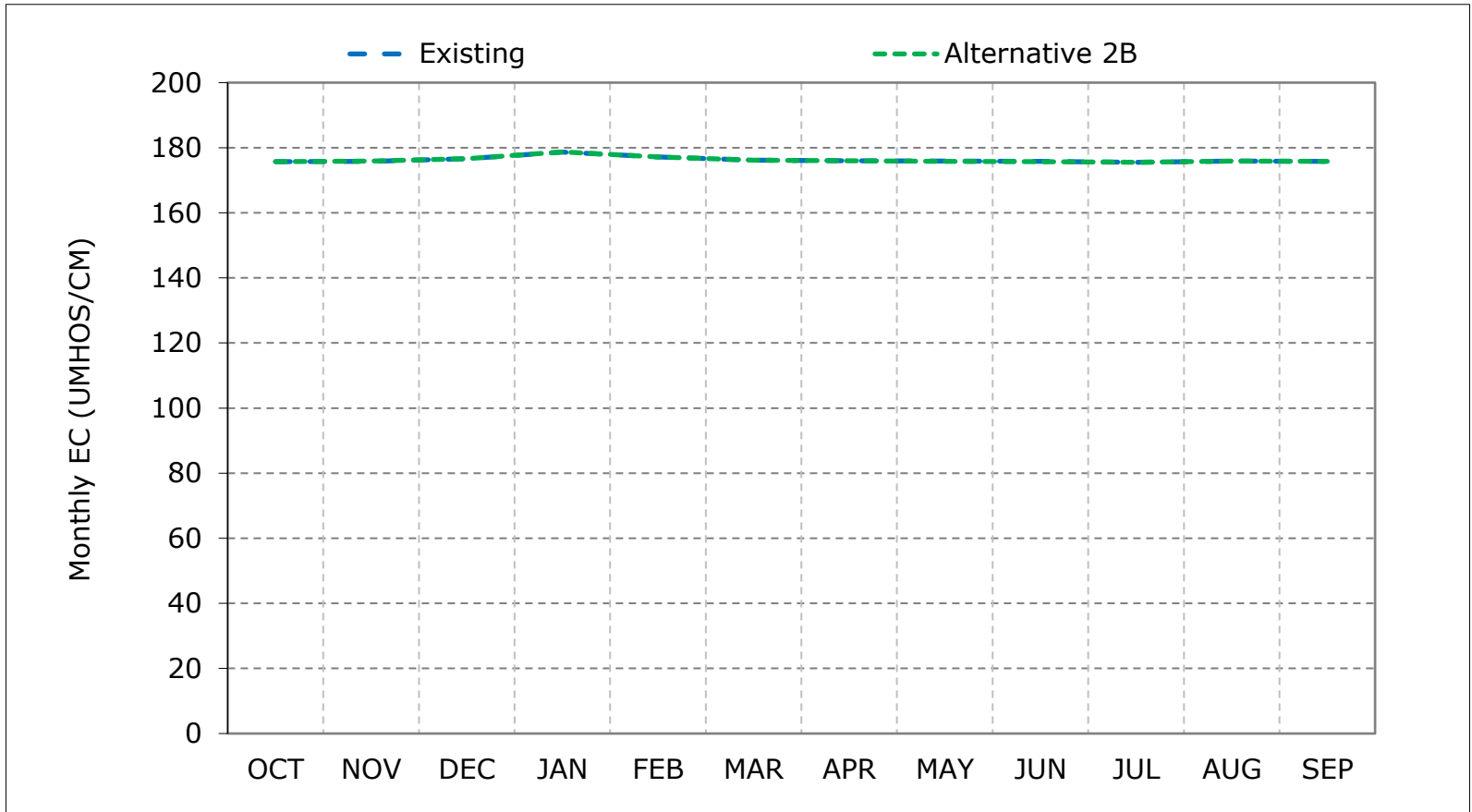
**Figure 1-4. Sacramento River downstream of Steamboat Slough Salinity, Below No**



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

\*These results are displayed with water year - year type sorting.

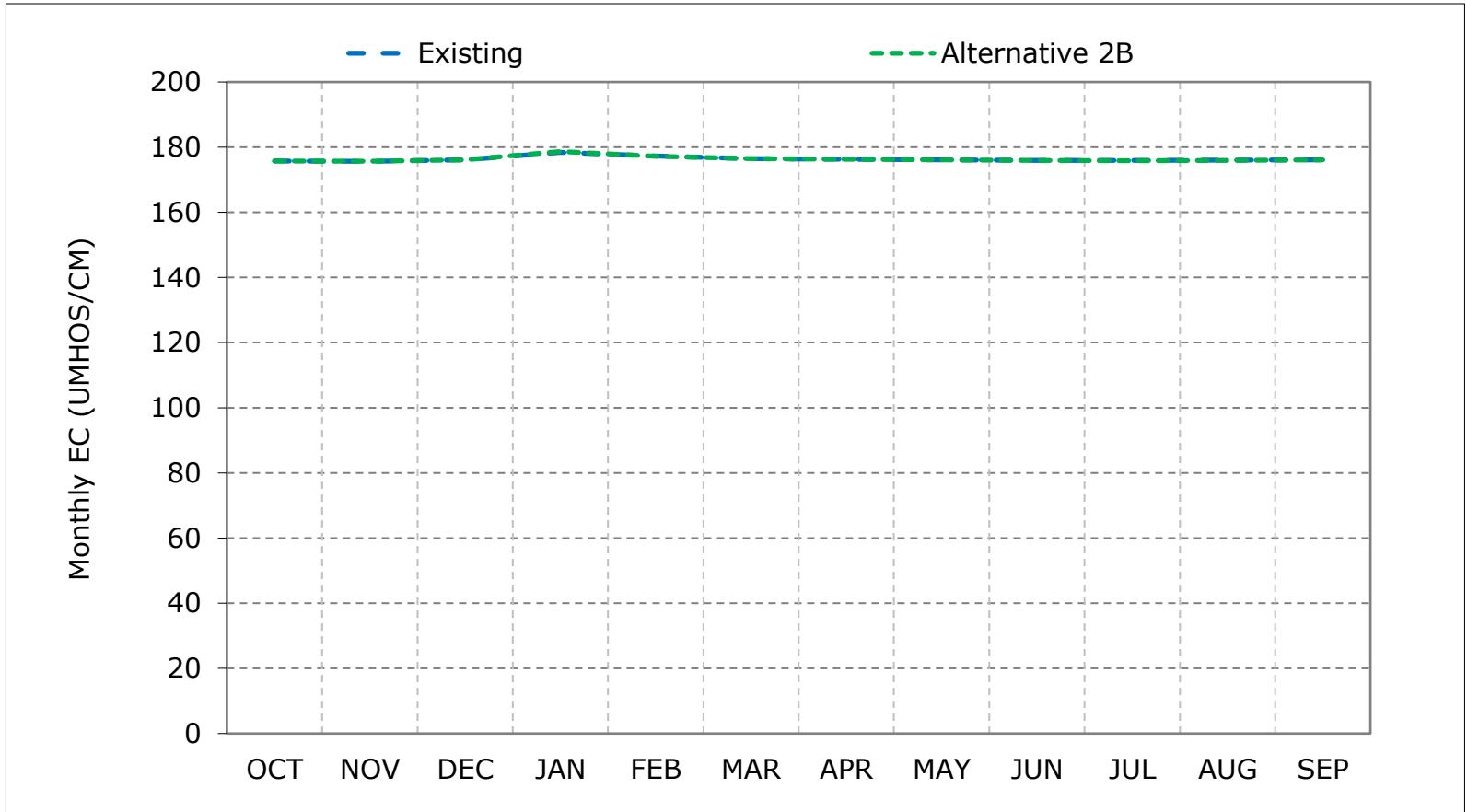
**Figure 1-5. Sacramento River downstream of Steamboat Slough Salinity, Dry Year**



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

\*These results are displayed with water year - year type sorting.

**Figure 1-6. Sacramento River downstream of Steamboat Slough Salinity, Critical Y**

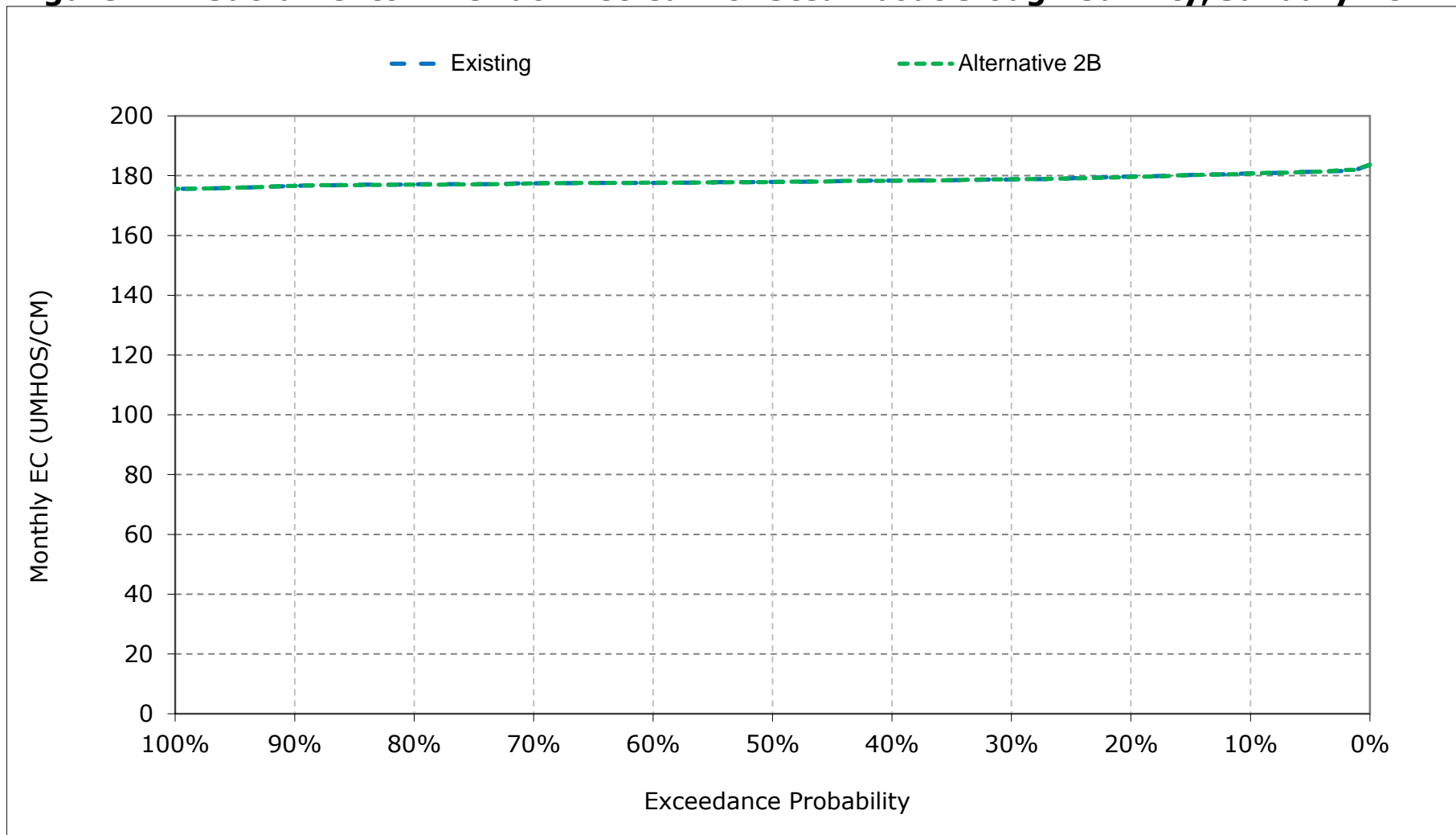


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

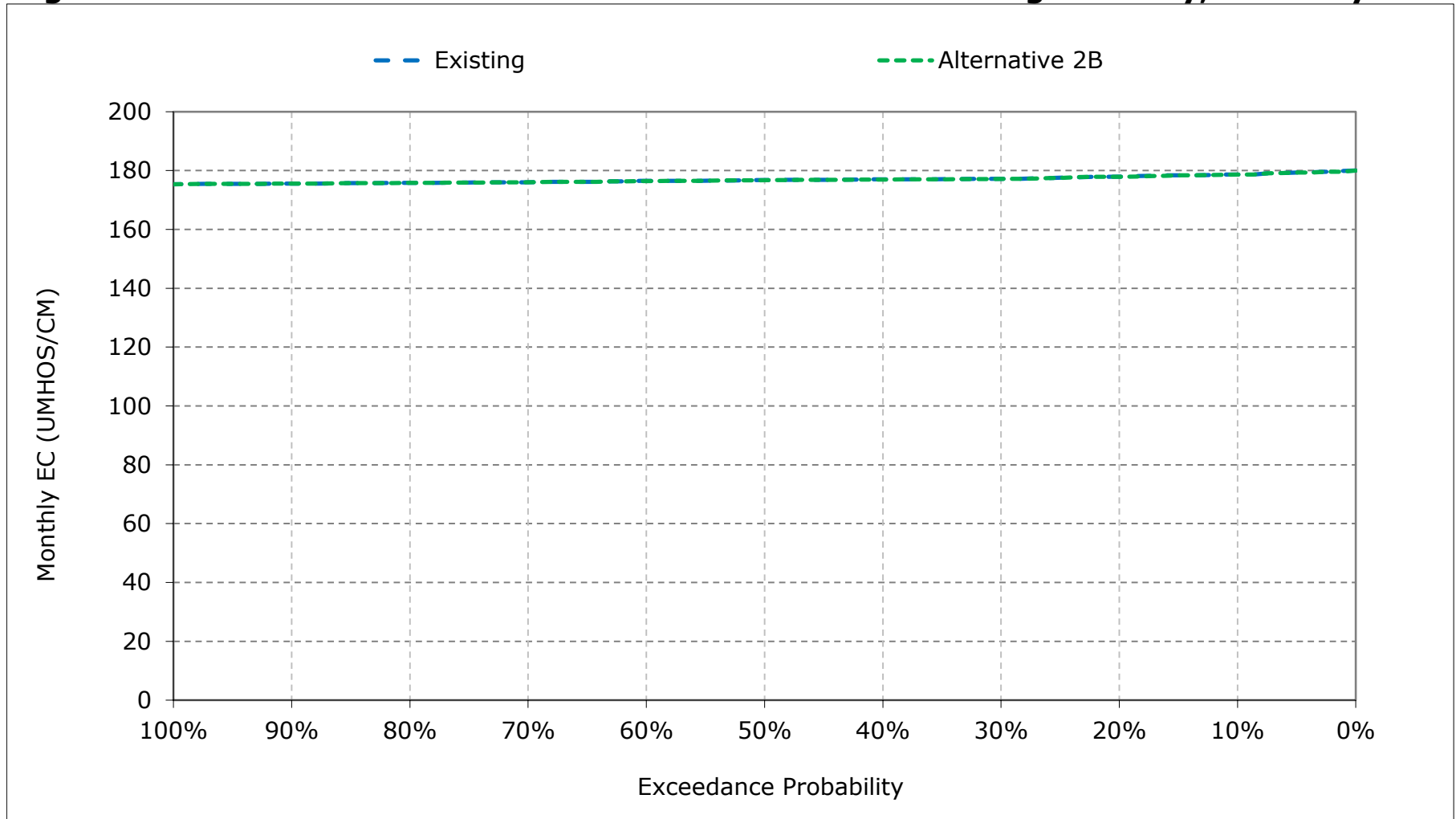
\*These results are displayed with water year - year type sorting.



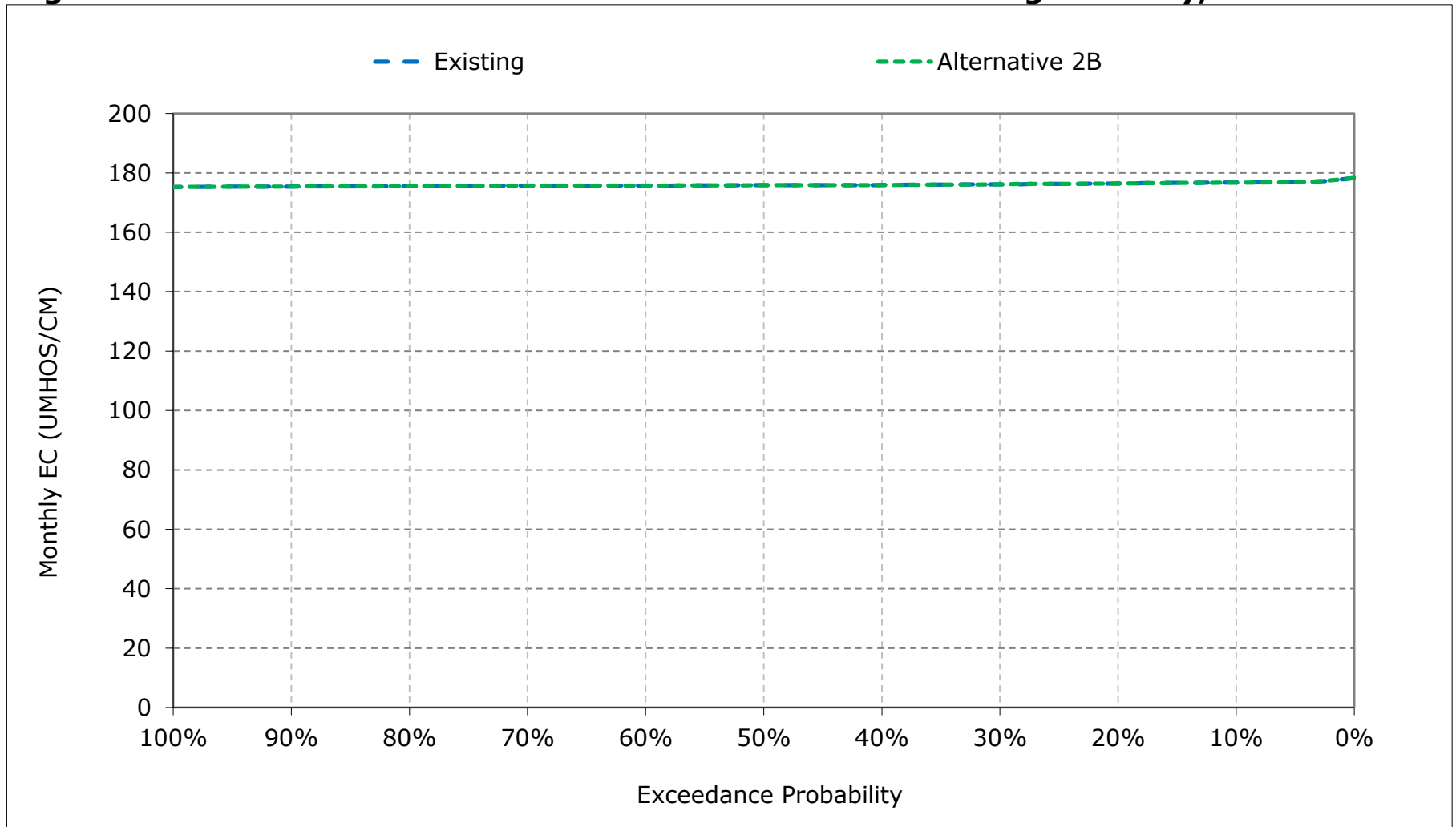
**Figure 1-7. Sacramento River downstream of Steamboat Slough Salinity, January EC**



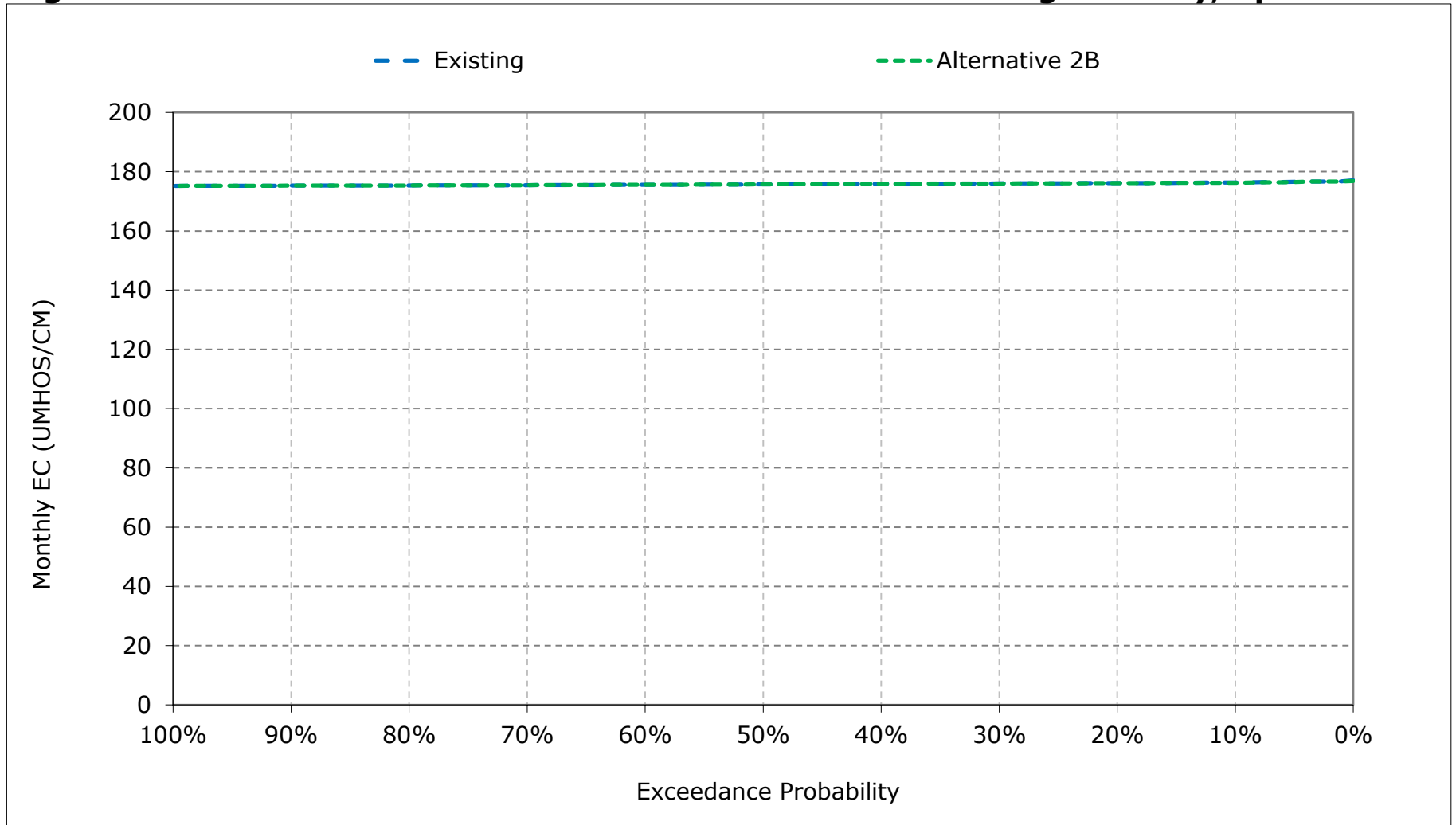
**Figure 1-8. Sacramento River downstream of Steamboat Slough Salinity, February EC**



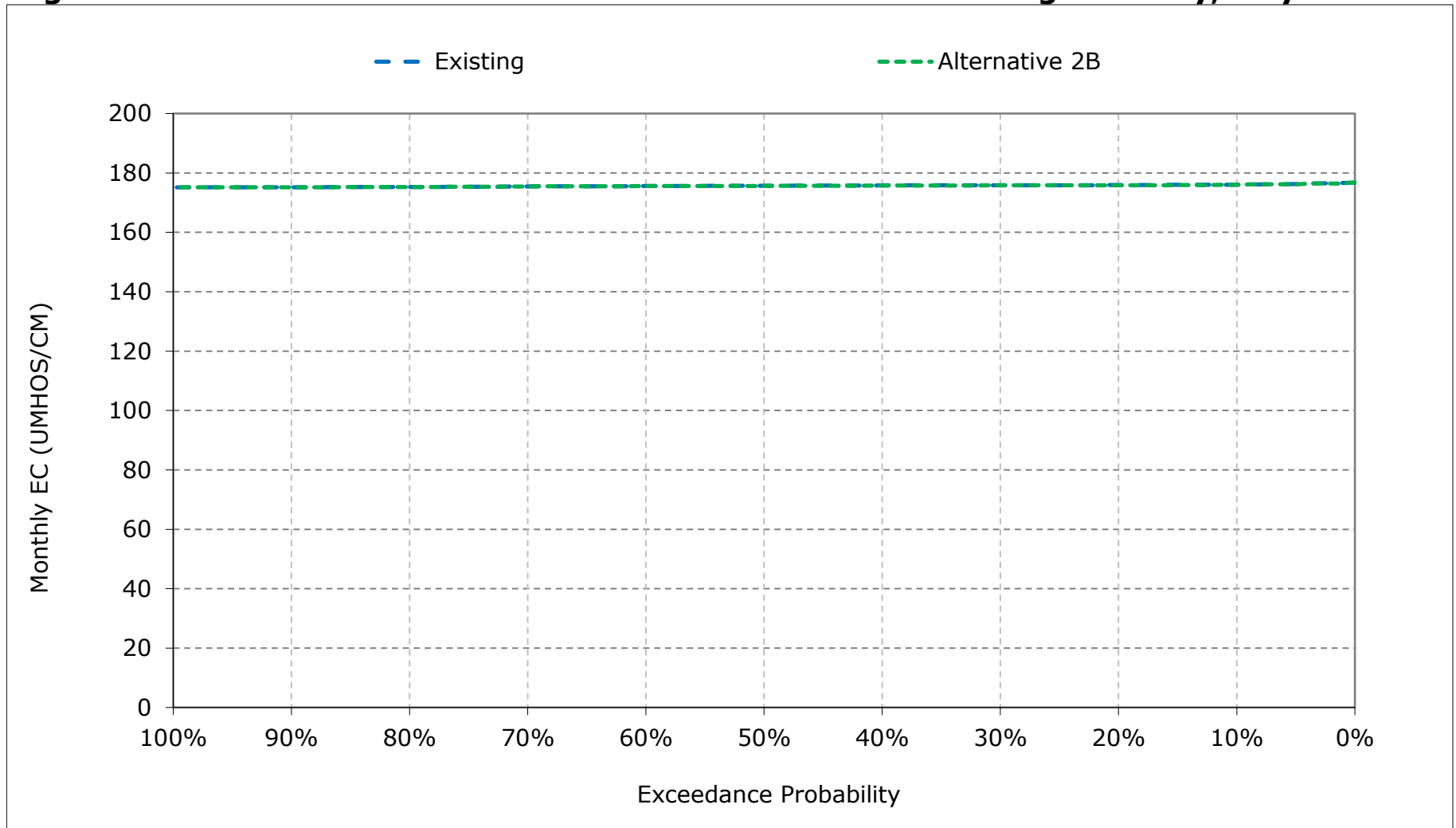
**Figure 1-9. Sacramento River downstream of Steamboat Slough Salinity, March EC**



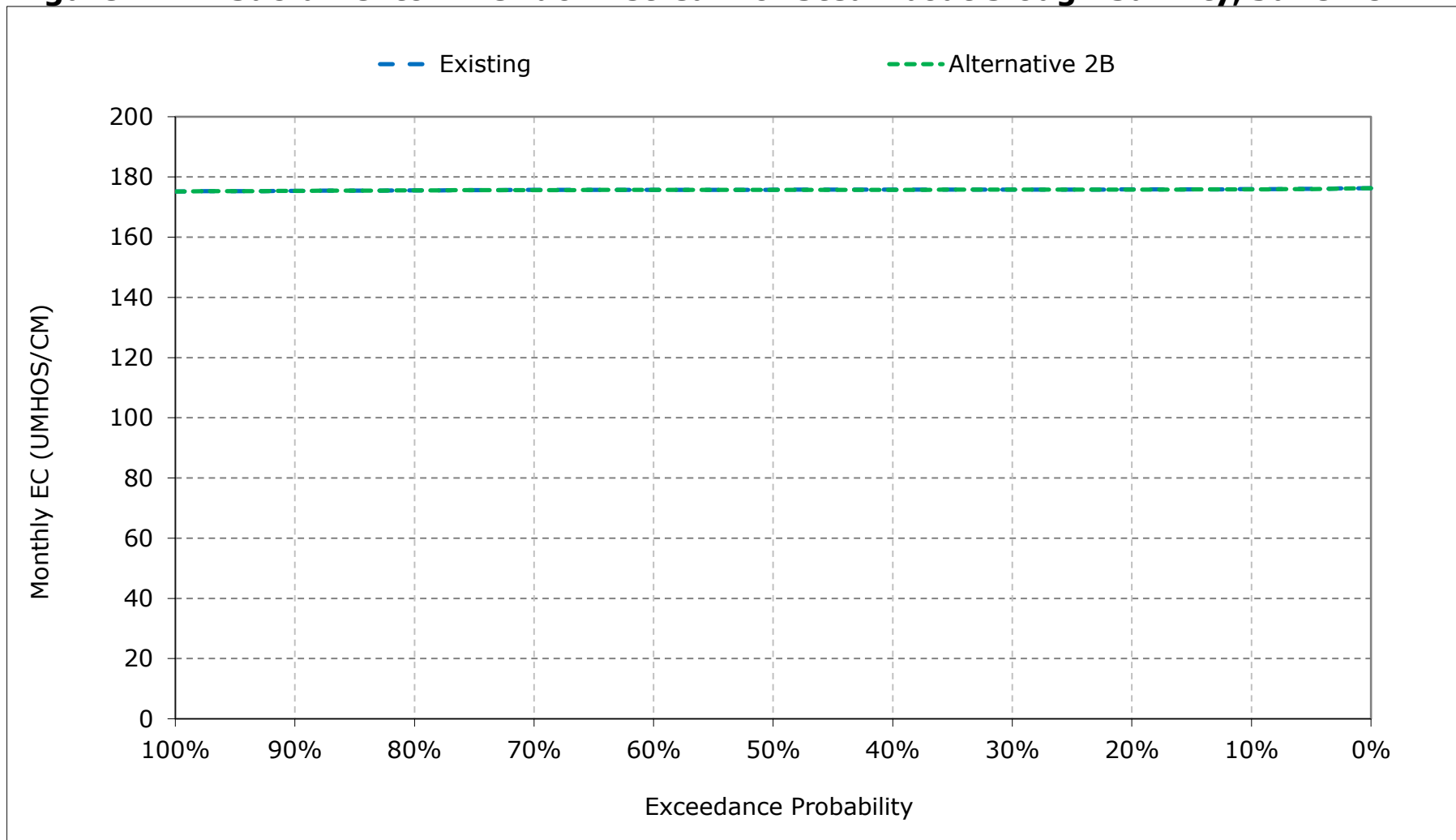
**Figure 1-10. Sacramento River downstream of Steamboat Slough Salinity, April EC**



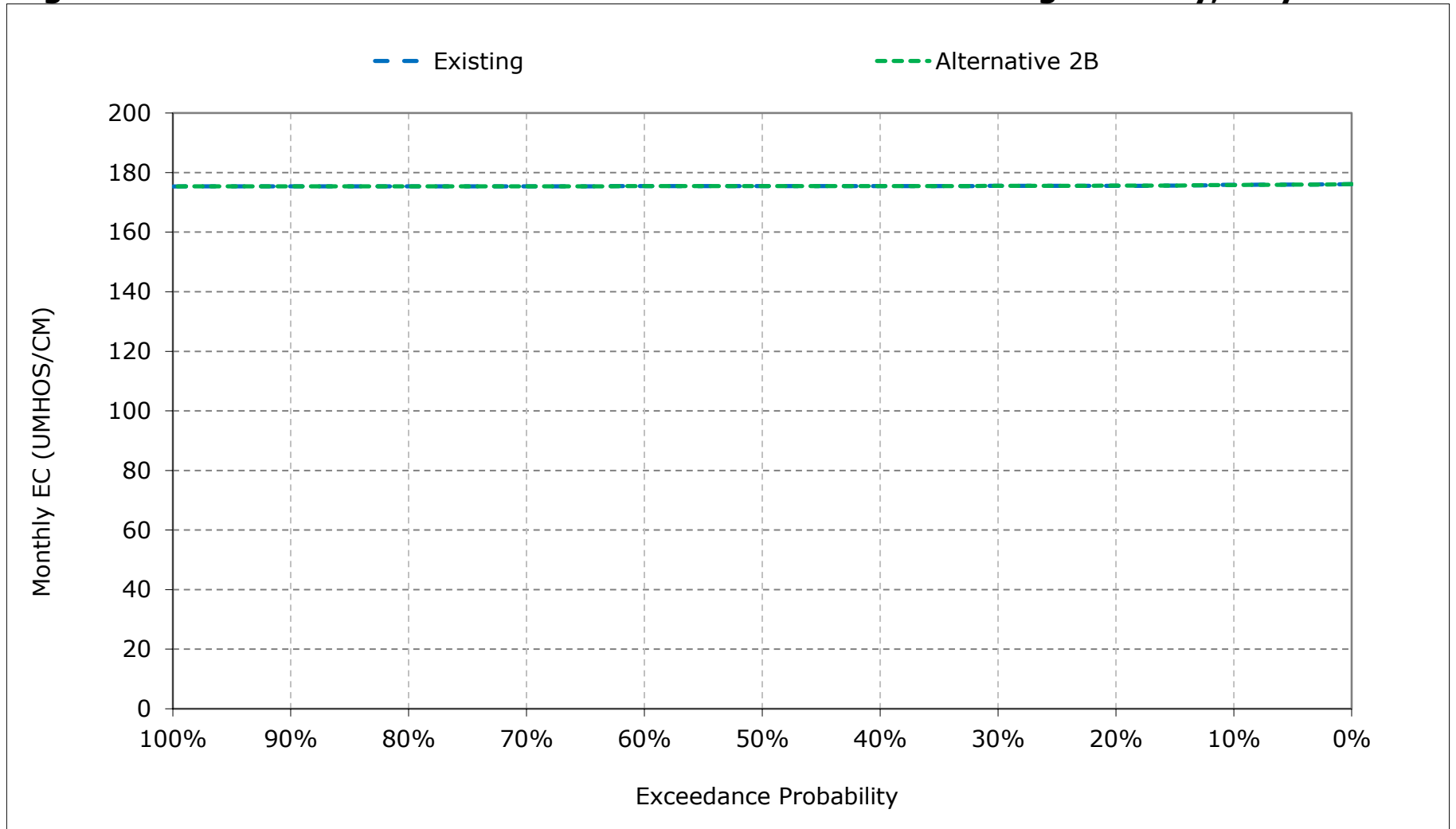
**Figure 1-11. Sacramento River downstream of Steamboat Slough Salinity, May EC**



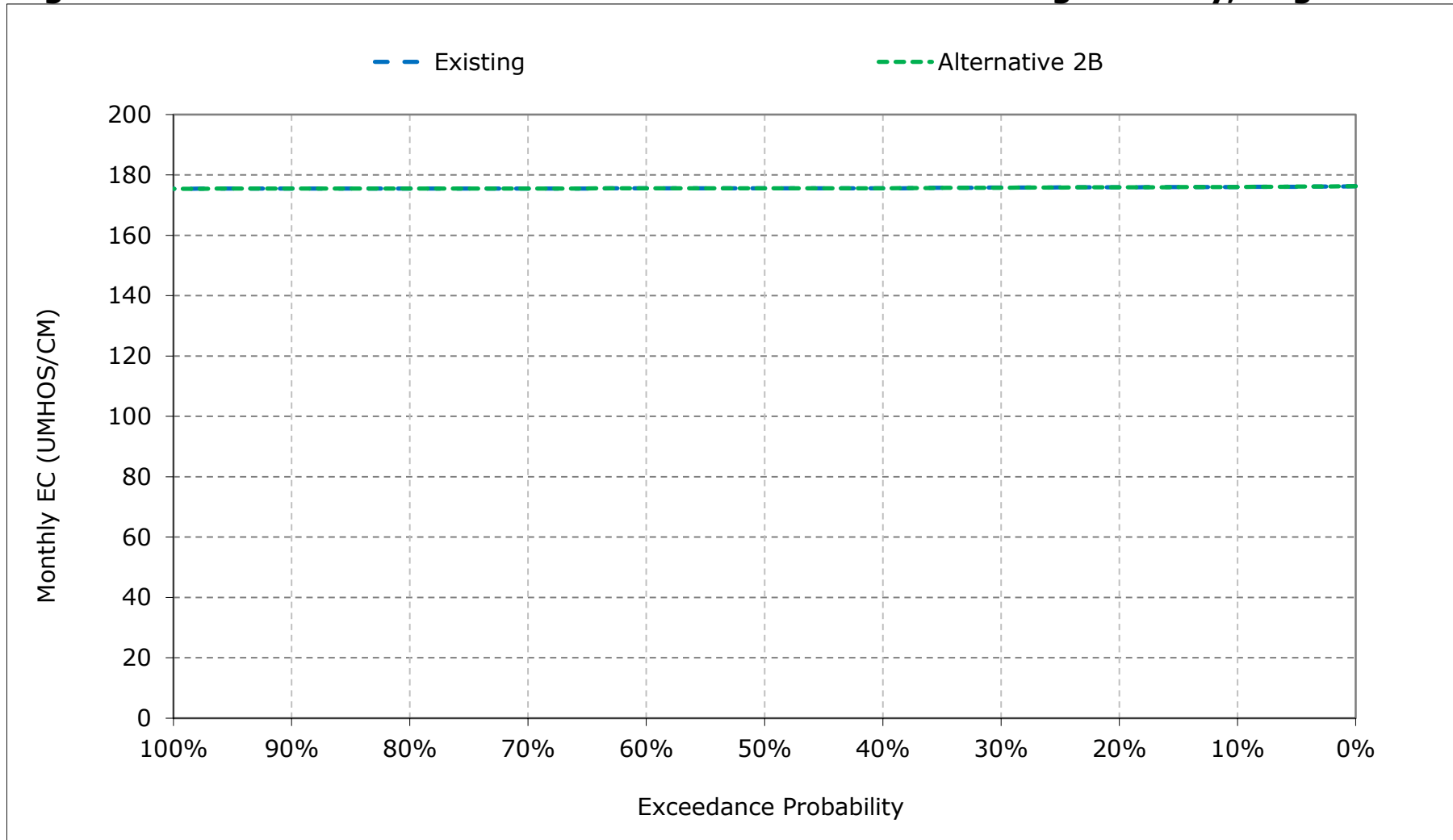
**Figure 1-12. Sacramento River downstream of Steamboat Slough Salinity, June EC**



**Figure 1-13. Sacramento River downstream of Steamboat Slough Salinity, July EC**

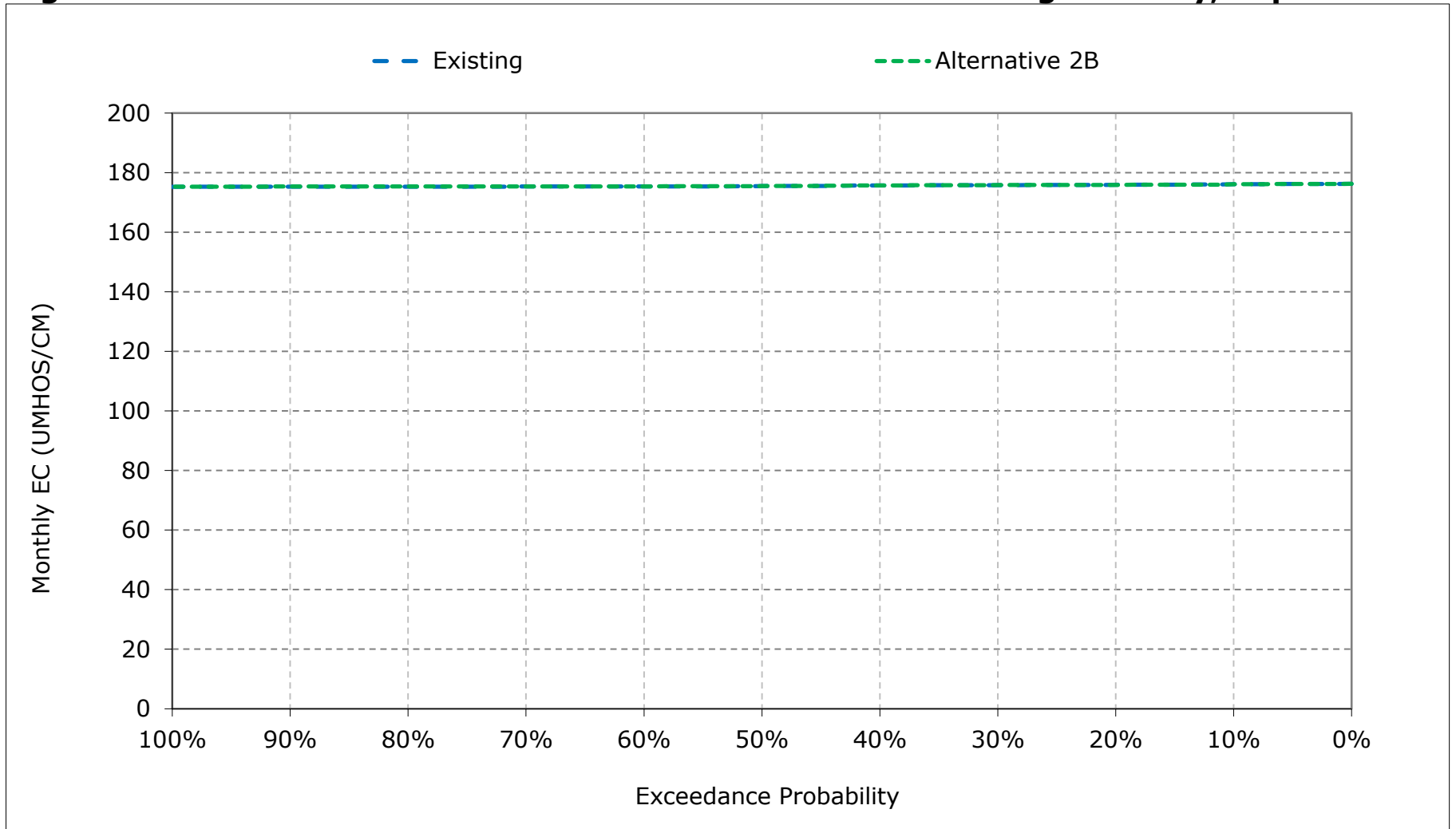


**Figure 1-14. Sacramento River downstream of Steamboat Slough Salinity, August EC**

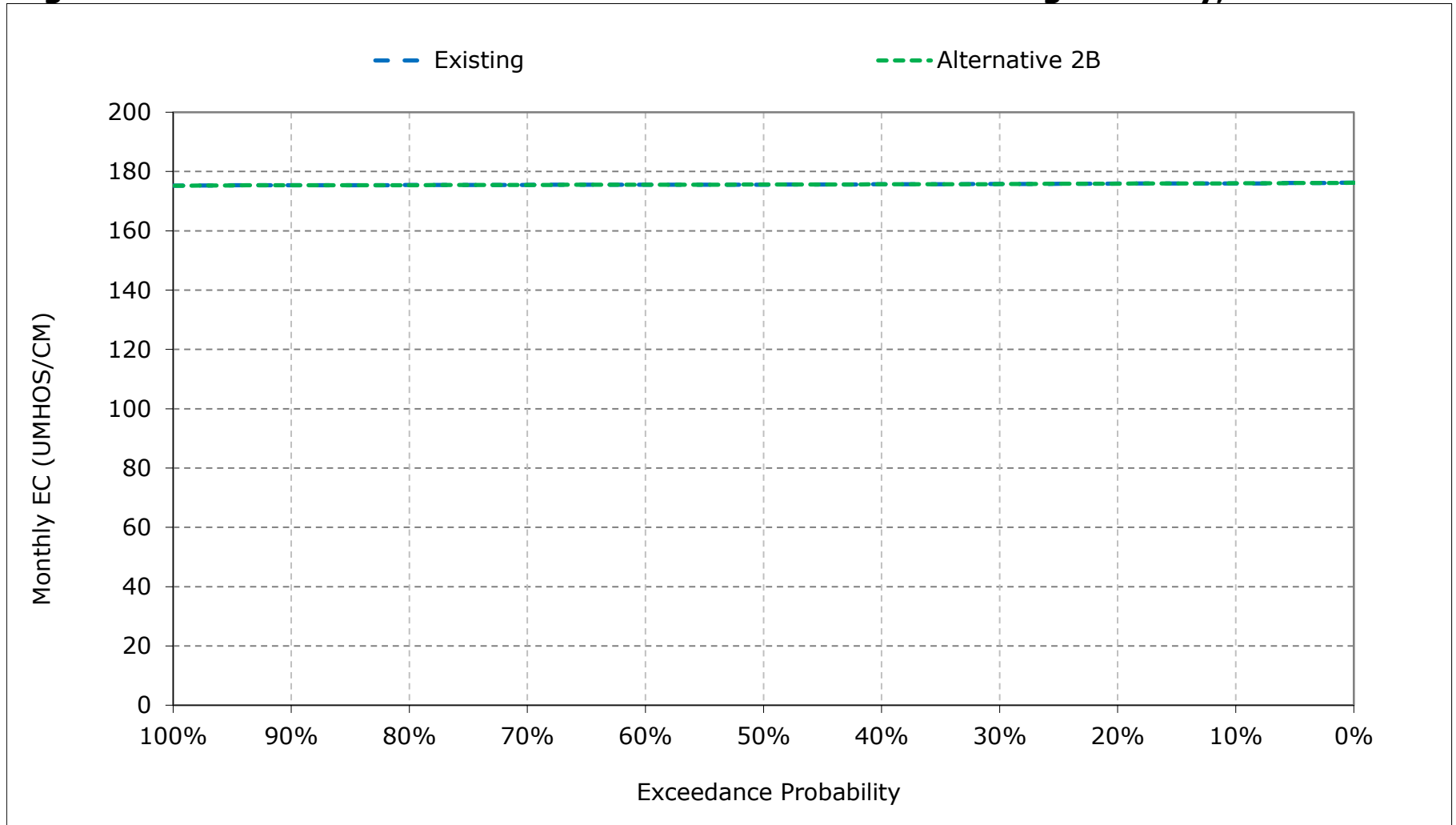




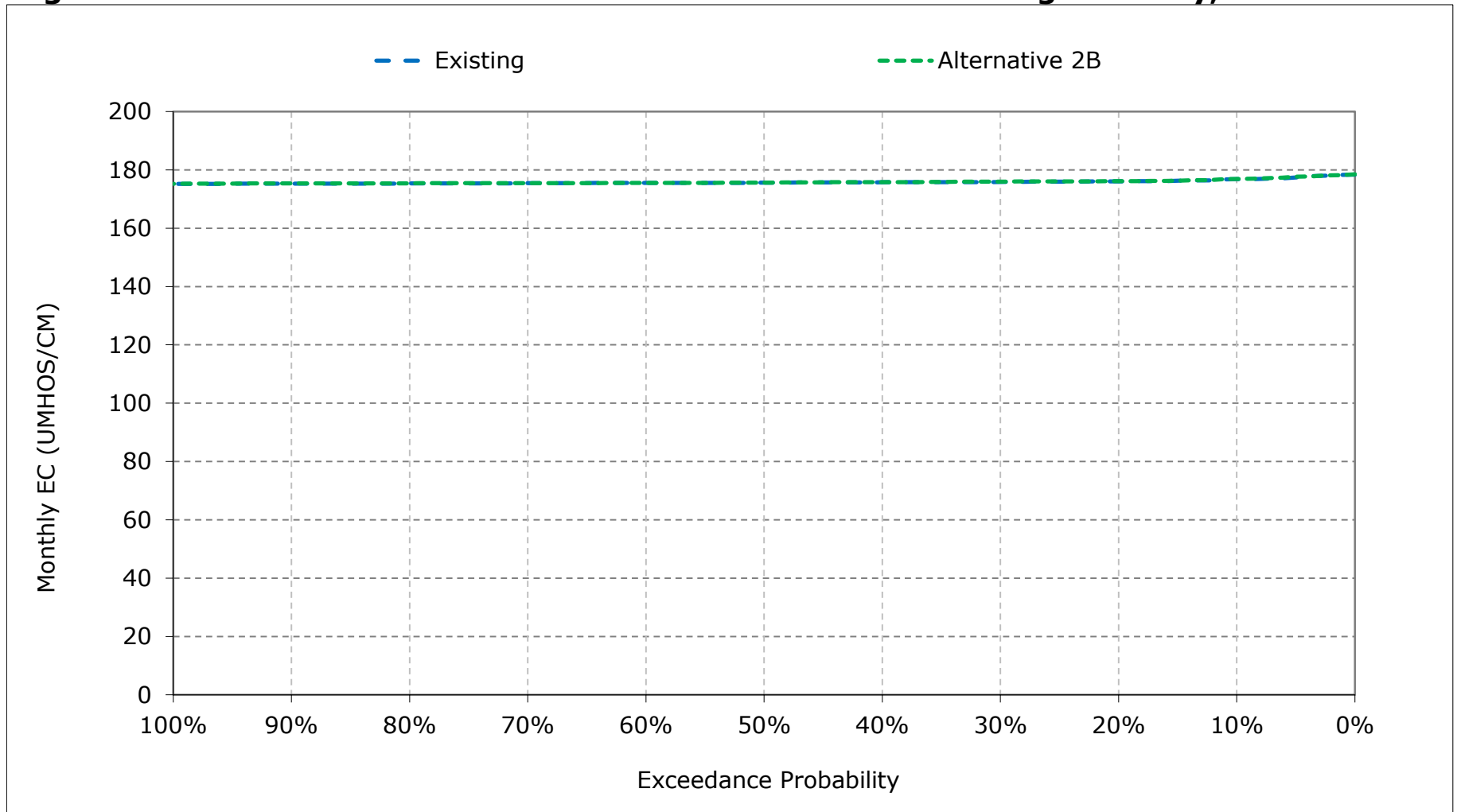
**Figure 1-15. Sacramento River downstream of Steamboat Slough Salinity, September EC**



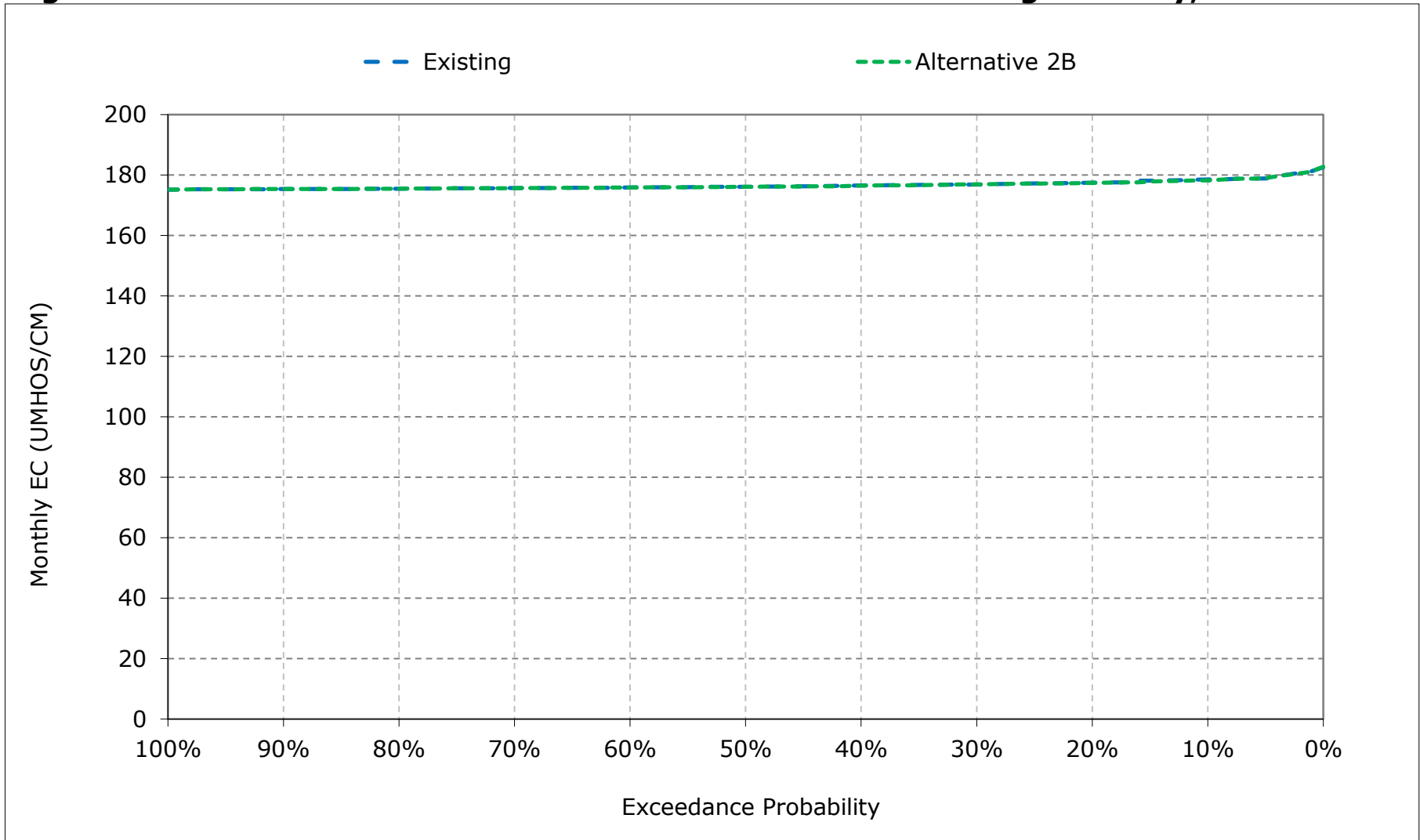
**Figure 1-16. Sacramento River downstream of Steamboat Slough Salinity, October EC**



**Figure 1-17. Sacramento River downstream of Steamboat Slough Salinity, November EC**



**Figure 1-18. Sacramento River downstream of Steamboat Slough Salinity, December EC**



**Table 2-1. Cache Slough at Ryer Island Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	189	190	191	203	201	194	187	184	184	185	186	187
20%	185	186	188	197	197	192	186	183	183	181	184	183
30%	184	184	186	193	192	190	185	183	182	181	183	182
40%	183	183	185	191	189	186	184	182	182	180	181	181
50%	181	181	184	190	188	185	183	182	182	180	180	180
60%	180	180	182	189	187	184	183	181	181	180	180	179
70%	180	180	181	187	185	183	182	180	181	180	180	179
80%	180	179	180	186	184	182	181	179	180	179	180	178
90%	179	179	180	184	182	181	180	178	179	179	179	178
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	183	183	185	192	190	187	184	181	182	181	182	181
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	181	181	183	190	184	183	182	180	180	180	180	178
Above Normal (15%)	183	183	185	194	192	185	182	180	181	180	180	179
Below Normal (17%)	183	182	186	193	193	189	184	182	181	180	180	180
Dry (22%)	184	185	185	193	193	188	185	183	182	181	184	183
Critical (15%)	185	187	186	191	193	190	186	184	185	186	186	188

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	188	190	191	202	200	194	187	184	184	185	186	186
20%	185	186	188	197	197	192	186	183	182	181	184	183
30%	184	184	186	194	192	190	185	182	182	181	183	182
40%	183	183	185	192	188	186	184	182	181	180	181	181
50%	181	182	184	190	187	185	183	181	181	180	180	180
60%	180	181	182	189	187	184	182	181	181	180	180	179
70%	180	181	181	187	185	183	182	180	181	180	180	179
80%	180	180	181	186	184	182	181	179	180	179	179	179
90%	179	179	180	183	182	180	180	178	178	179	179	178
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	183	184	185	192	190	187	183	181	181	181	181	181
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	181	182	183	190	184	183	182	180	180	180	180	179
Above Normal (15%)	182	184	185	193	192	185	182	180	181	180	179	179
Below Normal (17%)	183	182	186	192	192	189	184	181	181	180	180	181
Dry (22%)	184	185	185	193	193	188	185	182	182	181	183	183
Critical (15%)	185	187	187	192	193	190	186	184	185	186	186	187

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-1	0	0	-1	0	0	0	-1	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	-1	0	0	0	-1	0	0	0
50%	0	1	0	0	-1	0	0	0	0	0	0	0
60%	0	1	0	0	0	0	0	0	0	0	0	0
70%	0	1	0	0	0	0	0	0	0	0	0	0
80%	0	1	1	0	0	0	0	0	0	0	0	1
90%	0	1	0	-1	0	-1	0	0	0	0	0	1
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	0	1	0	0	0	0	0	0	0	0	0	1
Above Normal (15%)	0	1	0	0	0	0	0	0	0	0	0	0
Below Normal (17%)	0	0	0	-1	-1	0	0	0	0	0	0	0
Dry (22%)	0	0	0	0	0	0	0	-1	0	0	0	0
Critical (15%)	0	1	1	1	0	0	0	0	0	0	0	0

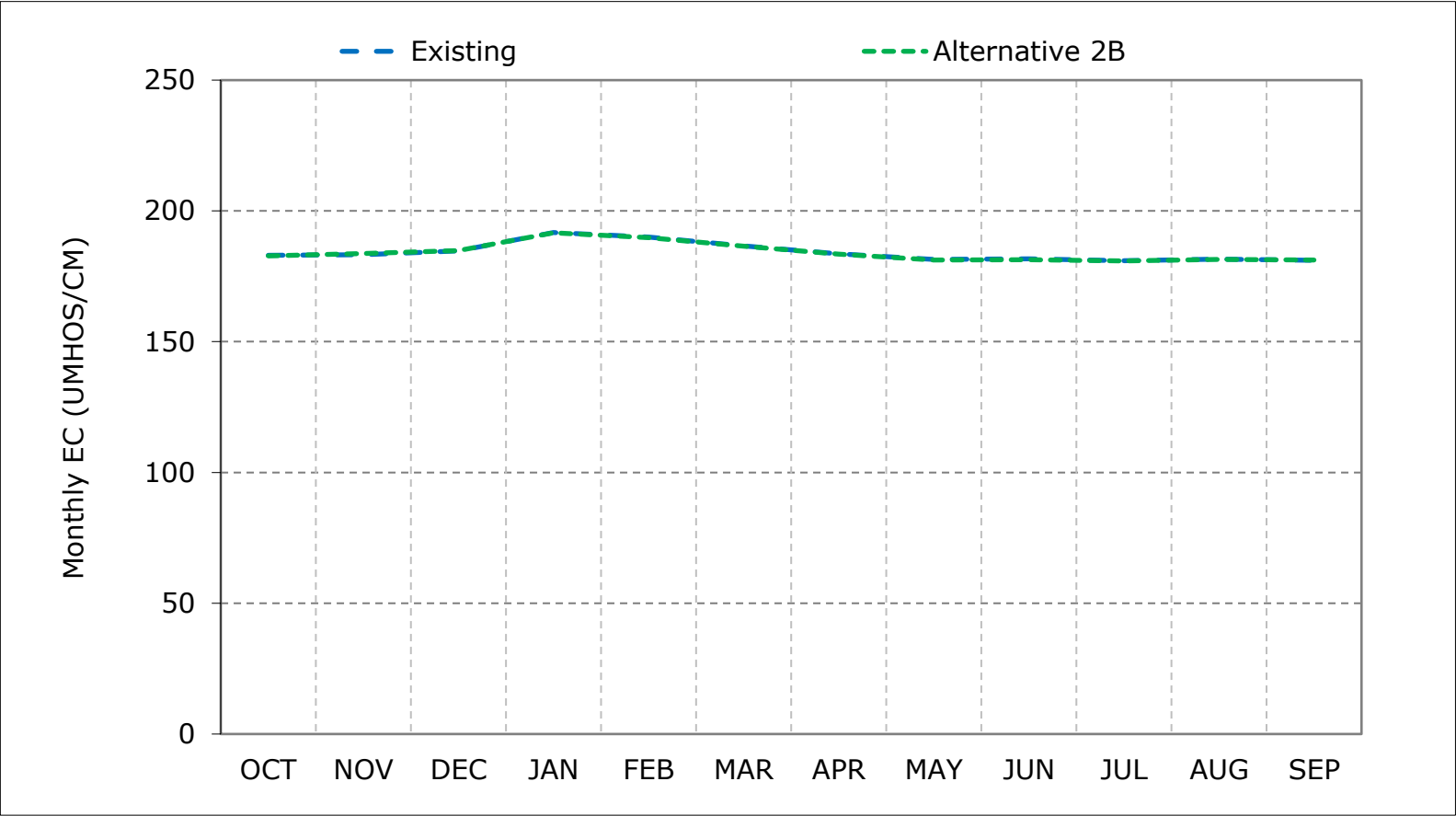
a Based on the 82-year simulation period.

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 water year - year type sorting.

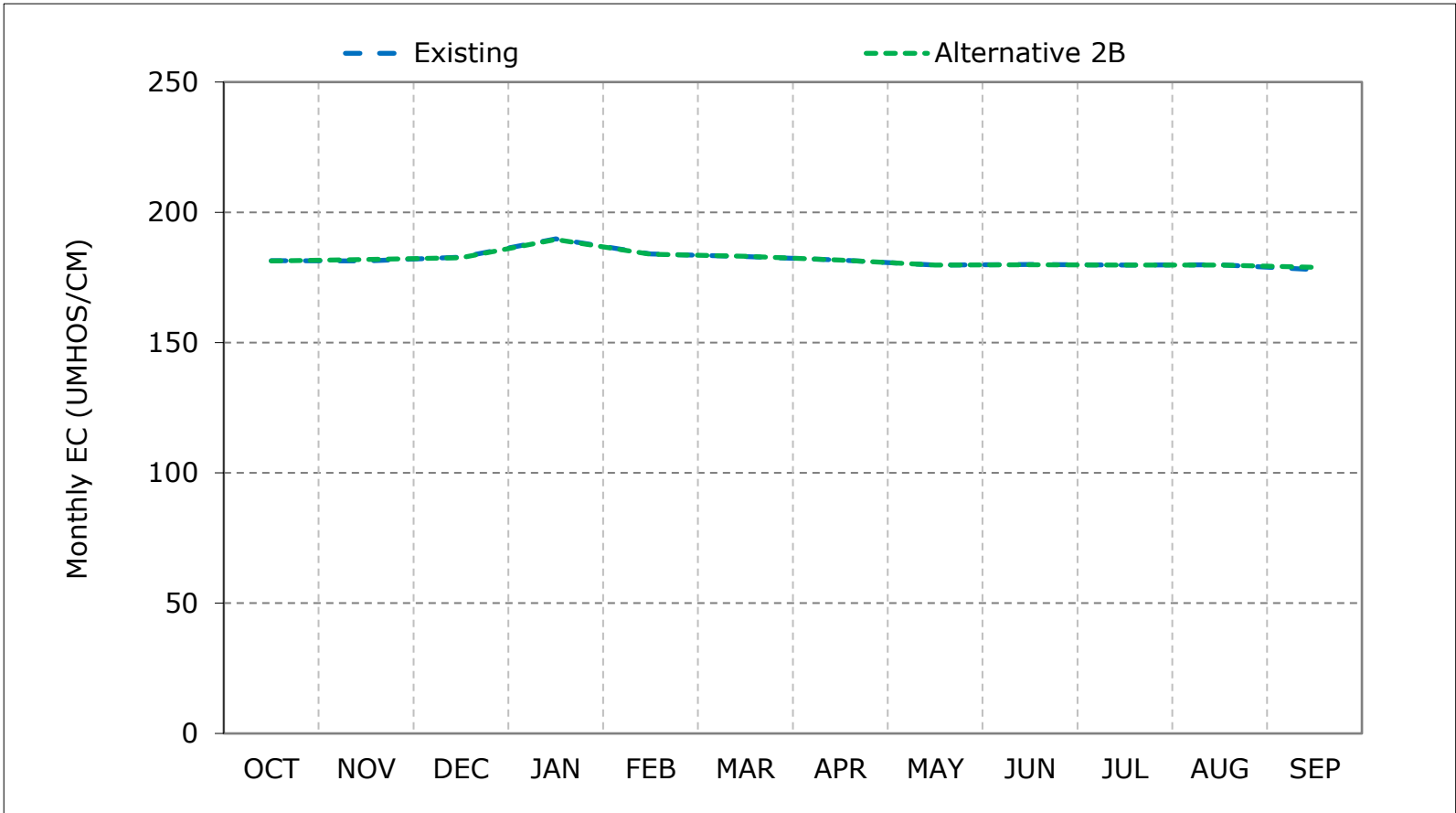
d Positive differences are highted in red color which indicate increase in Salinity (EC).

**Figure 2-1. Cache Slough at Ryer Island Salinity, Long-Term Average EC**



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

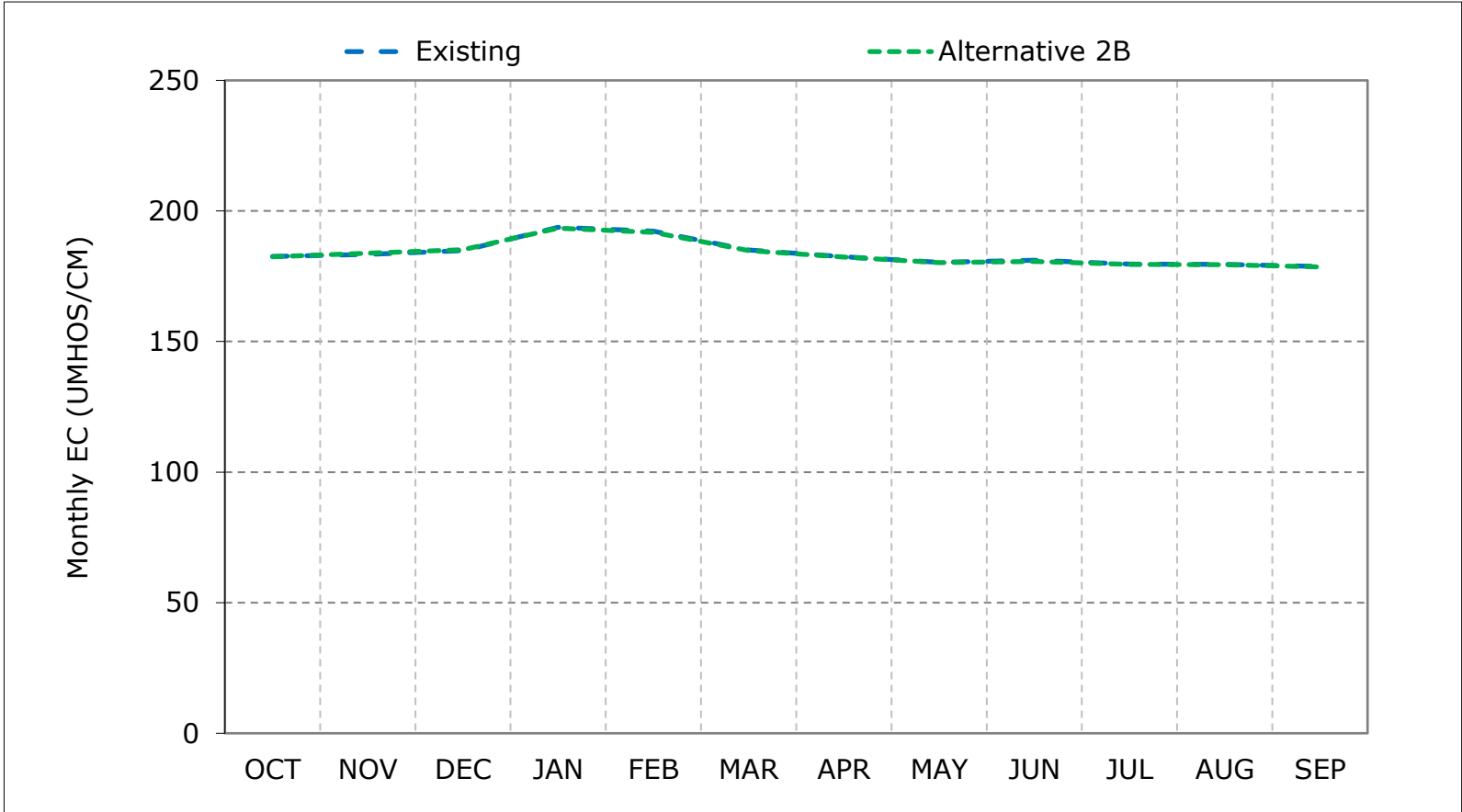
**Figure 2-2. Cache Slough at Ryer Island Salinity, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 2-3. Cache Slough at Ryer Island Salinity, Above Normal Year Average EC**

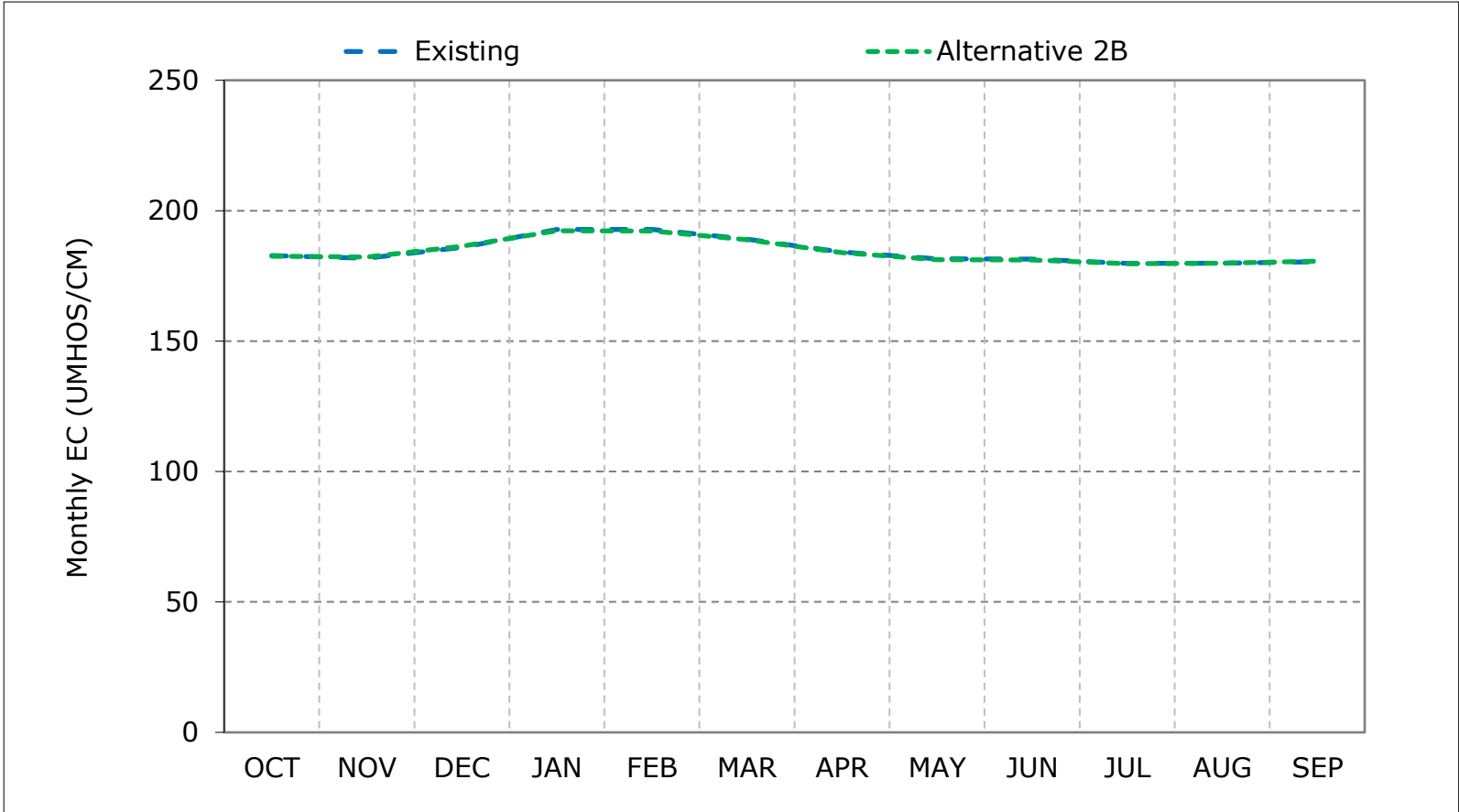


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



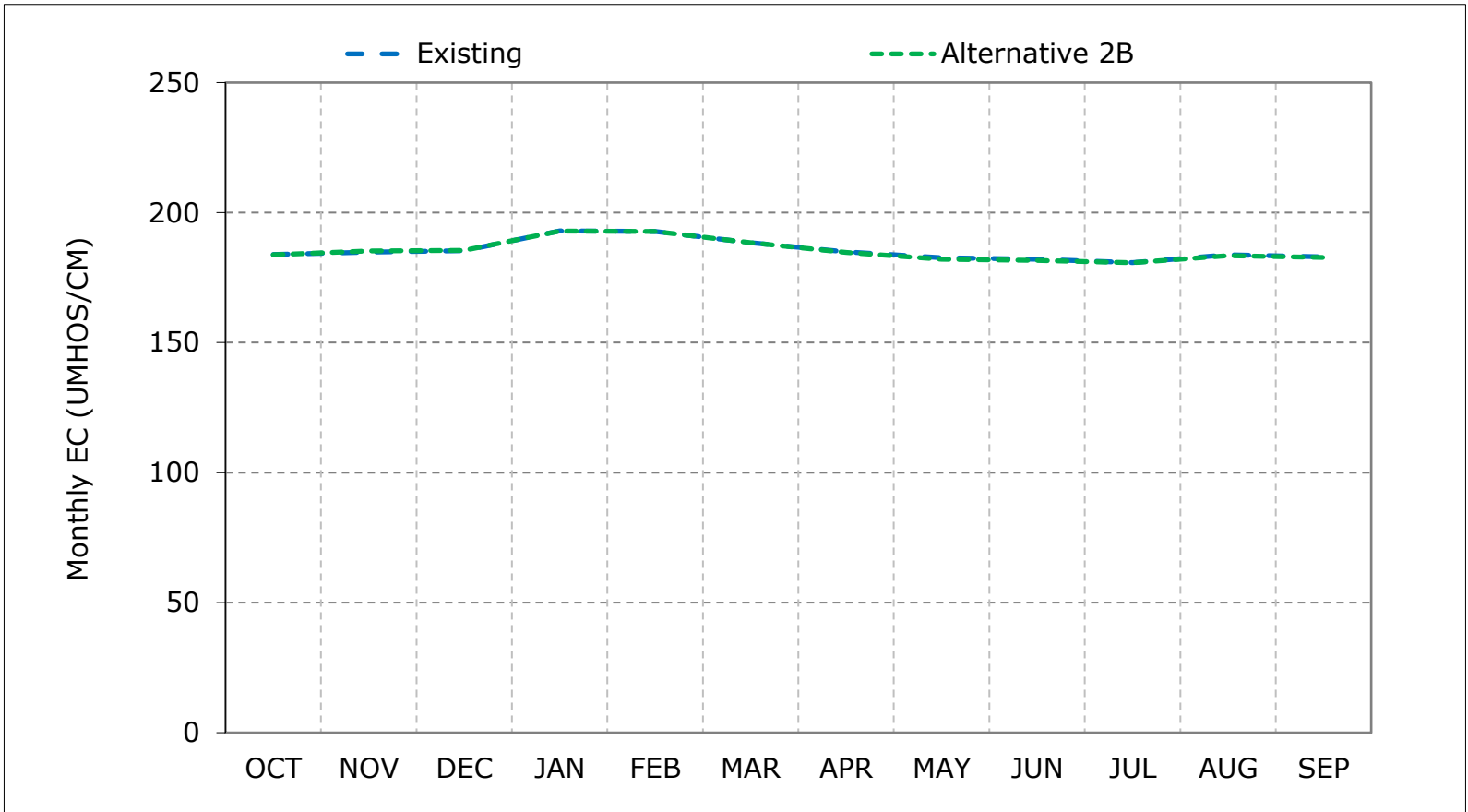
**Figure 2-4. Cache Slough at Ryer Island Salinity, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

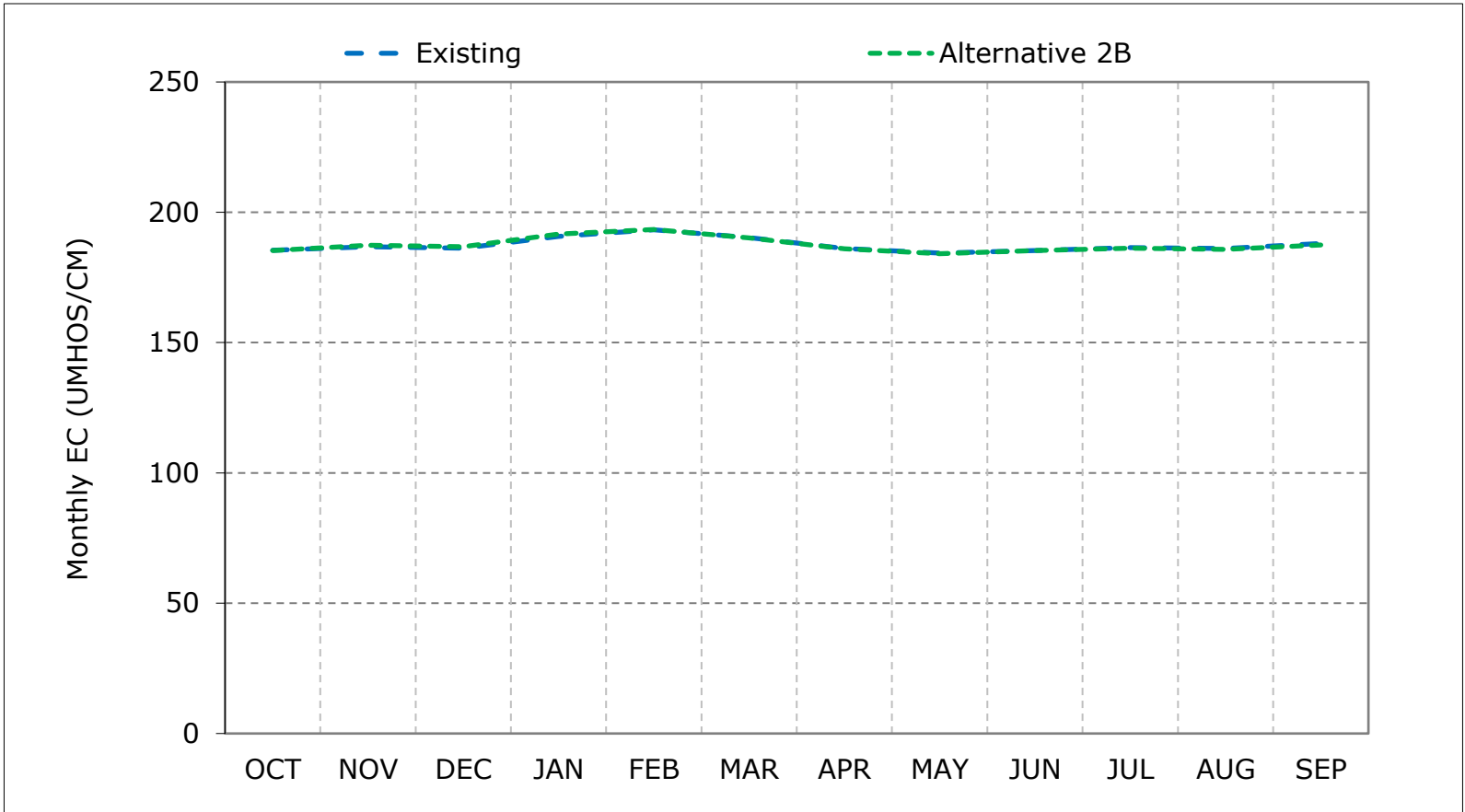
**Figure 2-5. Cache Slough at Ryer Island Salinity, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

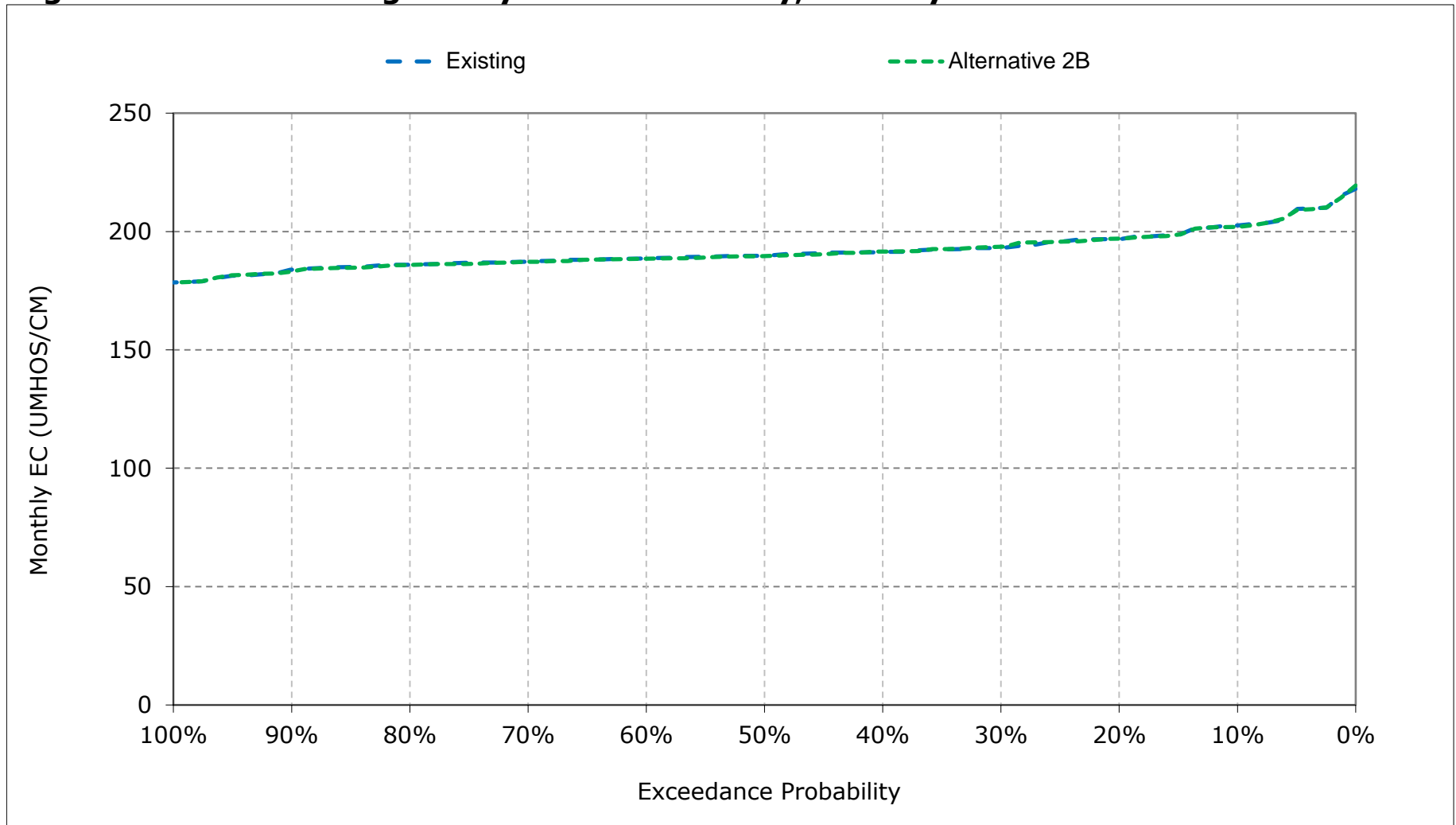
**Figure 2-6. Cache Slough at Ryer Island Salinity, Critical Year Average EC**



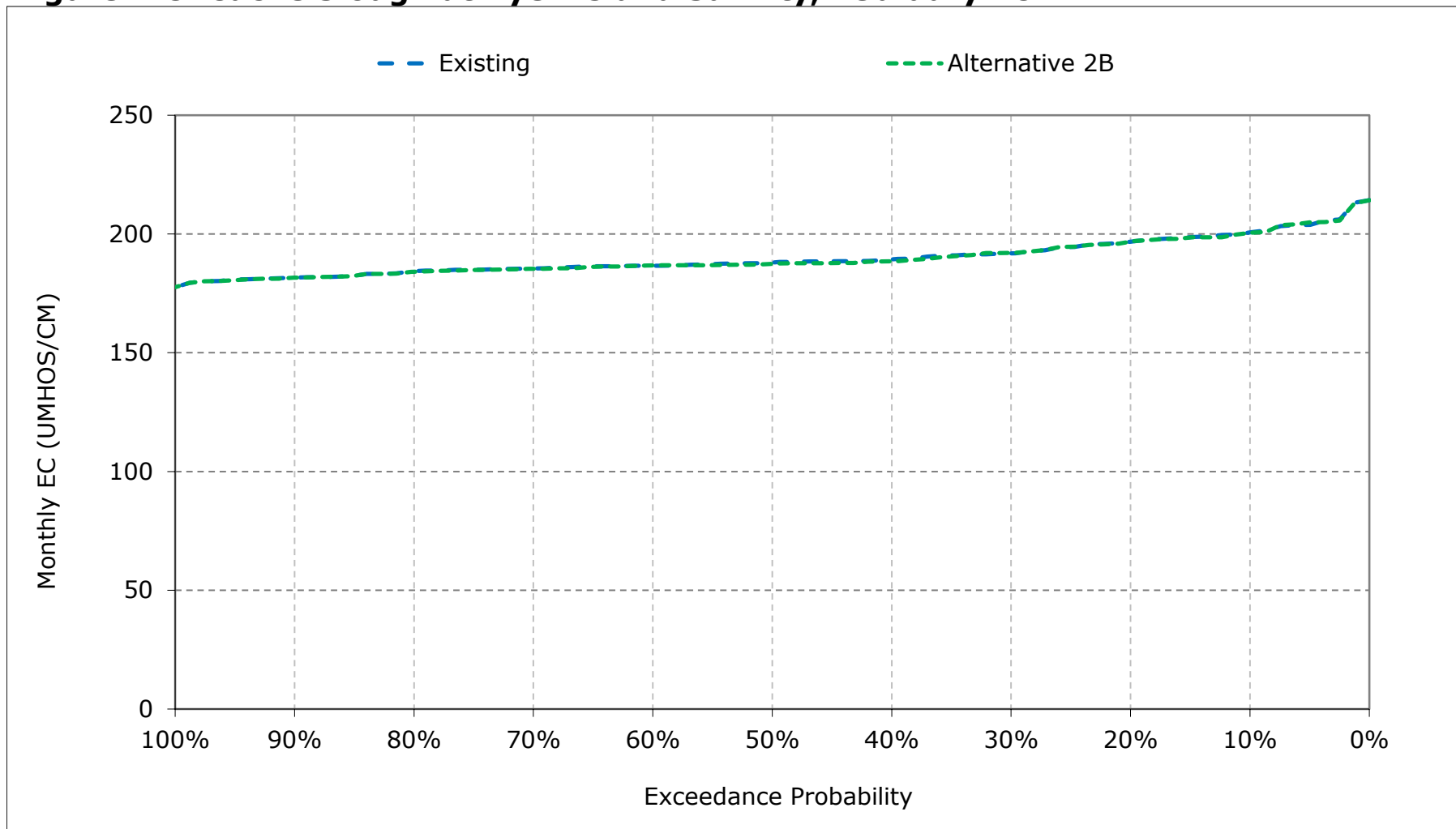
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

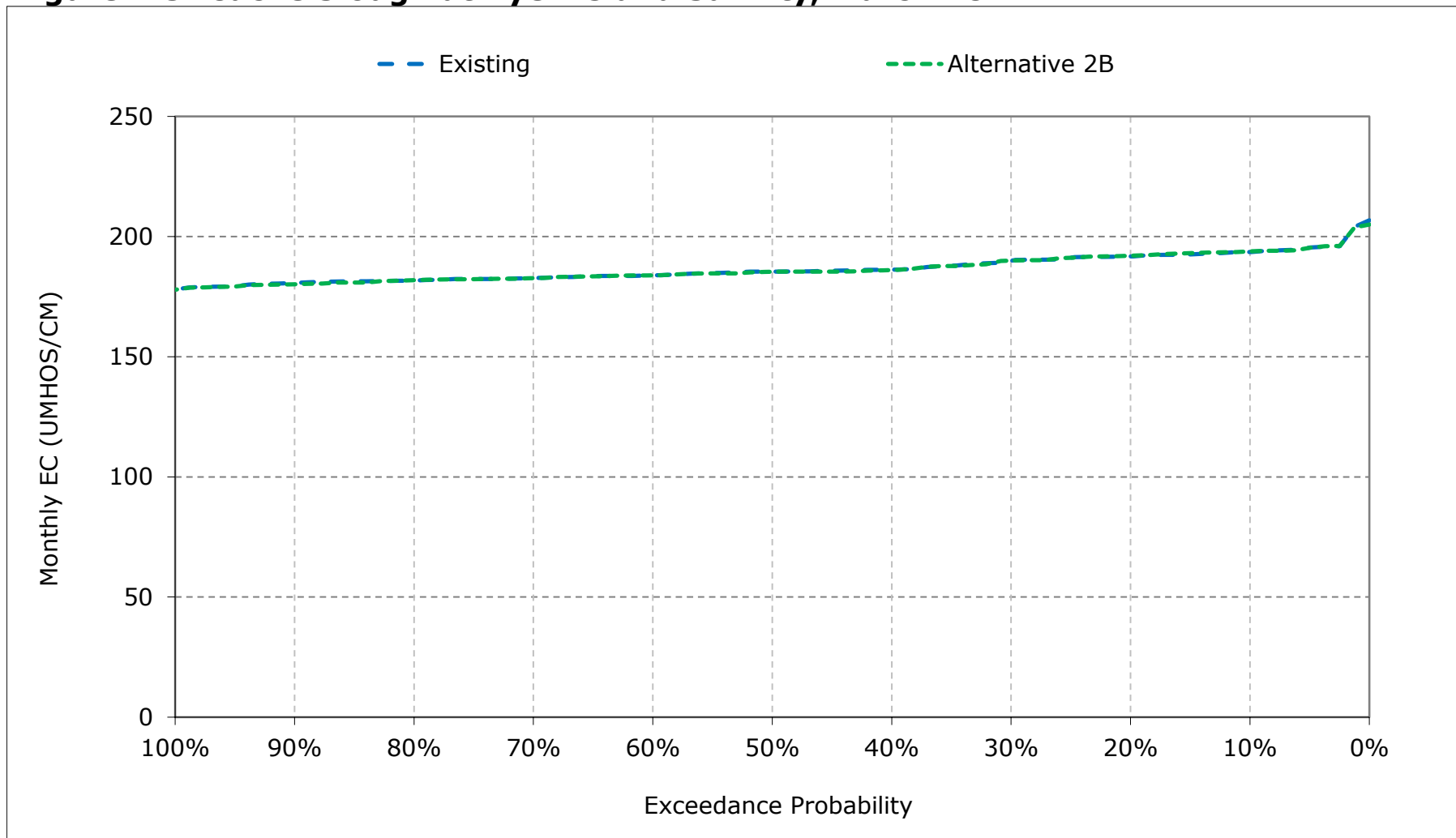
**Figure 2-7. Cache Slough at Ryer Island Salinity, January EC**



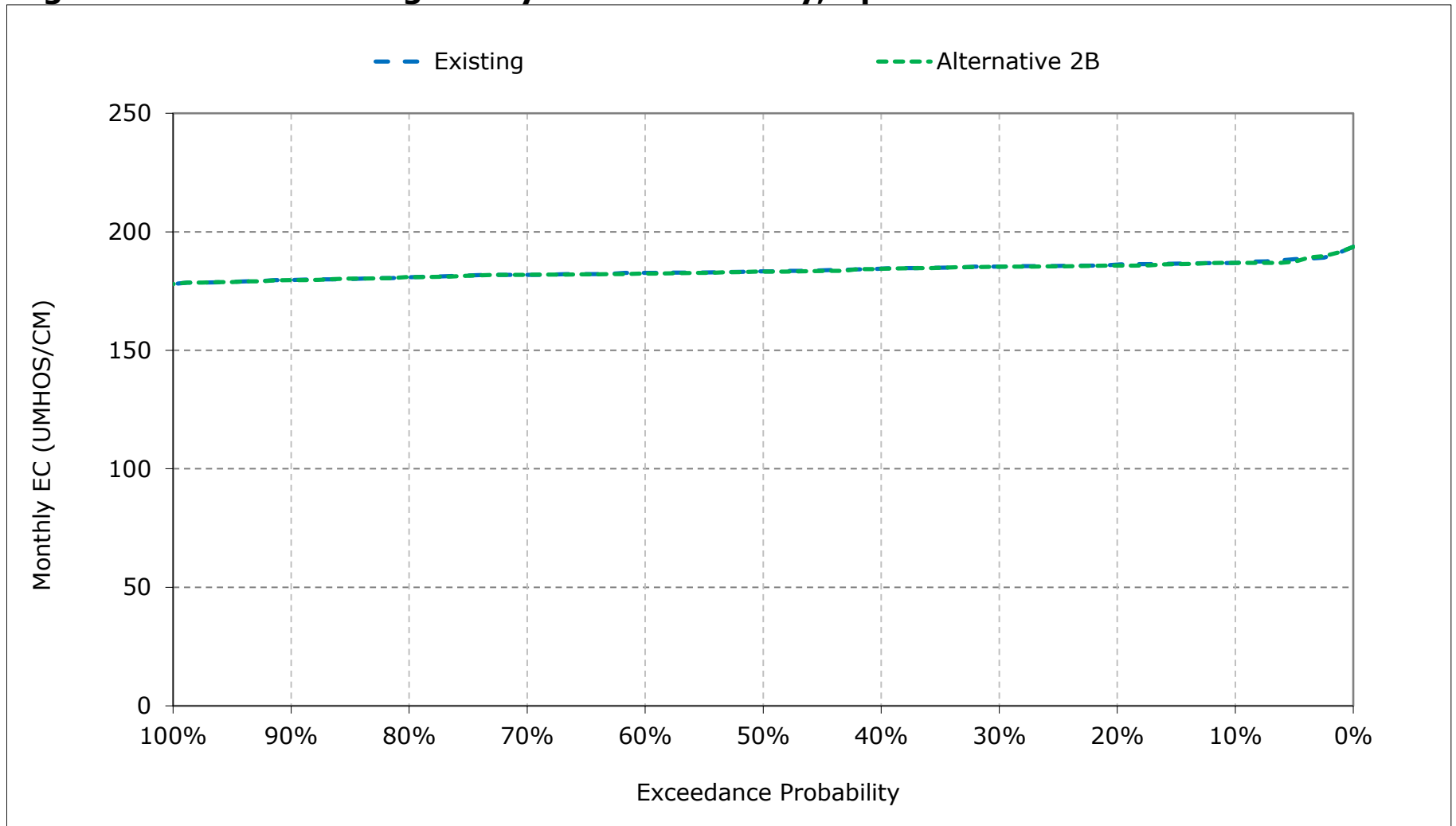
**Figure 2-8. Cache Slough at Ryer Island Salinity, February EC**



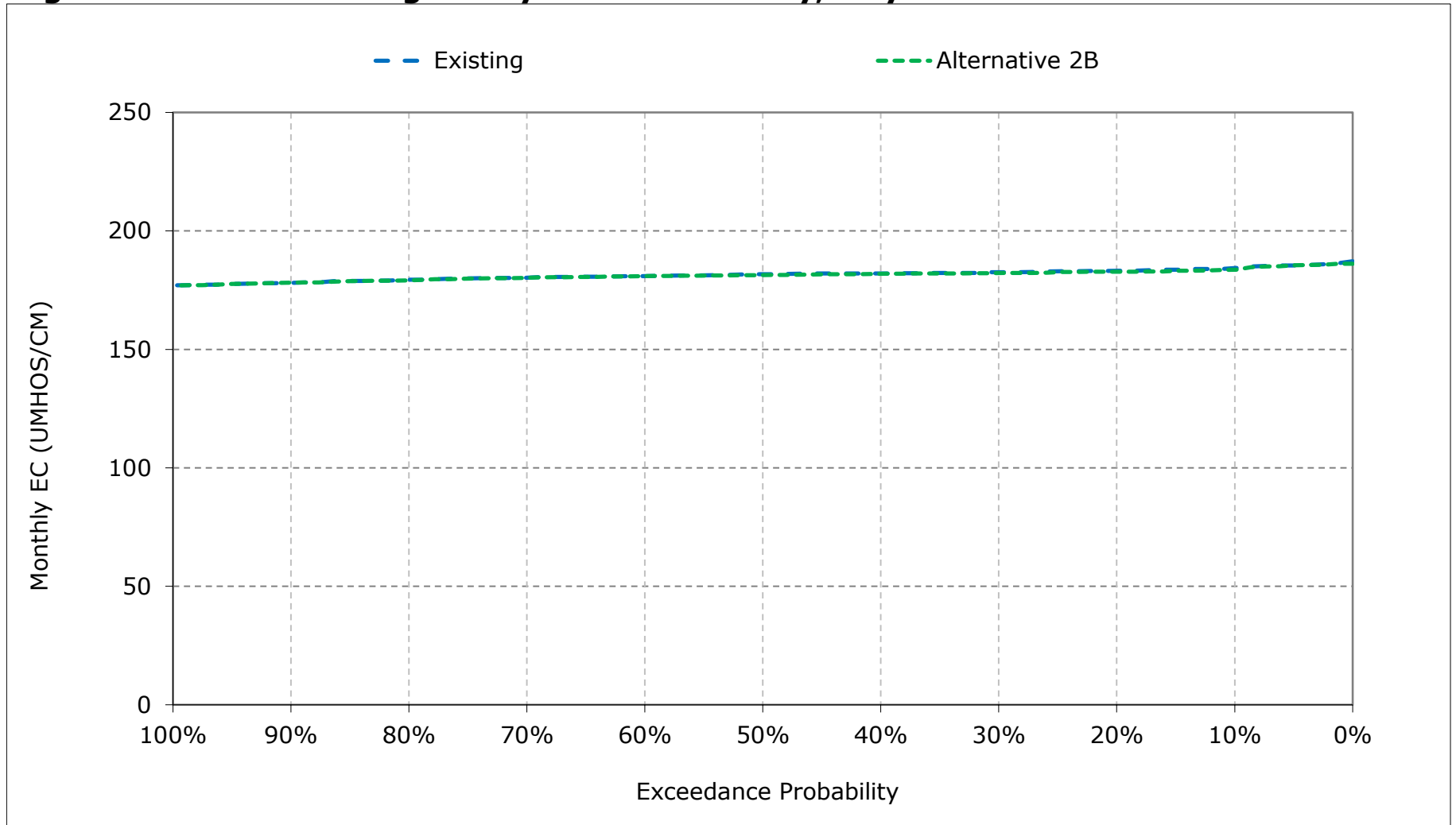
**Figure 2-9. Cache Slough at Ryer Island Salinity, March EC**



**Figure 2-10. Cache Slough at Ryer Island Salinity, April EC**

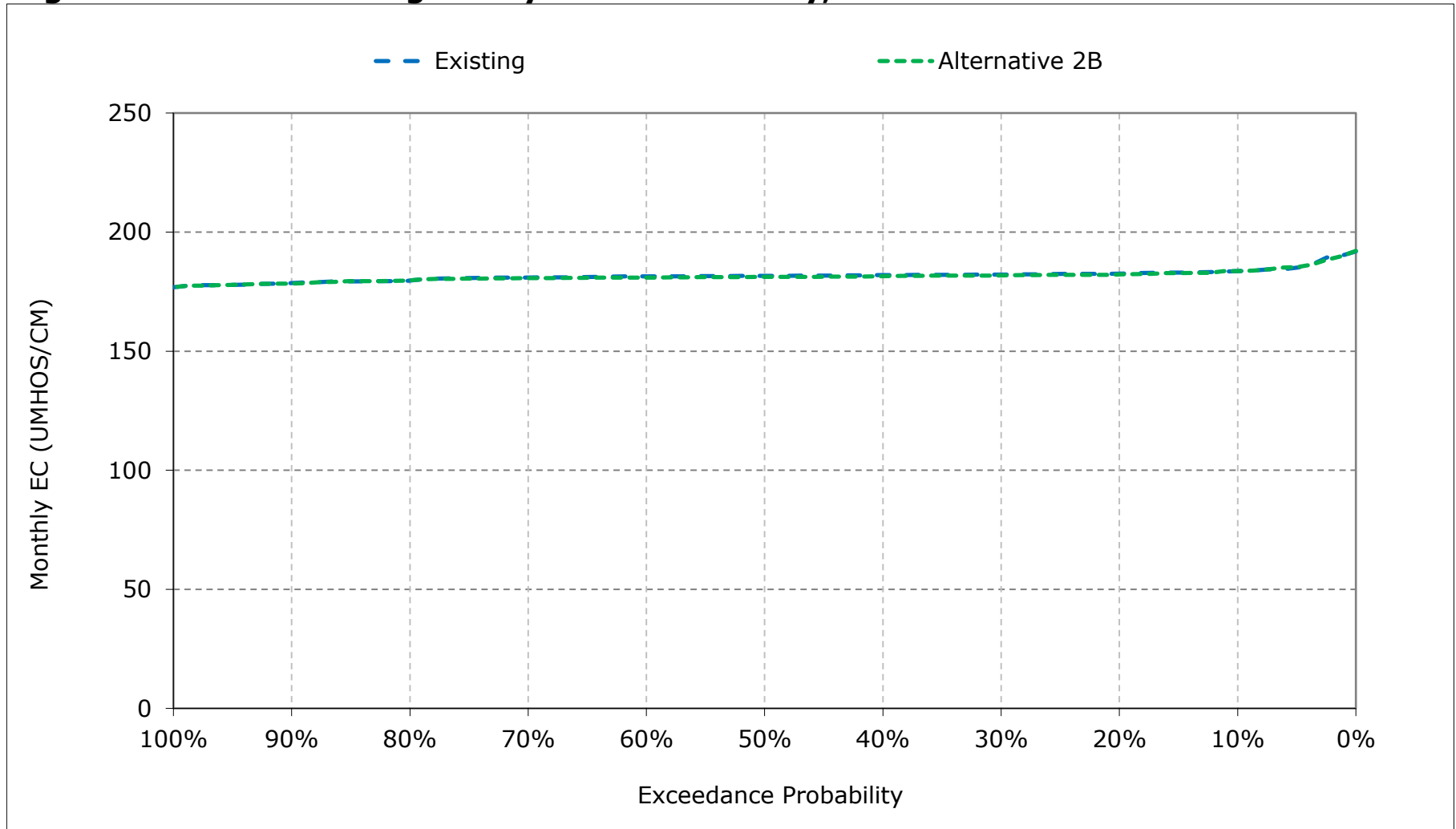


**Figure 2-11. Cache Slough at Ryer Island Salinity, May EC**

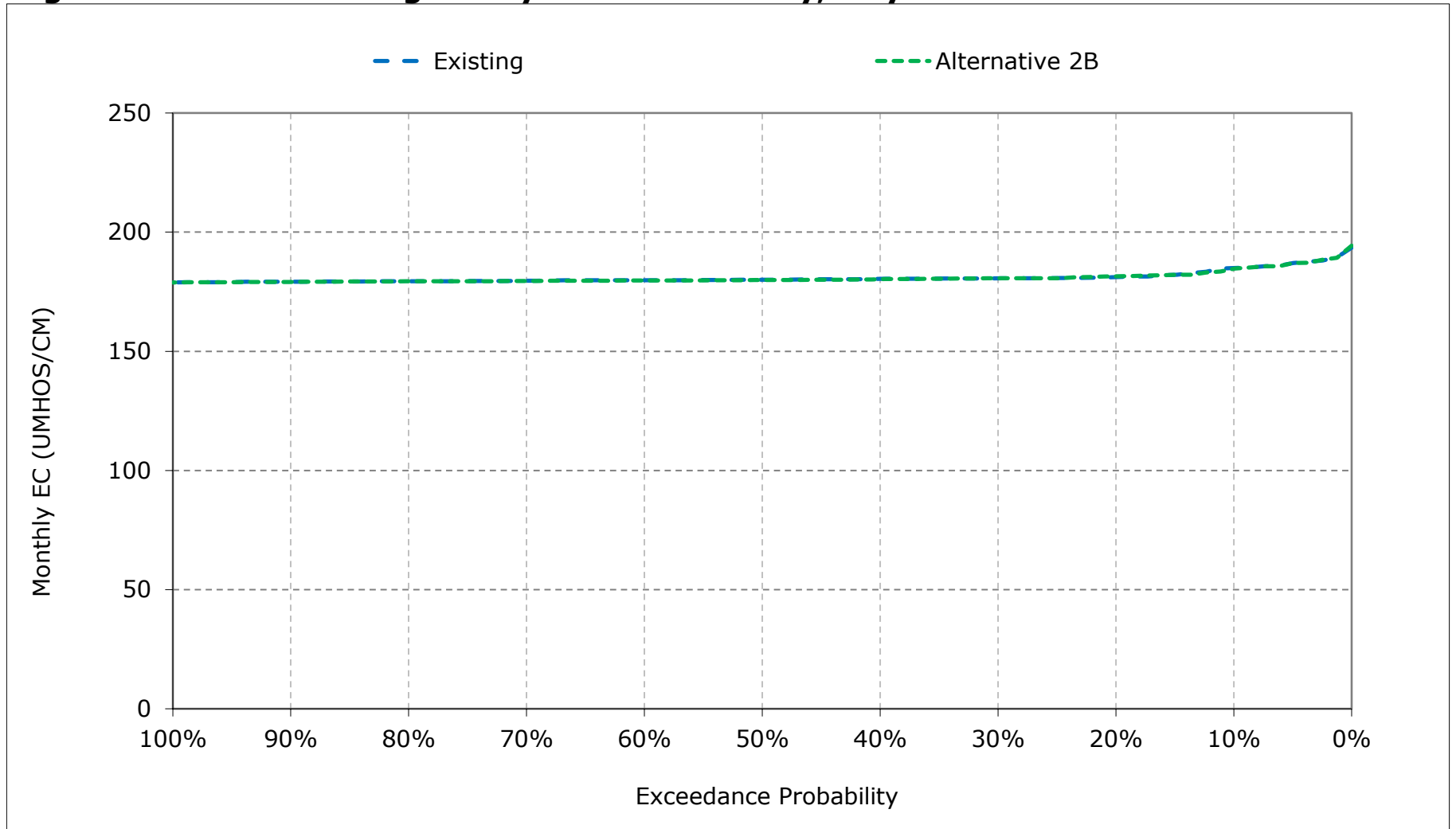




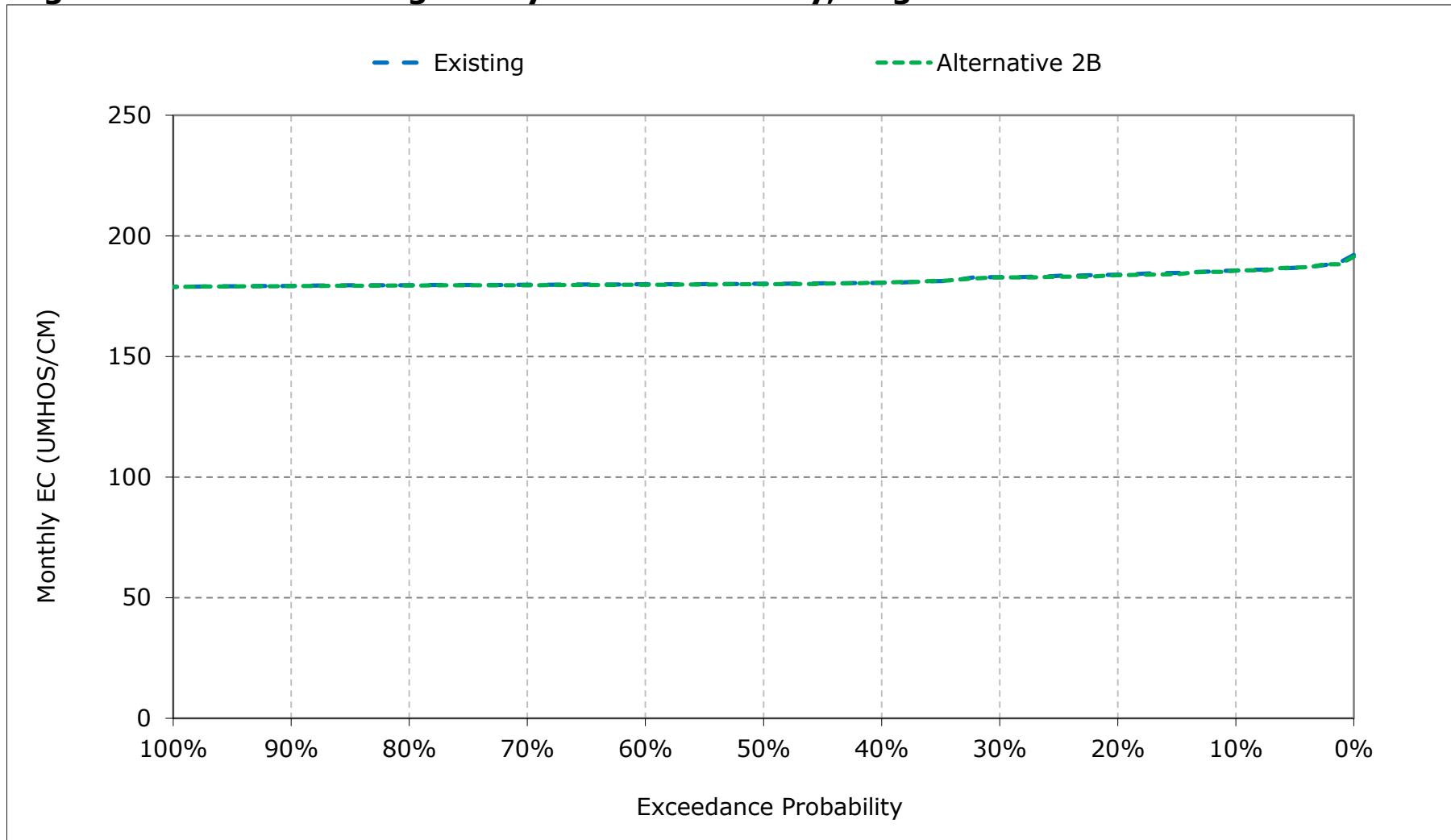
**Figure 2-12. Cache Slough at Ryer Island Salinity, June EC**



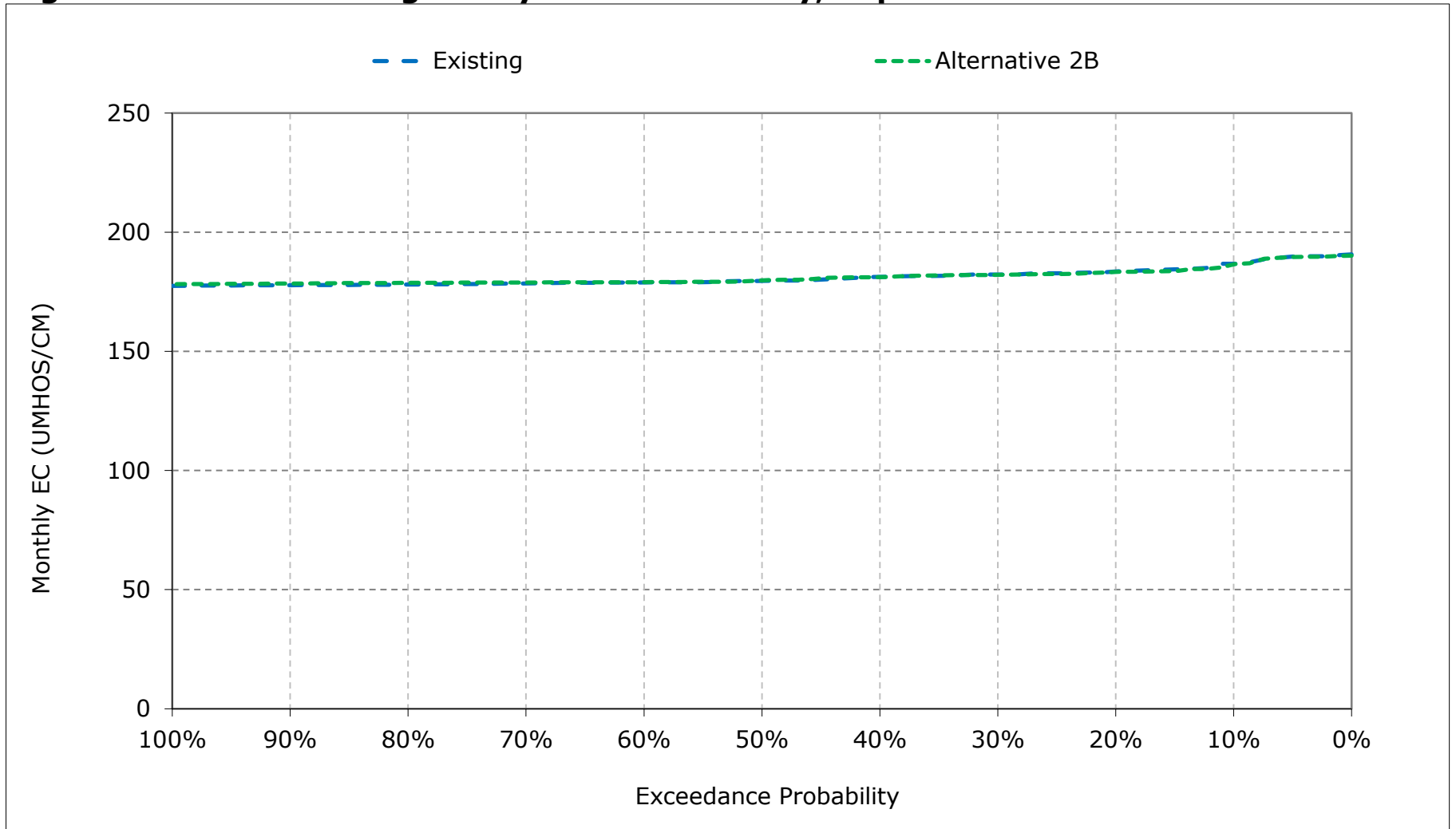
**Figure 2-13. Cache Slough at Ryer Island Salinity, July EC**



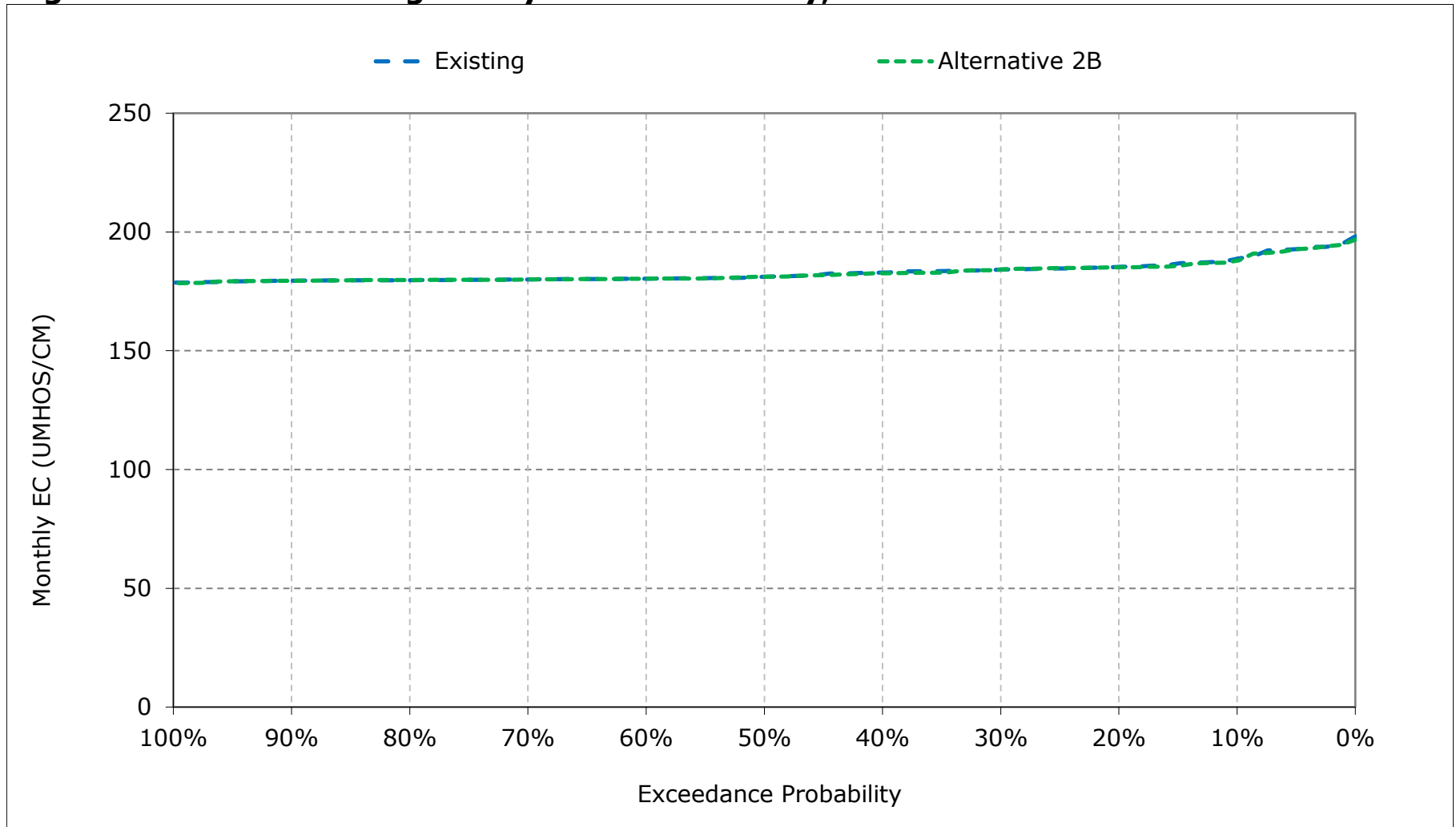
**Figure 2-14. Cache Slough at Ryer Island Salinity, August EC**



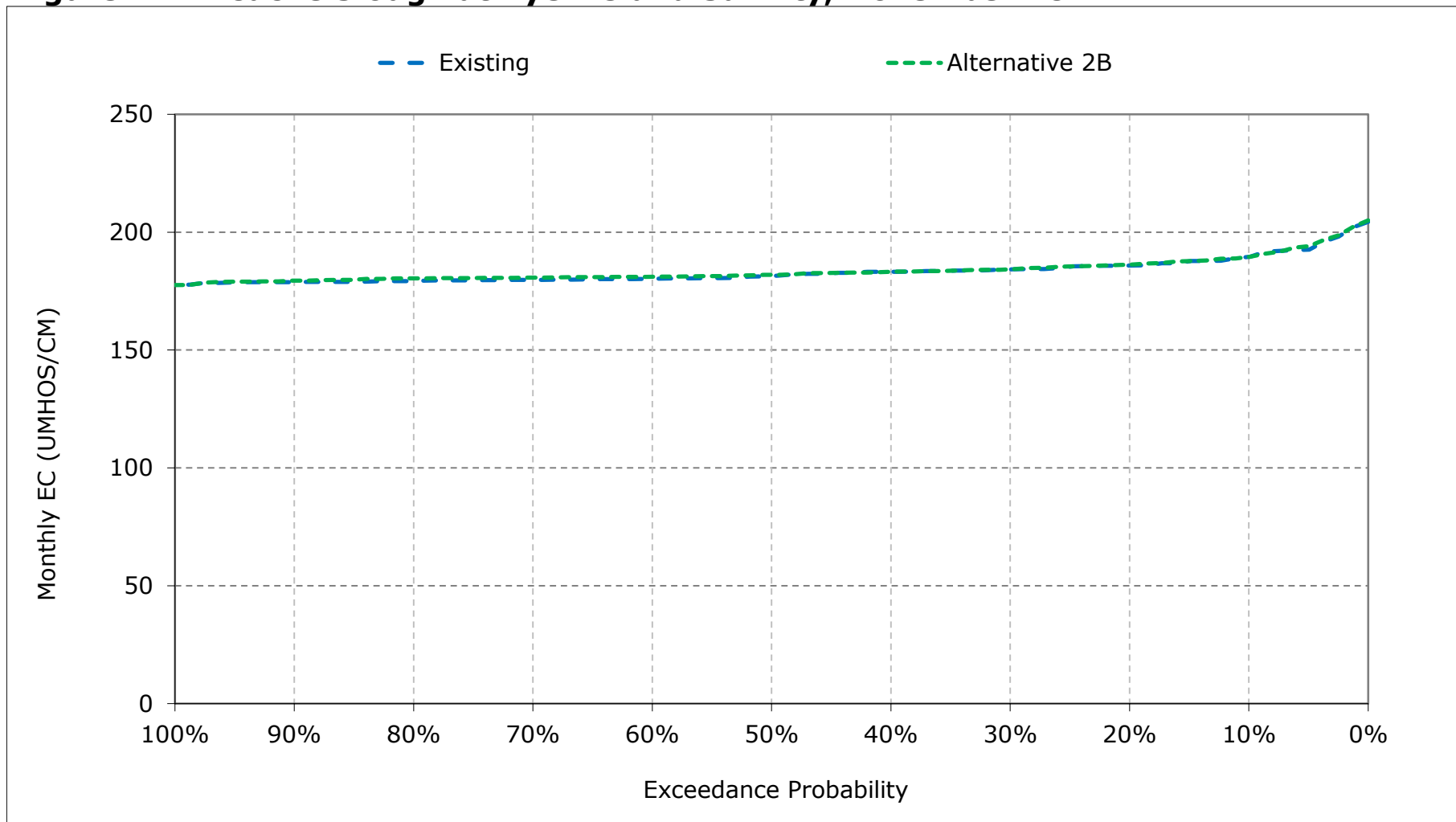
**Figure 2-15. Cache Slough at Ryer Island Salinity, September EC**



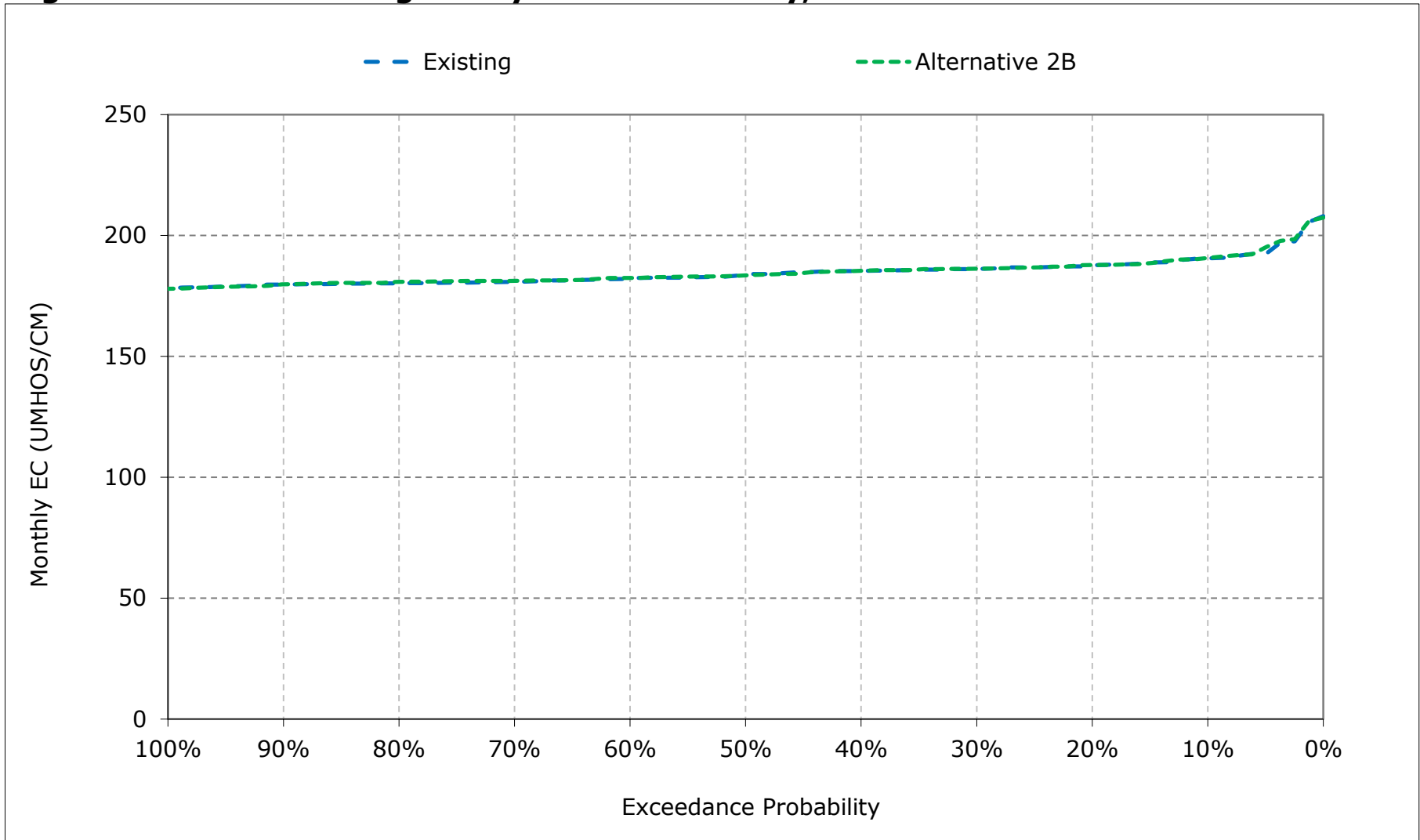
**Figure 2-16. Cache Slough at Ryer Island Salinity, October EC**



**Figure 2-17. Cache Slough at Ryer Island Salinity, November EC**



**Figure 2-18. Cache Slough at Ryer Island Salinity, December EC**



**Table 3-1. Sacramento River downstream of Georgiana Slough Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	176	177	179	181	179	177	176	176	176	176	176	176
20%	176	176	178	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	177	179	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	176	175	176
60%	176	176	176	178	177	176	176	176	176	176	175	176
70%	176	175	176	178	176	176	176	175	176	175	176	175
80%	176	175	176	177	176	176	175	175	176	175	176	175
90%	175	175	175	177	176	175	175	175	175	175	176	175
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	176	176	177	179	177	176	176	176	176	176	176	176
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	176	176	177	178	177	176	176	175	176	175	176	175
Above Normal (15%)	176	176	177	179	177	176	176	176	176	175	176	175
Below Normal (17%)	176	176	177	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	177	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	176	179	177	177	176	176	176	176	176	176

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	178	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	176	176	176
40%	176	176	177	179	177	176	176	176	176	176	176	176
50%	176	176	176	178	177	176	176	176	176	175	176	176
60%	176	176	176	178	177	176	176	176	176	175	176	175
70%	176	176	176	178	176	176	176	175	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	176	175
90%	175	175	175	177	176	175	175	175	175	175	176	175
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	176	176	177	178	177	176	176	176	176	176	176	176
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	176	176	177	178	177	176	176	175	176	175	176	175
Above Normal (15%)	176	176	177	178	177	176	176	176	176	175	176	175
Below Normal (17%)	176	176	177	179	177	176	176	176	176	175	176	176
Dry (22%)	176	176	177	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	176	179	177	177	176	176	176	176	176	176

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
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
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Water Year Types<sup>b</sup></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.

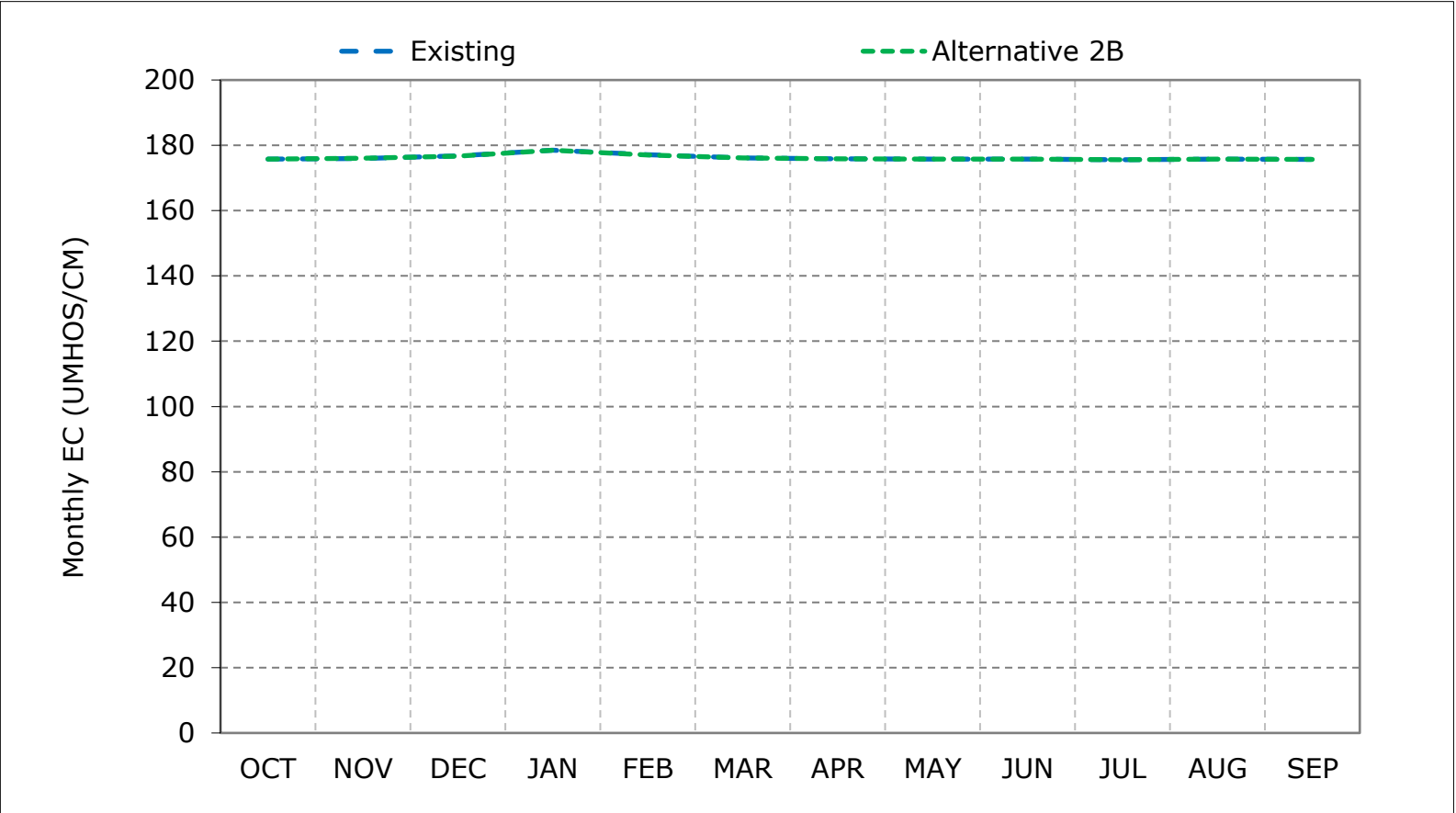
b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

d Positive differences are highted in red color which indicate increase in Salinity (EC).



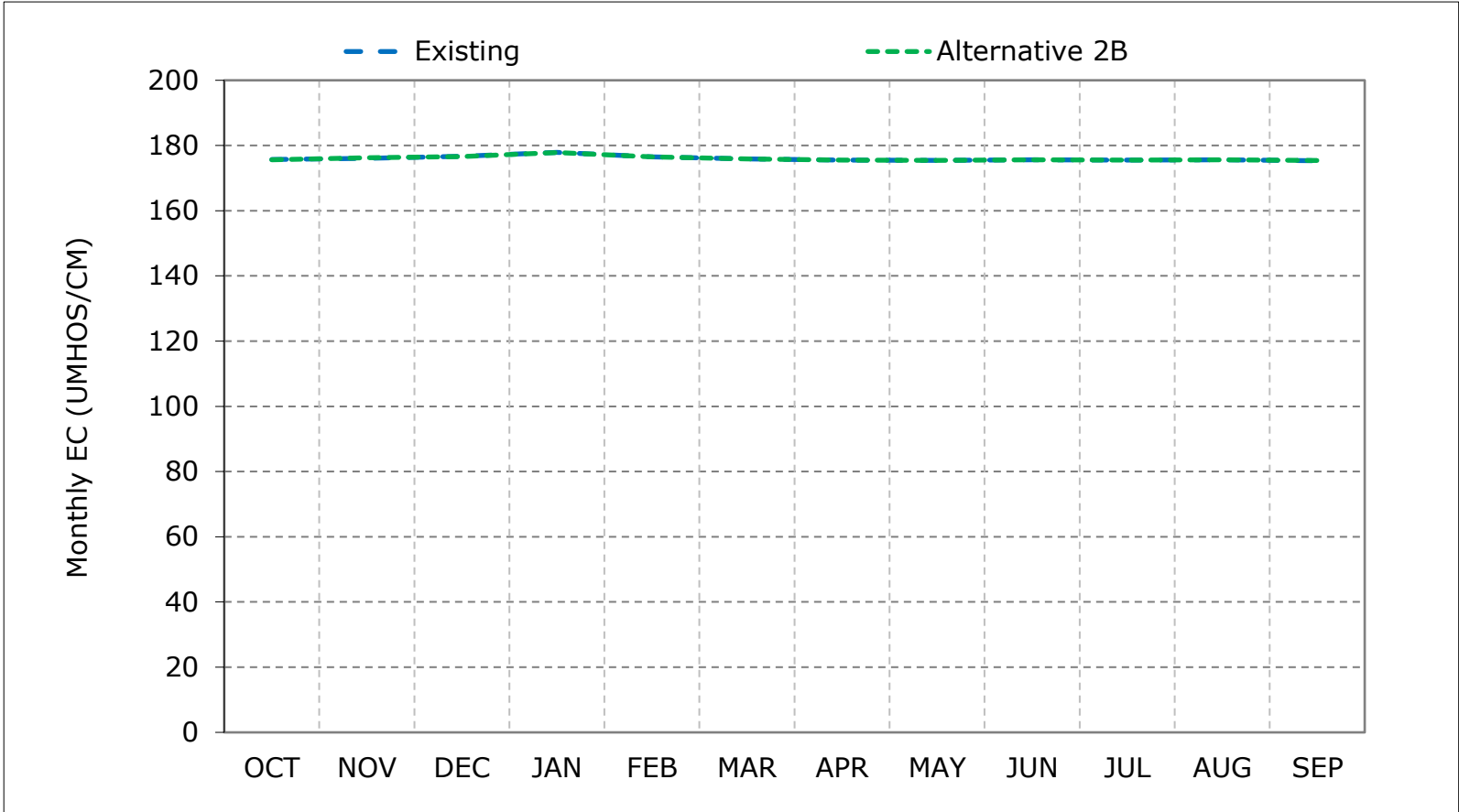
**Figure 3-1. Sacramento River downstream of Georgiana Slough Salinity, Long-Term A**



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

\*These results are displayed with water year - year type sorting.

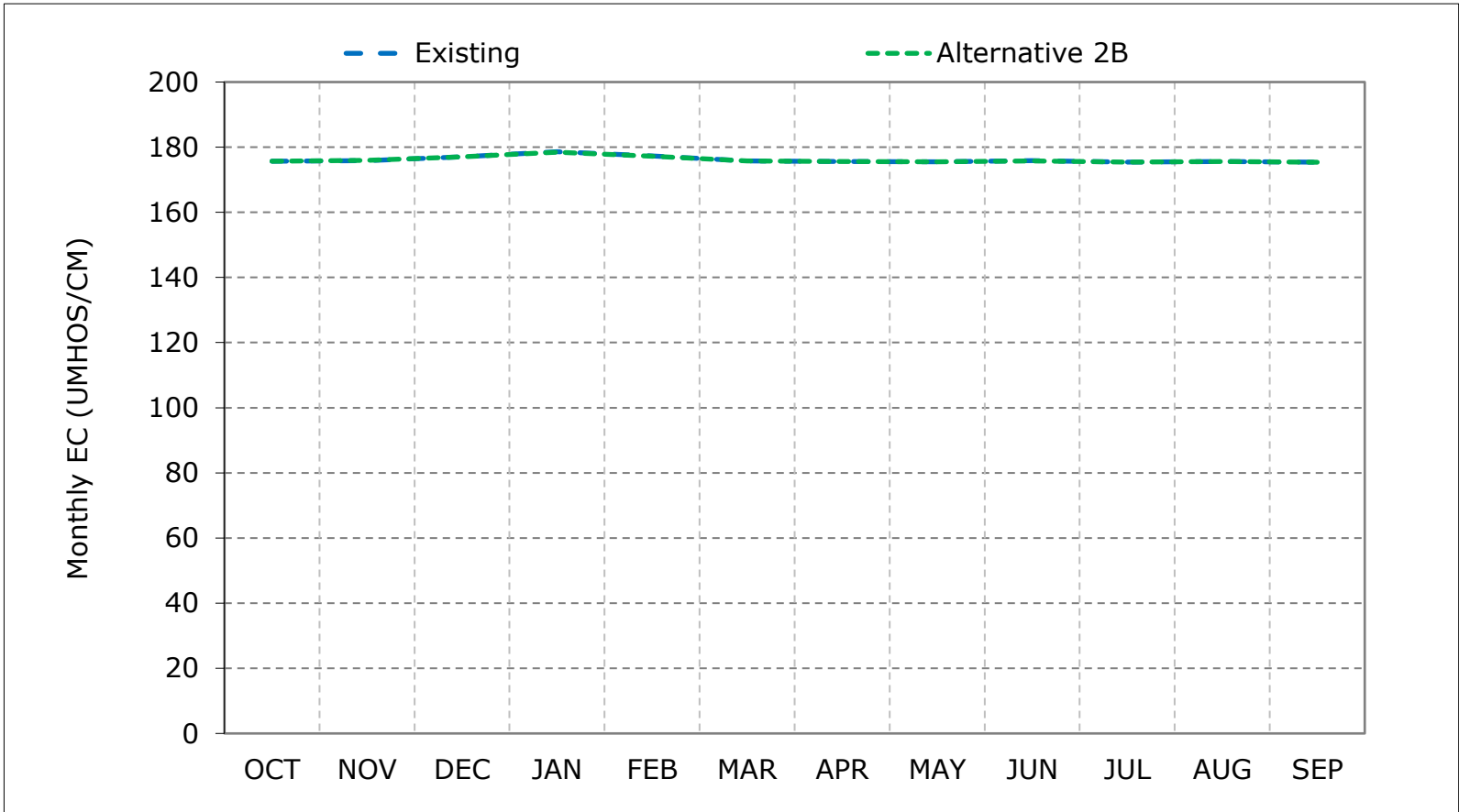
**Figure 3-2. Sacramento River downstream of Georgiana Slough Salinity, Wet Year Average**



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

\*These results are displayed with water year - year type sorting.

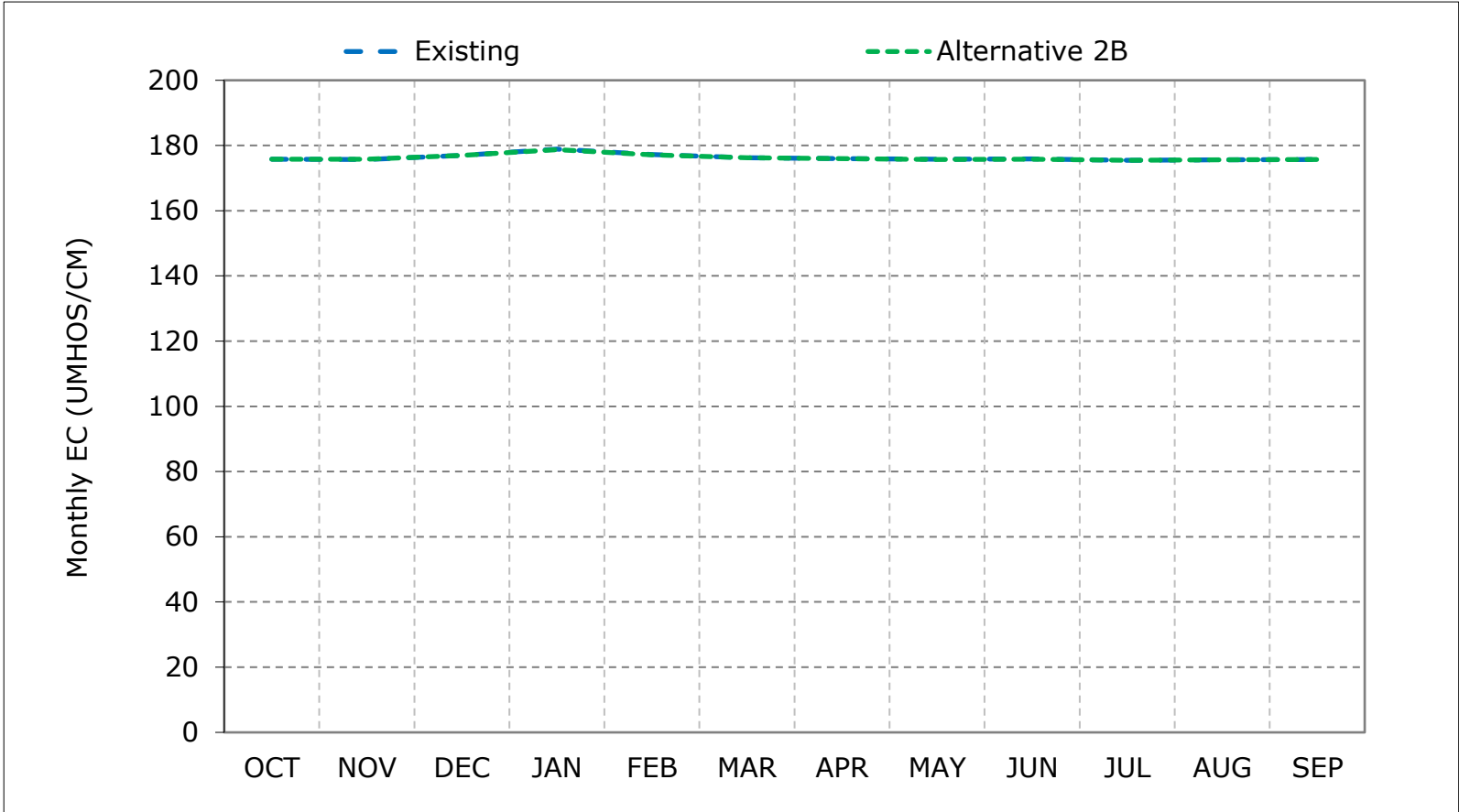
**Figure 3-3. Sacramento River downstream of Georgiana Slough Salinity, Above Nor**



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

\*These results are displayed with water year - year type sorting.

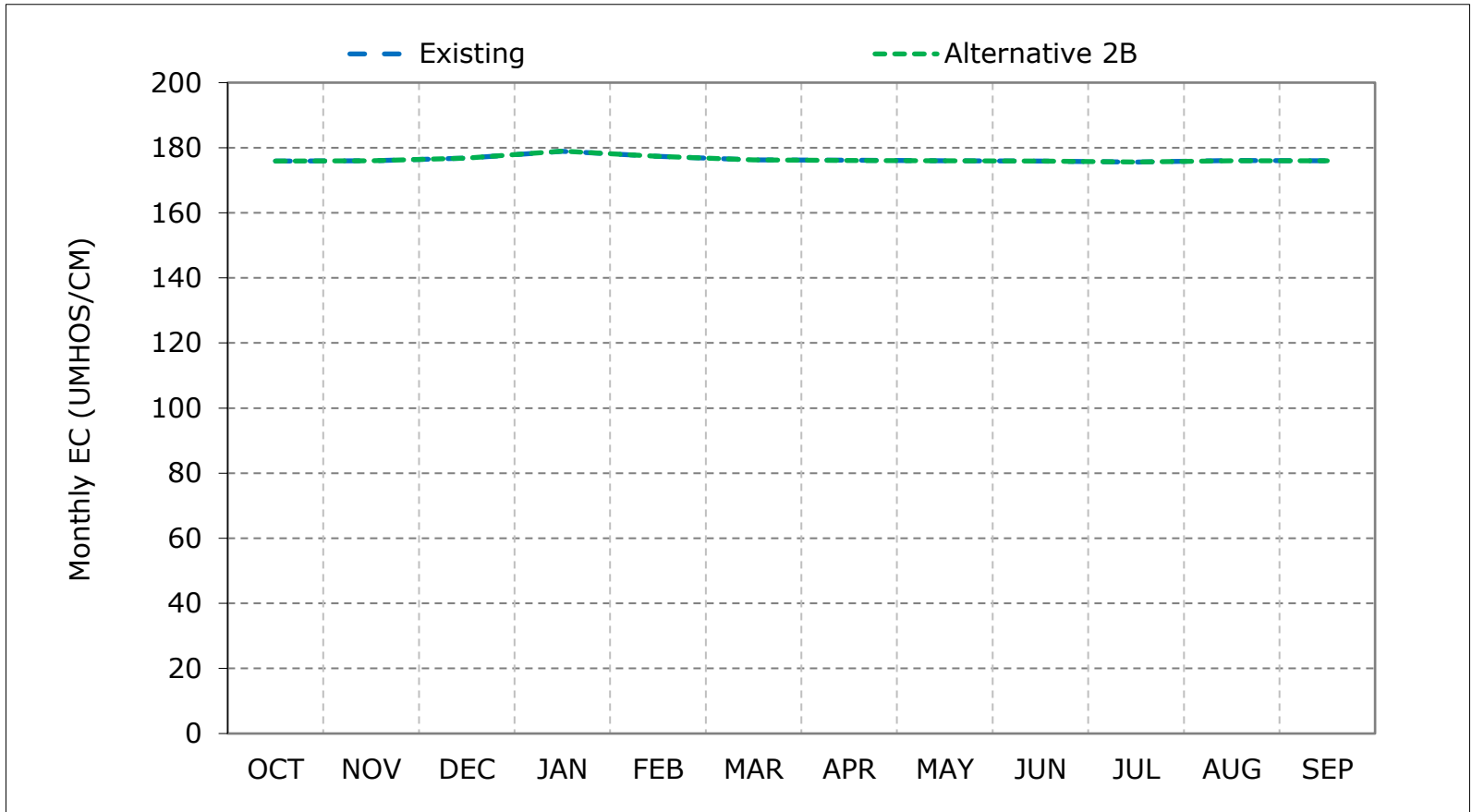
**Figure 3-4. Sacramento River downstream of Georgiana Slough Salinity, Below Nor**



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

\*These results are displayed with water year - year type sorting.

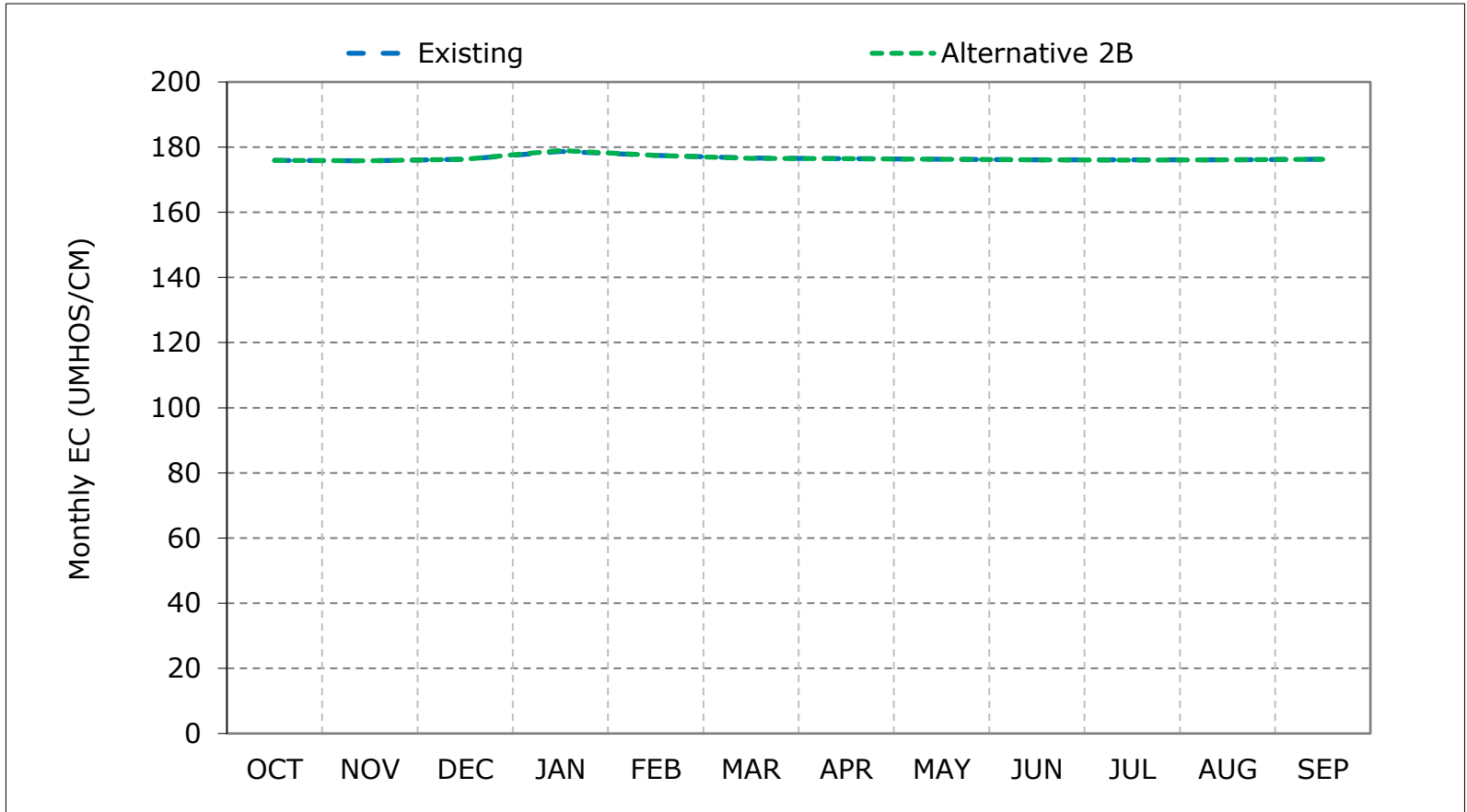
**Figure 3-5. Sacramento River downstream of Georgiana Slough Salinity, Dry Year Average**



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

\*These results are displayed with water year - year type sorting.

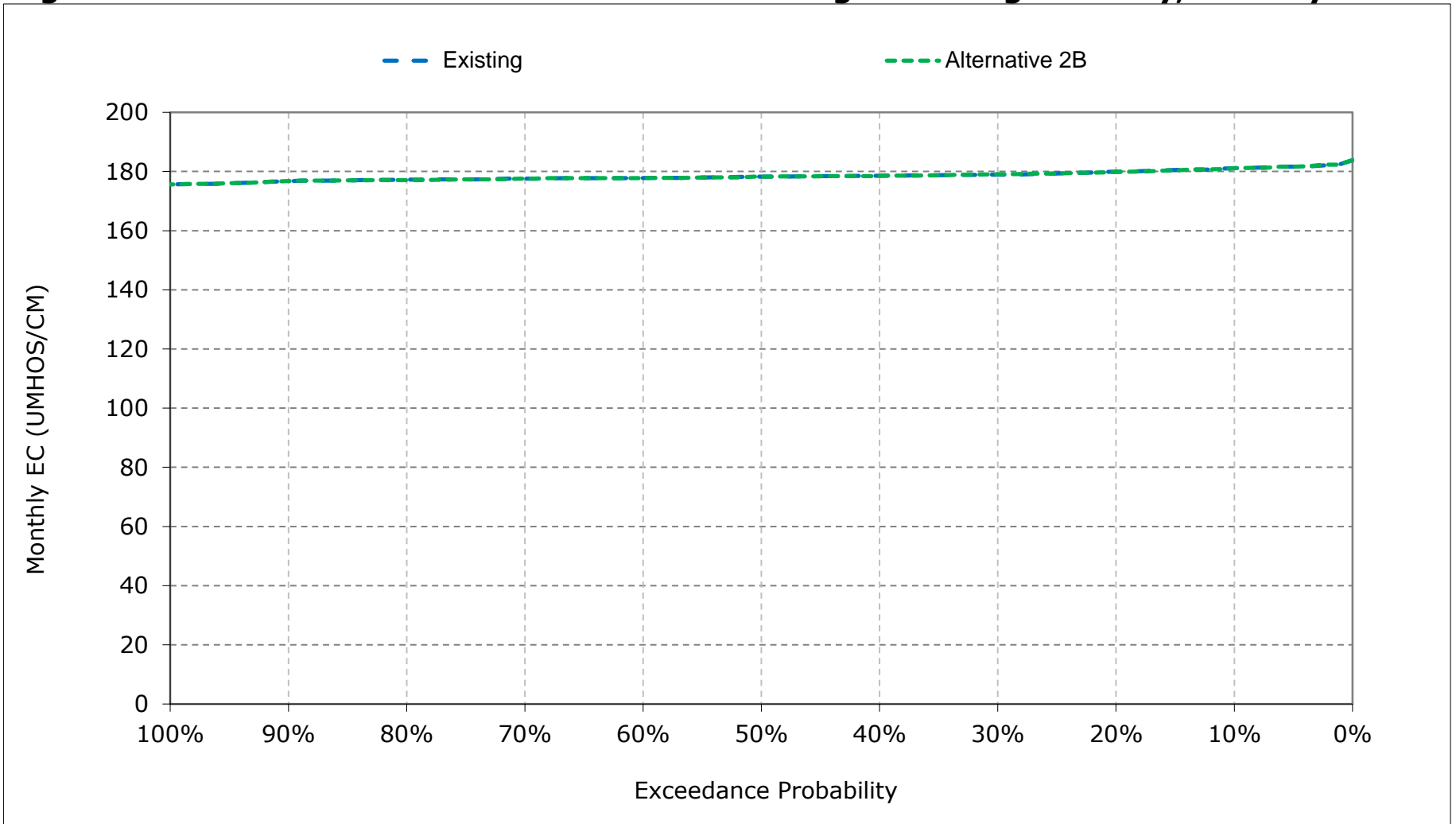
**Figure 3-6. Sacramento River downstream of Georgiana Slough Salinity, Critical Year Average**



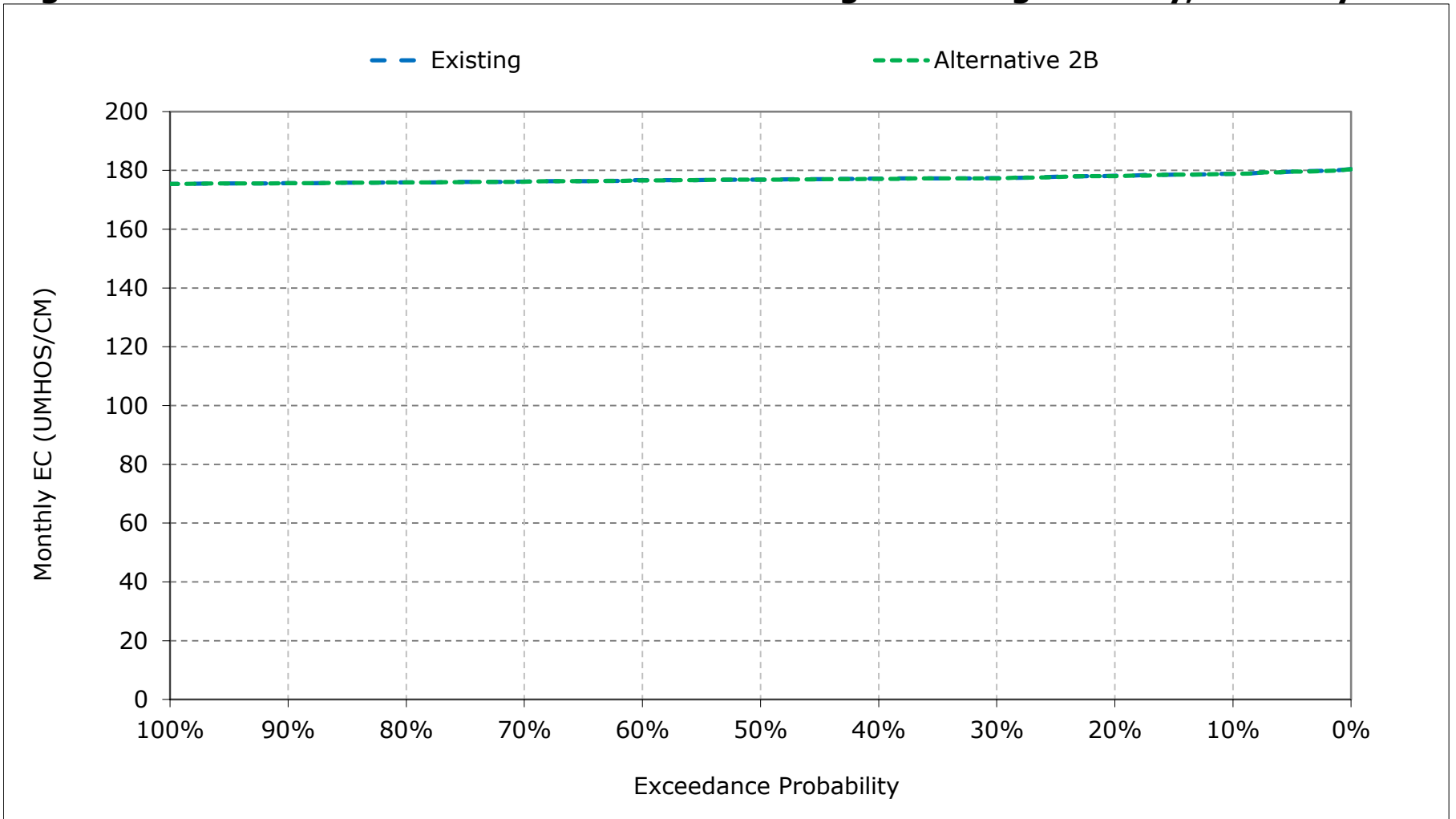
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

**Figure 3-7. Sacramento River downstream of Georgiana Slough Salinity, January EC**

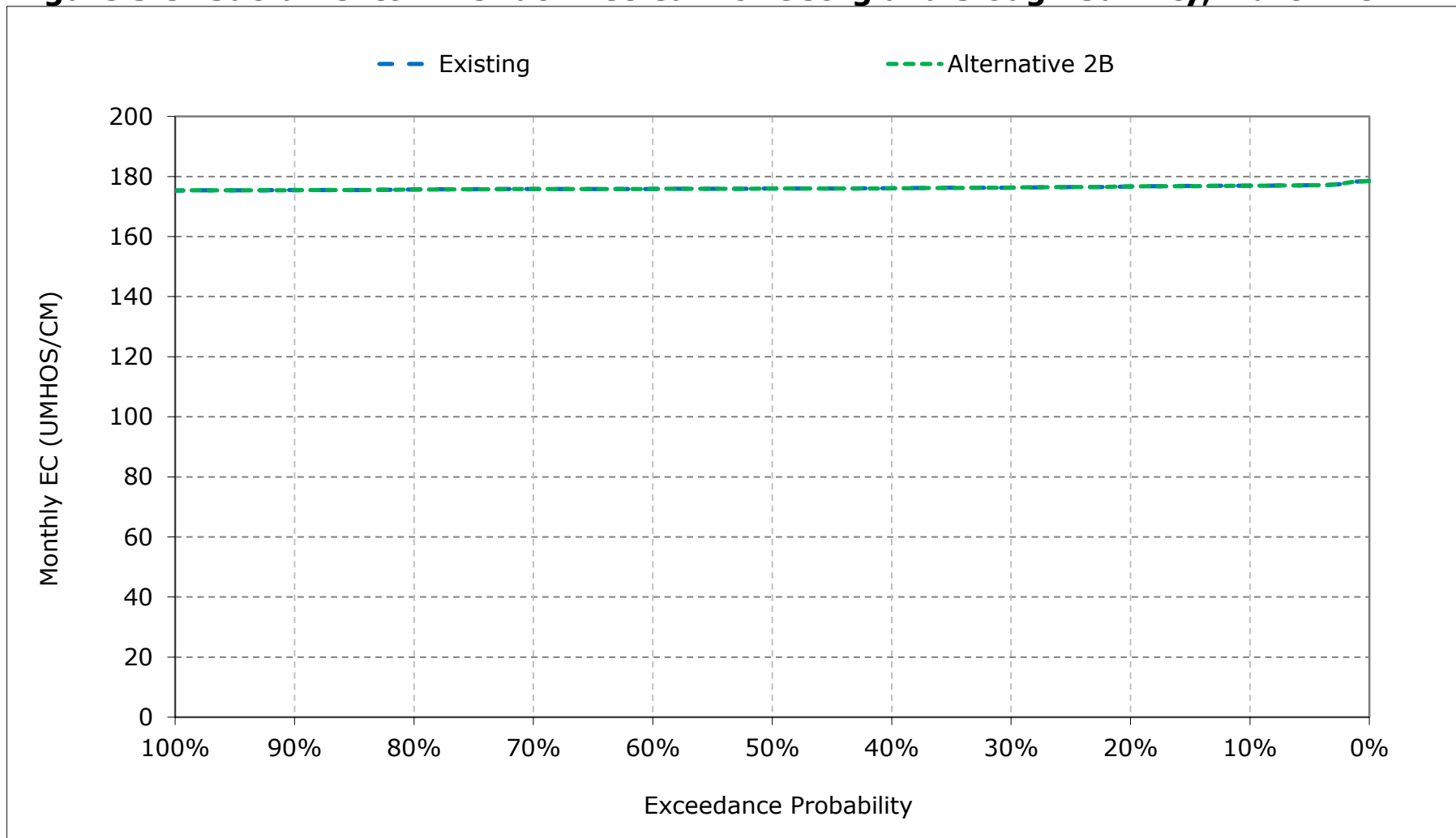


**Figure 3-8. Sacramento River downstream of Georgiana Slough Salinity, February EC**

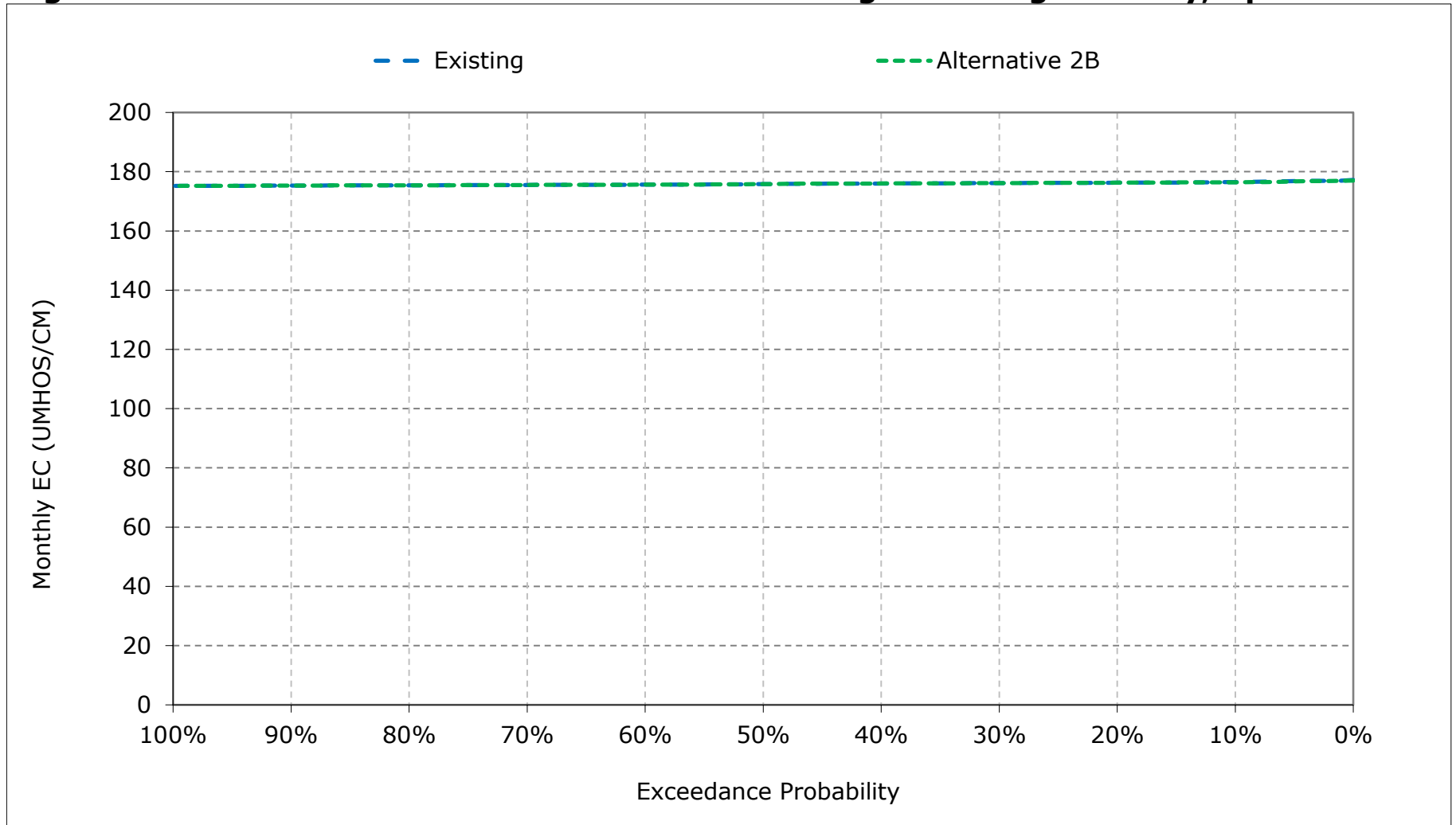




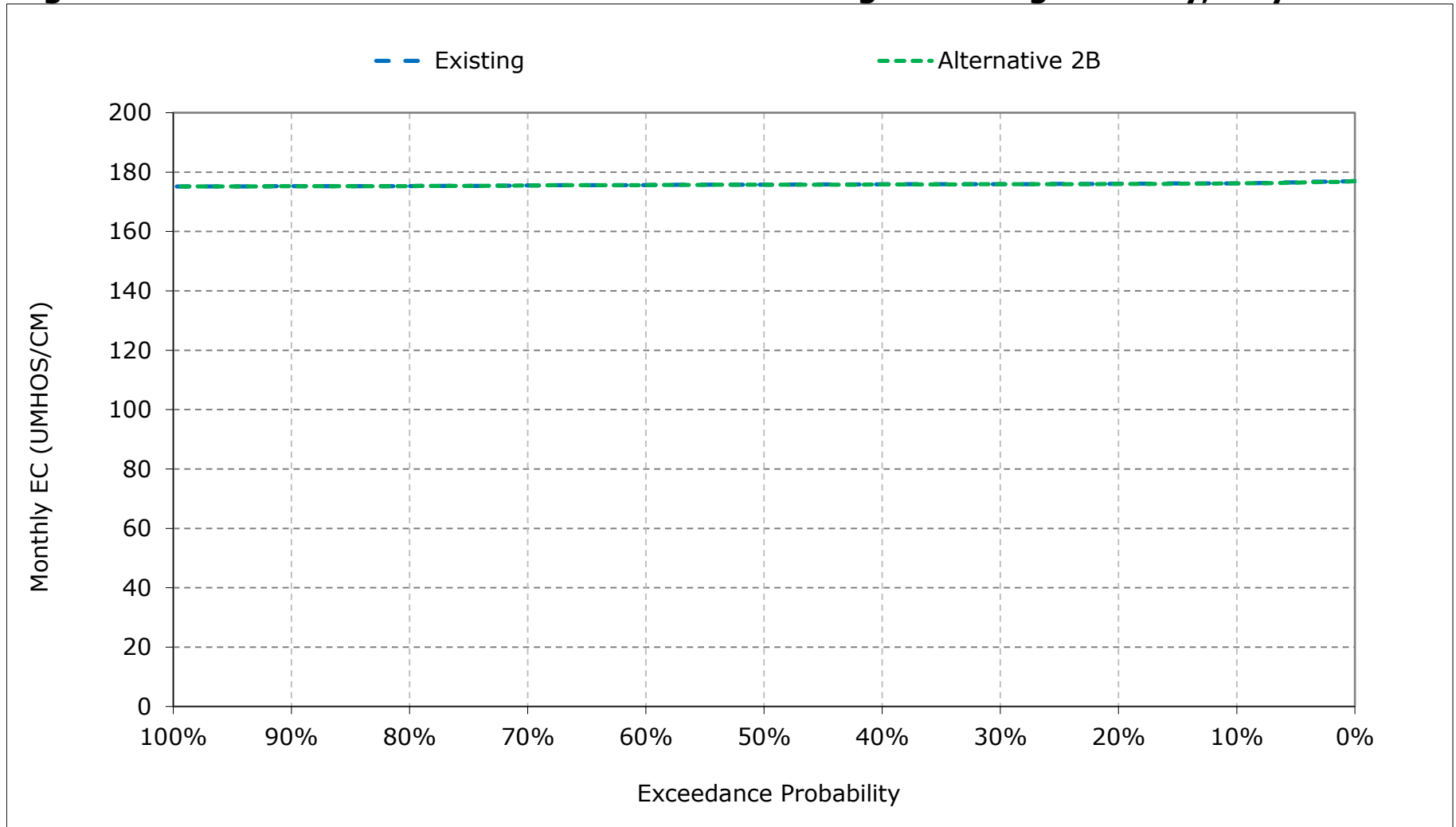
**Figure 3-9. Sacramento River downstream of Georgiana Slough Salinity, March EC**



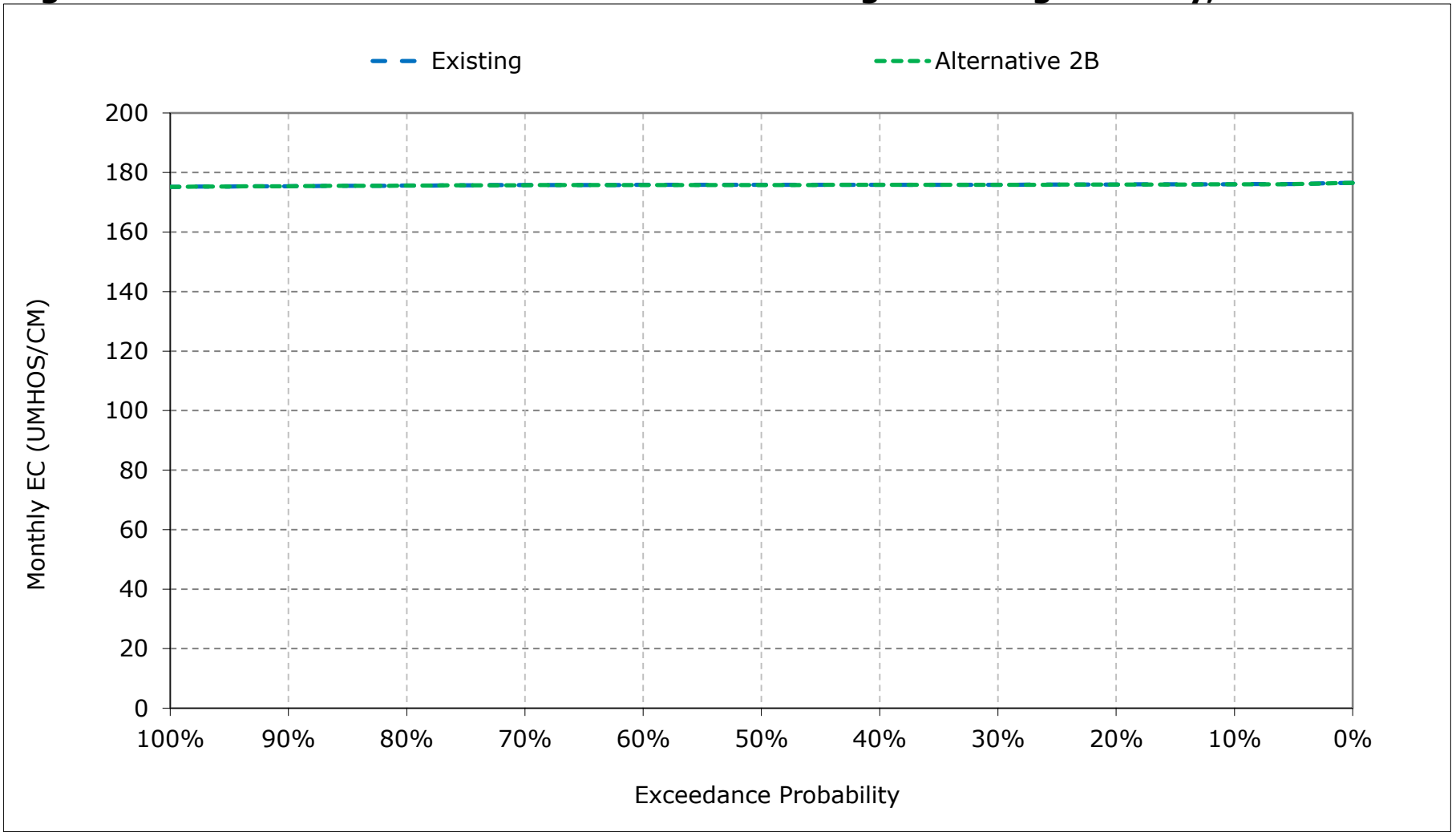
**Figure 3-10. Sacramento River downstream of Georgiana Slough Salinity, April EC**



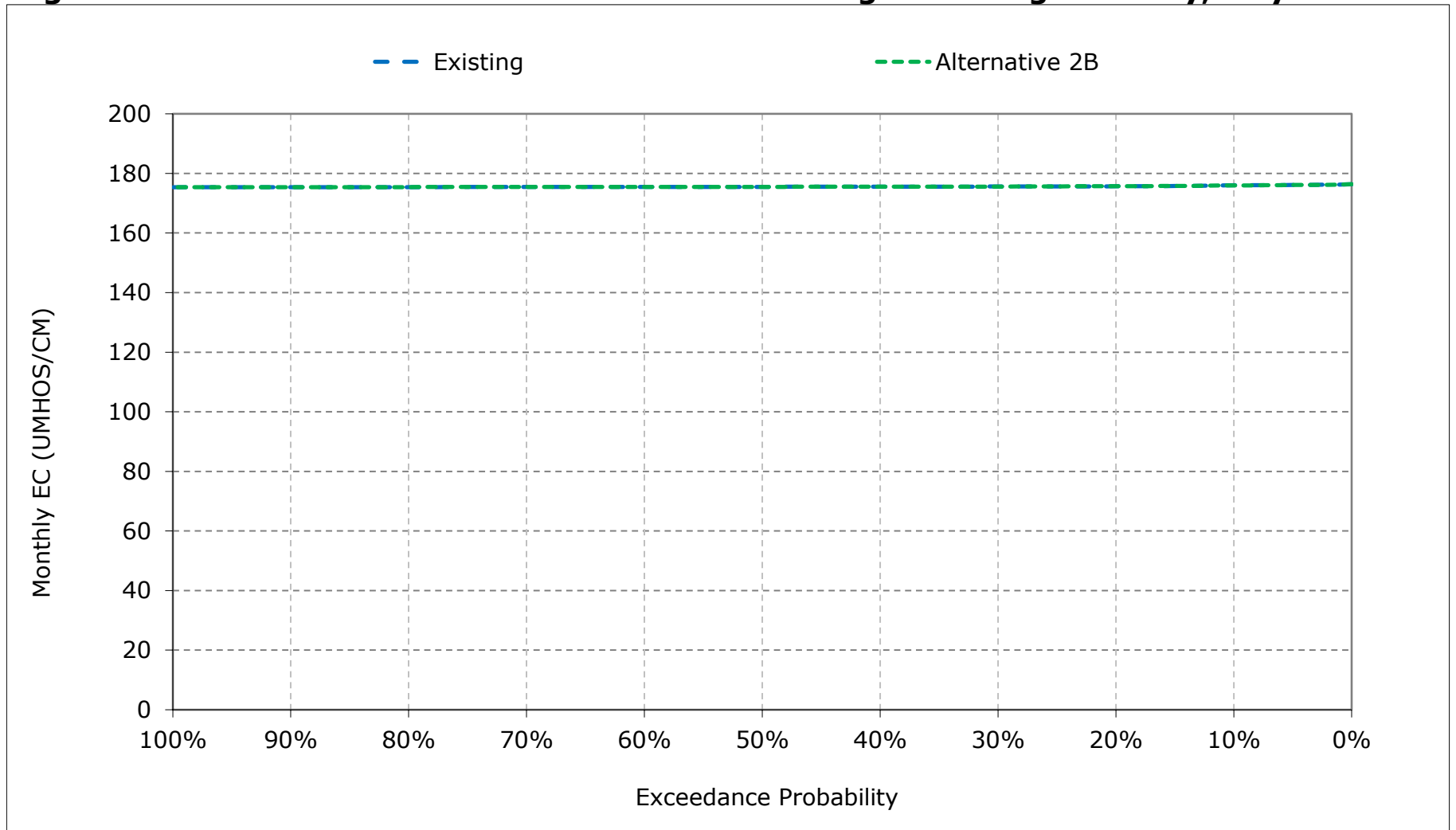
**Figure 3-11. Sacramento River downstream of Georgiana Slough Salinity, May EC**



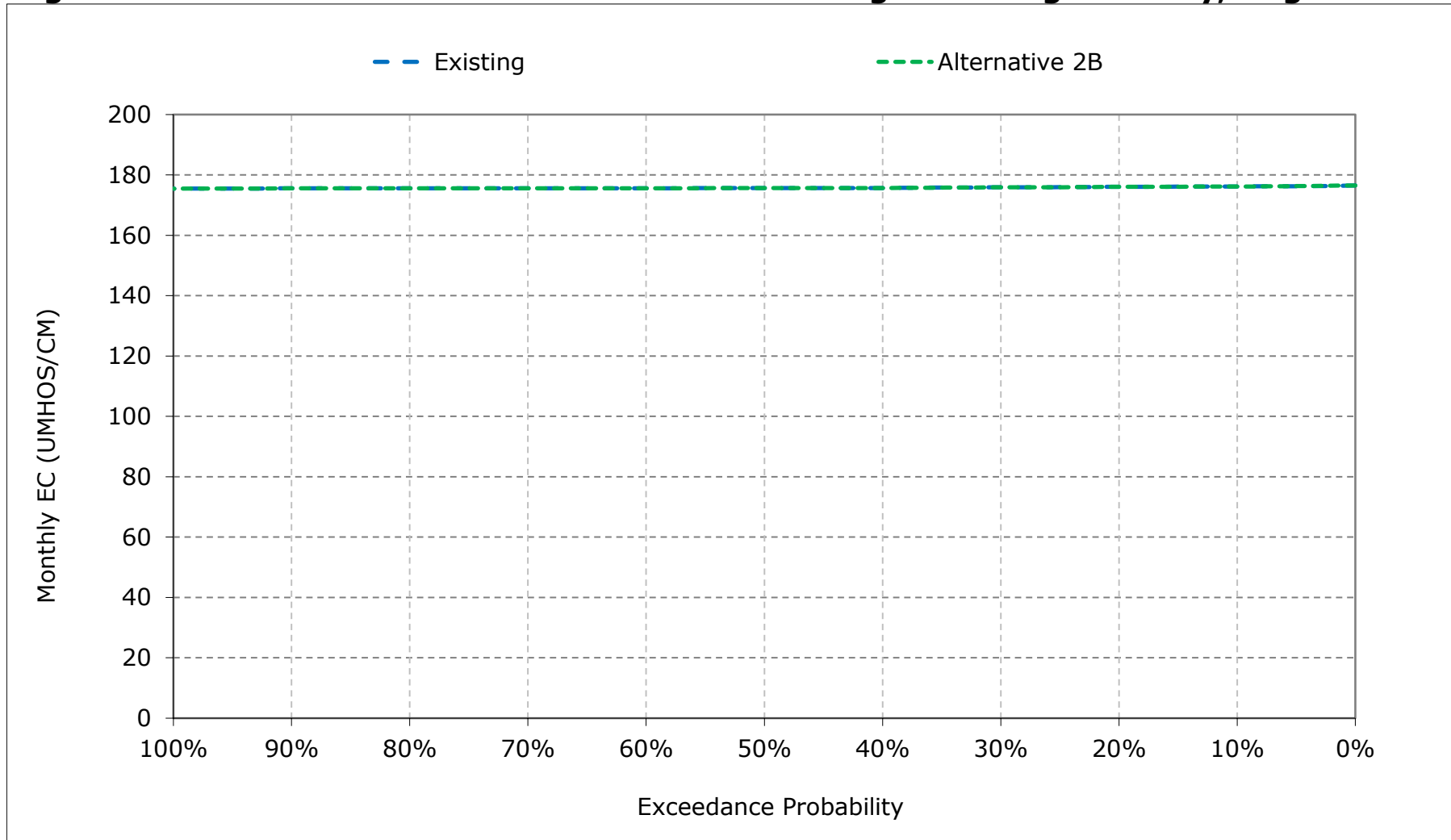
**Figure 3-12. Sacramento River downstream of Georgiana Slough Salinity, June EC**



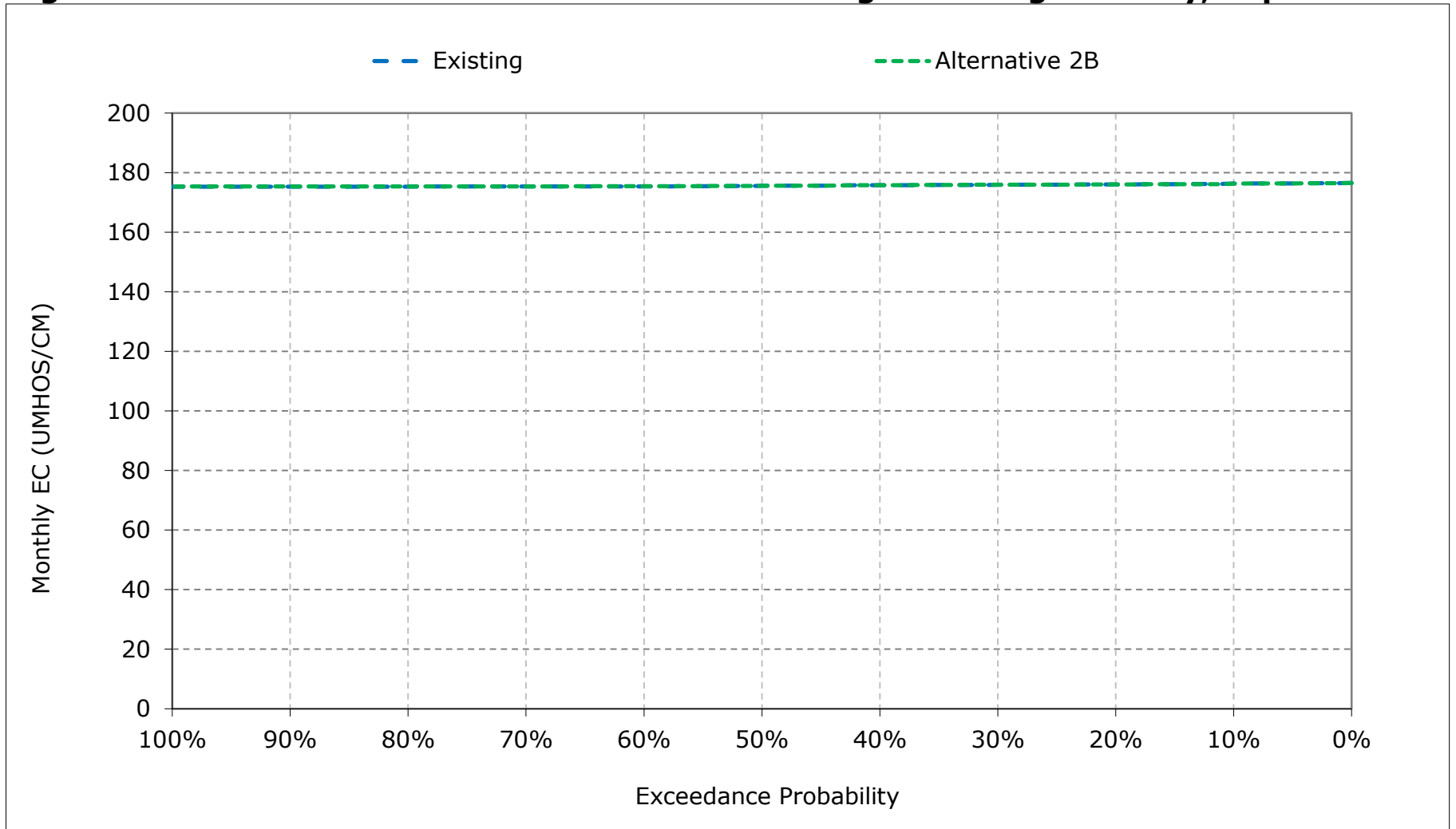
**Figure 3-13. Sacramento River downstream of Georgiana Slough Salinity, July EC**



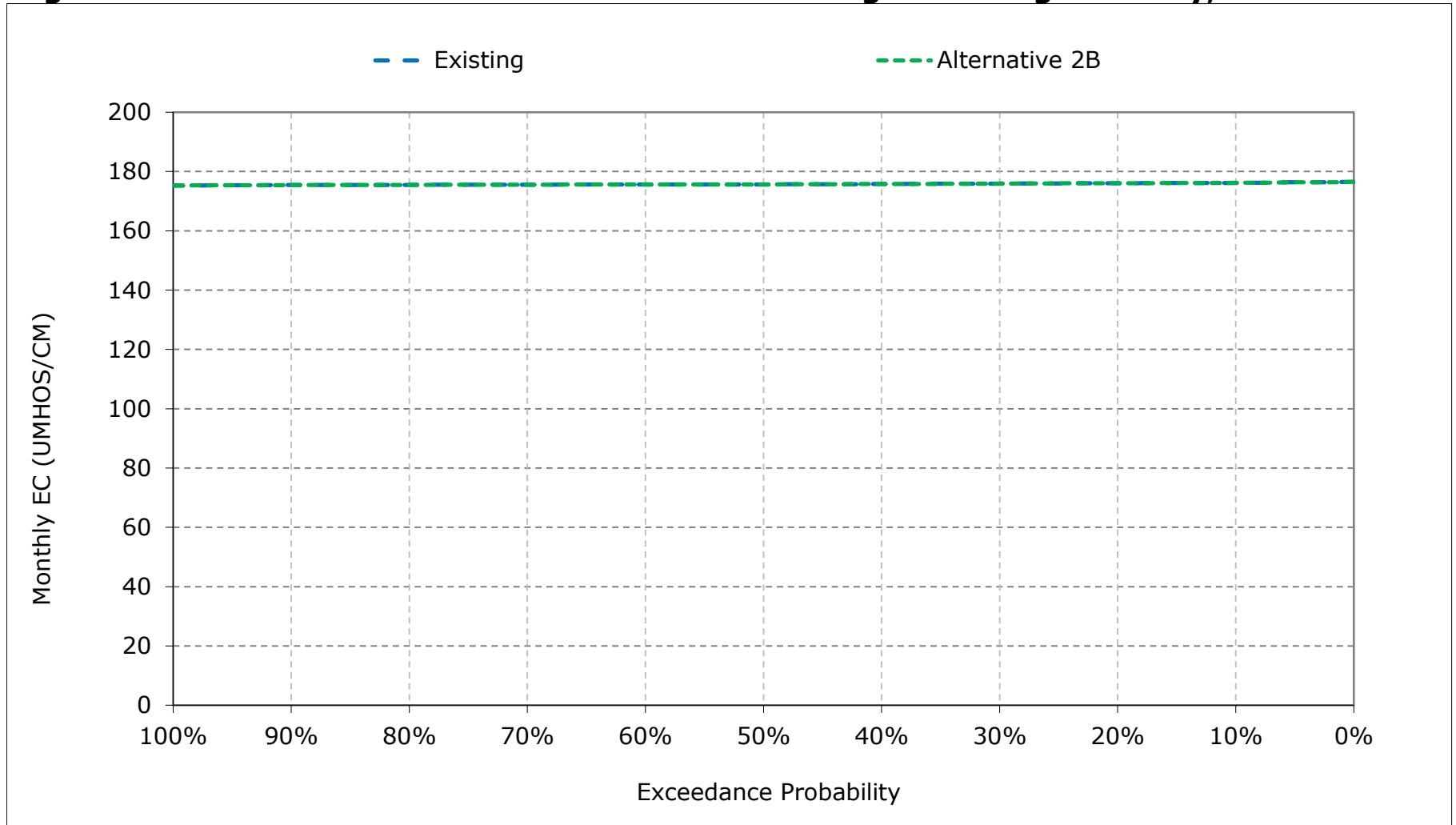
**Figure 3-14. Sacramento River downstream of Georgiana Slough Salinity, August EC**



**Figure 3-15. Sacramento River downstream of Georgiana Slough Salinity, September EC**

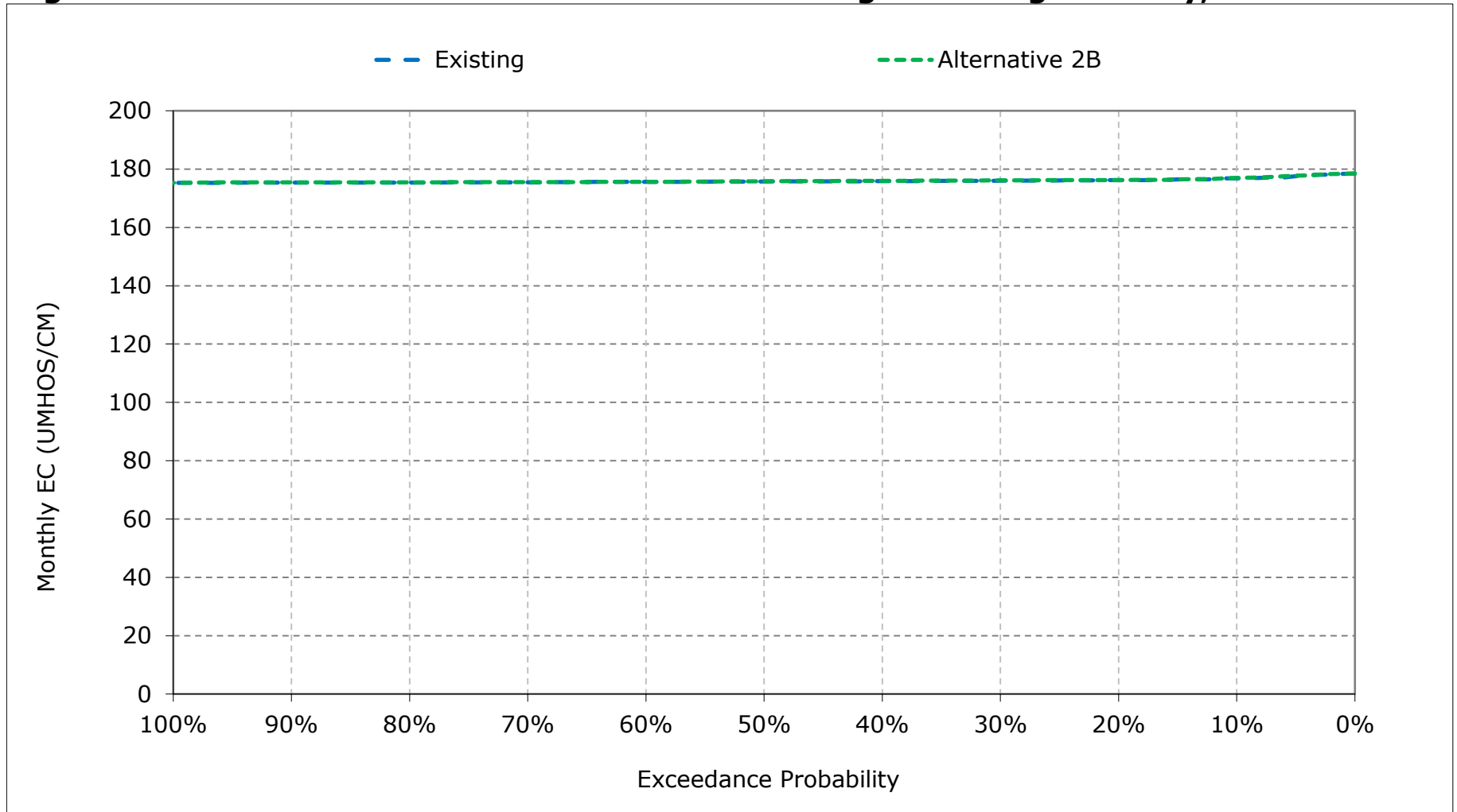


**Figure 3-16. Sacramento River downstream of Georgiana Slough Salinity, October EC**

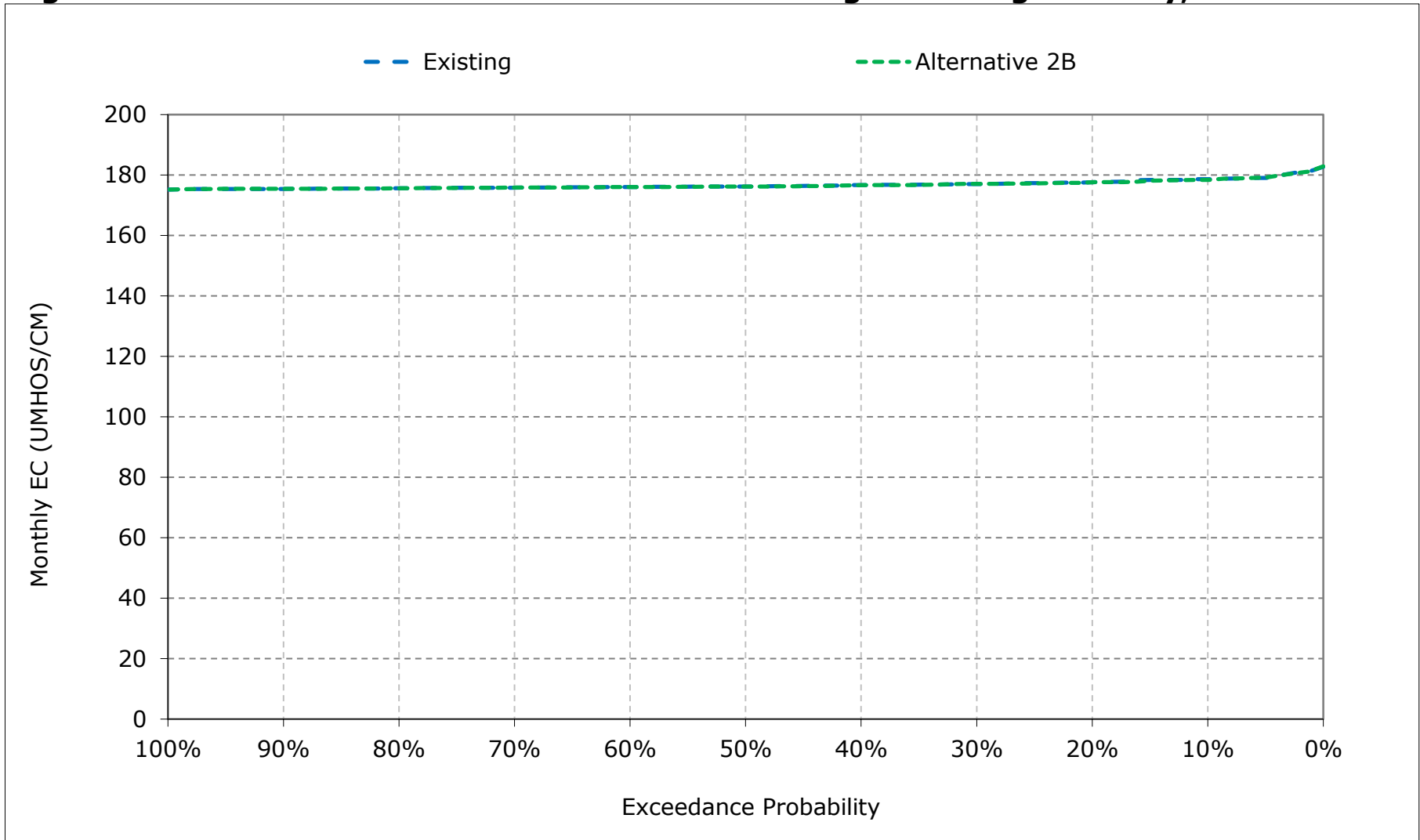




**Figure 3-17. Sacramento River downstream of Georgiana Slough Salinity, November EC**



**Figure 3-18. Sacramento River downstream of Georgiana Slough Salinity, December EC**



**Table 4-1. Sacramento River at Rio Vista Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	491	422	367	244	201	195	191	198	215	278	369	457
20%	420	359	295	227	196	189	188	192	199	233	329	387
30%	401	337	234	213	193	187	186	188	195	221	314	371
40%	371	300	217	204	191	185	184	186	192	198	240	330
50%	322	201	204	198	186	183	183	184	190	194	233	282
60%	198	189	198	194	184	182	181	183	187	186	226	195
70%	188	182	187	190	183	180	180	181	184	185	221	183
80%	186	181	185	185	182	180	179	178	180	184	215	180
90%	185	180	180	181	180	179	178	177	178	182	212	180
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	311	274	239	207	190	185	184	189	200	216	267	291
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	264	217	190	188	182	181	180	179	182	183	213	180
Above Normal (15%)	317	277	221	197	188	181	181	181	187	185	218	194
Below Normal (17%)	311	264	263	206	189	186	184	185	190	196	236	309
Dry (22%)	331	308	246	218	194	187	186	189	197	225	321	376
Critical (15%)	379	358	323	242	204	195	194	220	271	330	387	480

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	465	423	362	260	202	196	191	197	216	276	373	448
20%	424	368	302	237	196	190	188	190	201	232	327	394
30%	401	346	287	220	193	187	186	187	195	221	313	376
40%	365	301	262	203	190	185	184	184	191	197	249	356
50%	328	244	234	198	186	183	182	182	187	191	240	297
60%	195	236	217	193	184	182	181	181	185	186	207	187
70%	192	232	190	190	183	180	180	180	183	185	203	186
80%	191	219	185	185	182	180	179	178	180	184	200	185
90%	188	187	180	181	180	179	178	177	178	183	197	183
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	310	293	255	211	190	185	184	188	200	216	260	295
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	263	239	195	188	182	181	180	179	181	184	198	185
Above Normal (15%)	314	295	244	200	187	181	181	180	184	185	203	186
Below Normal (17%)	313	282	286	207	189	185	183	183	188	194	243	331
Dry (22%)	328	327	268	227	195	187	186	188	197	226	321	382
Critical (15%)	379	373	343	253	206	196	194	220	274	327	382	475

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-27	1	-5	16	1	1	0	-1	1	-2	4	-8
20%	4	9	7	10	0	0	0	-2	2	0	-2	7
30%	-1	8	52	7	0	0	0	-1	0	0	-1	5
40%	-6	1	45	0	0	0	-1	-2	-2	-1	9	26
50%	6	44	31	0	0	0	0	-2	-4	-3	7	15
60%	-4	47	19	-1	0	0	0	-1	-2	0	-19	-8
70%	4	50	3	0	0	0	0	-1	-1	0	-18	3
80%	4	38	0	-1	0	0	0	0	0	0	-15	5
90%	3	7	-1	0	0	0	0	0	0	0	-16	3
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-1	19	17	4	0	0	0	-1	0	-1	-7	4
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	-1	23	5	0	0	0	0	0	0	0	-15	5
Above Normal (15%)	-3	18	23	2	-1	0	0	-1	-2	0	-15	-9
Below Normal (17%)	2	18	24	1	-1	0	0	-1	-2	-2	7	21
Dry (22%)	-2	19	23	9	1	0	-1	-1	0	1	0	5
Critical (15%)	0	15	20	11	2	1	0	0	4	-4	-5	-6

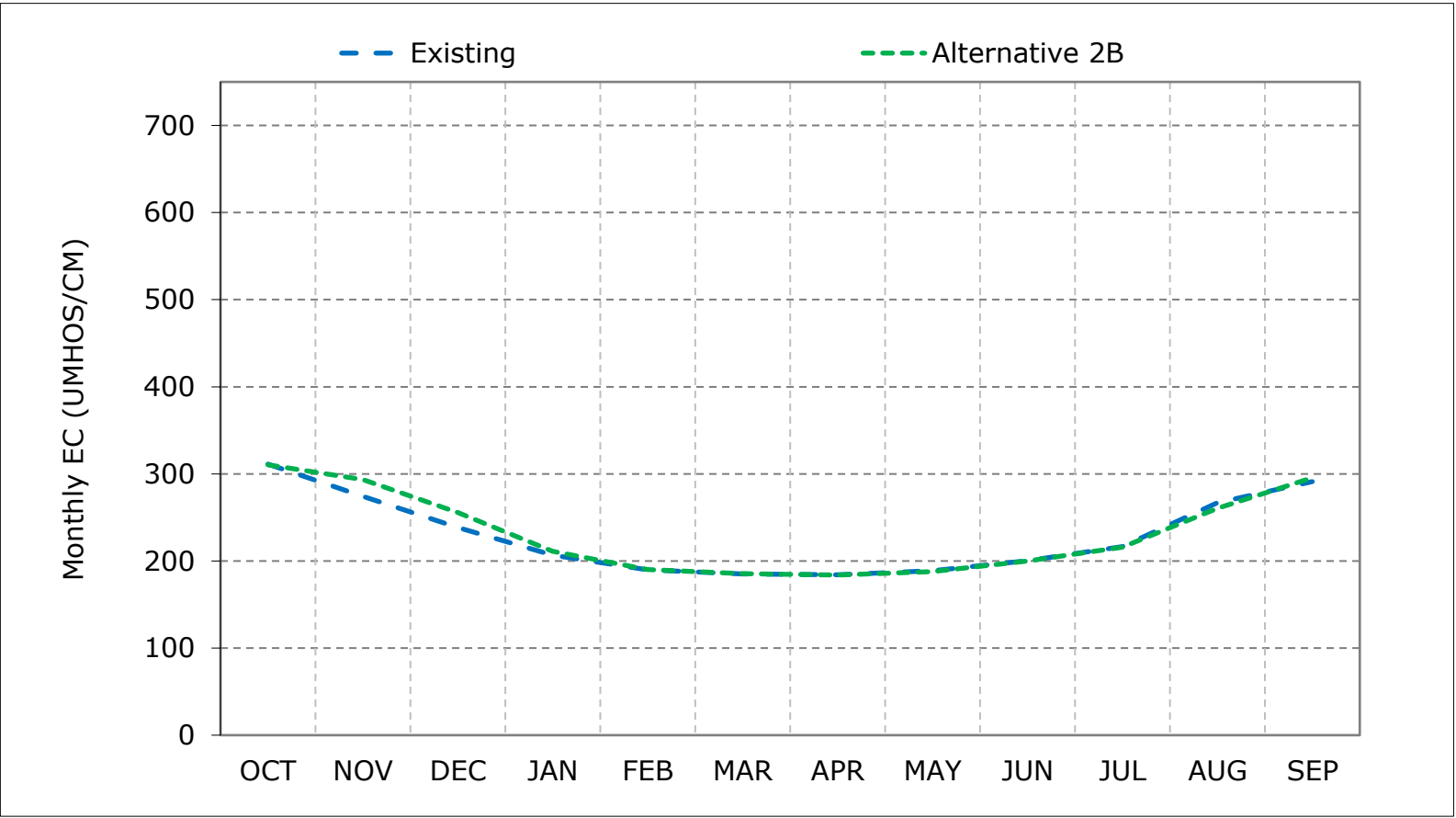
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

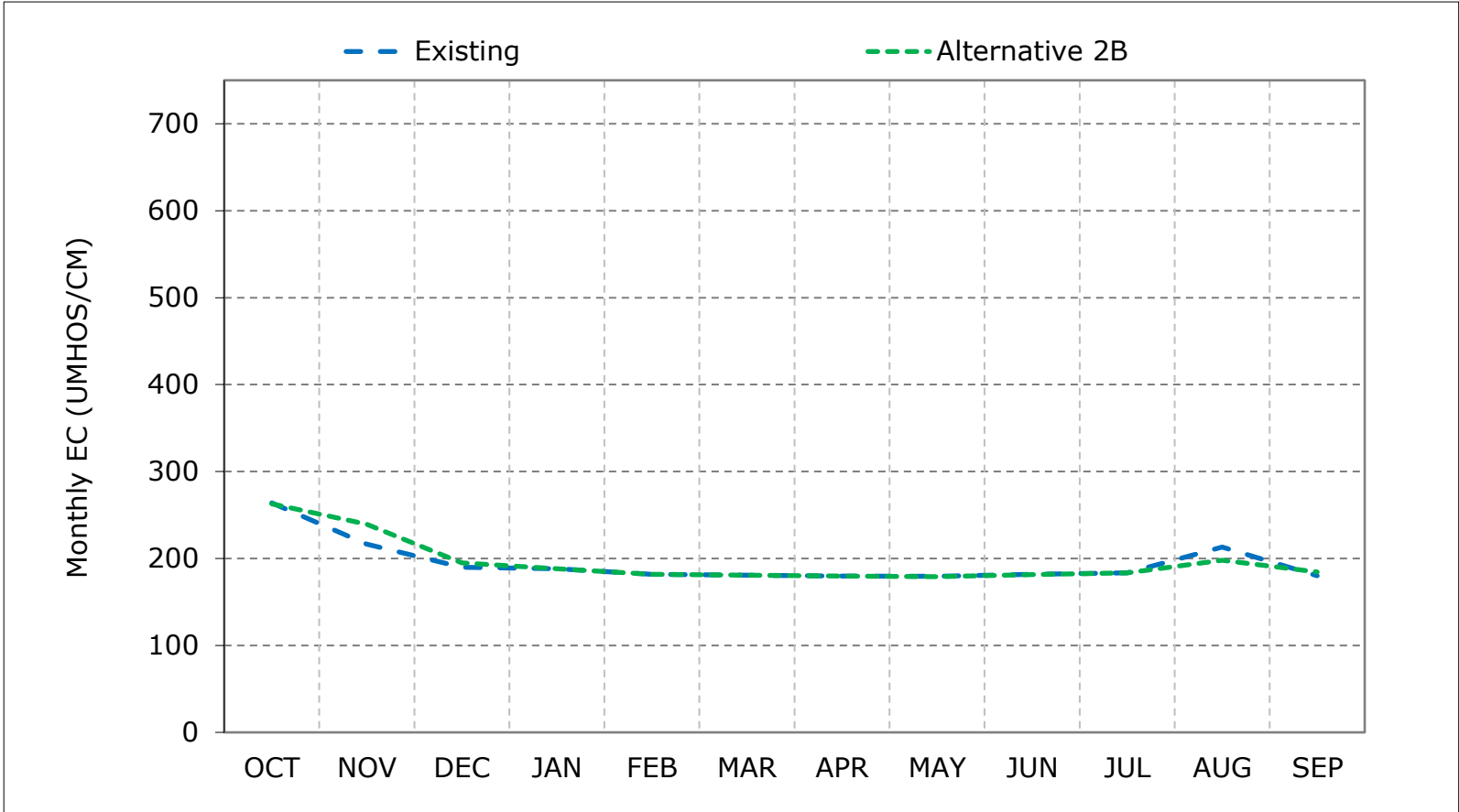
**Figure 4-1. Sacramento River at Rio Vista Salinity, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

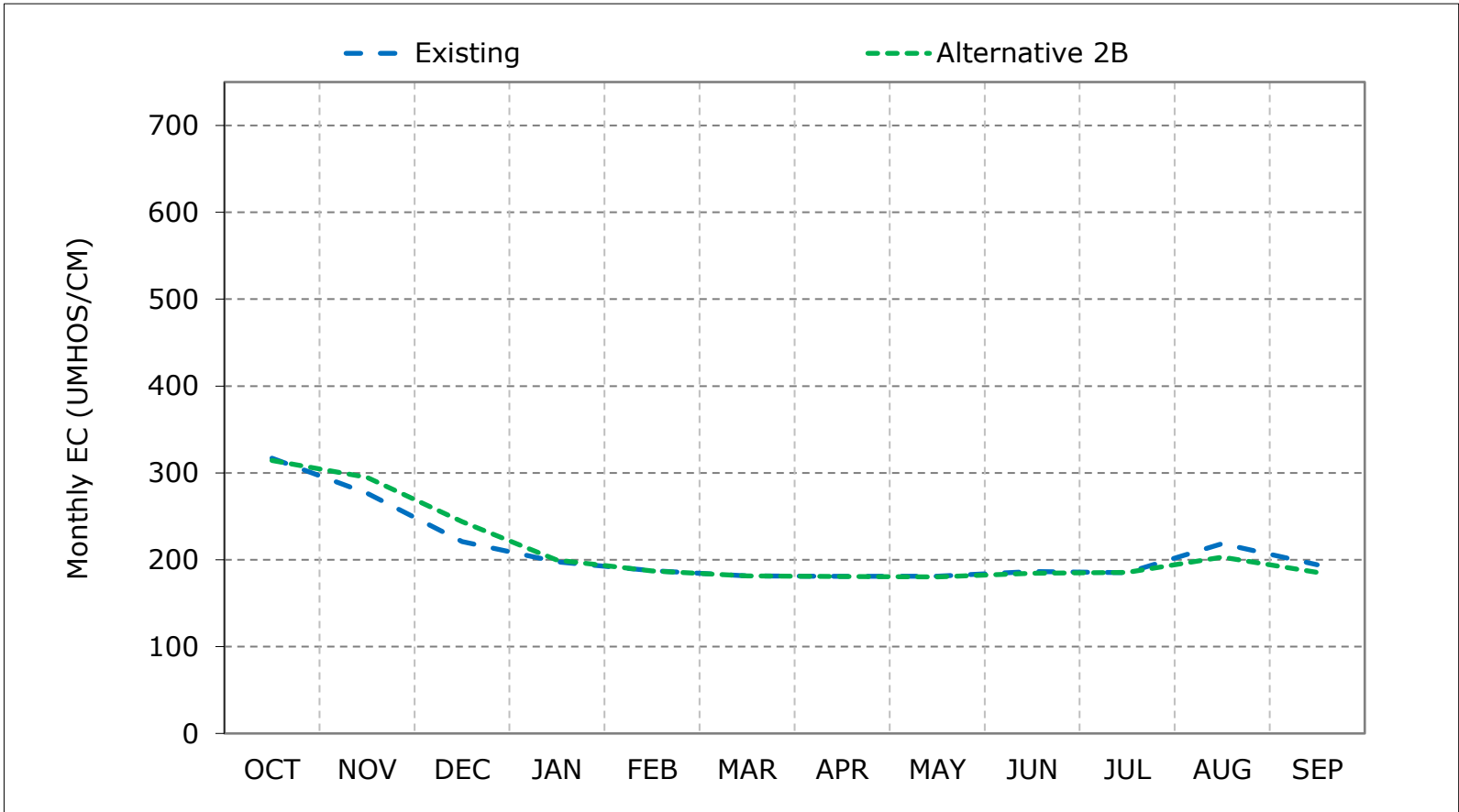
**Figure 4-2. Sacramento River at Rio Vista Salinity, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

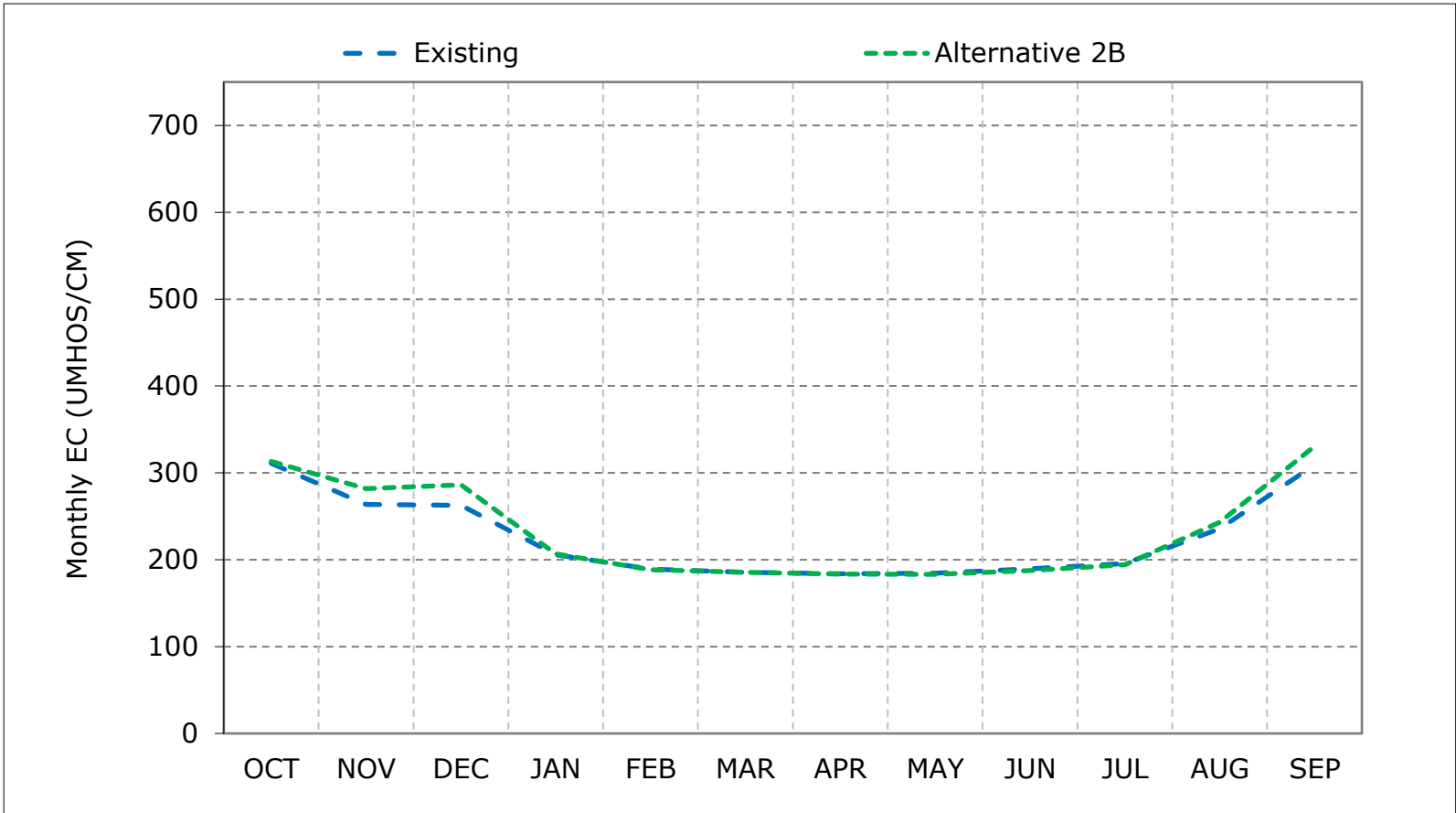
**Figure 4-3. Sacramento River at Rio Vista Salinity, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

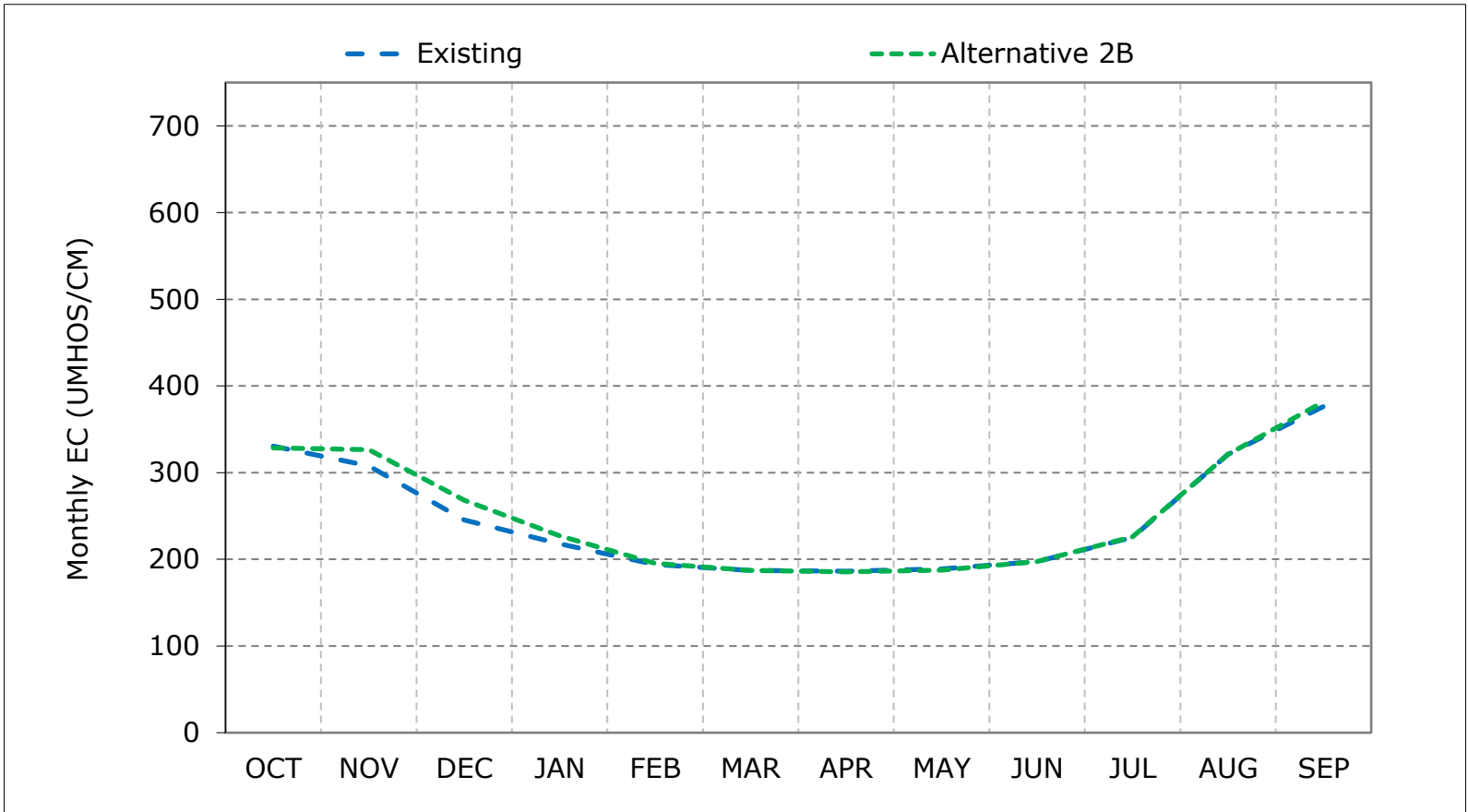
**Figure 4-4. Sacramento River at Rio Vista Salinity, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 4-5. Sacramento River at Rio Vista Salinity, Dry Year Average EC**

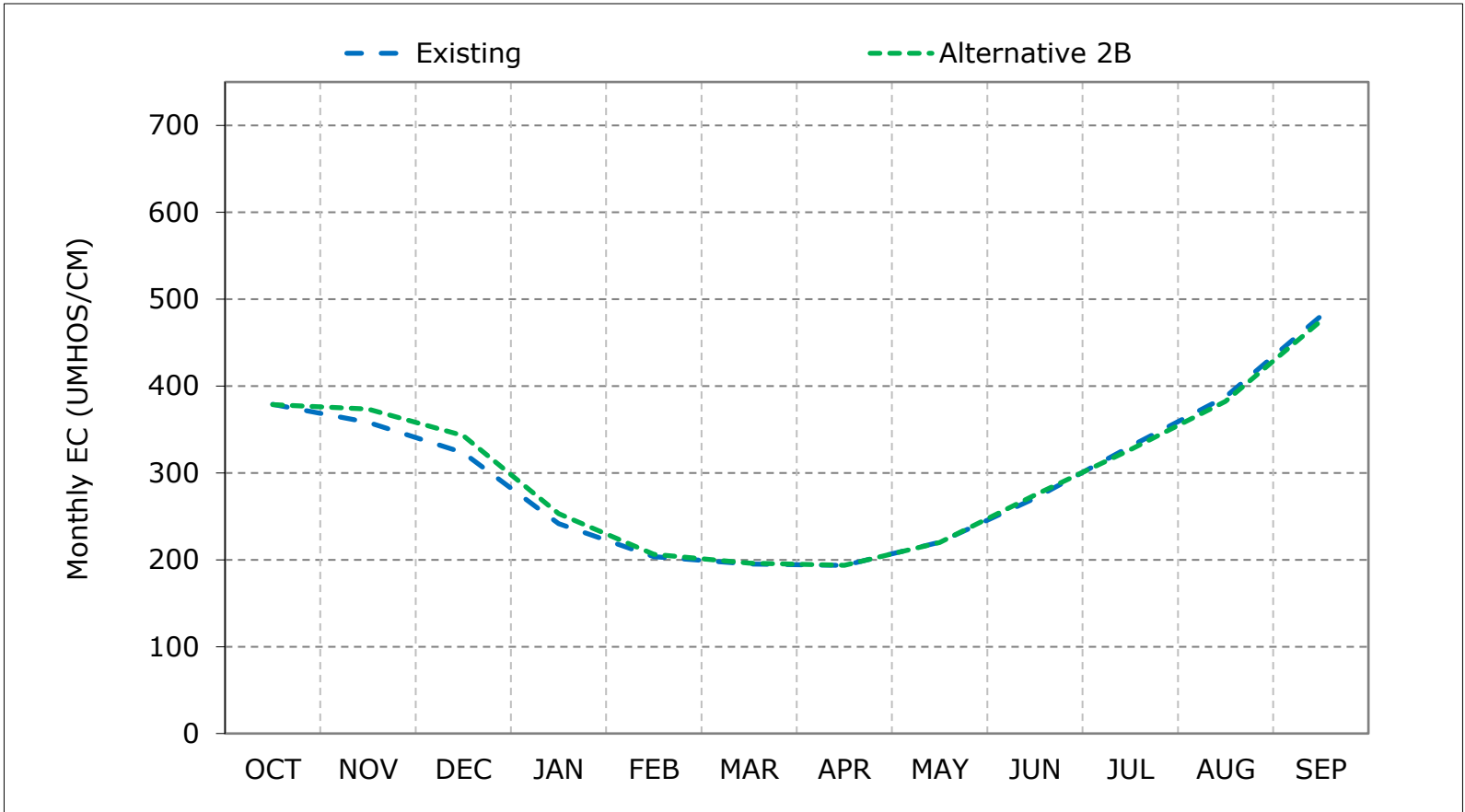


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



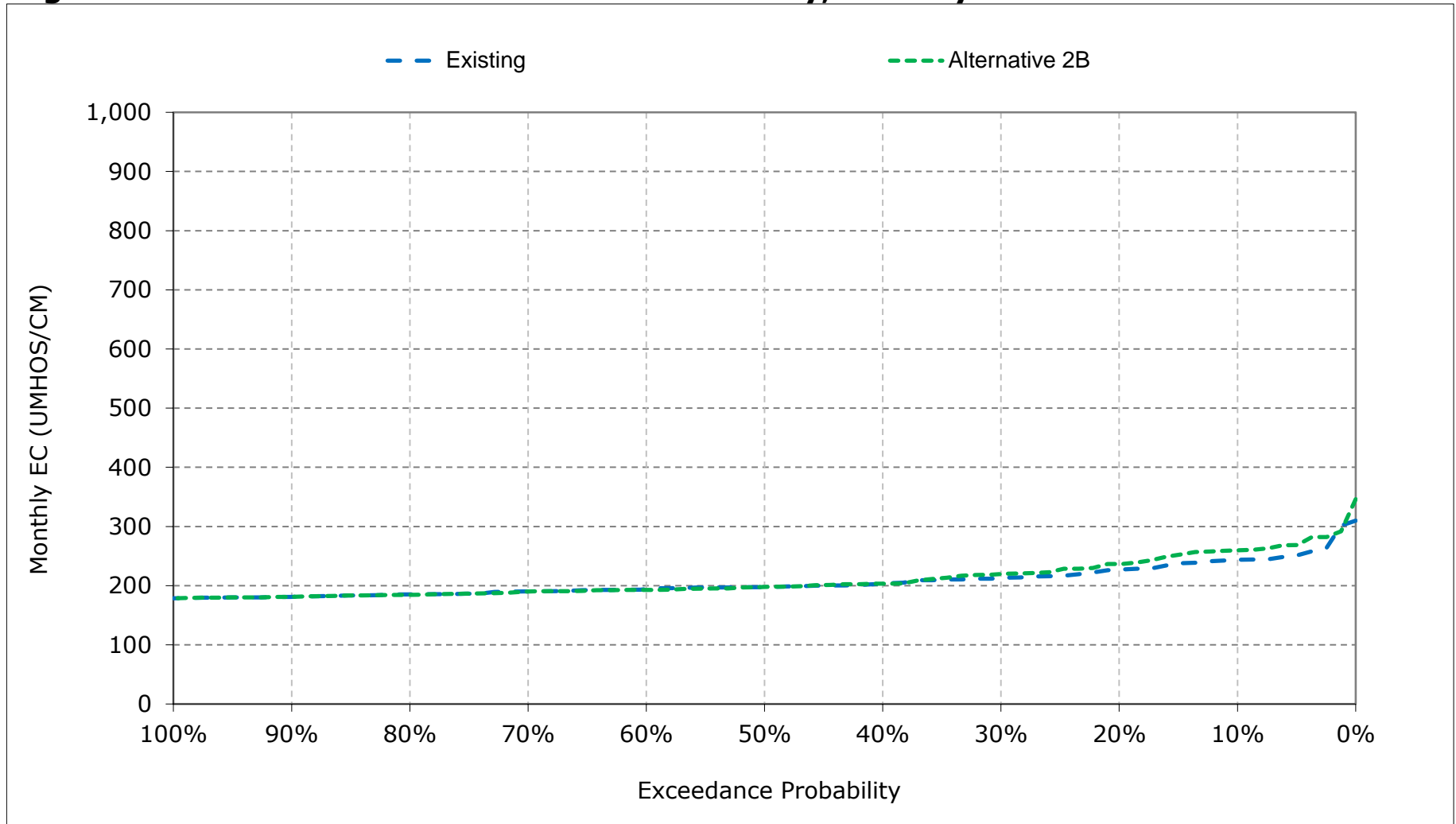
**Figure 4-6. Sacramento River at Rio Vista Salinity, Critical Year Average EC**



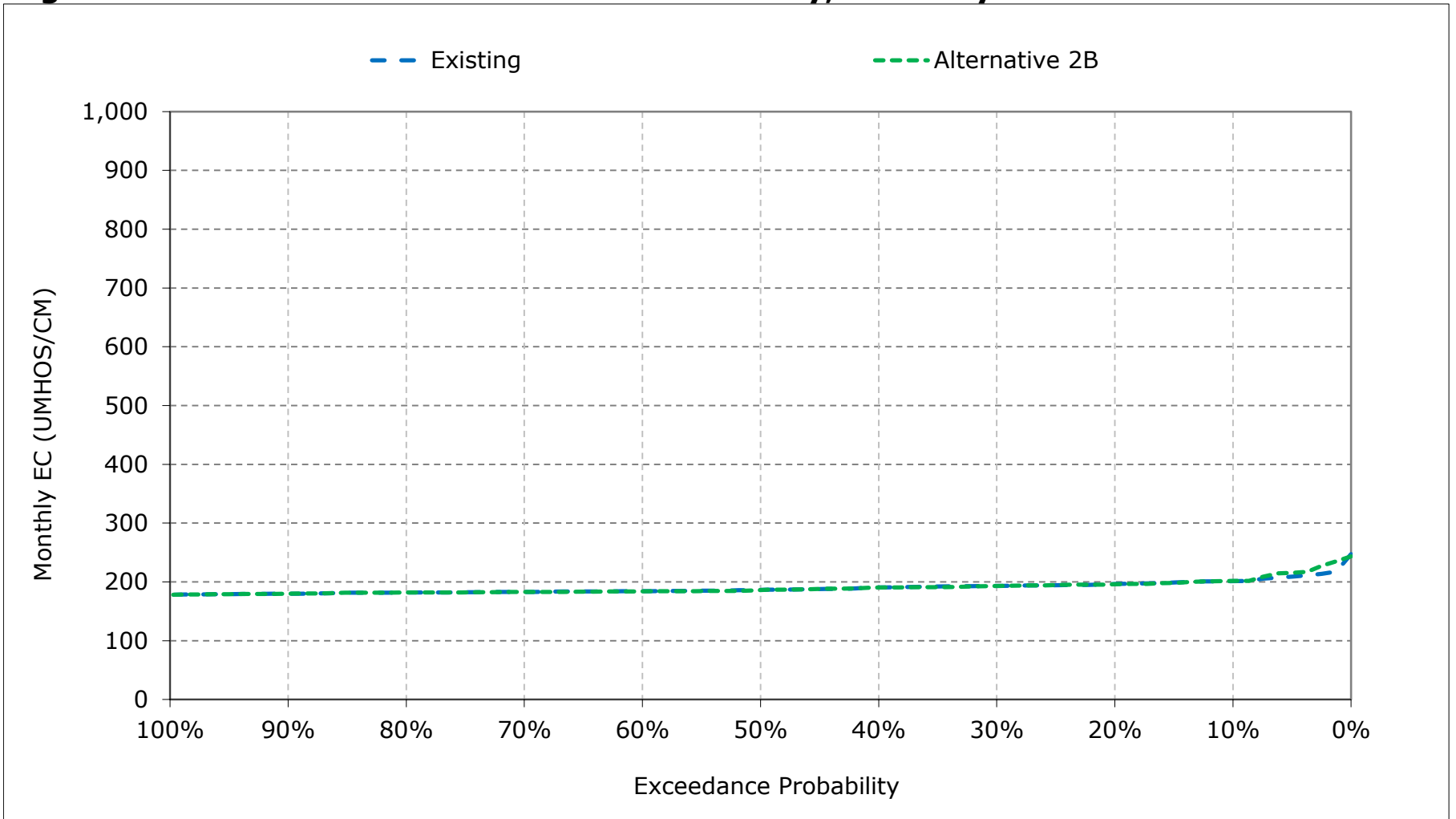
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

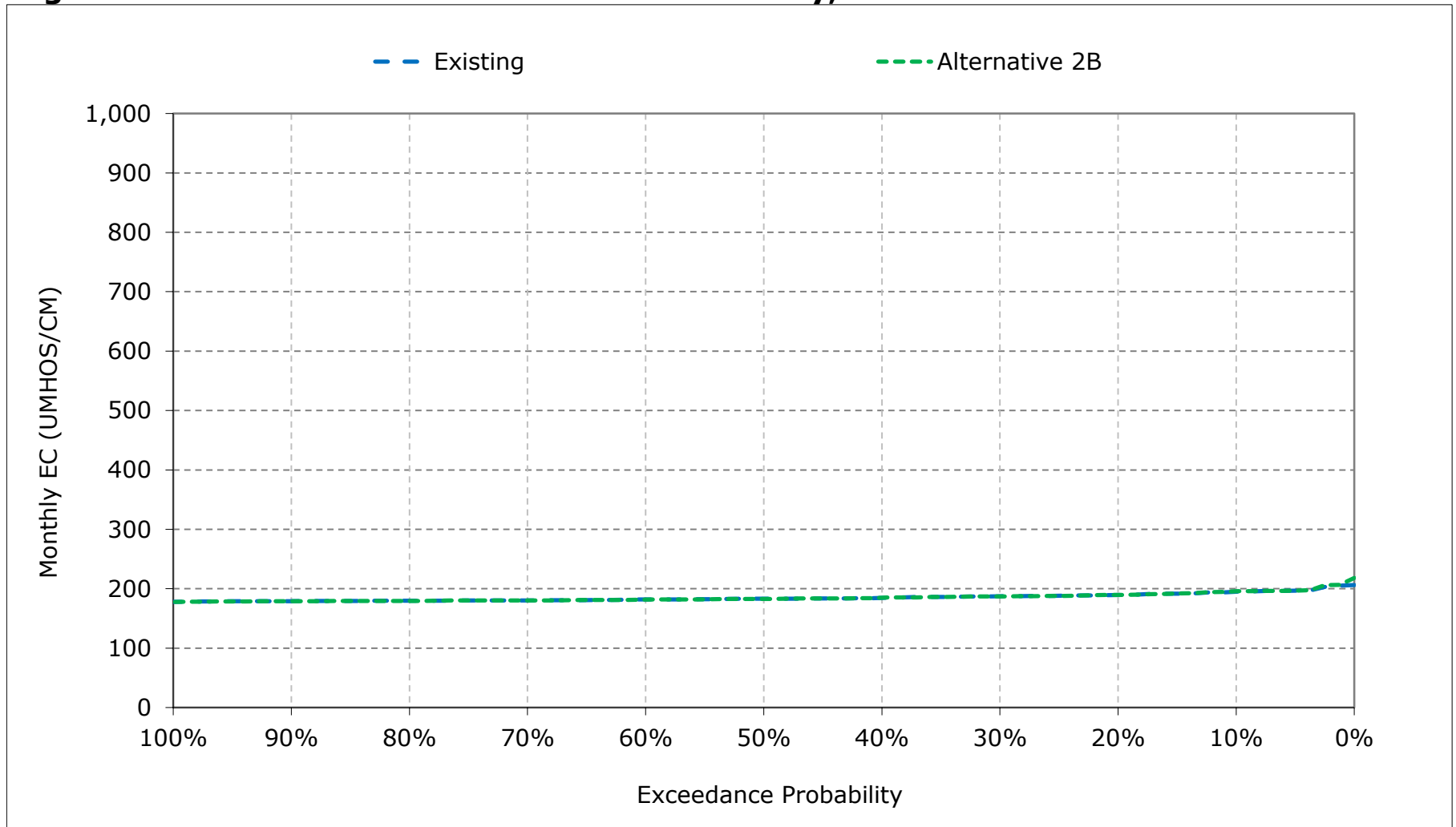
**Figure 4-7. Sacramento River at Rio Vista Salinity, January EC**



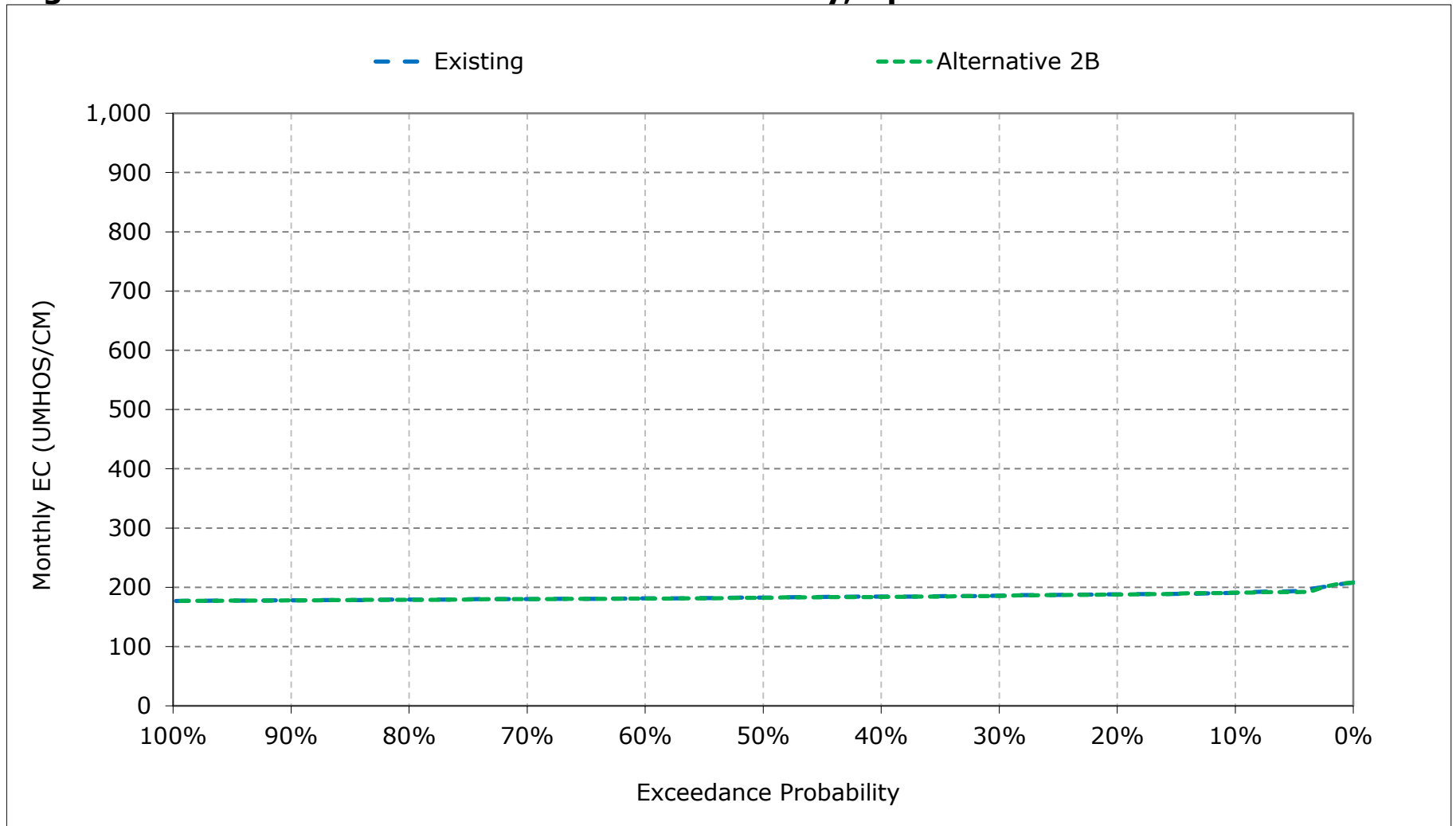
**Figure 4-8. Sacramento River at Rio Vista Salinity, February EC**



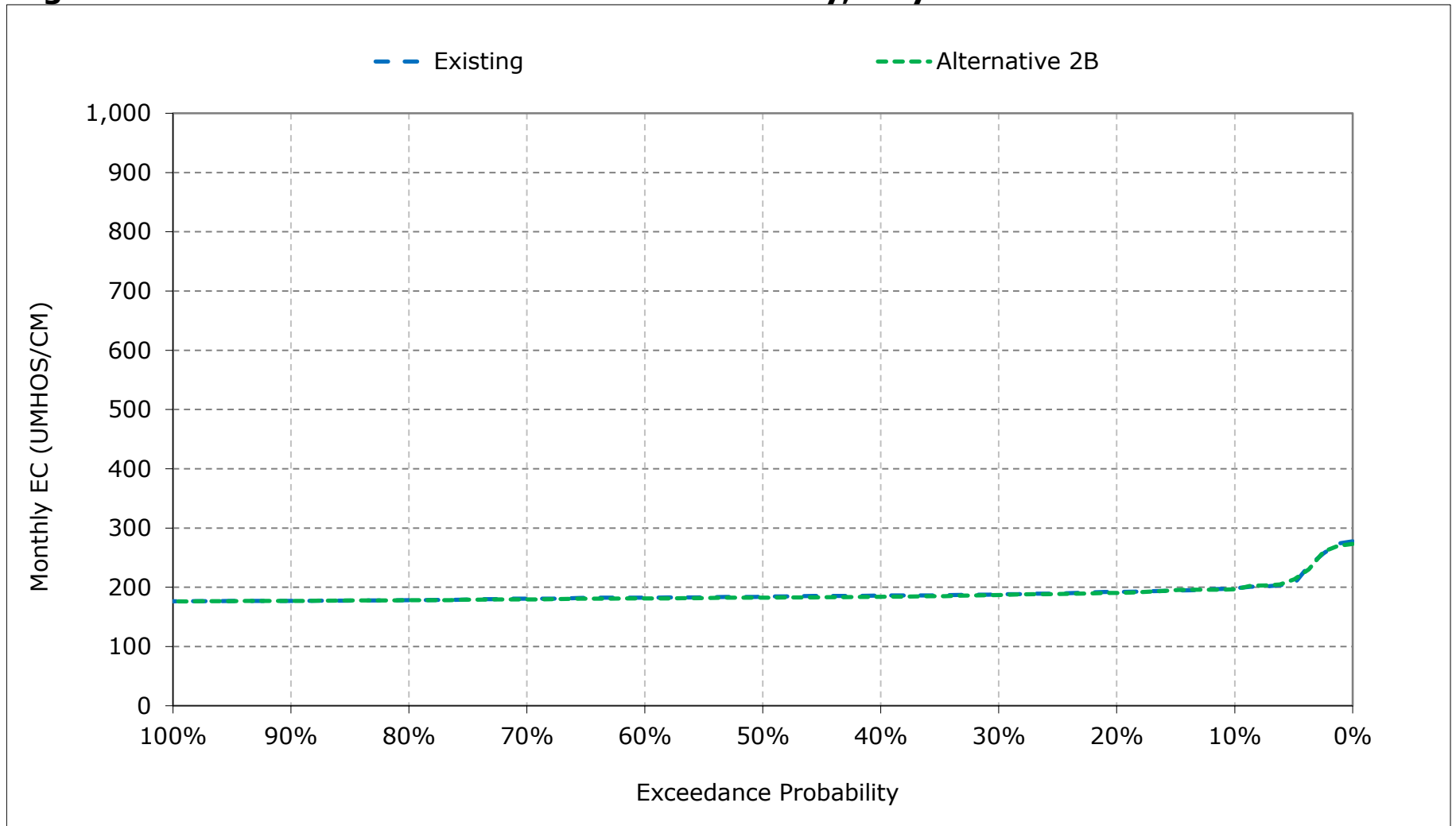
**Figure 4-9. Sacramento River at Rio Vista Salinity, March EC**



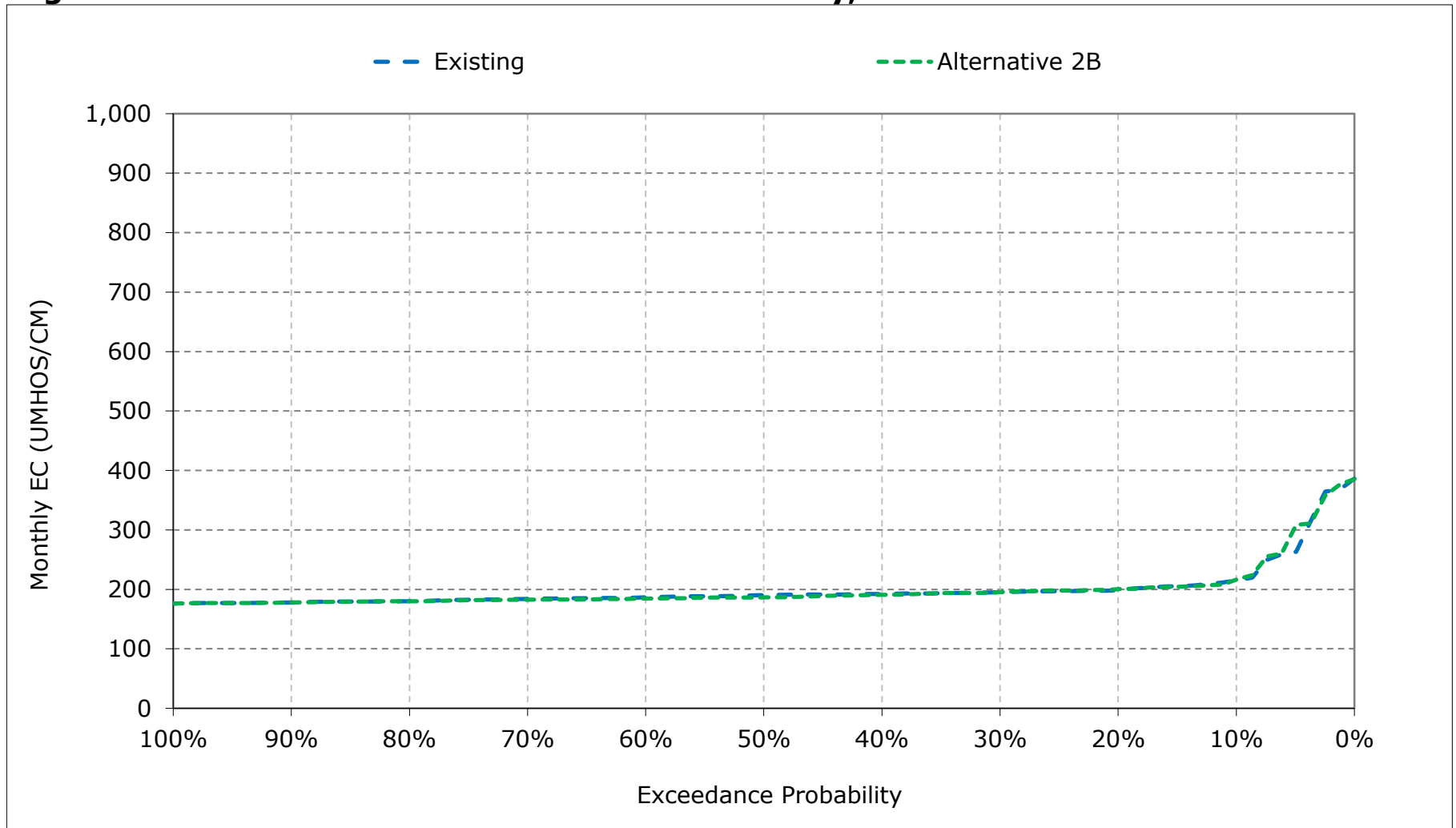
**Figure 4-10. Sacramento River at Rio Vista Salinity, April EC**



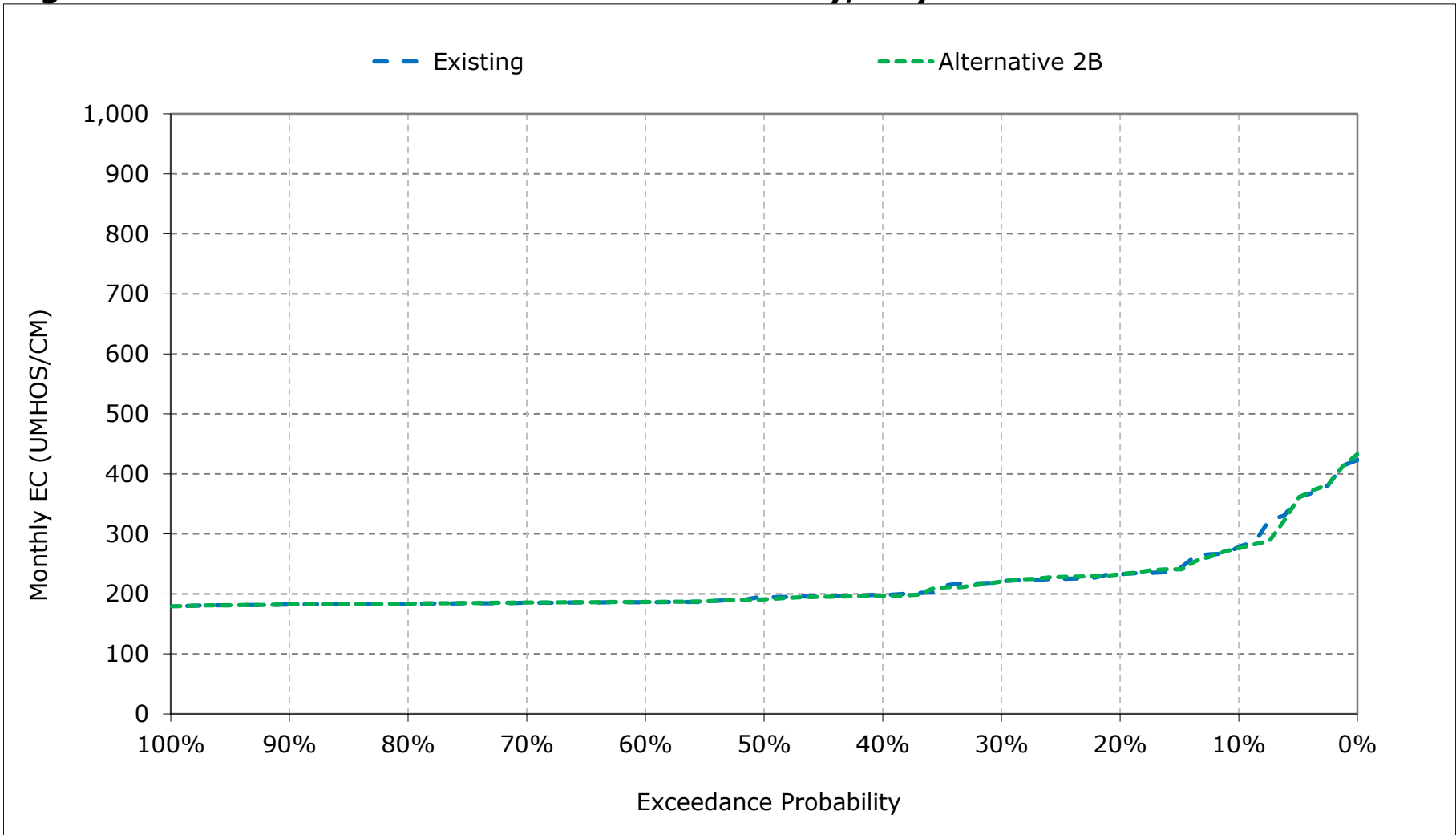
**Figure 4-11. Sacramento River at Rio Vista Salinity, May EC**



**Figure 4-12. Sacramento River at Rio Vista Salinity, June EC**

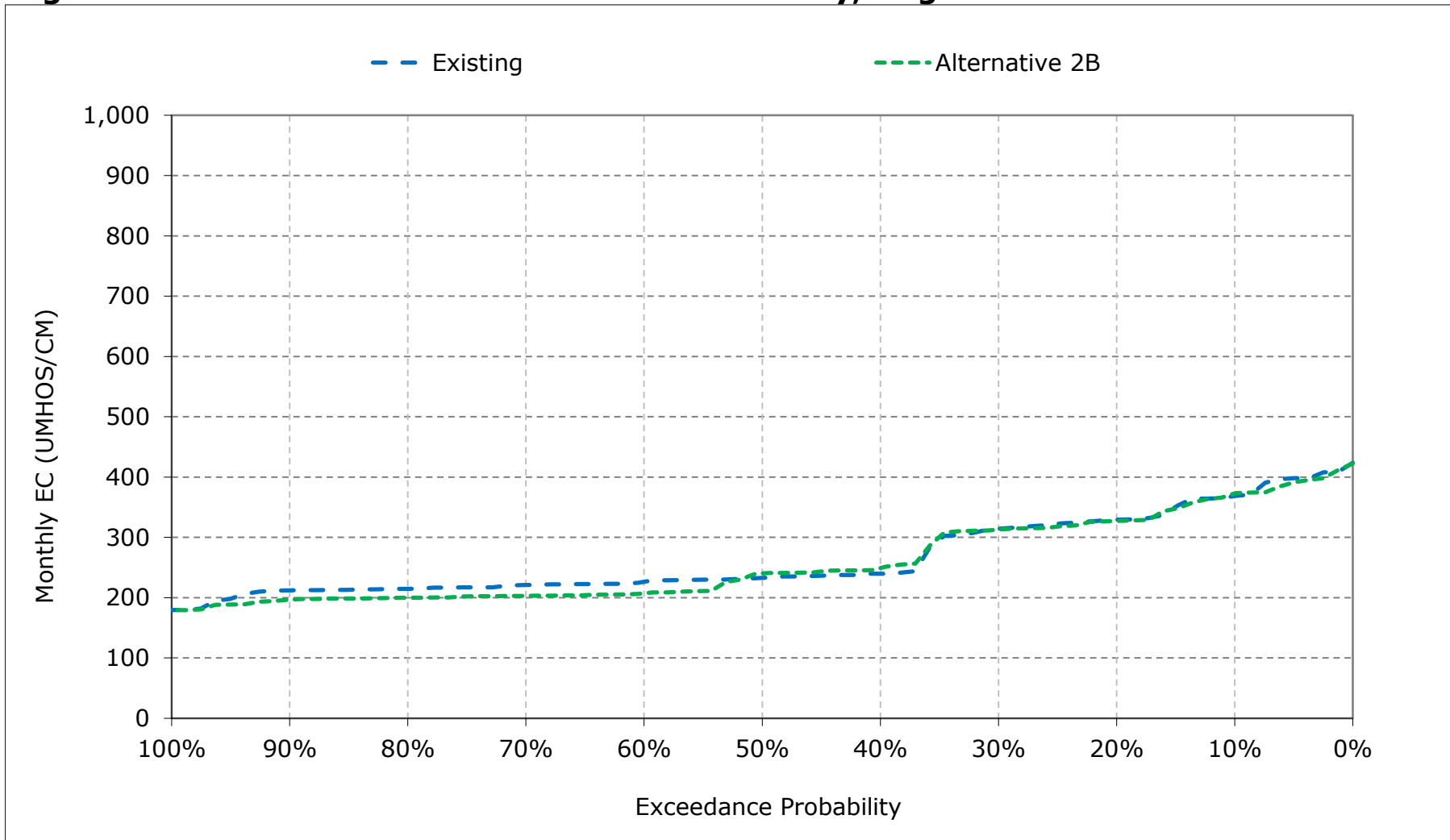


**Figure 4-13. Sacramento River at Rio Vista Salinity, July EC**

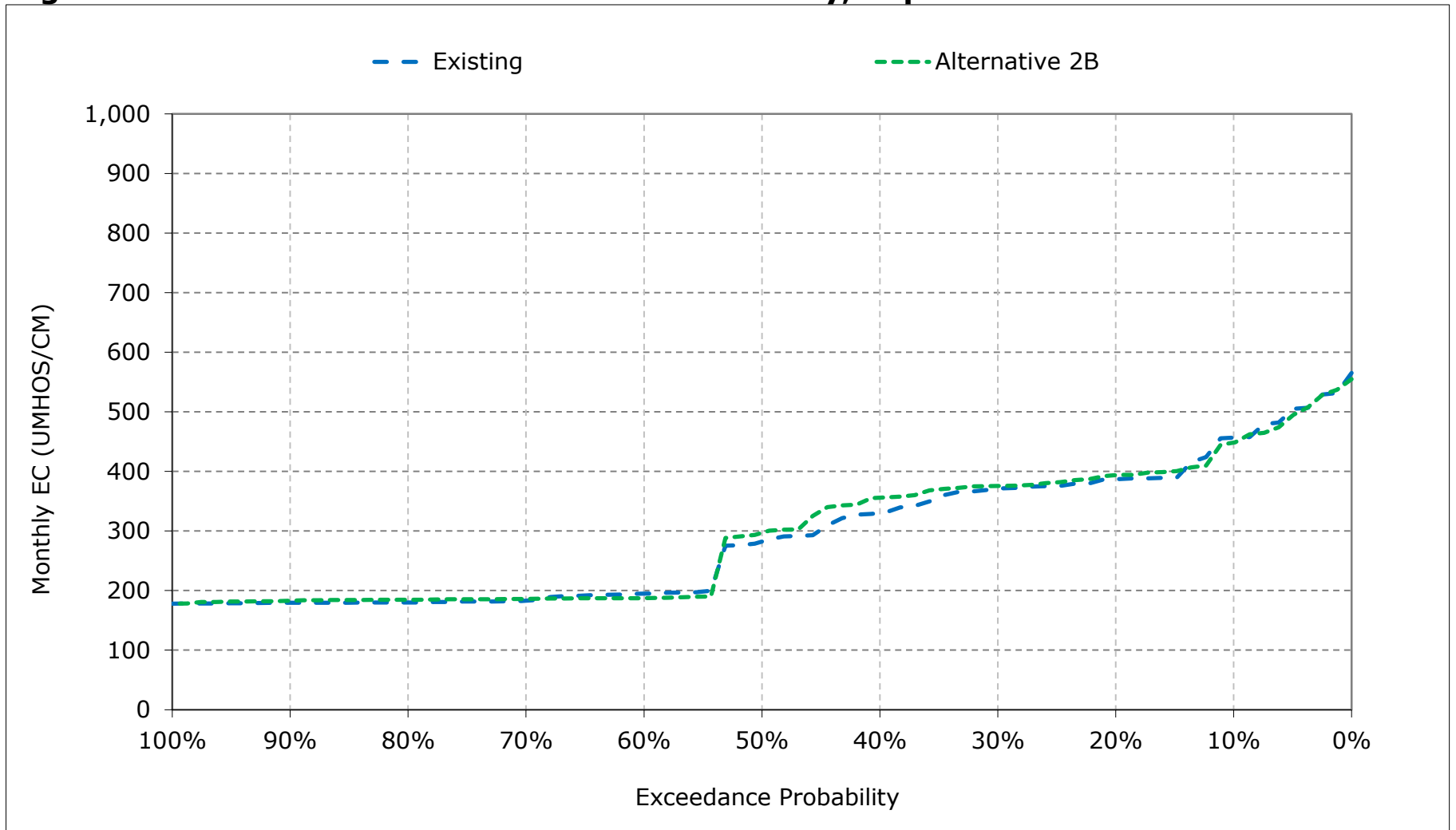




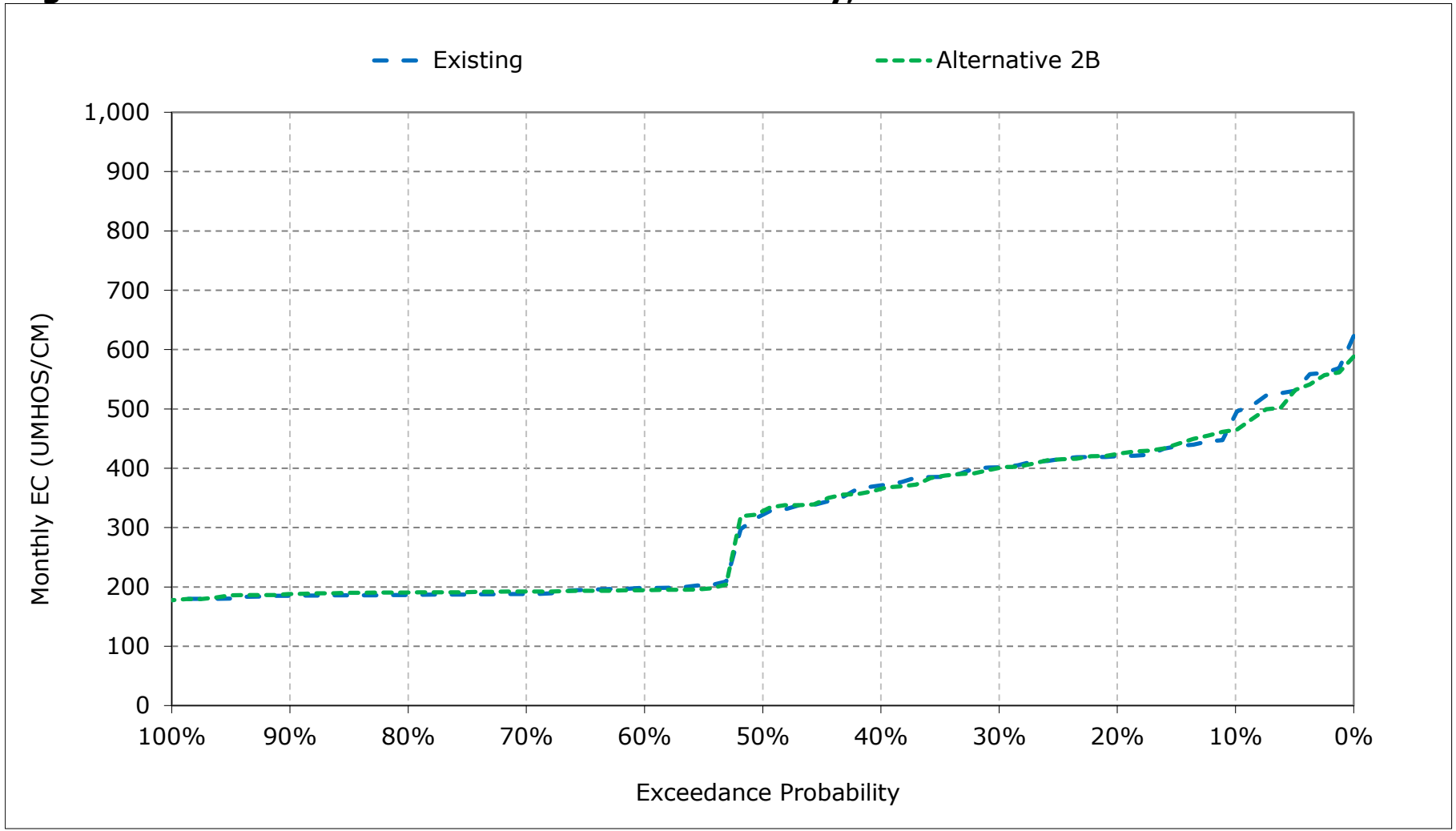
**Figure 4-14. Sacramento River at Rio Vista Salinity, August EC**



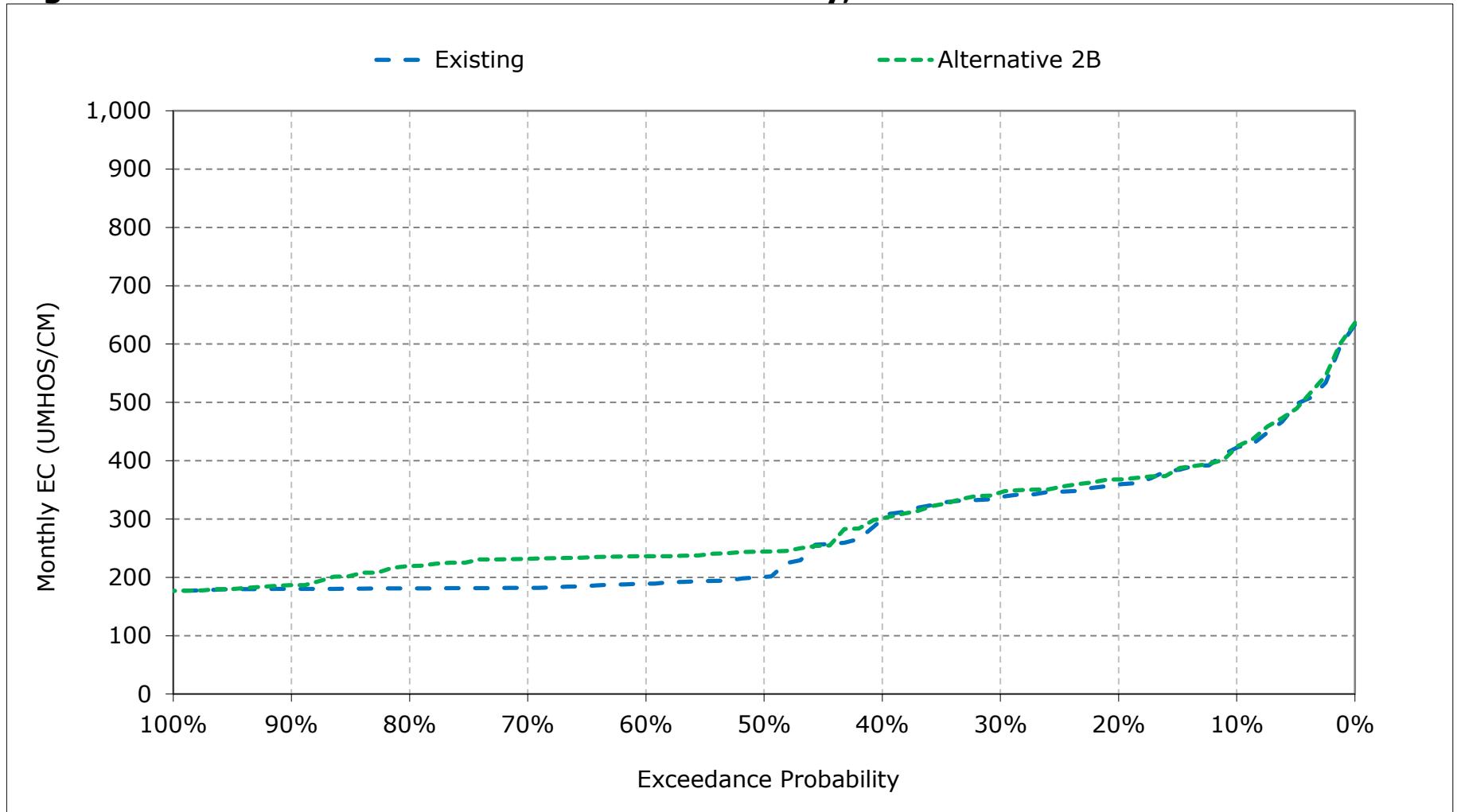
**Figure 4-15. Sacramento River at Rio Vista Salinity, September EC**



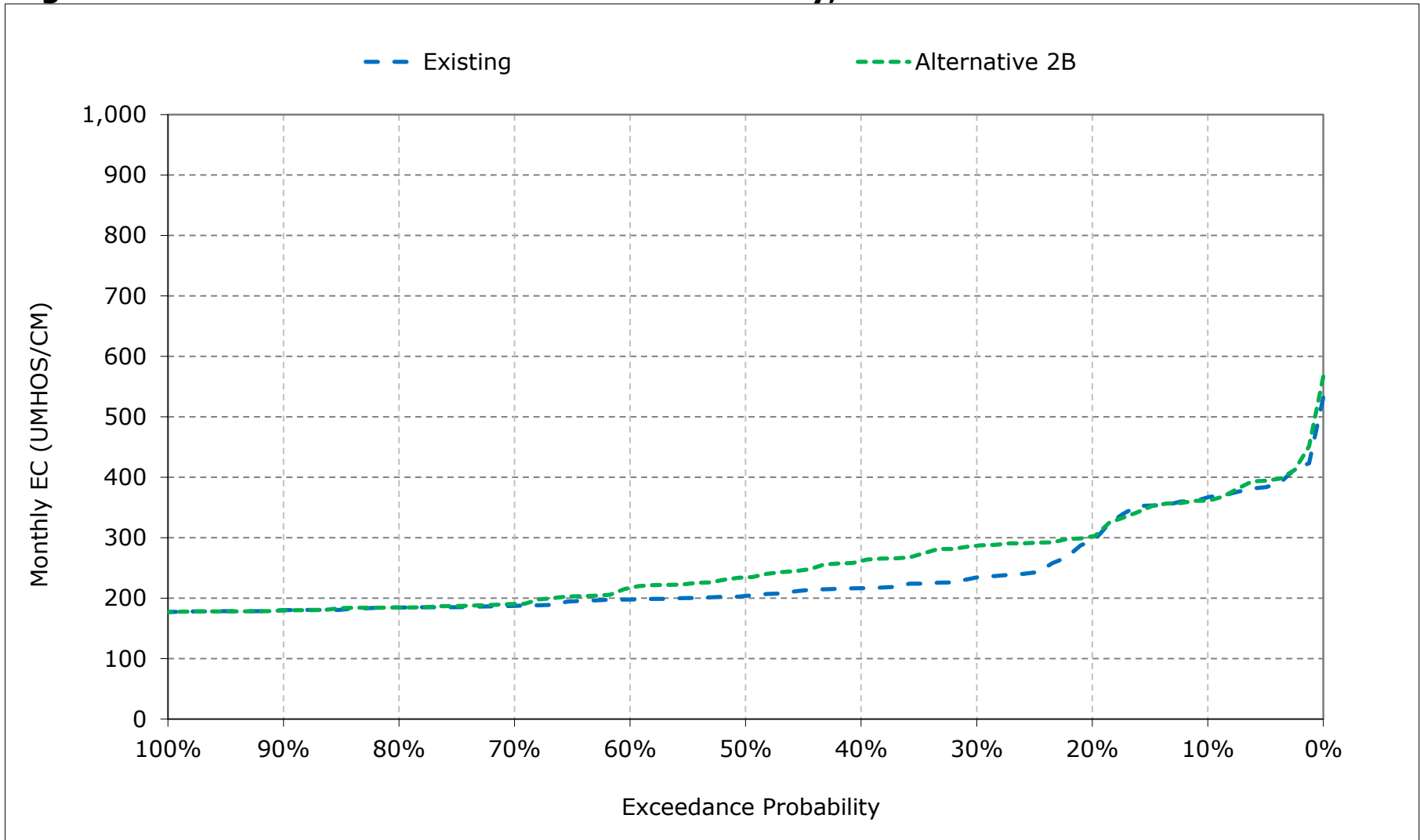
**Figure 4-16. Sacramento River at Rio Vista Salinity, October EC**



**Figure 4-17. Sacramento River at Rio Vista Salinity, November EC**



**Figure 4-18. Sacramento River at Rio Vista Salinity, December EC**



**Table 5-1. Sacramento River at Emmaton Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3,495	2,968	2,416	934	343	312	348	559	832	1,536	2,564	3,311
20%	3,015	2,476	1,573	736	252	238	247	399	595	1,007	2,001	2,732
30%	2,933	2,366	878	518	226	197	207	304	555	814	1,887	2,644
40%	2,724	1,968	712	352	206	193	198	232	461	535	1,085	2,188
50%	2,082	539	533	288	195	189	193	206	391	442	957	1,544
60%	644	426	493	227	190	187	189	198	300	348	912	472
70%	385	275	252	196	185	183	186	192	253	317	840	321
80%	342	247	211	188	183	181	182	183	194	293	796	302
90%	314	238	182	182	182	181	181	180	182	266	731	278
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	1,787	1,370	891	448	249	222	234	323	514	712	1,345	1,561
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	1,273	710	302	209	184	183	185	190	230	281	748	283
Above Normal (15%)	1,870	1,412	735	301	199	184	188	195	316	328	809	464
Below Normal (17%)	1,848	1,367	1,153	437	211	199	206	235	390	485	1,020	1,843
Dry (22%)	1,958	1,695	1,017	590	285	233	240	326	562	901	1,951	2,694
Critical (15%)	2,492	2,273	1,828	913	432	353	408	839	1,398	2,011	2,644	3,399

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3,493	2,956	2,417	1,126	345	315	349	554	847	1,512	2,464	3,208
20%	3,070	2,544	1,597	848	262	230	254	428	635	1,062	2,031	2,797
30%	2,898	2,370	1,454	594	229	196	211	337	572	816	1,935	2,702
40%	2,661	1,979	1,223	377	205	193	198	235	451	533	1,226	2,420
50%	2,108	1,190	863	286	195	189	192	207	362	434	1,049	1,642
60%	621	1,094	618	221	189	187	187	195	291	358	719	371
70%	549	1,015	328	196	185	183	184	187	241	331	639	362
80%	479	831	244	189	183	181	182	181	193	305	620	337
90%	407	339	187	182	182	181	180	179	181	267	561	312
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	1,807	1,638	1,066	495	258	224	234	332	520	714	1,287	1,598
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	1,300	1,043	373	209	184	183	184	192	238	287	573	328
Above Normal (15%)	1,881	1,647	980	333	196	185	187	195	296	332	650	347
Below Normal (17%)	1,893	1,624	1,395	457	210	199	208	246	378	491	1,155	2,050
Dry (22%)	1,976	1,966	1,245	685	304	234	240	350	580	922	1,972	2,736
Critical (15%)	2,477	2,445	2,004	1,033	468	364	410	847	1,433	1,968	2,599	3,367

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-1	-11	1	192	2	3	2	-5	15	-24	-100	-104
20%	55	69	23	112	10	-8	7	29	41	56	31	65
30%	-35	3	576	77	3	-1	4	33	17	2	49	58
40%	-64	11	511	25	-1	0	0	3	-11	-2	141	232
50%	26	651	329	-2	0	0	-1	1	-28	-8	92	98
60%	-23	668	125	-6	-1	-1	-1	-4	-9	9	-193	-101
70%	164	740	76	0	0	0	-1	-5	-12	14	-202	41
80%	138	584	33	1	0	0	-1	-3	-1	12	-176	36
90%	93	101	5	0	0	0	-1	-1	-1	2	-169	34
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	19	269	175	47	9	2	0	9	7	2	-58	37
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	27	333	71	0	0	0	0	2	8	6	-175	45
Above Normal (15%)	10	235	245	32	-3	0	-1	-1	-20	5	-158	-117
Below Normal (17%)	45	257	241	21	-2	0	2	11	-12	6	135	206
Dry (22%)	18	271	228	95	19	1	1	24	18	21	21	42
Critical (15%)	-15	172	175	120	36	11	1	7	35	-42	-45	-32

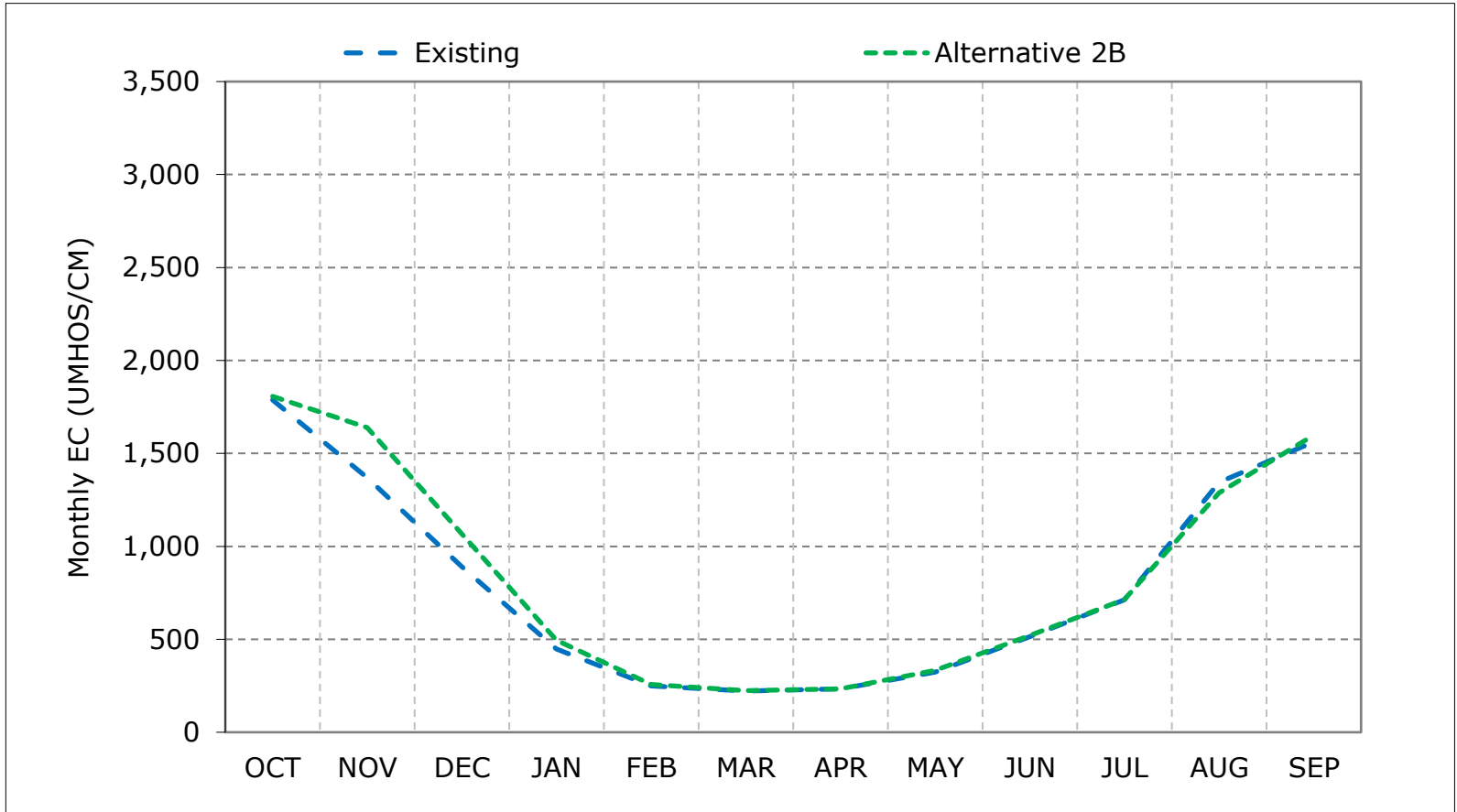
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

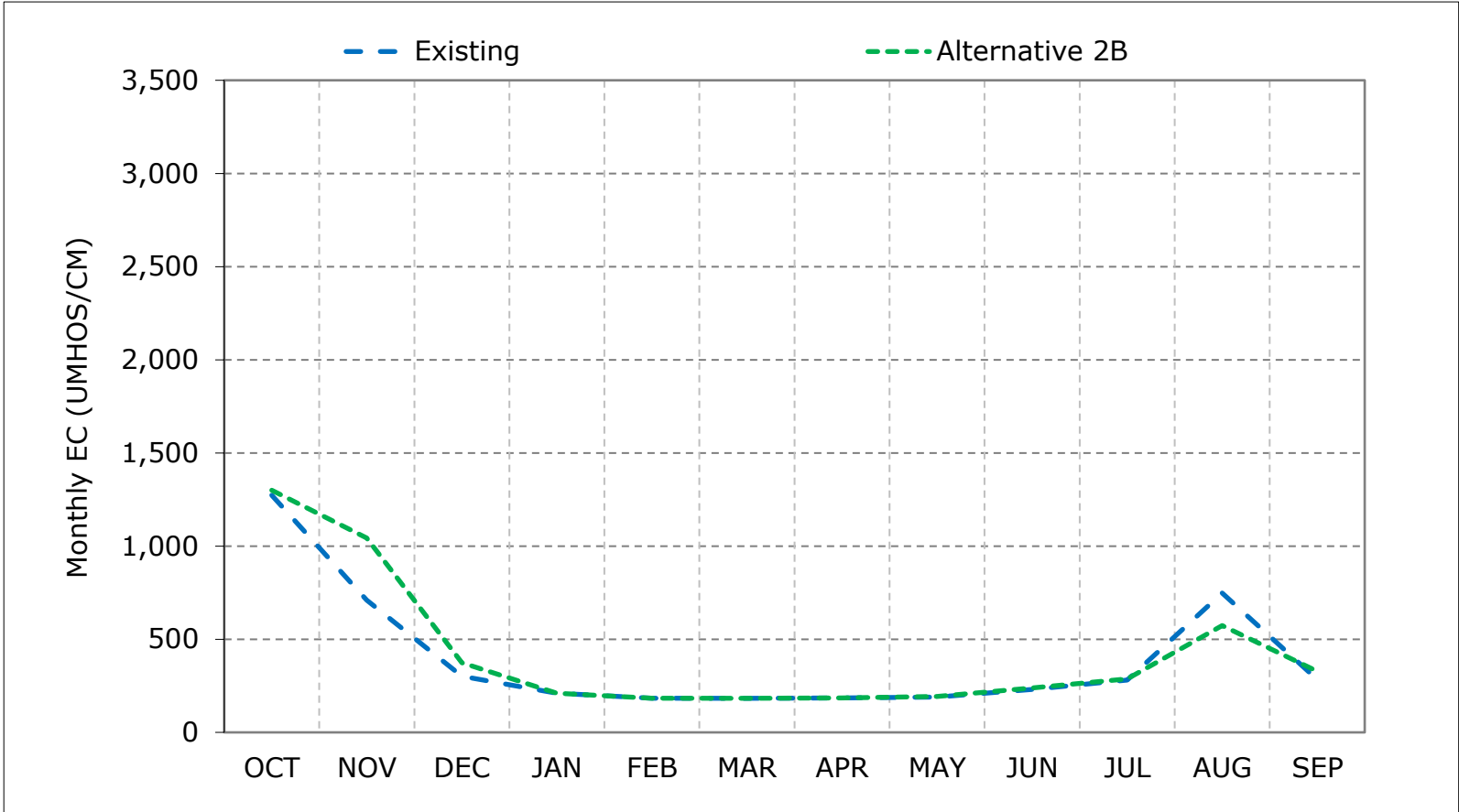
**Figure 5-1. Sacramento River at Emmaton Salinity, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 5-2. Sacramento River at Emmaton Salinity, Wet Year Average EC**

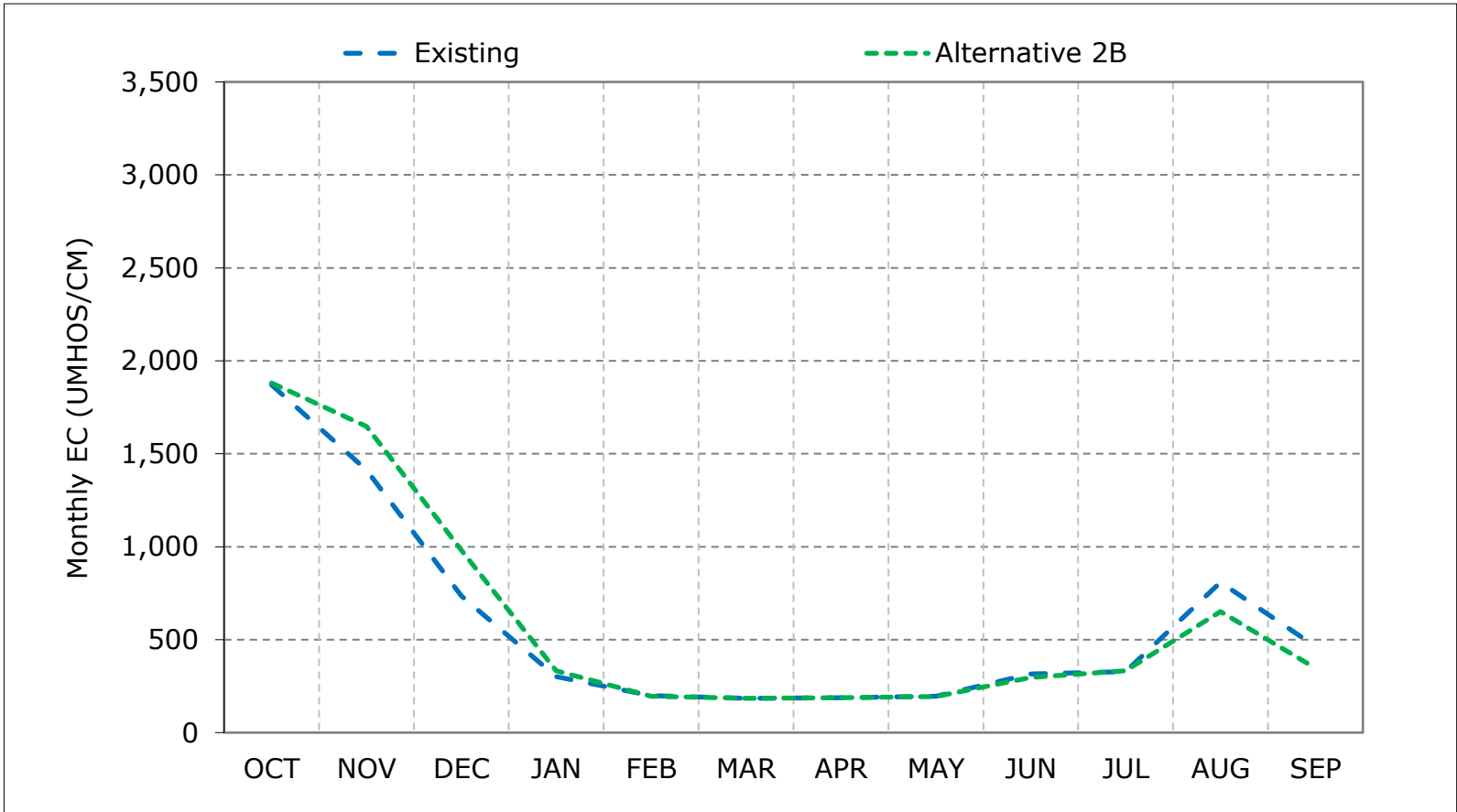


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



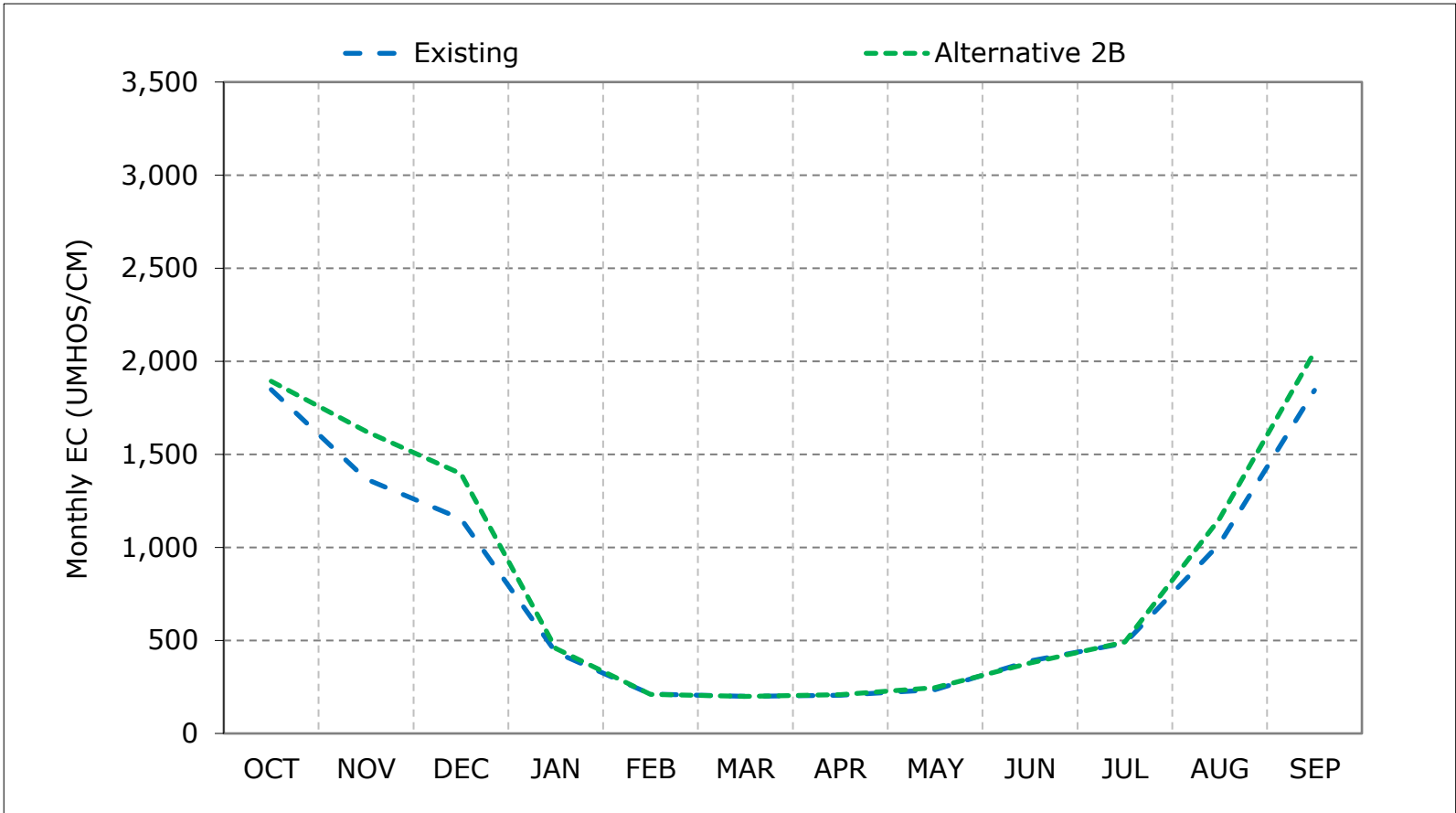
**Figure 5-3. Sacramento River at Emmaton Salinity, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

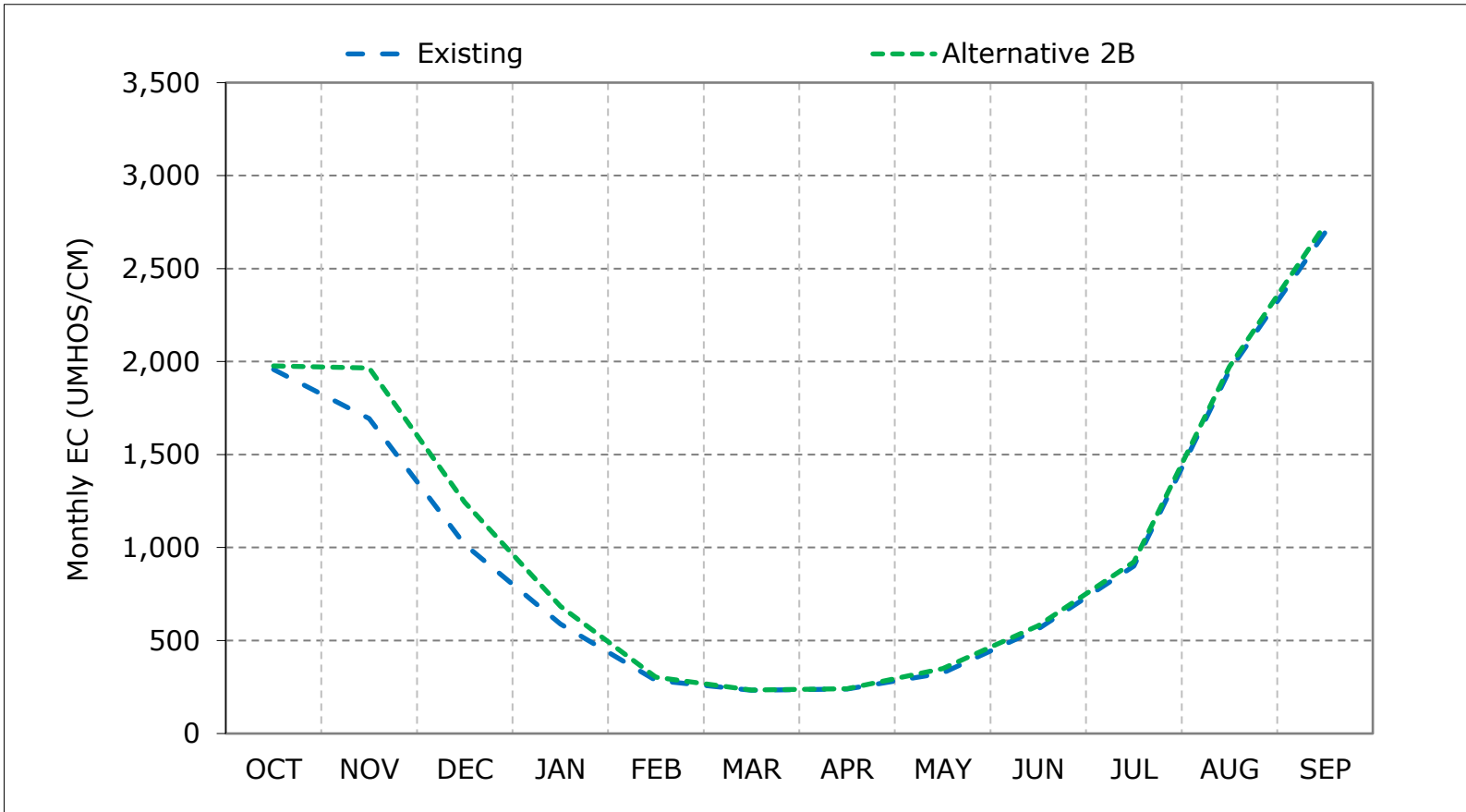
**Figure 5-4. Sacramento River at Emmaton Salinity, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

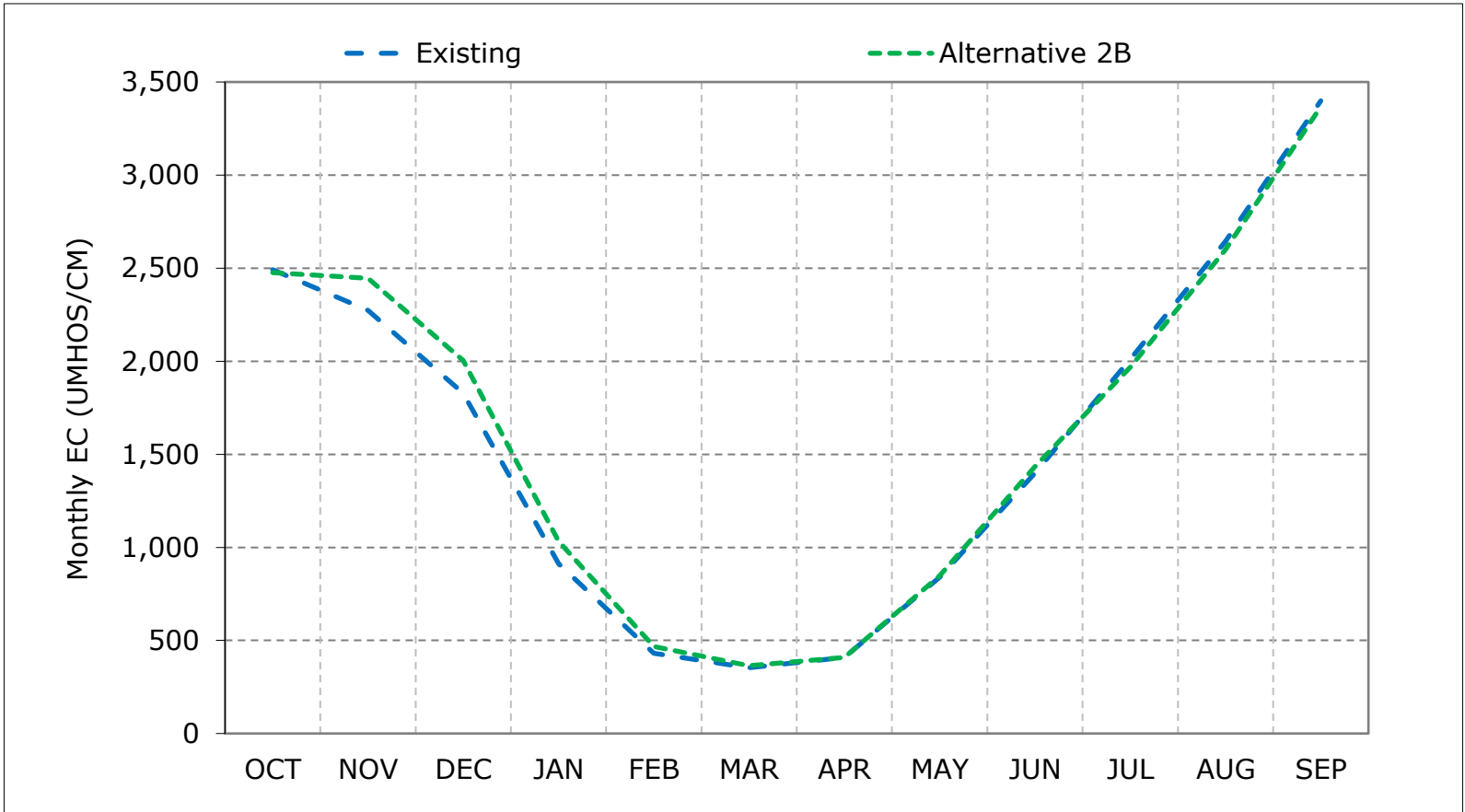
**Figure 5-5. Sacramento River at Emmaton Salinity, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

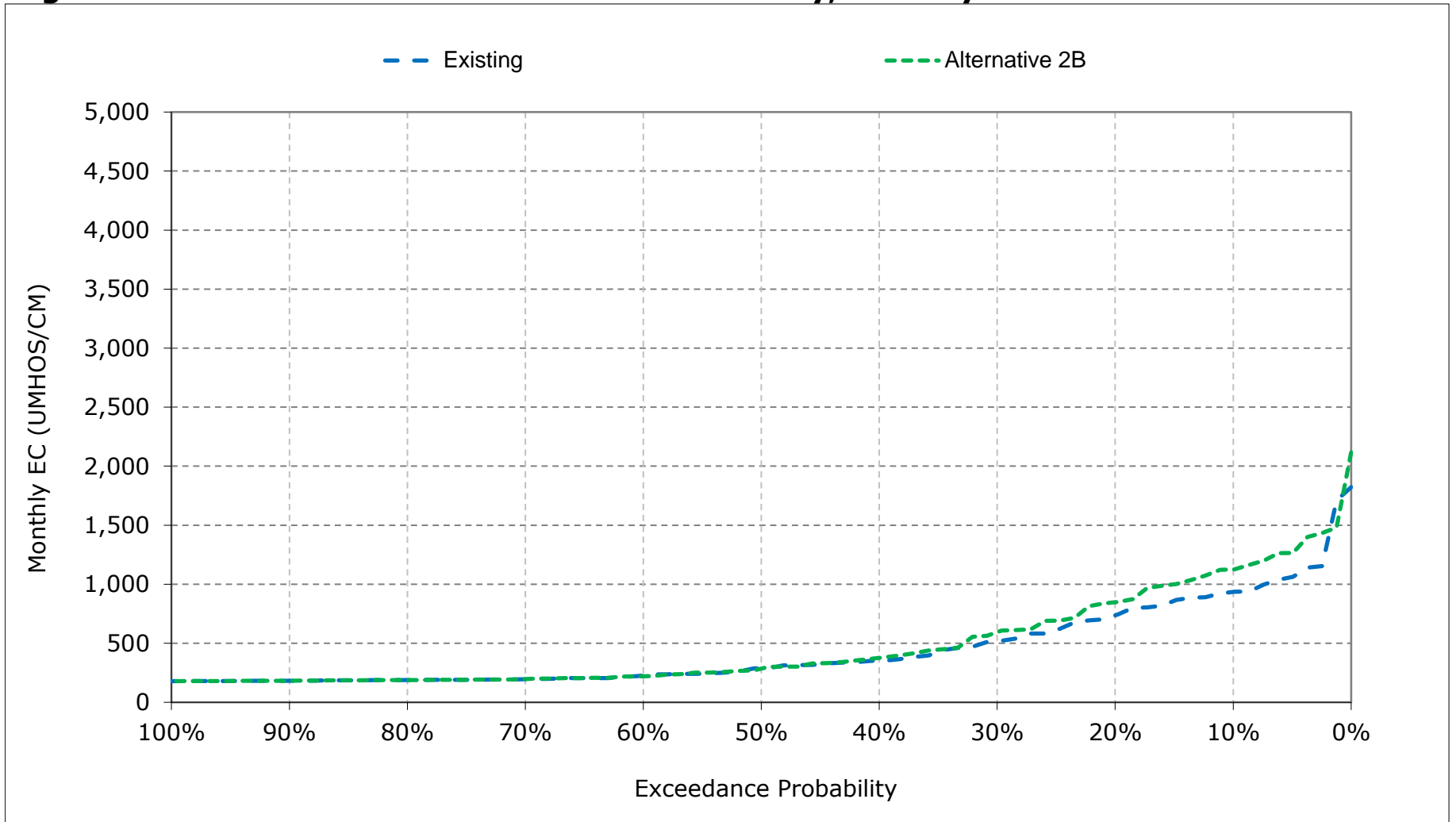
**Figure 5-6. Sacramento River at Emmaton Salinity, Critical Year Average EC**



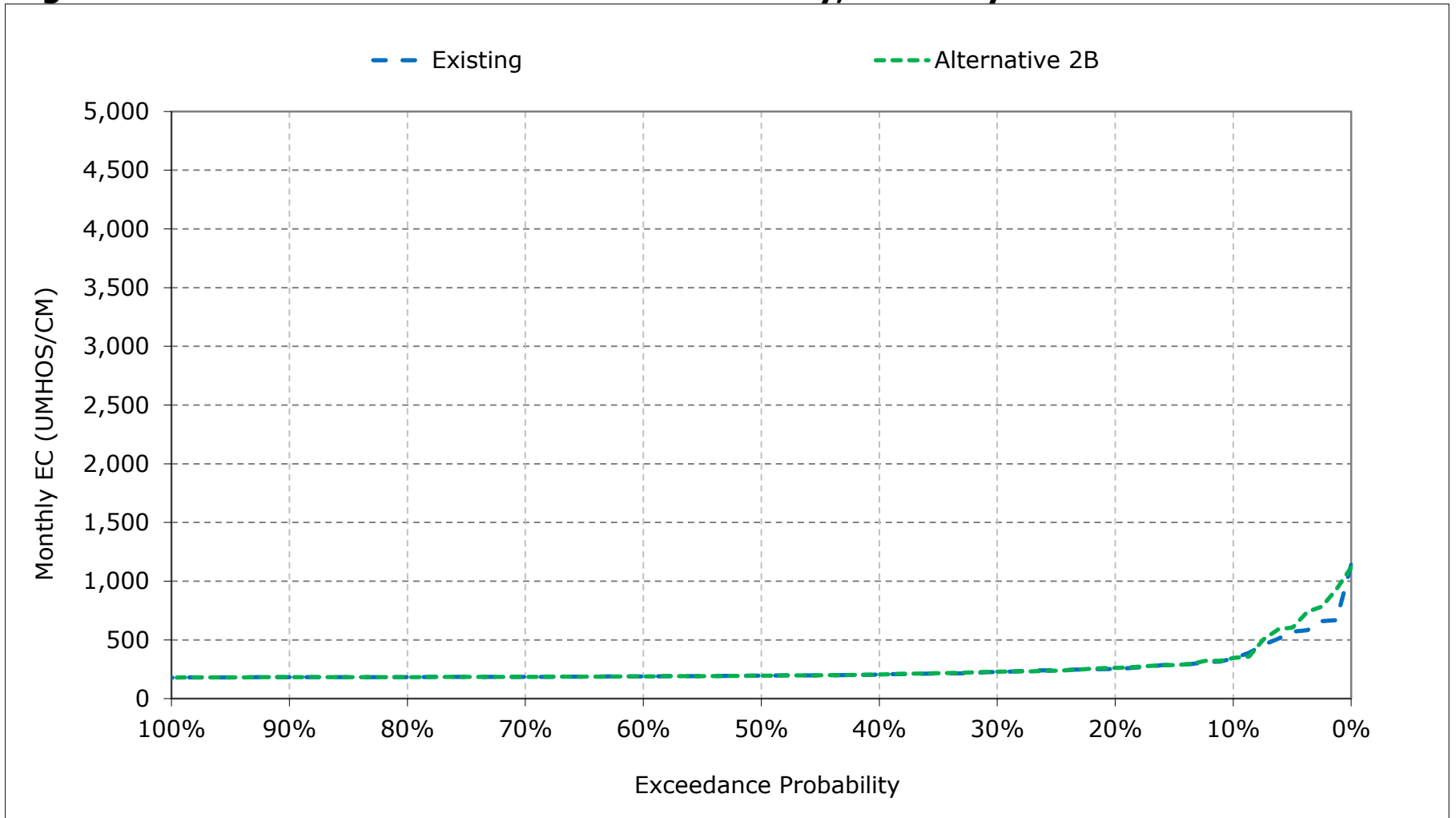
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

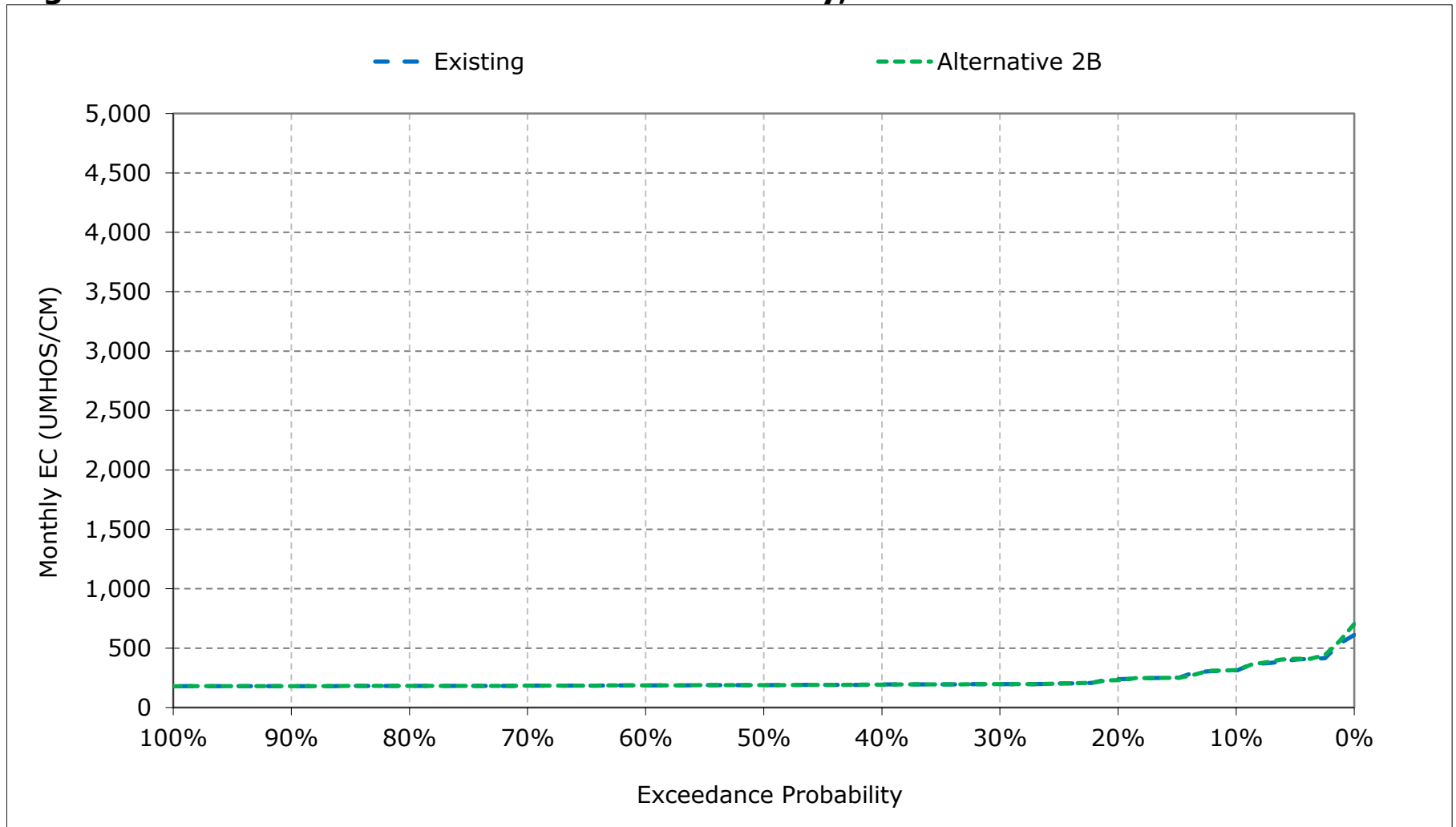
**Figure 5-7. Sacramento River at Emmaton Salinity, January EC**



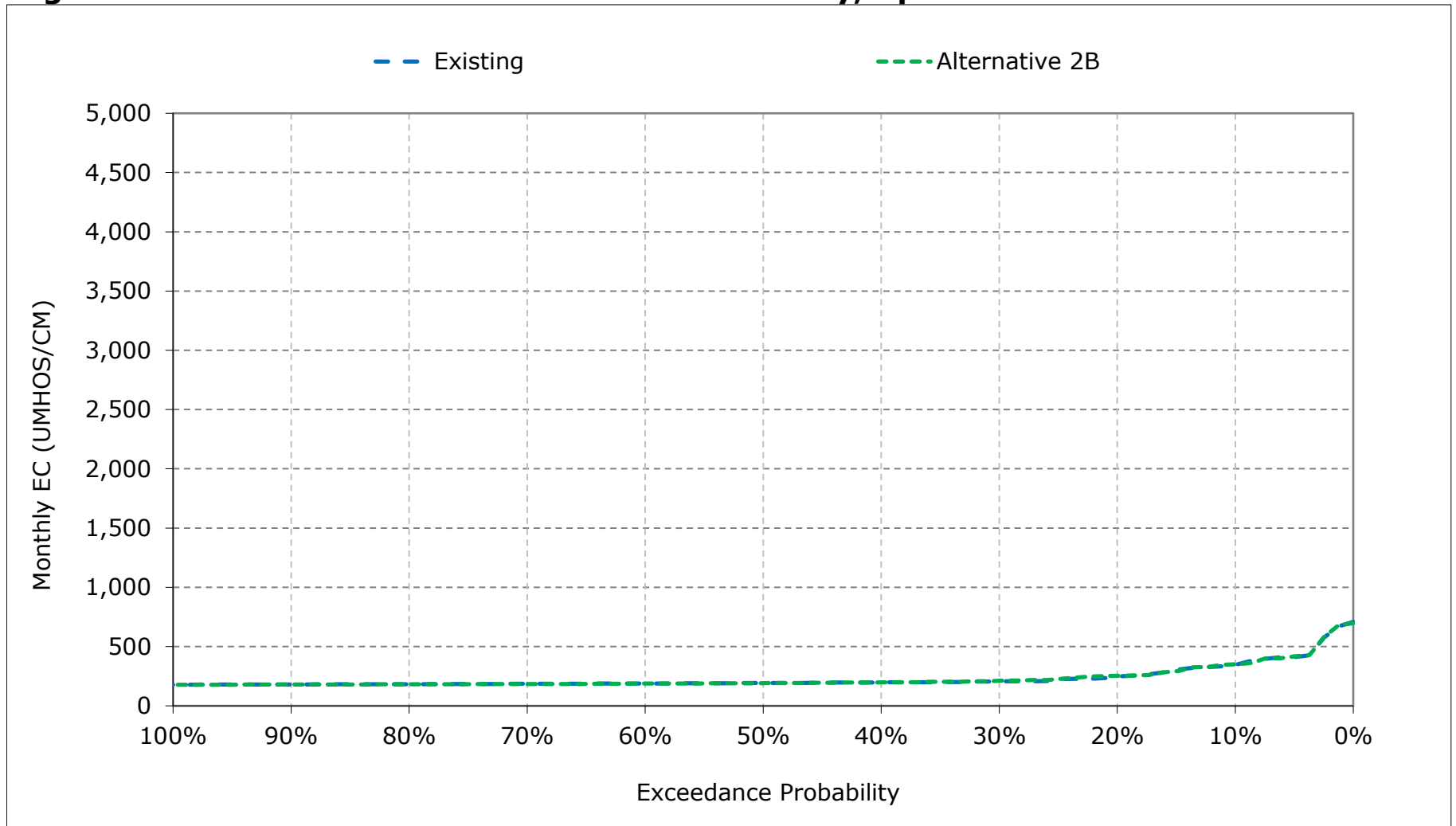
**Figure 5-8. Sacramento River at Emmaton Salinity, February EC**



**Figure 5-9. Sacramento River at Emmaton Salinity, March EC**

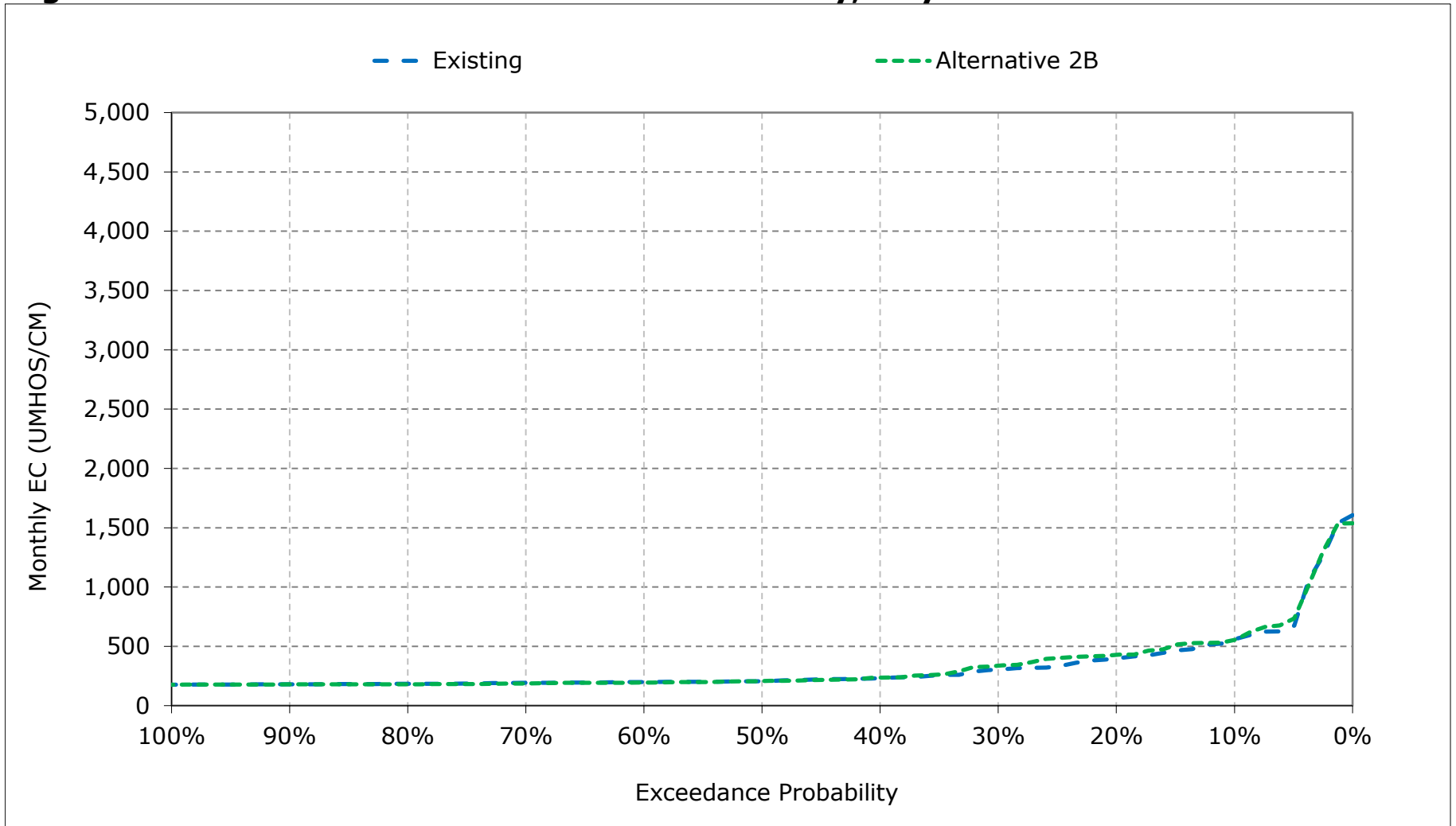


**Figure 5-10. Sacramento River at Emmaton Salinity, April EC**

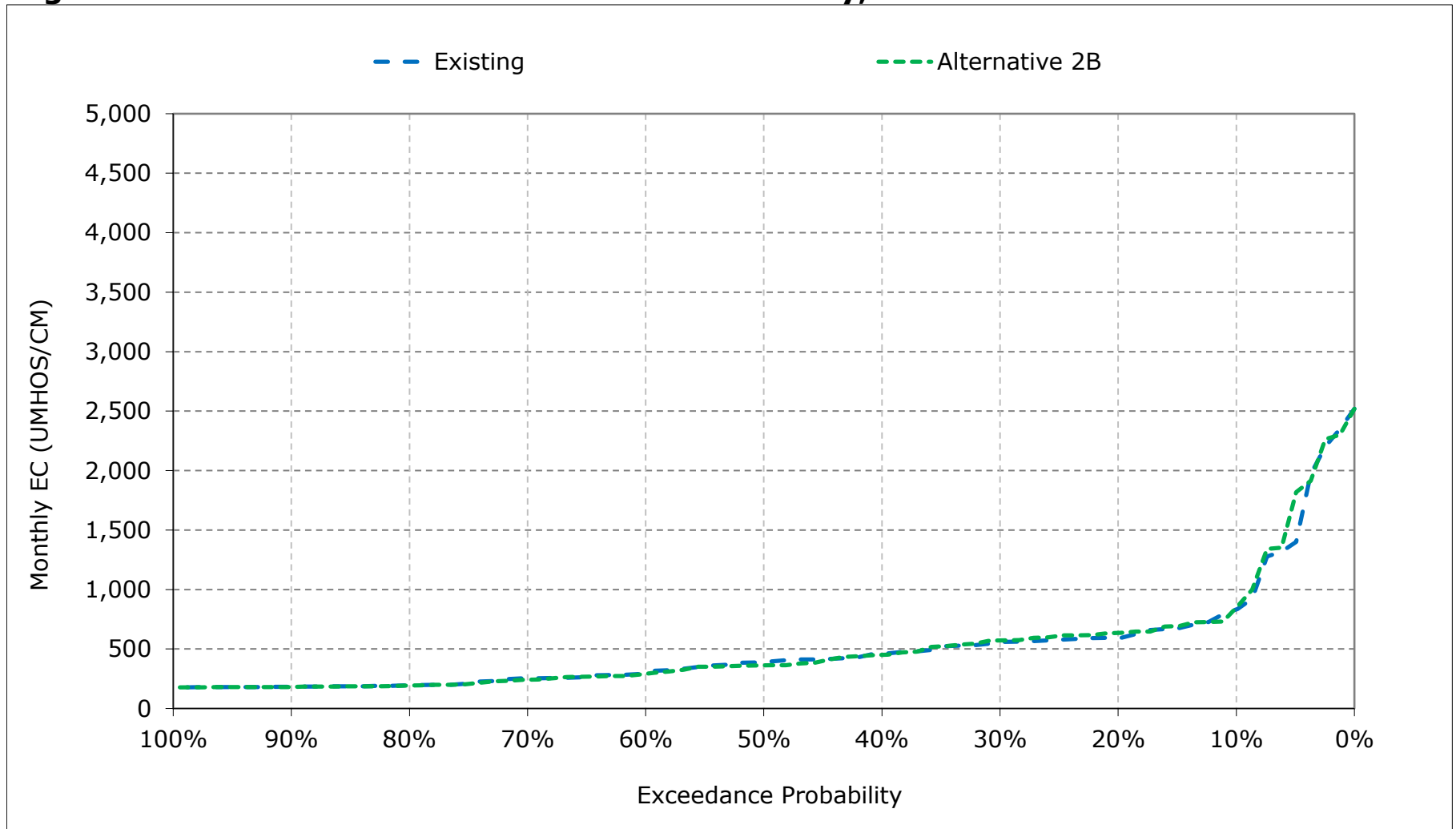




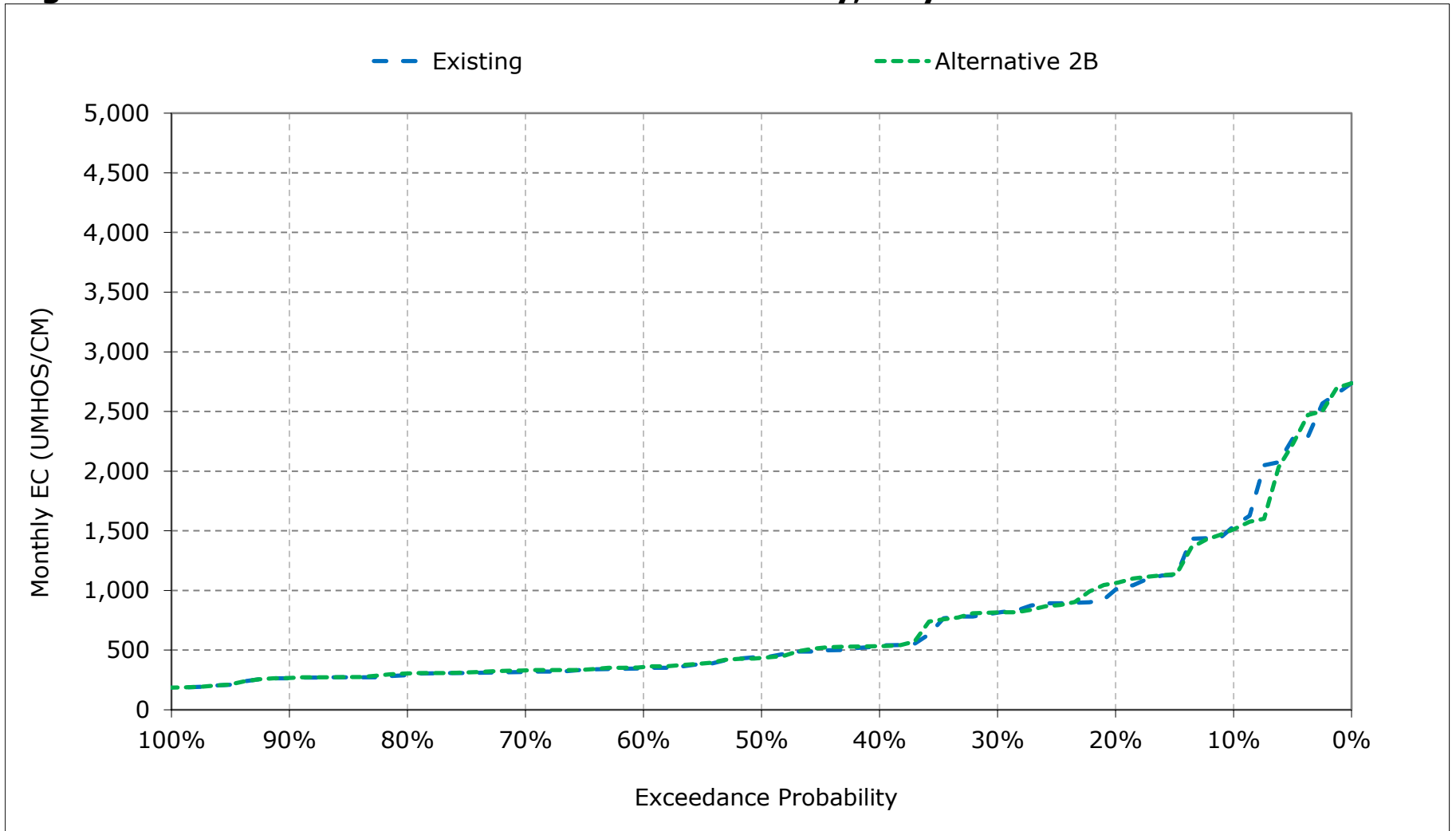
**Figure 5-11. Sacramento River at Emmaton Salinity, May EC**



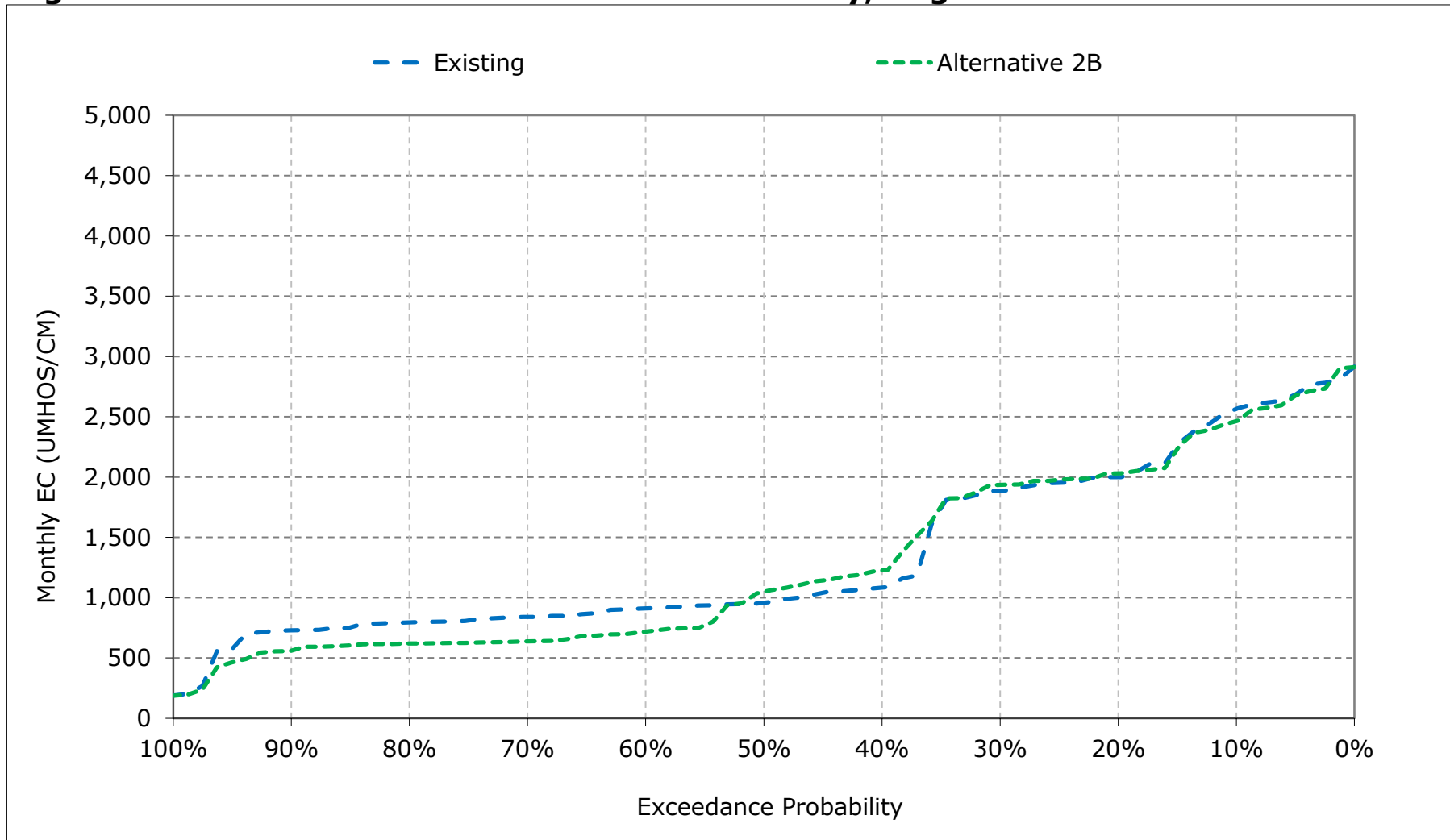
**Figure 5-12. Sacramento River at Emmaton Salinity, June EC**



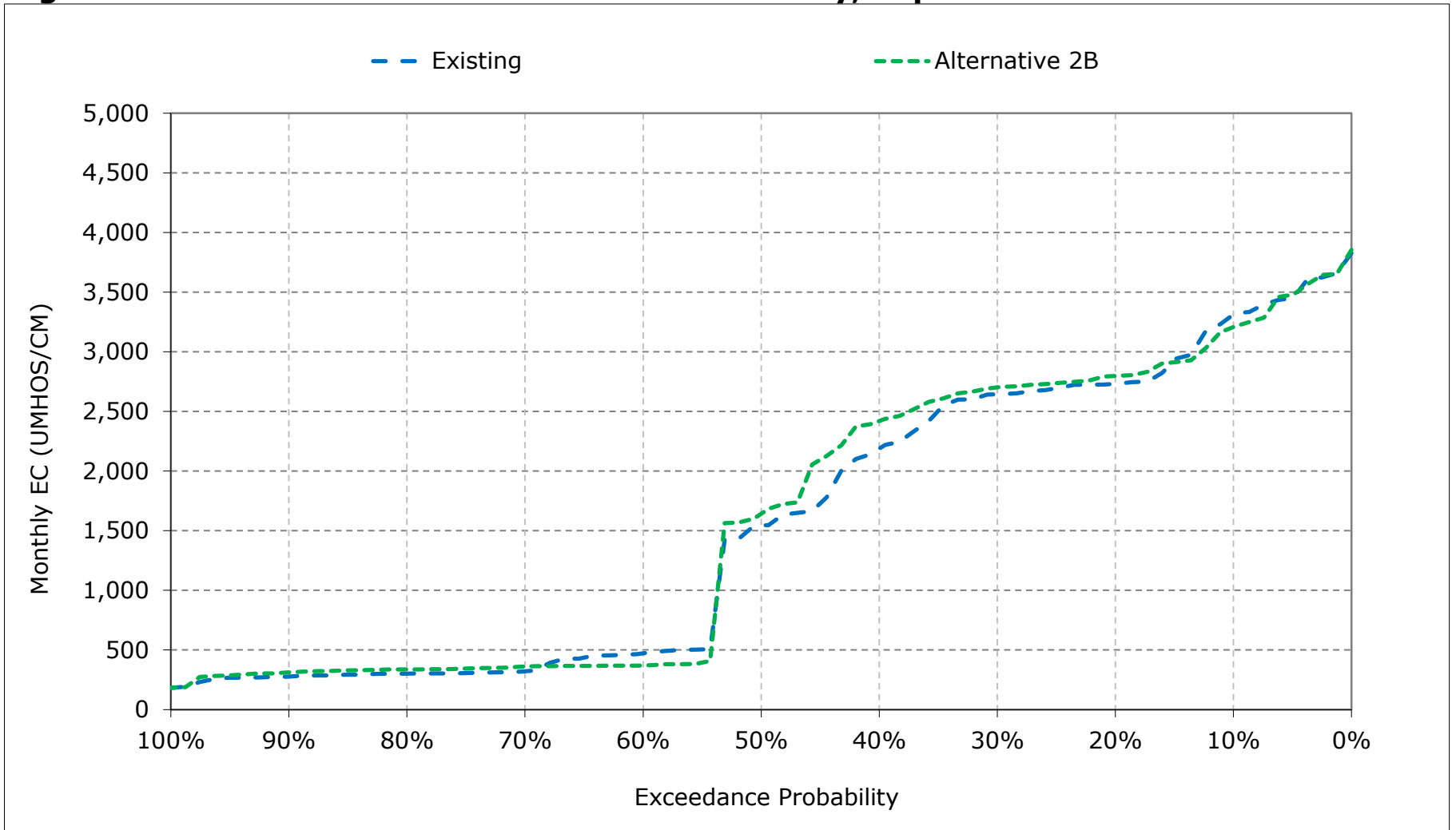
**Figure 5-13. Sacramento River at Emmaton Salinity, July EC**



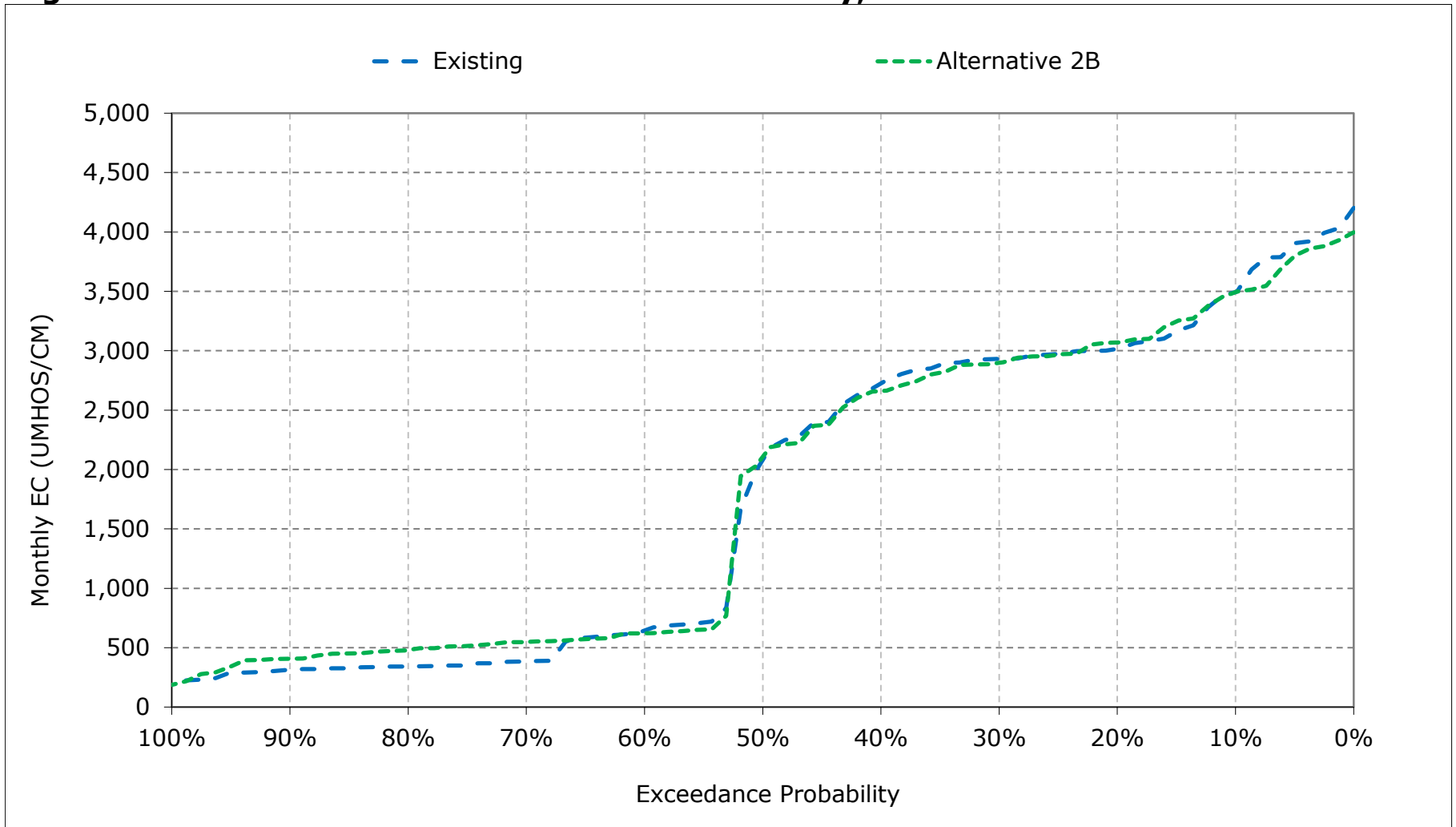
**Figure 5-14. Sacramento River at Emmaton Salinity, August EC**



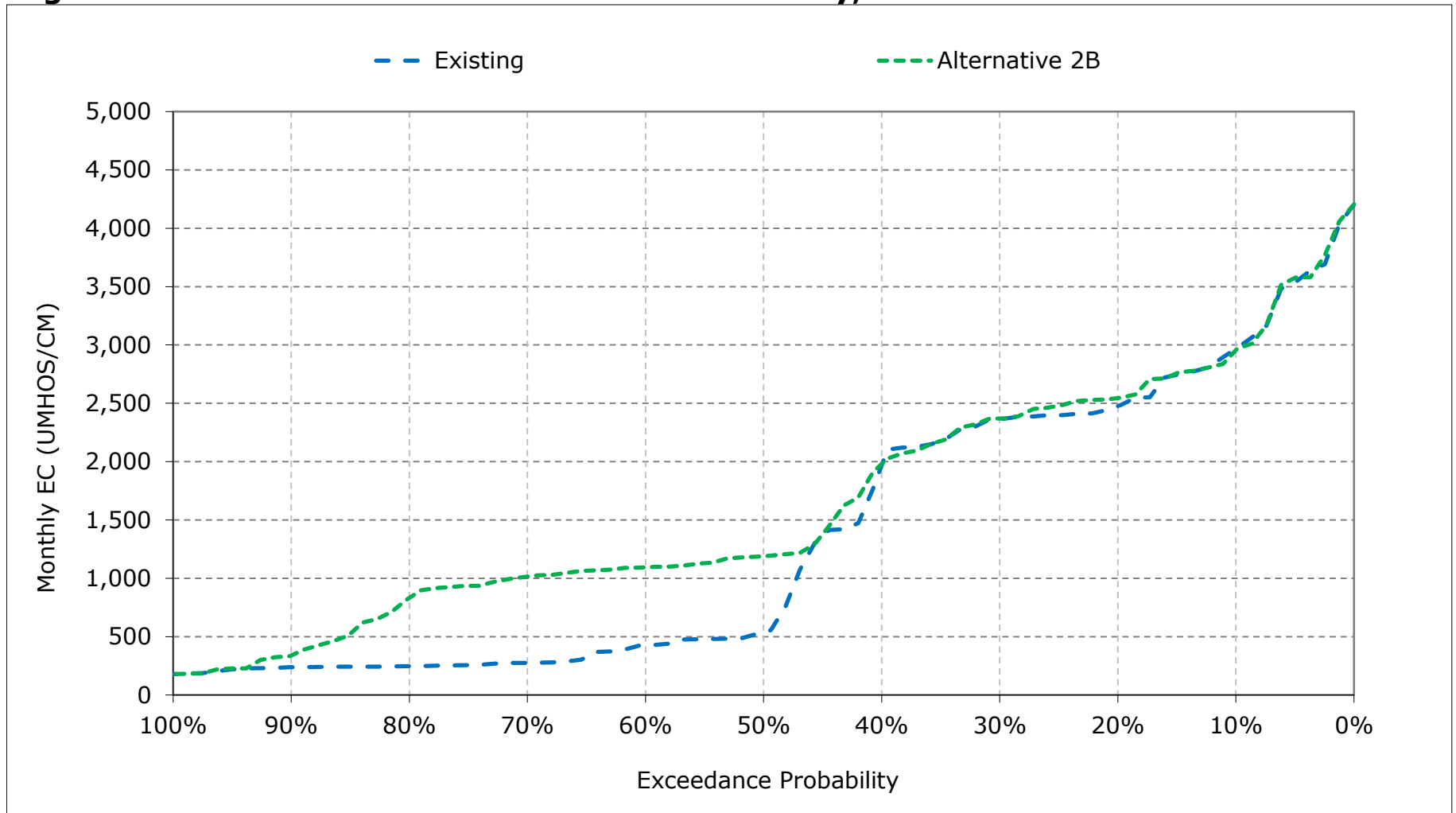
**Figure 5-15. Sacramento River at Emmaton Salinity, September EC**



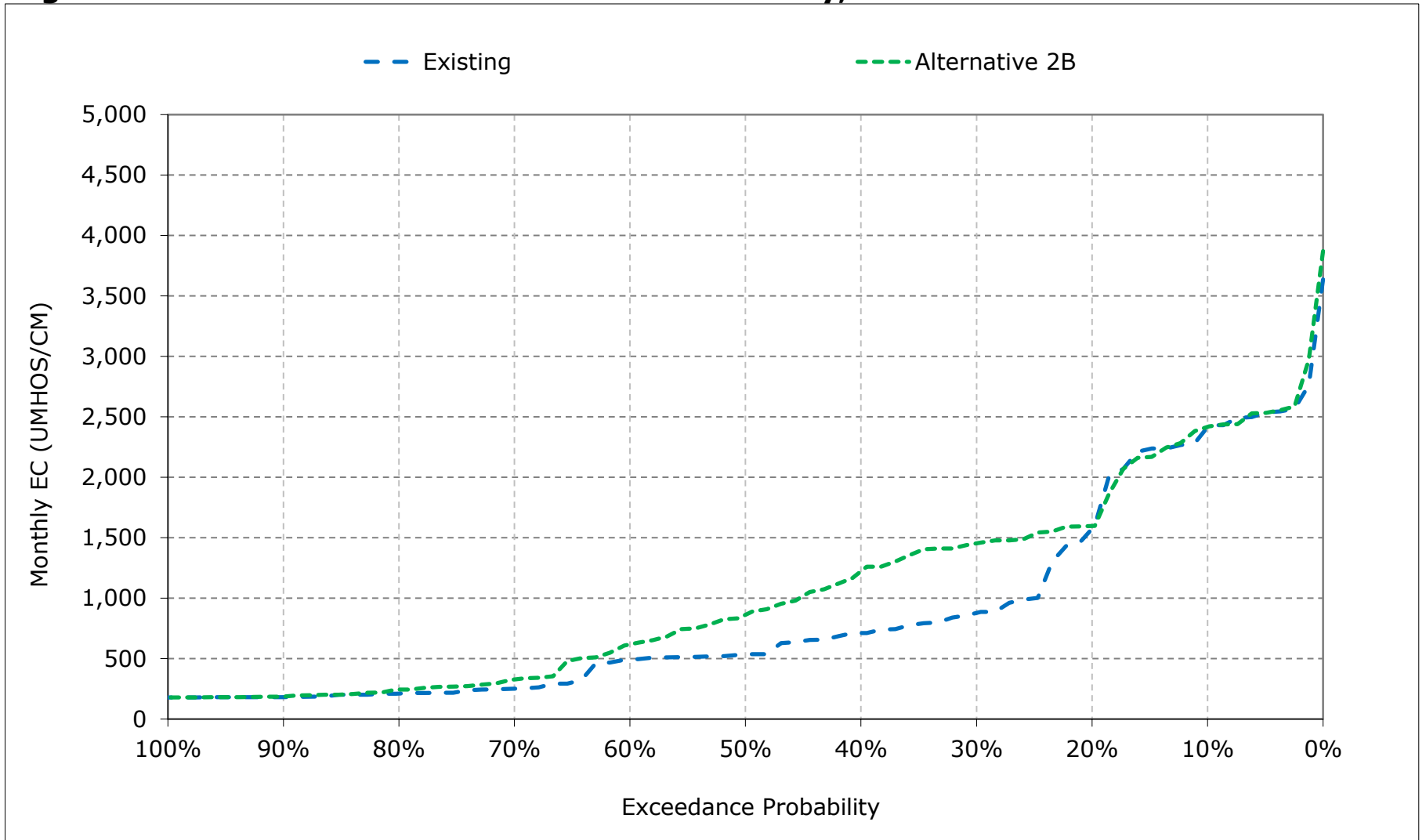
**Figure 5-16. Sacramento River at Emmaton Salinity, October EC**



**Figure 5-17. Sacramento River at Emmaton Salinity, November EC**



**Figure 5-18. Sacramento River at Emmaton Salinity, December EC**





**Table 6-1. Sacramento River at Collinsville Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	10,576	9,848	9,110	5,105	2,153	1,842	2,026	3,079	4,154	6,137	8,347	9,582
20%	9,842	9,273	7,373	4,259	1,341	965	1,027	2,112	3,307	5,010	7,170	8,936
30%	9,646	9,043	4,970	3,105	672	409	536	1,575	3,161	4,557	6,921	8,738
40%	9,323	8,431	4,102	1,656	393	313	407	851	2,547	3,240	5,285	7,855
50%	8,256	3,431	3,308	1,242	307	241	282	507	2,124	2,813	4,844	6,723
60%	3,721	2,939	3,073	649	215	209	221	349	1,490	2,140	4,720	2,769
70%	1,999	1,622	1,015	236	200	193	205	258	1,082	1,957	4,400	1,435
80%	1,856	1,375	518	205	192	189	195	200	468	1,696	4,159	1,261
90%	1,734	1,254	228	189	188	187	188	188	202	1,244	3,922	1,150
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	6,225	5,334	3,898	2,034	825	598	694	1,198	2,287	3,353	5,506	5,364
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	4,702	3,187	1,148	404	202	200	220	295	726	1,457	3,869	1,153
Above Normal (15%)	6,525	5,298	3,716	1,157	344	206	239	342	1,446	1,943	4,256	2,698
Below Normal (17%)	6,541	5,825	5,091	2,147	511	414	447	787	2,047	3,006	5,064	7,241
Dry (22%)	6,655	6,322	4,797	3,160	1,238	759	877	1,623	3,094	4,725	7,025	8,834
Critical (15%)	8,210	7,970	7,294	4,624	2,401	1,826	2,188	3,854	5,577	7,217	8,538	9,762

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	10,444	9,719	9,085	5,998	2,117	1,863	2,062	3,206	4,213	6,076	8,186	9,397
20%	9,825	9,341	7,400	4,751	1,370	893	1,082	2,490	3,564	5,085	7,214	9,002
30%	9,617	9,151	6,986	3,526	739	366	680	1,948	3,182	4,463	7,001	8,813
40%	9,266	8,502	6,280	1,807	379	289	473	1,068	2,714	3,580	6,182	8,318
50%	8,275	6,026	4,947	1,157	316	229	307	639	2,079	2,987	5,508	6,899
60%	3,485	5,722	3,714	599	215	206	224	453	1,623	2,251	4,028	2,264
70%	3,303	5,511	1,463	240	198	193	209	289	1,209	2,039	3,674	2,179
80%	3,081	4,751	814	202	193	189	191	197	485	1,791	3,570	2,029
90%	2,745	2,126	306	189	188	187	186	184	202	1,248	3,346	1,792
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	6,502	6,619	4,622	2,199	867	598	725	1,334	2,368	3,431	5,366	5,604
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	5,070	4,843	1,540	399	199	198	234	361	815	1,502	3,229	1,914
Above Normal (15%)	6,877	6,533	4,739	1,249	296	203	257	438	1,443	2,001	3,715	2,098
Below Normal (17%)	6,863	7,057	6,024	2,197	492	395	498	990	2,079	3,297	5,837	7,642
Dry (22%)	6,923	7,492	5,717	3,562	1,356	744	930	1,865	3,243	4,784	7,116	8,924
Critical (15%)	8,179	8,734	7,904	5,006	2,585	1,873	2,217	3,942	5,685	7,166	8,473	9,746

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-132	-130	-26	<b>893</b>	-35	<b>21</b>	<b>36</b>	<b>126</b>	<b>58</b>	-61	-161	-184
20%	-17	<b>68</b>	<b>27</b>	<b>493</b>	<b>29</b>	-71	<b>55</b>	<b>378</b>	<b>256</b>	<b>75</b>	<b>44</b>	<b>66</b>
30%	-30	<b>108</b>	<b>2,017</b>	<b>421</b>	<b>67</b>	-43	<b>143</b>	<b>373</b>	<b>21</b>	-94	<b>80</b>	<b>74</b>
40%	-57	<b>71</b>	<b>2,178</b>	<b>151</b>	-14	-23	<b>66</b>	<b>217</b>	<b>166</b>	<b>340</b>	<b>897</b>	<b>463</b>
50%	<b>18</b>	<b>2,594</b>	<b>1,638</b>	-84	<b>10</b>	-13	<b>26</b>	<b>132</b>	-45	<b>173</b>	<b>664</b>	<b>176</b>
60%	-236	<b>2,783</b>	<b>642</b>	-50	<b>0</b>	-3	<b>3</b>	<b>104</b>	<b>133</b>	<b>111</b>	-692	-505
70%	<b>1,304</b>	<b>3,889</b>	<b>448</b>	<b>4</b>	-2	<b>1</b>	<b>4</b>	<b>31</b>	<b>127</b>	<b>82</b>	-726	<b>744</b>
80%	<b>1,225</b>	<b>3,375</b>	<b>296</b>	-2	<b>0</b>	<b>0</b>	-4	-2	<b>17</b>	<b>94</b>	-589	<b>768</b>
90%	<b>1,012</b>	<b>872</b>	<b>79</b>	<b>0</b>	<b>1</b>	<b>0</b>	-2	-4	-1	<b>4</b>	-576	<b>642</b>
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	<b>278</b>	<b>1,285</b>	<b>724</b>	<b>165</b>	<b>42</b>	-1	<b>31</b>	<b>136</b>	<b>82</b>	<b>78</b>	-140	<b>240</b>
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	<b>368</b>	<b>1,656</b>	<b>391</b>	-4	-3	-2	<b>13</b>	<b>66</b>	<b>89</b>	<b>45</b>	-640	<b>761</b>
Above Normal (15%)	<b>351</b>	<b>1,235</b>	<b>1,023</b>	<b>92</b>	-48	-3	<b>18</b>	<b>96</b>	-3	<b>58</b>	-541	-600
Below Normal (17%)	<b>322</b>	<b>1,232</b>	<b>932</b>	<b>50</b>	-19	-19	<b>51</b>	<b>203</b>	<b>32</b>	<b>291</b>	<b>773</b>	<b>401</b>
Dry (22%)	<b>269</b>	<b>1,170</b>	<b>920</b>	<b>402</b>	<b>118</b>	-15	<b>53</b>	<b>242</b>	<b>149</b>	<b>58</b>	<b>91</b>	<b>90</b>
Critical (15%)	-31	<b>763</b>	<b>610</b>	<b>383</b>	<b>184</b>	<b>47</b>	<b>28</b>	<b>89</b>	<b>108</b>	-51	-65	-16

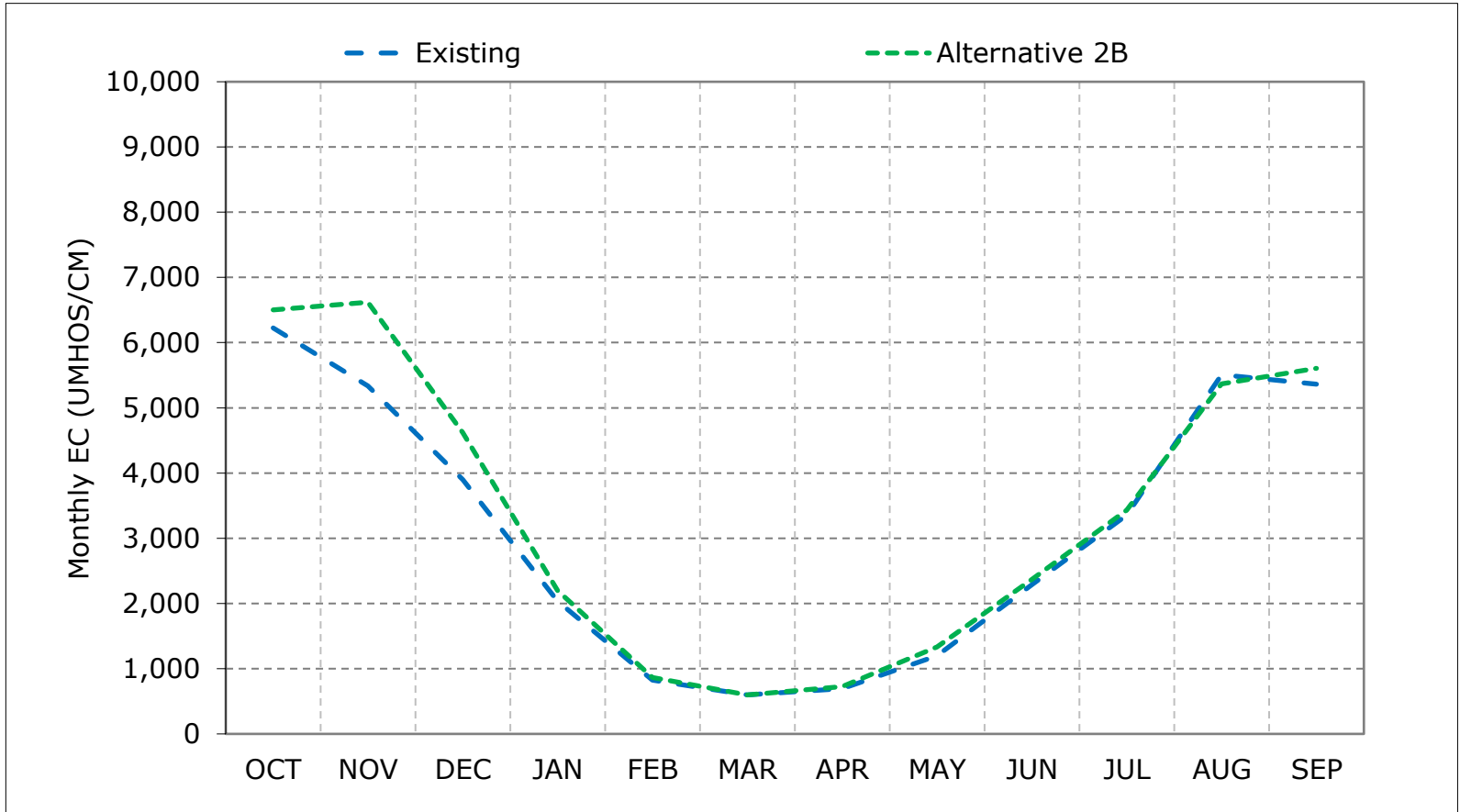
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highlighted in red color which indicate increase in Salinity (EC).

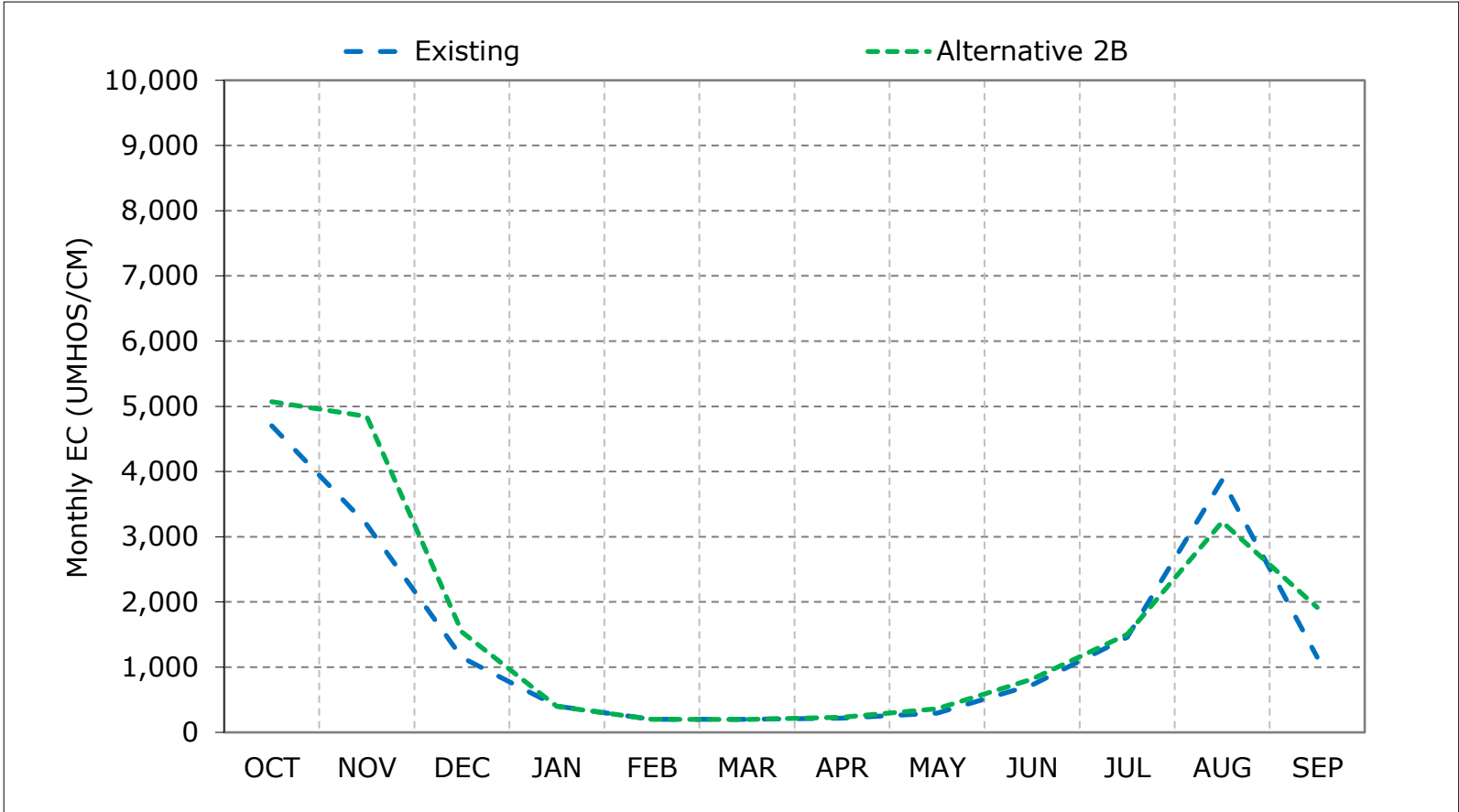
**Figure 6-1. Sacramento River at Collinsville Salinity, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

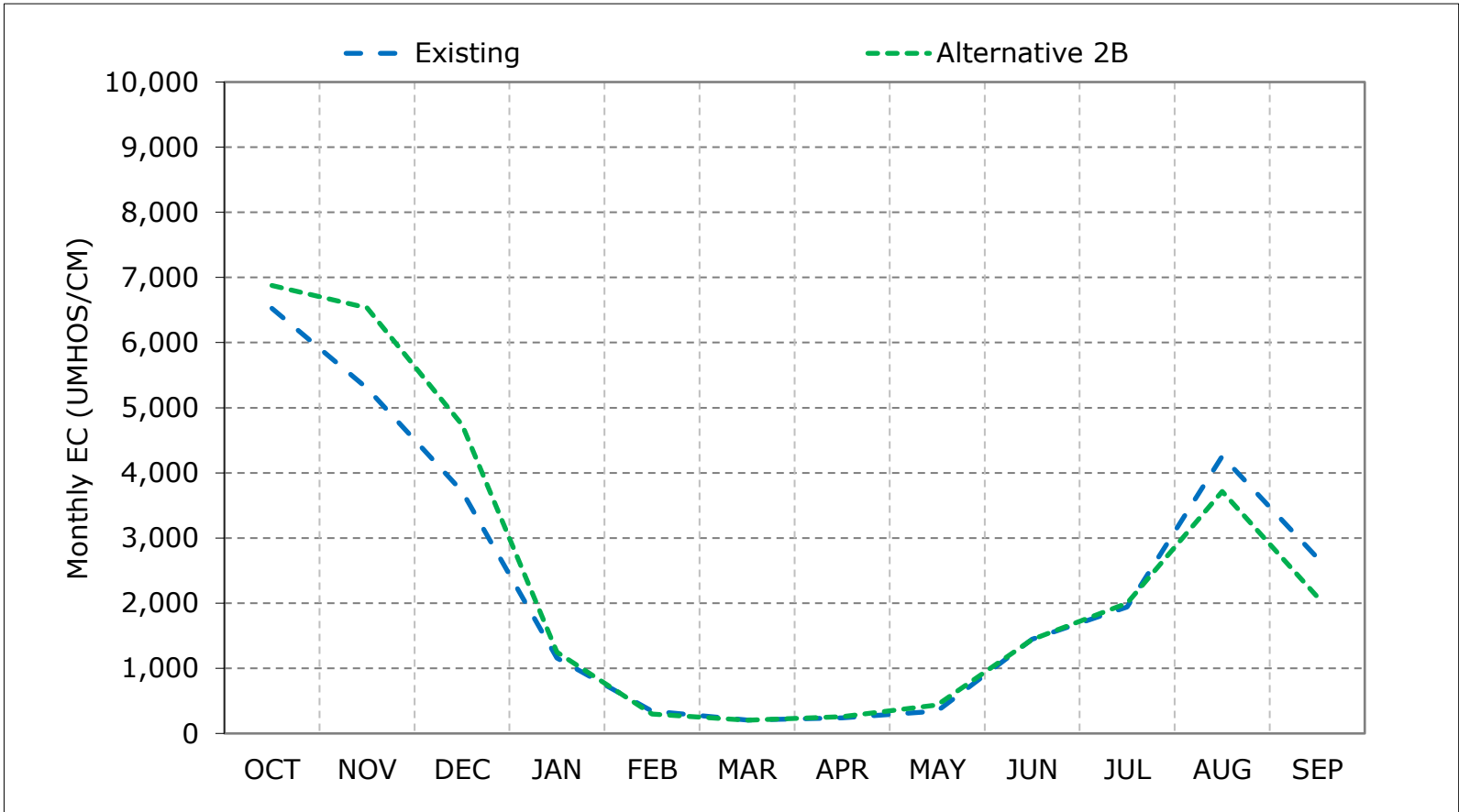
**Figure 6-2. Sacramento River at Collinsville Salinity, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

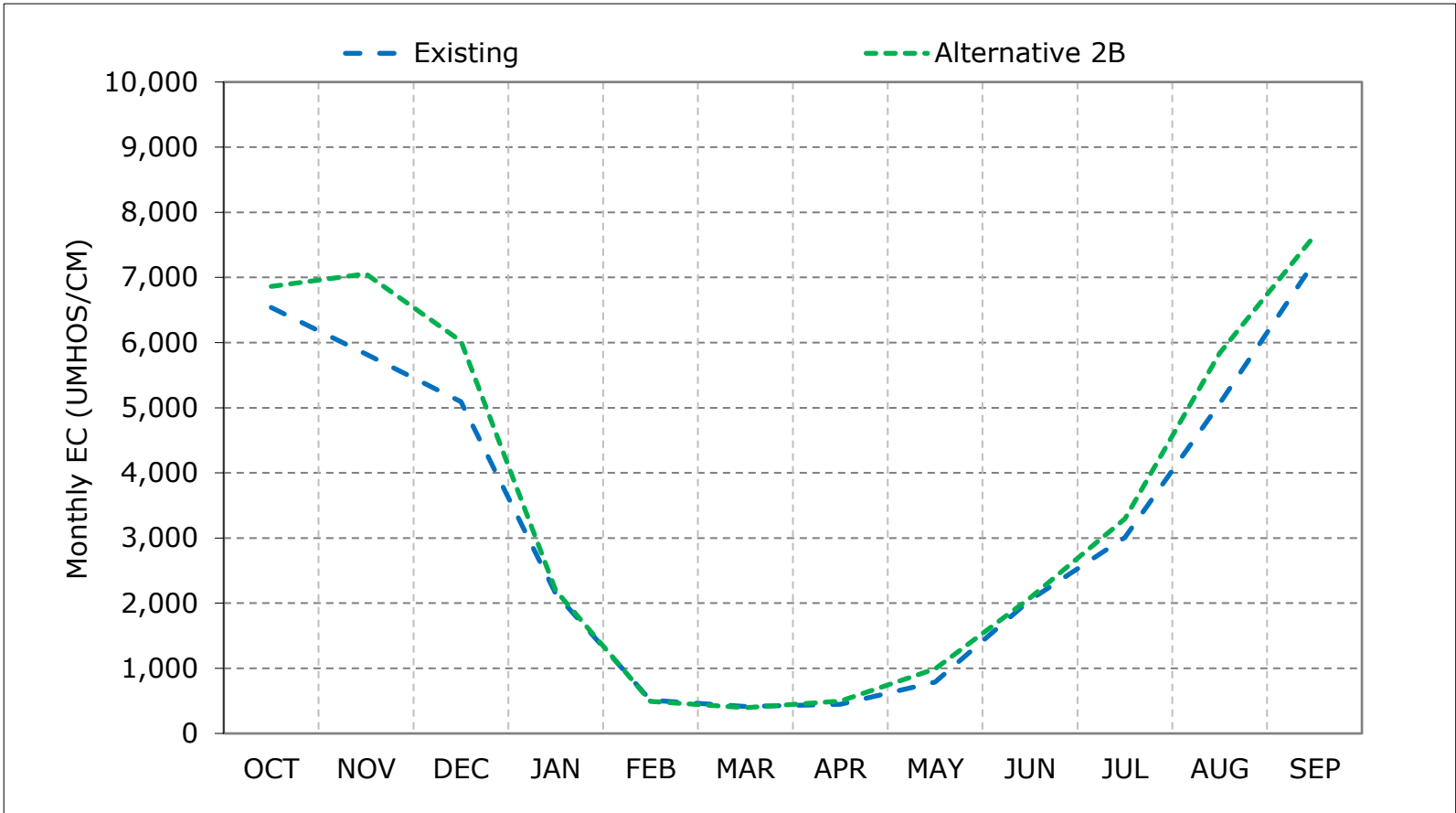
**Figure 6-3. Sacramento River at Collinsville Salinity, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

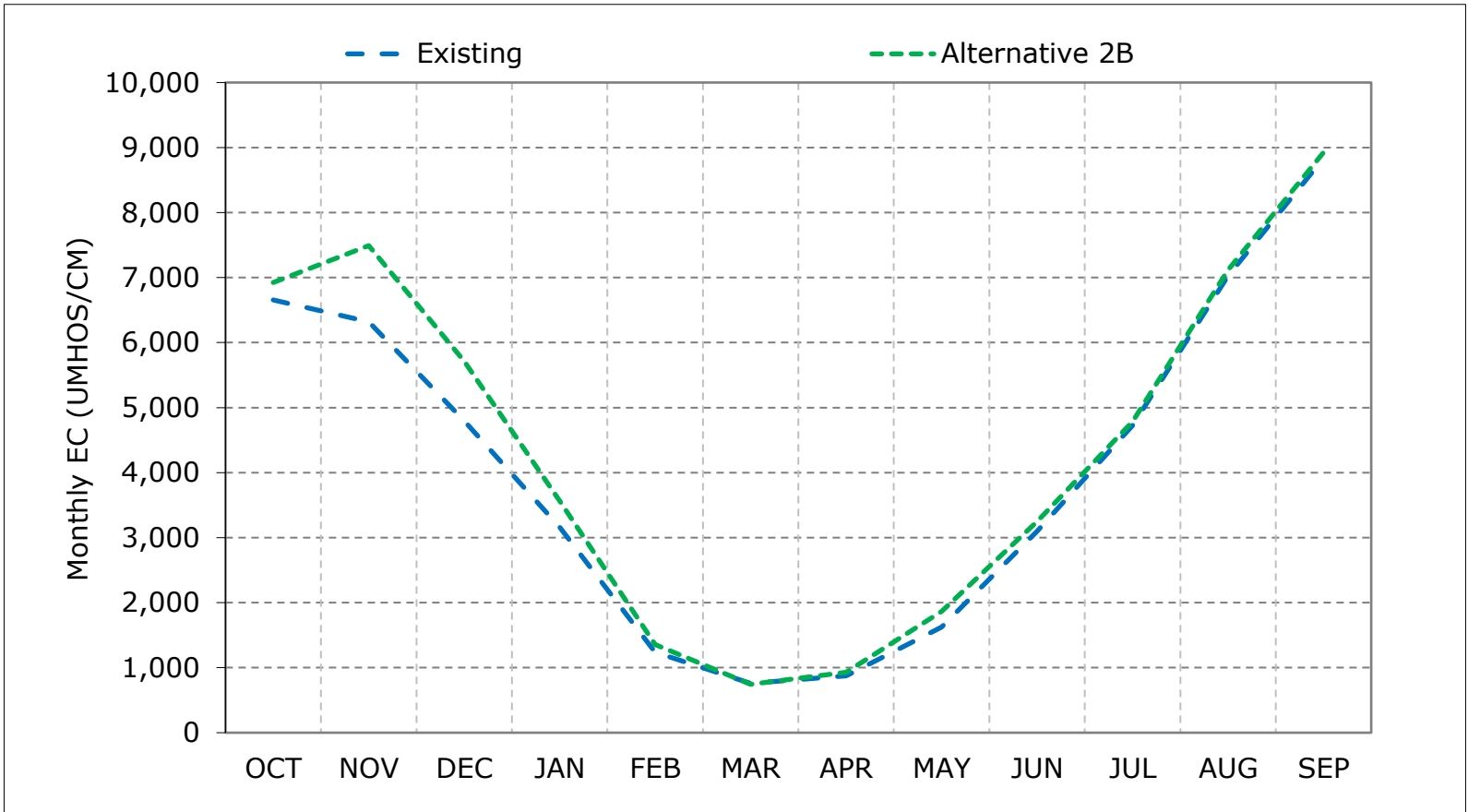
**Figure 6-4. Sacramento River at Collinsville Salinity, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

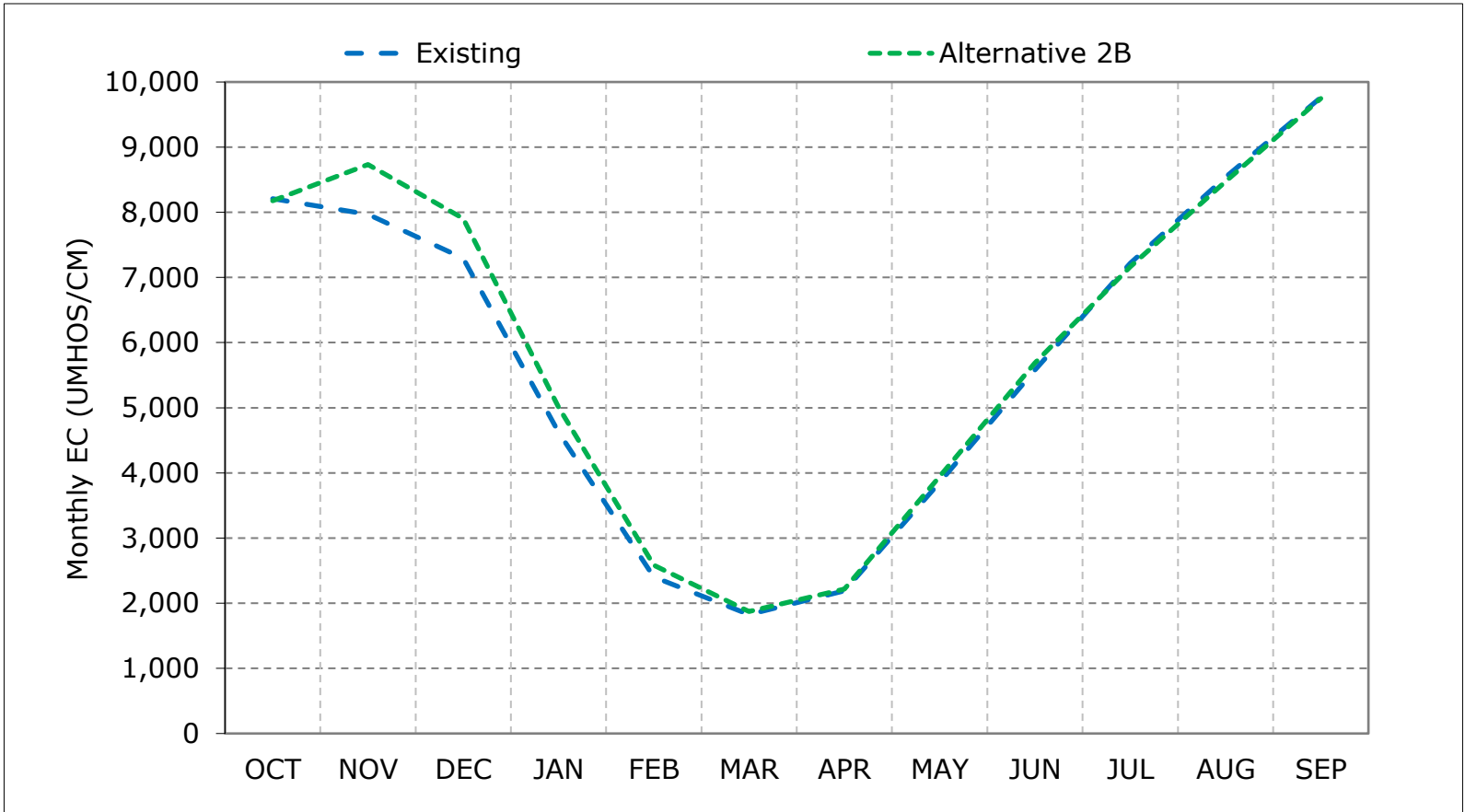
**Figure 6-5. Sacramento River at Collinsville Salinity, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

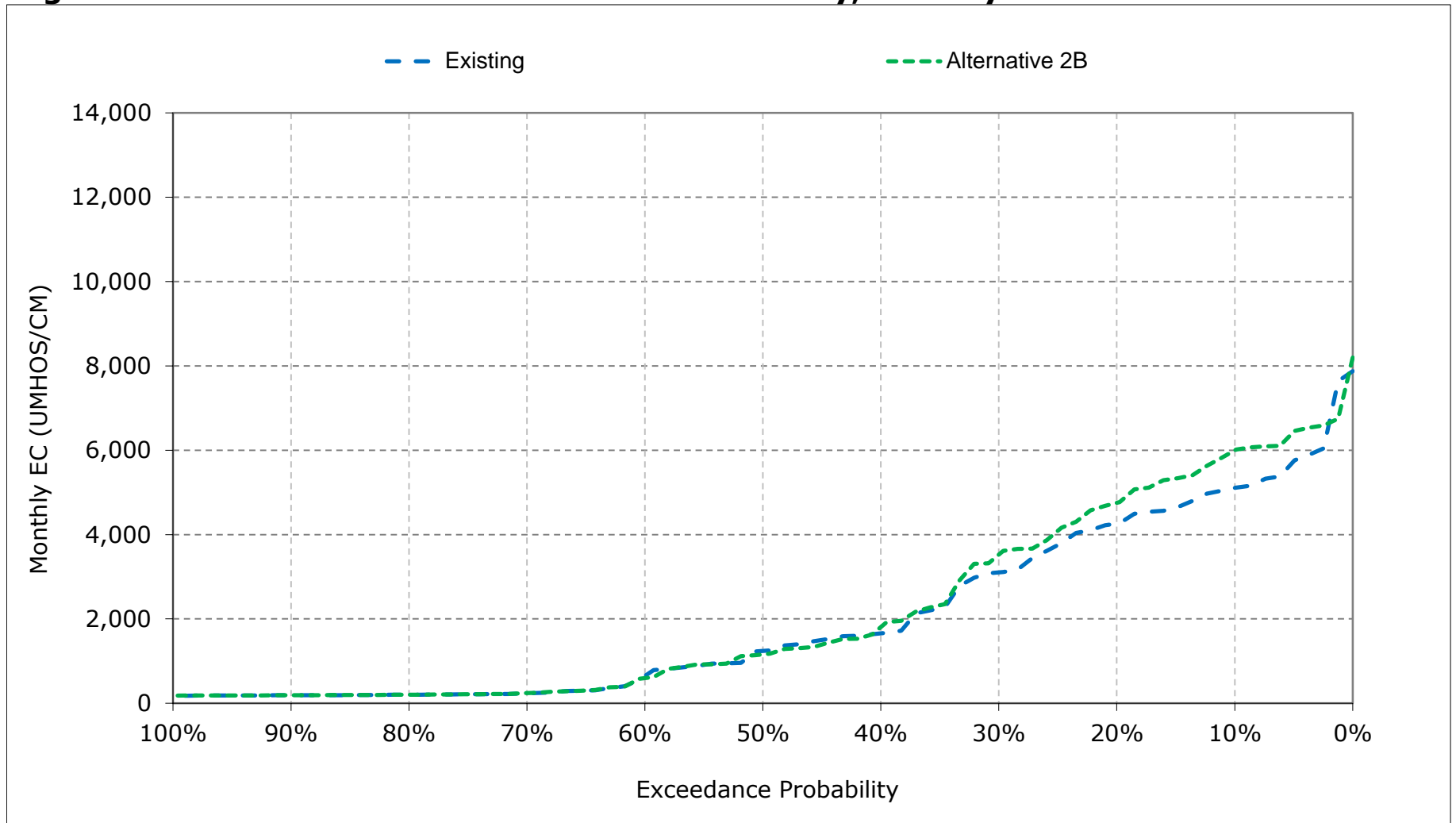
**Figure 6-6. Sacramento River at Collinsville Salinity, Critical Year Average EC**



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

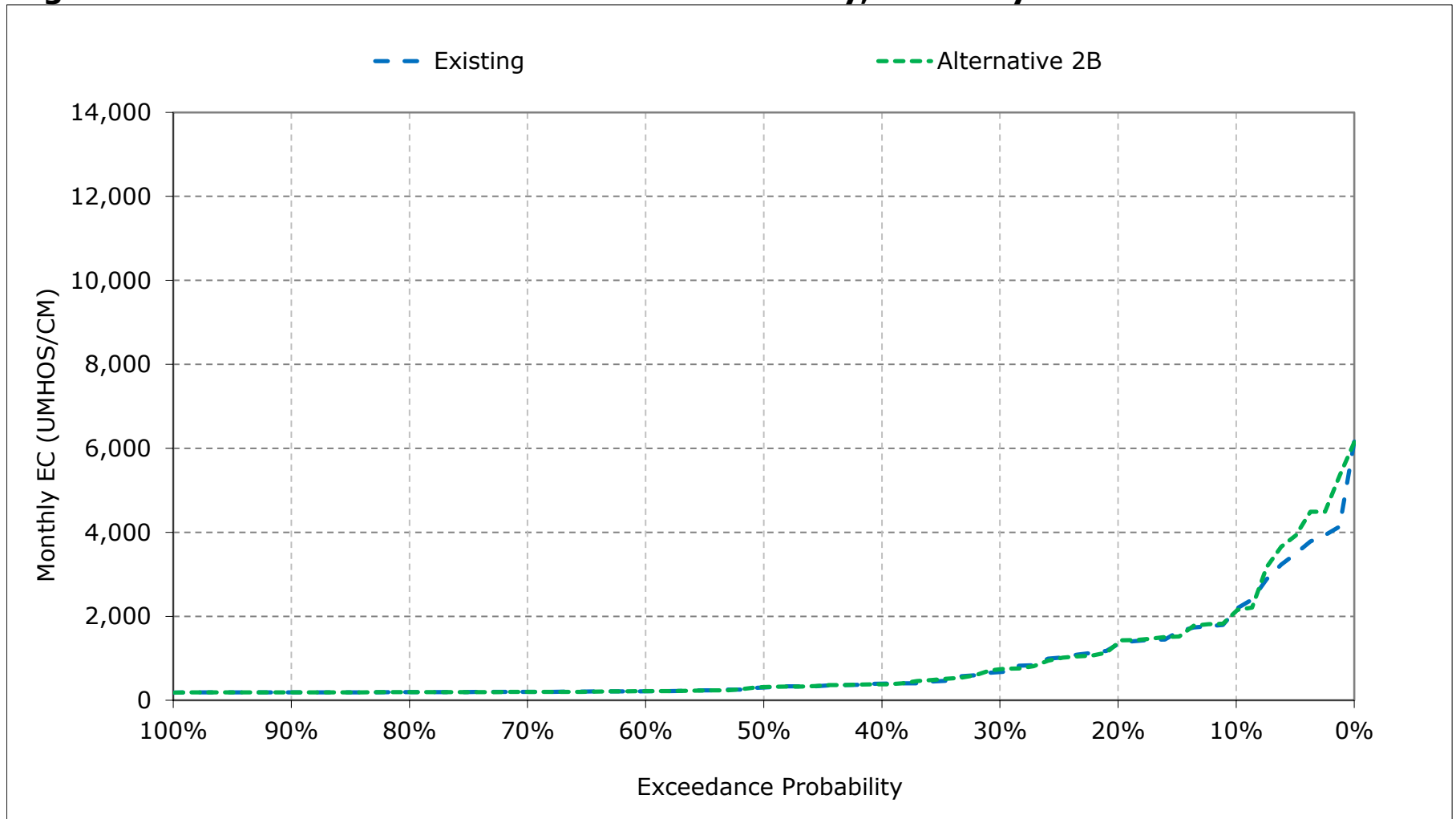
\*These results are displayed with water year - year type sorting.

**Figure 6-7. Sacramento River at Collinsville Salinity, January EC**

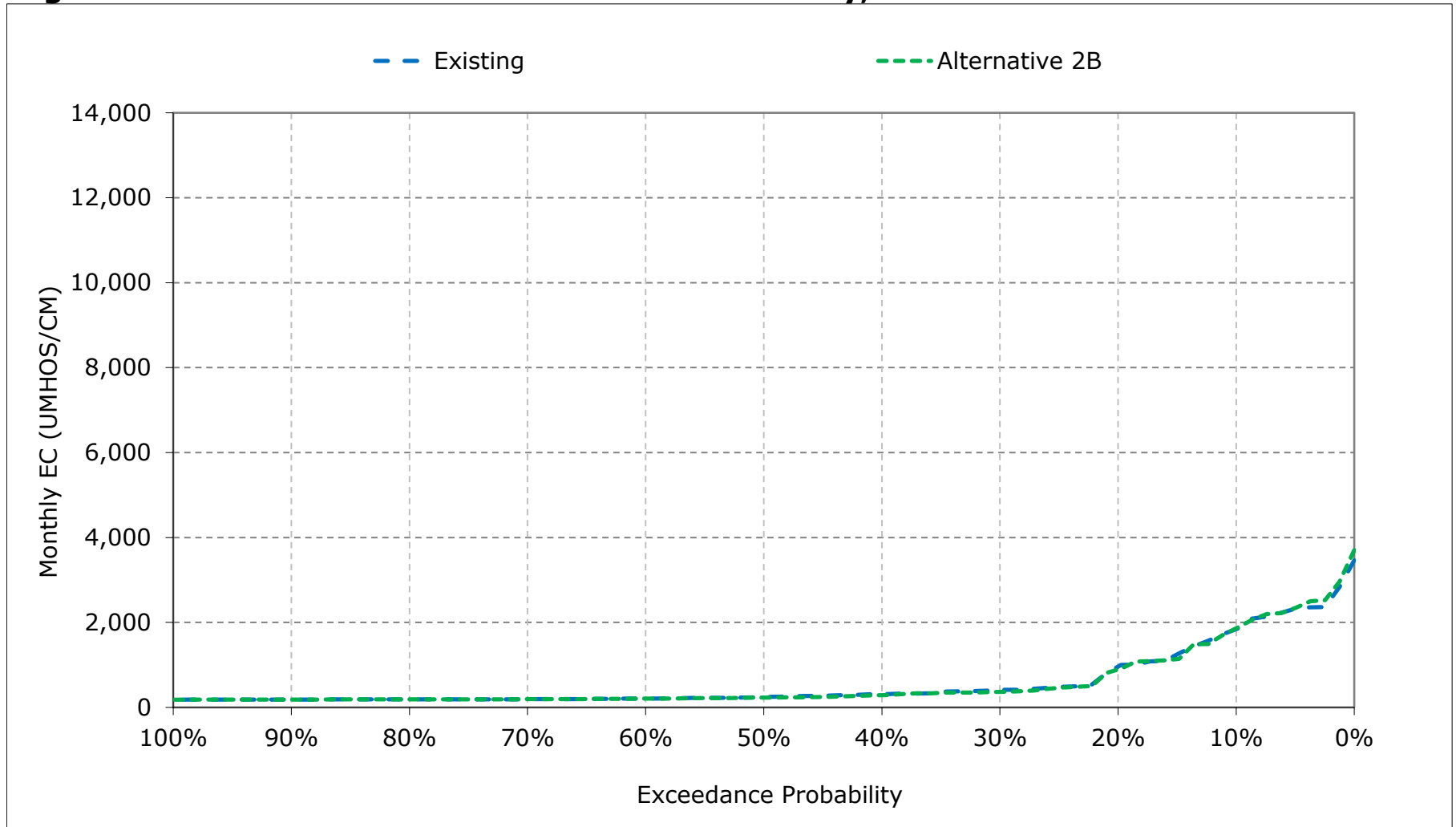




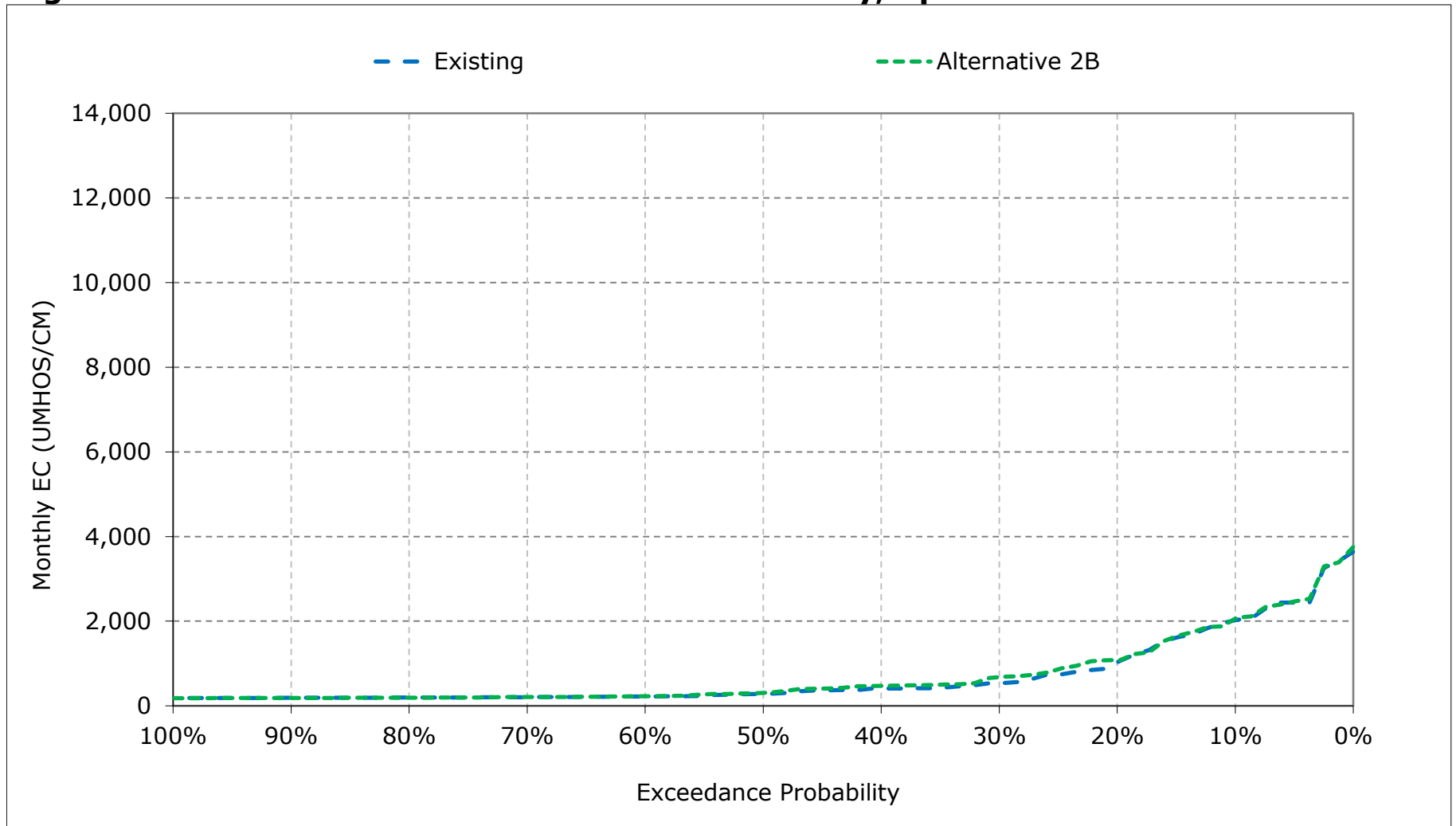
**Figure 6-8. Sacramento River at Collinsville Salinity, February EC**



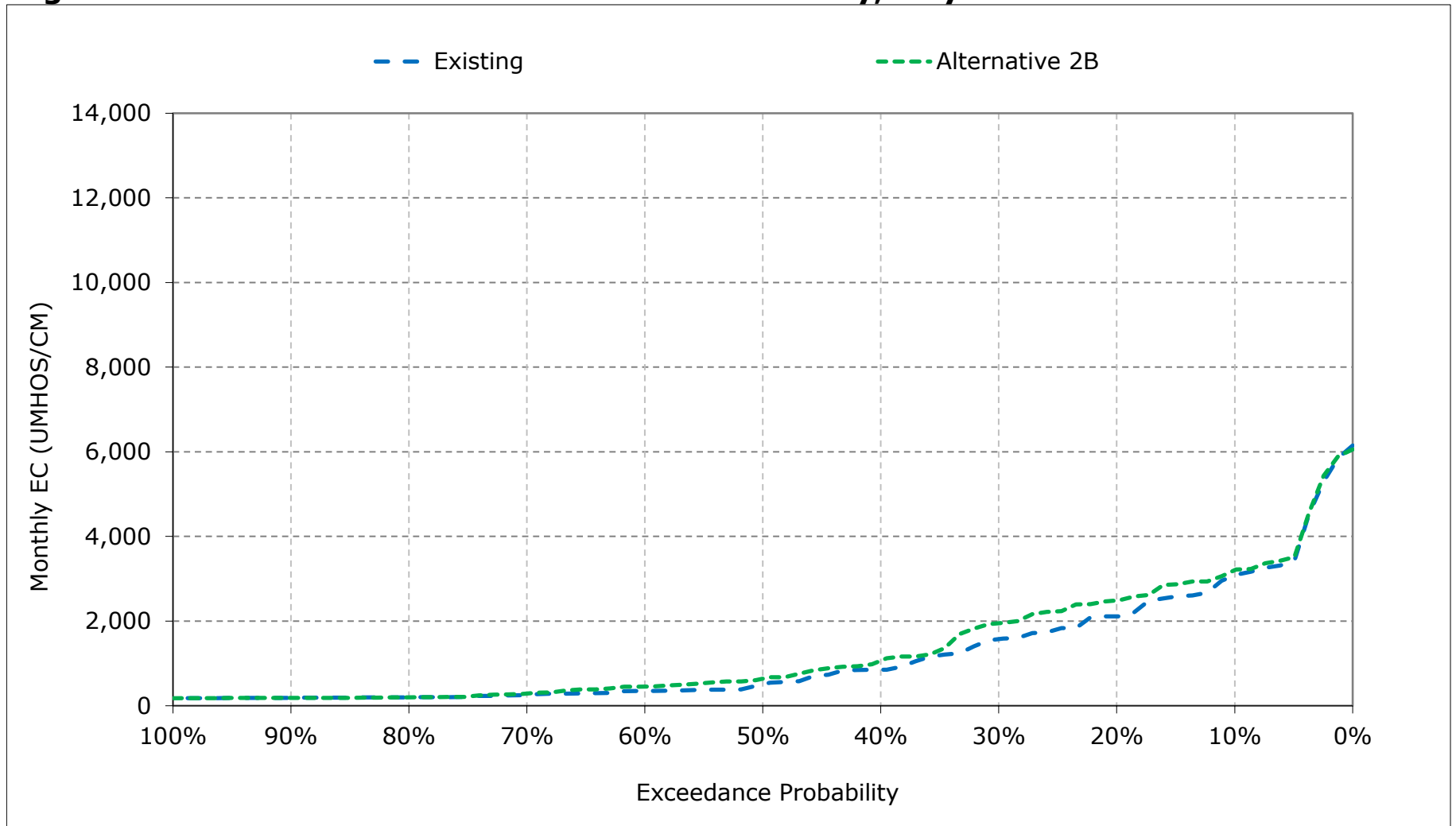
**Figure 6-9. Sacramento River at Collinsville Salinity, March EC**



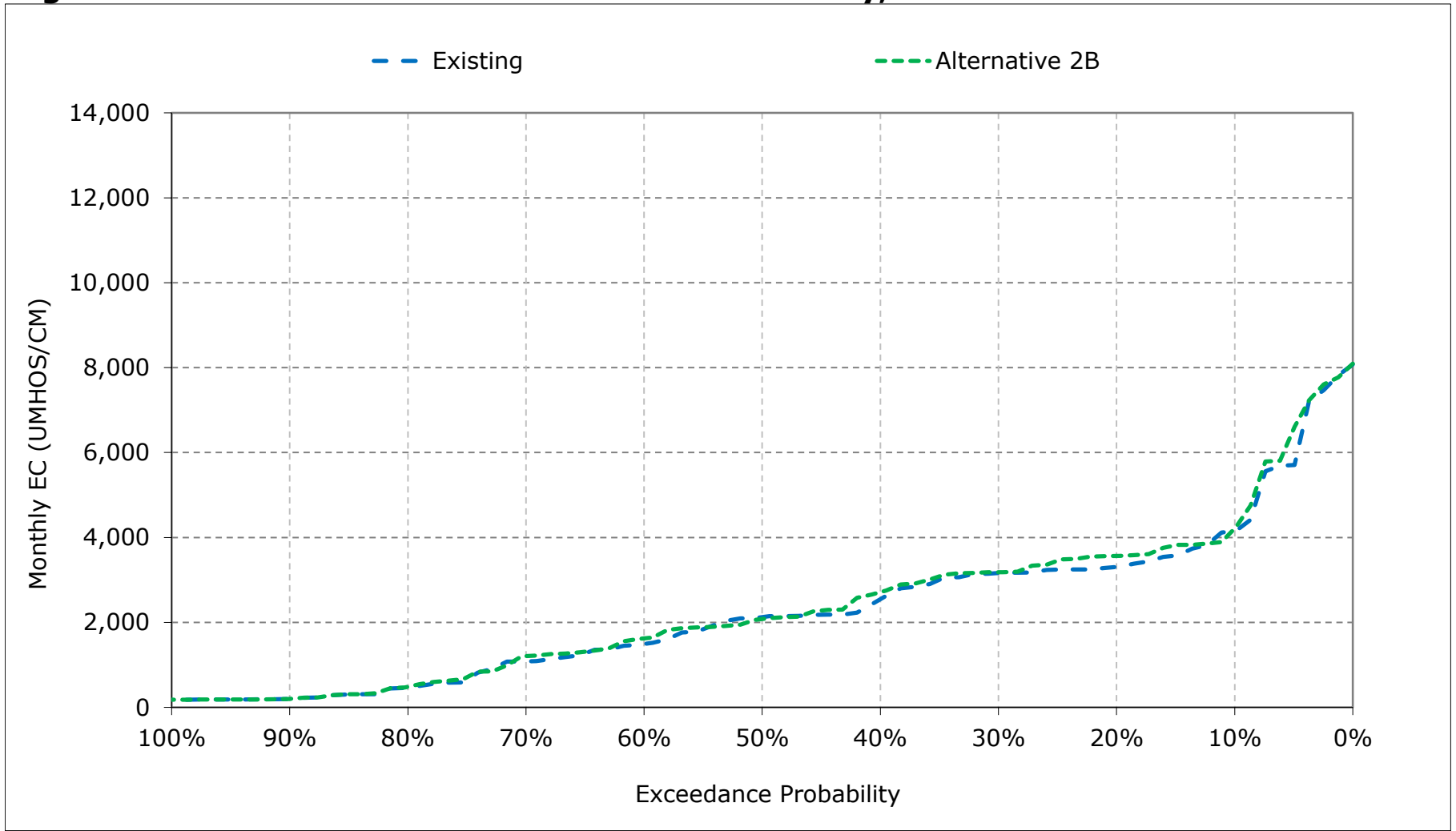
**Figure 6-10. Sacramento River at Collinsville Salinity, April EC**



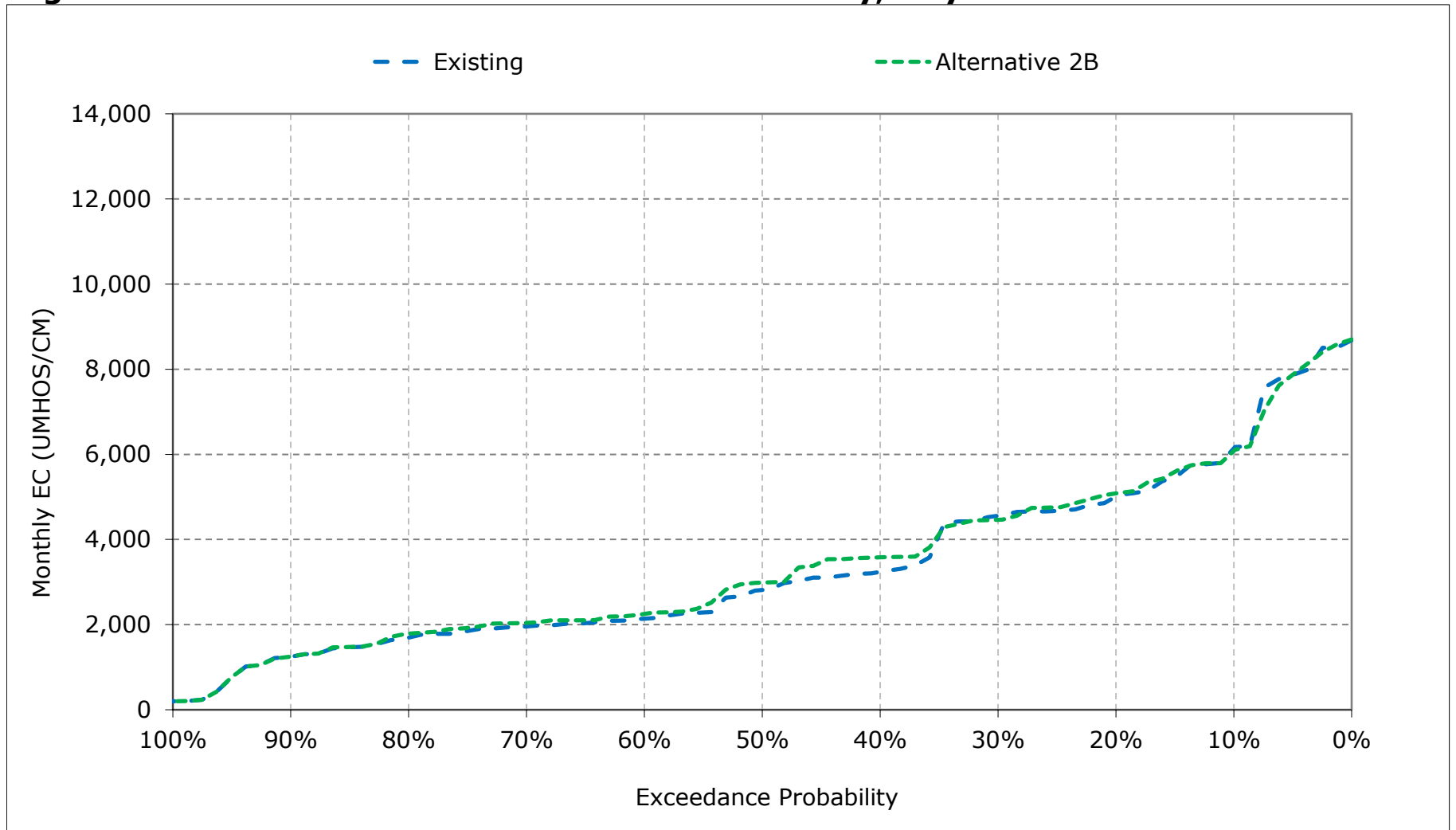
**Figure 6-11. Sacramento River at Collinsville Salinity, May EC**



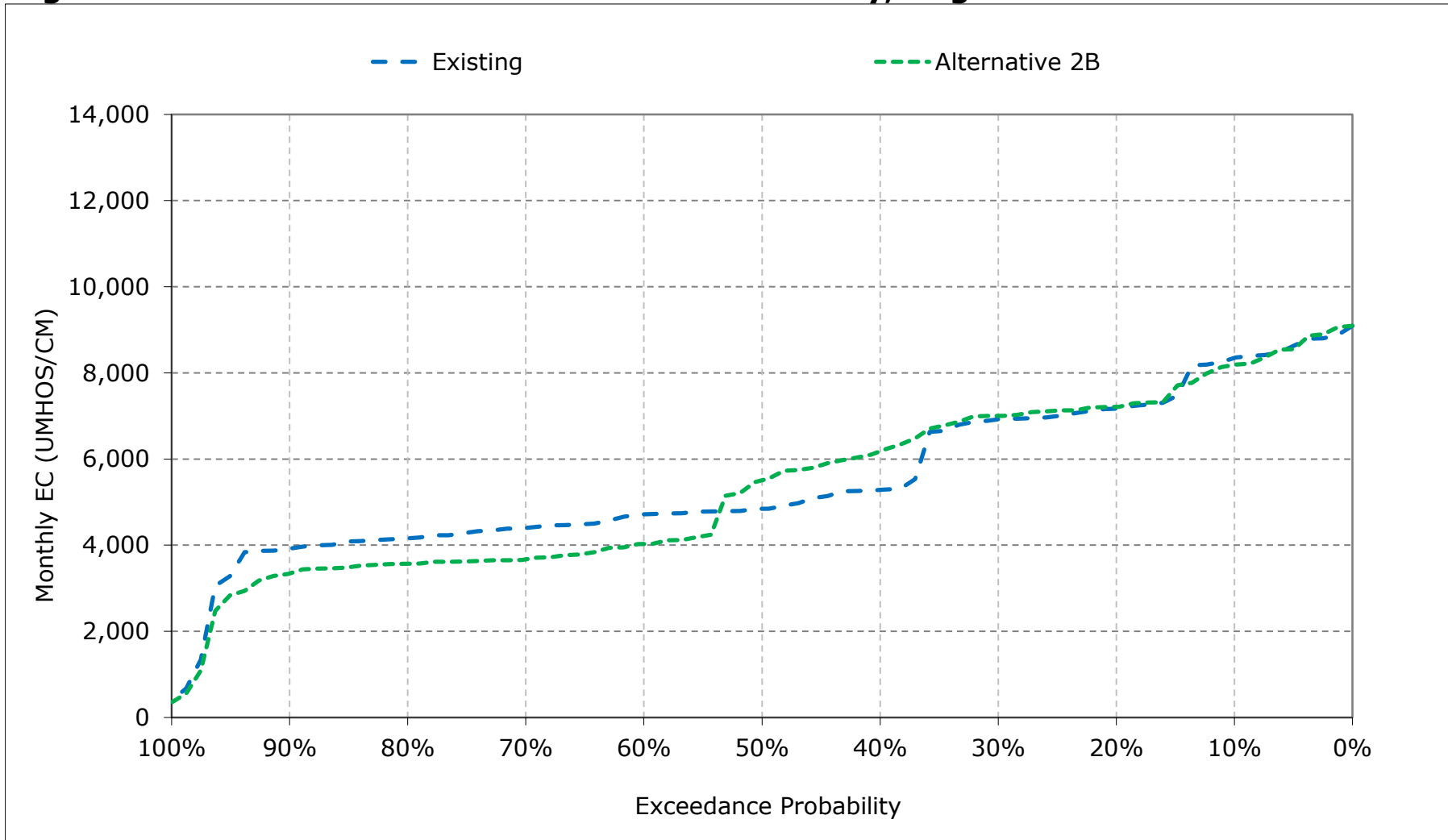
**Figure 6-12. Sacramento River at Collinsville Salinity, June EC**



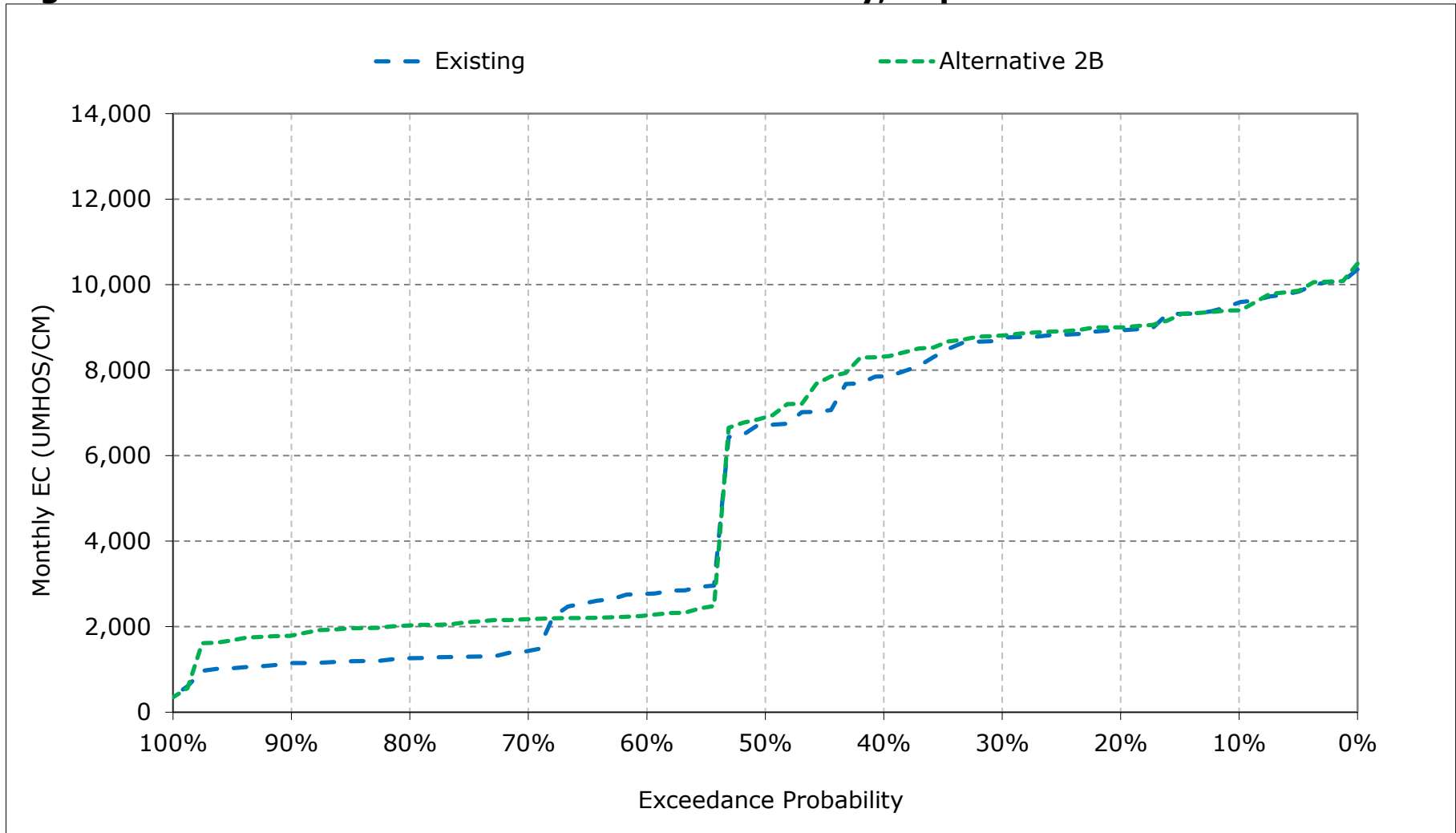
**Figure 6-13. Sacramento River at Collinsville Salinity, July EC**



**Figure 6-14. Sacramento River at Collinsville Salinity, August EC**

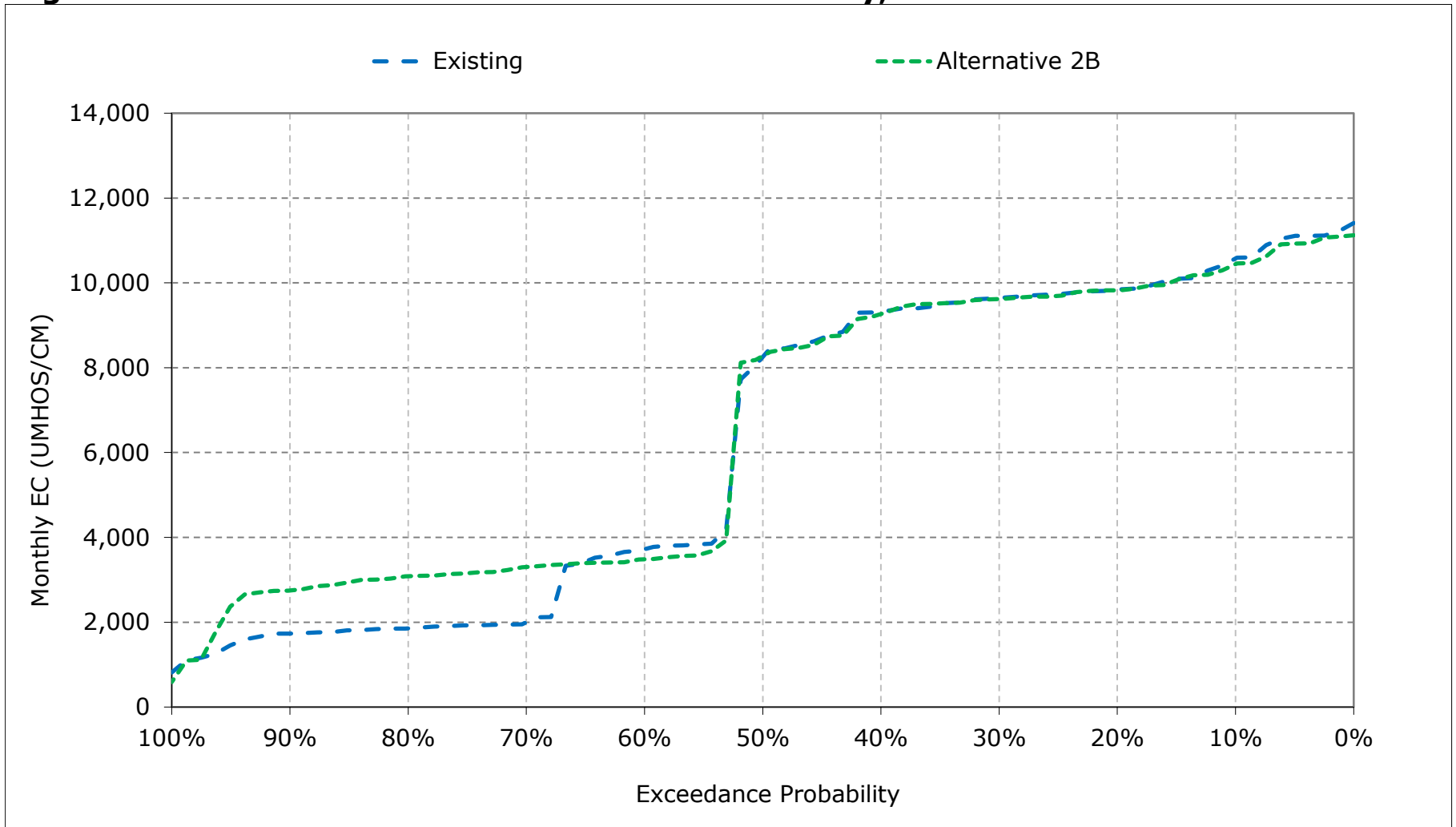


**Figure 6-15. Sacramento River at Collinsville Salinity, September EC**

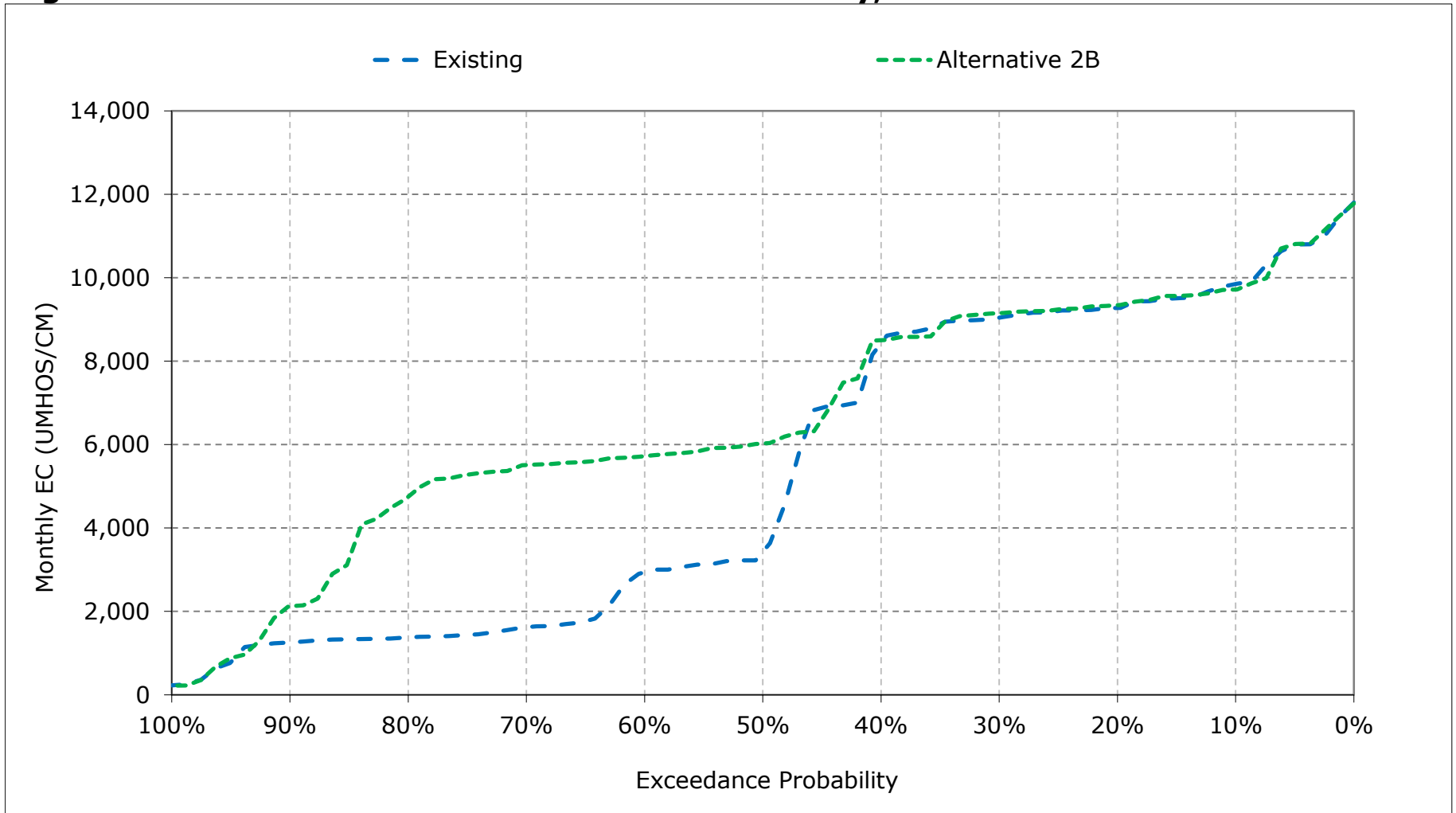




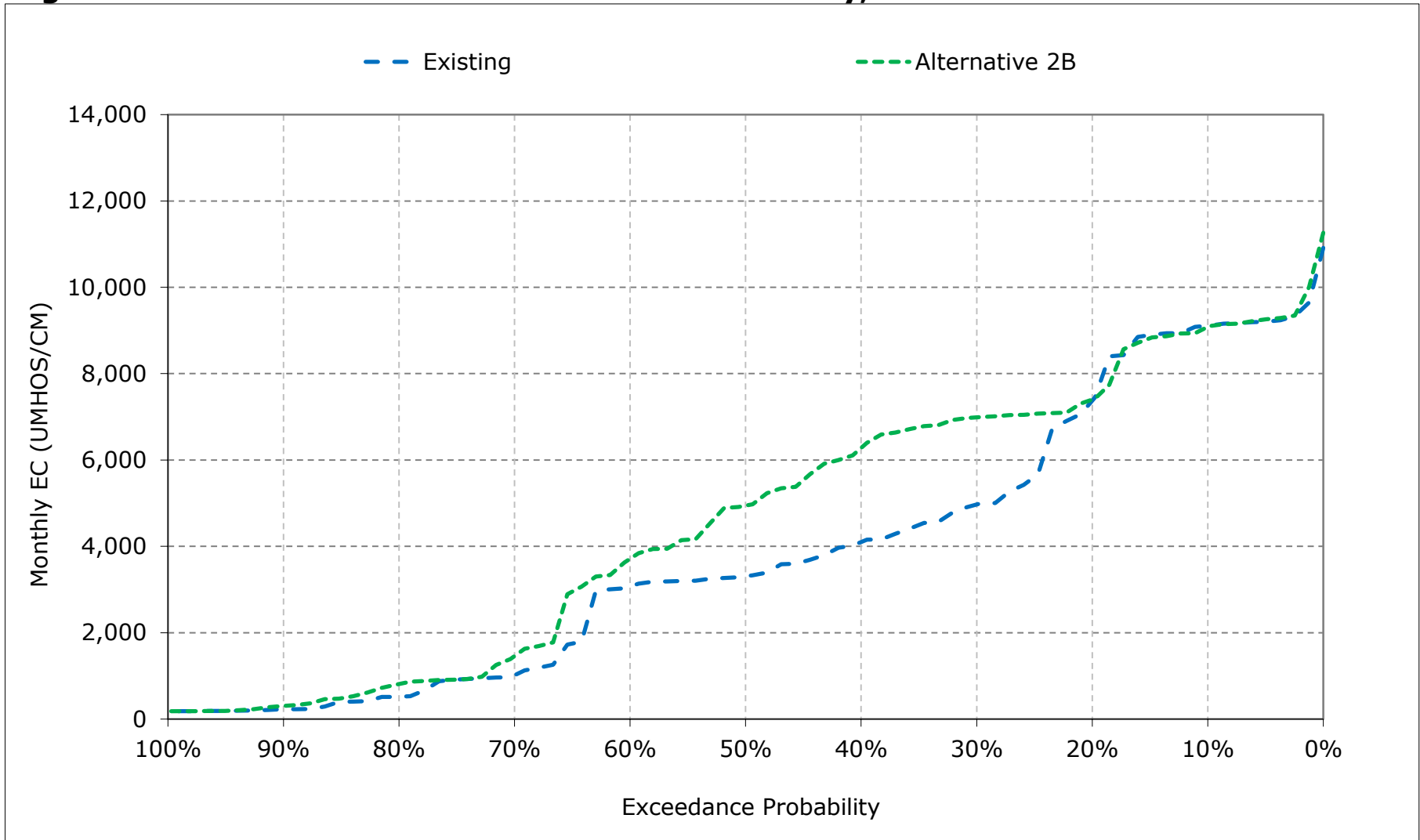
**Figure 6-16. Sacramento River at Collinsville Salinity, October EC**



**Figure 6-17. Sacramento River at Collinsville Salinity, November EC**



**Figure 6-18. Sacramento River at Collinsville Salinity, December EC**



**Table 7-1. Sacramento River at Mallard Slough Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	14,262	13,585	12,936	8,639	4,597	4,012	4,293	5,596	7,222	9,482	11,982	13,224
20%	13,605	13,227	11,331	7,673	2,924	2,247	2,342	4,309	6,033	8,280	10,695	12,609
30%	13,388	12,855	8,414	5,940	1,630	956	1,284	3,384	5,771	7,879	10,412	12,378
40%	13,120	12,345	7,099	3,495	809	700	1,005	2,083	4,919	6,131	8,722	11,515
50%	11,995	6,547	6,098	2,570	524	423	620	1,253	4,066	5,622	8,129	10,390
60%	6,582	5,724	5,568	1,463	286	274	361	814	3,217	4,474	7,926	5,456
70%	3,923	3,483	2,369	359	220	207	271	503	2,397	4,191	7,475	3,107
80%	3,688	3,152	1,073	220	202	199	207	270	1,164	3,700	7,186	2,793
90%	3,532	2,842	366	195	193	193	194	194	276	2,619	6,877	2,535
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	9,174	8,173	6,269	3,607	1,579	1,187	1,403	2,289	4,126	5,905	8,730	8,173
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	7,268	5,420	2,138	668	239	254	318	527	1,492	3,090	6,675	2,582
Above Normal (15%)	9,562	8,069	6,277	2,184	595	270	393	736	2,907	4,100	7,318	5,343
Below Normal (17%)	9,602	8,995	7,981	3,998	1,044	902	977	1,745	4,029	5,789	8,430	10,918
Dry (22%)	9,695	9,431	7,836	5,709	2,550	1,656	1,989	3,398	5,703	8,040	10,550	12,495
Critical (15%)	11,632	11,396	10,864	7,790	4,638	3,754	4,381	6,633	8,800	10,742	12,212	13,430

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	14,185	13,484	12,854	9,787	4,520	4,047	4,346	5,815	7,275	9,483	11,851	13,206
20%	13,554	13,214	11,317	8,292	2,900	2,123	2,591	4,997	6,482	8,388	10,765	12,689
30%	13,346	12,992	10,767	6,566	1,565	829	1,645	4,121	5,895	7,806	10,536	12,504
40%	13,059	12,380	9,984	3,767	884	657	1,197	2,551	5,306	6,578	9,629	11,918
50%	12,060	9,395	8,611	2,612	514	374	706	1,594	4,165	5,832	8,855	10,576
60%	6,167	9,085	6,948	1,404	247	246	405	1,174	3,579	4,618	7,138	4,767
70%	6,017	8,871	3,137	369	218	207	291	654	2,653	4,341	6,705	4,638
80%	5,690	7,899	1,593	217	202	197	206	304	1,224	3,776	6,525	4,389
90%	5,308	3,991	483	197	194	192	190	192	277	2,624	6,257	4,004
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	9,655	9,895	7,259	3,816	1,637	1,169	1,489	2,585	4,296	6,018	8,567	8,617
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	7,889	7,675	2,742	665	233	245	365	697	1,672	3,164	5,937	4,123
Above Normal (15%)	10,179	9,782	7,647	2,267	495	255	459	1,029	2,994	4,201	6,736	4,496
Below Normal (17%)	10,132	10,661	9,219	4,020	998	836	1,112	2,207	4,164	6,160	9,258	11,265
Dry (22%)	10,163	10,918	9,062	6,268	2,749	1,602	2,120	3,844	5,963	8,111	10,656	12,593
Critical (15%)	11,638	12,390	11,666	8,275	4,901	3,828	4,451	6,786	8,938	10,714	12,153	13,420

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-76	-100	-82	<b>1,147</b>	-77	<b>34</b>	<b>53</b>	<b>219</b>	<b>53</b>	<b>1</b>	-131	-18
20%	-51	-13	-15	<b>619</b>	-24	-125	<b>249</b>	<b>687</b>	<b>449</b>	<b>109</b>	<b>69</b>	<b>80</b>
30%	-42	<b>137</b>	<b>2,352</b>	<b>625</b>	-65	-127	<b>361</b>	<b>737</b>	<b>123</b>	-73	<b>123</b>	<b>126</b>
40%	-61	<b>35</b>	<b>2,886</b>	<b>272</b>	<b>74</b>	-43	<b>192</b>	<b>467</b>	<b>388</b>	<b>447</b>	<b>906</b>	<b>403</b>
50%	<b>66</b>	<b>2,848</b>	<b>2,513</b>	<b>42</b>	-11	-49	<b>86</b>	<b>341</b>	<b>99</b>	<b>210</b>	<b>726</b>	<b>186</b>
60%	-415	<b>3,361</b>	<b>1,379</b>	-59	-39	-27	<b>44</b>	<b>360</b>	<b>362</b>	<b>144</b>	-788	-689
70%	<b>2,094</b>	<b>5,387</b>	<b>768</b>	<b>11</b>	-2	<b>0</b>	<b>20</b>	<b>151</b>	<b>256</b>	<b>150</b>	-770	<b>1,531</b>
80%	<b>2,002</b>	<b>4,747</b>	<b>521</b>	-3	<b>0</b>	-2	-1	<b>34</b>	<b>60</b>	<b>76</b>	-661	<b>1,595</b>
90%	<b>1,776</b>	<b>1,148</b>	<b>117</b>	<b>2</b>	<b>1</b>	0	-4	-2	<b>1</b>	<b>5</b>	-621	<b>1,469</b>
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	<b>481</b>	<b>1,722</b>	<b>990</b>	<b>209</b>	<b>58</b>	-17	<b>87</b>	<b>296</b>	<b>170</b>	<b>113</b>	-163	<b>444</b>
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	<b>621</b>	<b>2,255</b>	<b>604</b>	-4	-6	-9	<b>47</b>	<b>171</b>	<b>180</b>	<b>75</b>	-738	<b>1,541</b>
Above Normal (15%)	<b>617</b>	<b>1,713</b>	<b>1,370</b>	<b>83</b>	-100	-16	<b>66</b>	<b>293</b>	<b>87</b>	<b>101</b>	-583	-847
Below Normal (17%)	<b>530</b>	<b>1,665</b>	<b>1,238</b>	<b>23</b>	-46	-67	<b>135</b>	<b>462</b>	<b>135</b>	<b>371</b>	<b>828</b>	<b>347</b>
Dry (22%)	<b>468</b>	<b>1,486</b>	<b>1,225</b>	<b>559</b>	<b>199</b>	-54	<b>131</b>	<b>445</b>	<b>260</b>	<b>72</b>	<b>107</b>	<b>98</b>
Critical (15%)	<b>6</b>	<b>993</b>	<b>802</b>	<b>485</b>	<b>263</b>	<b>74</b>	<b>70</b>	<b>153</b>	<b>138</b>	-28	-58	-10

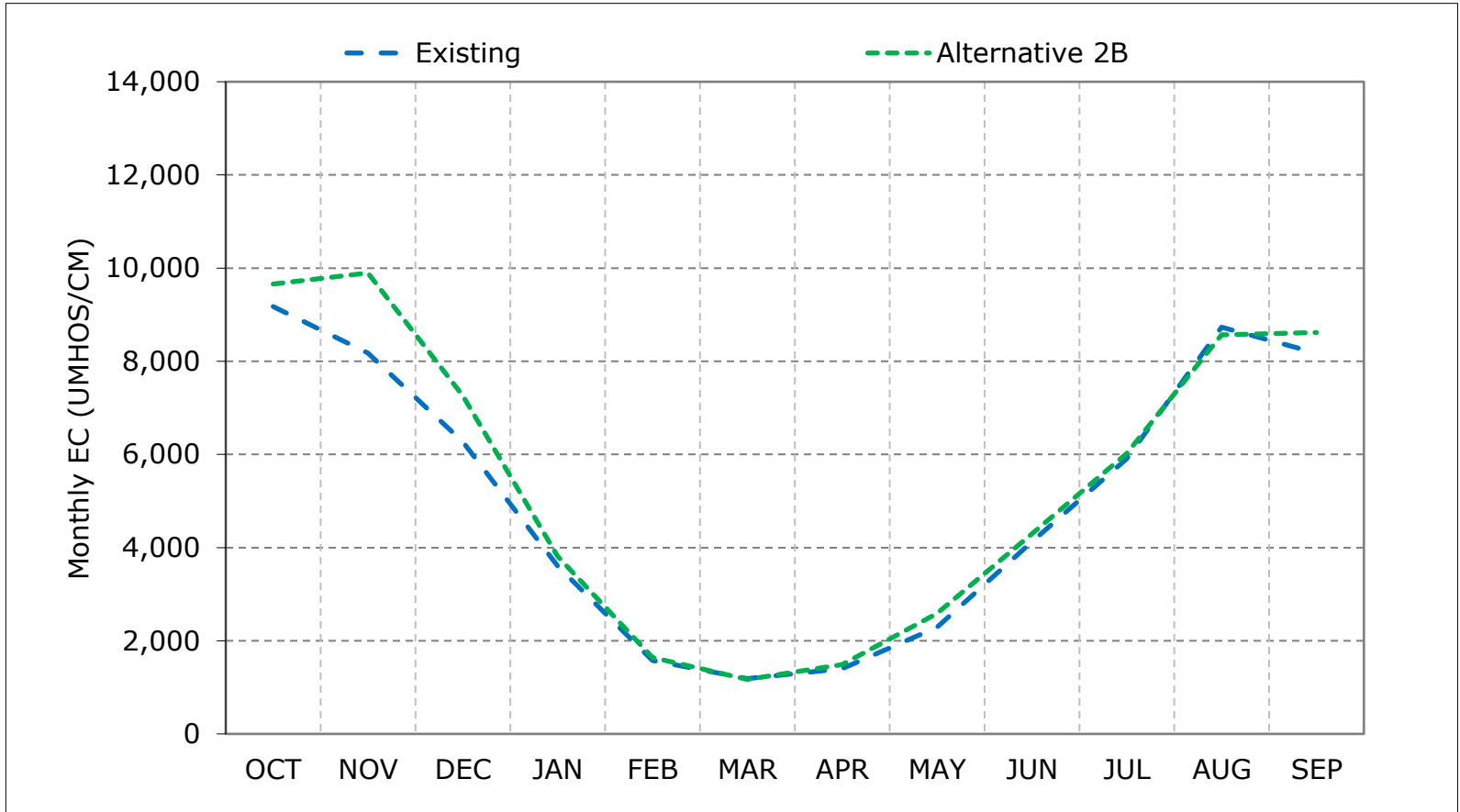
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

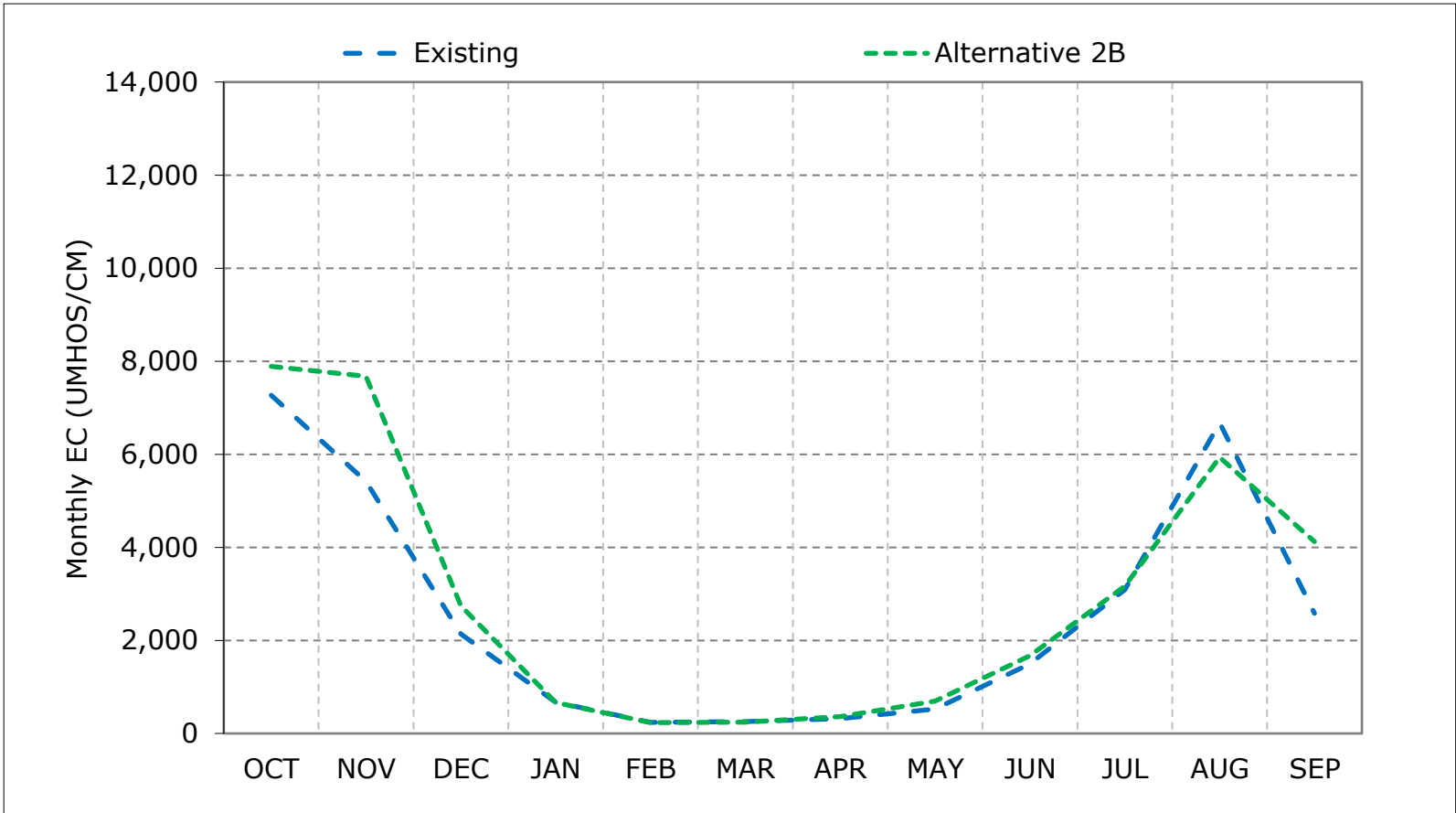
**Figure 7-1. Sacramento River at Mallard Slough Salinity, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

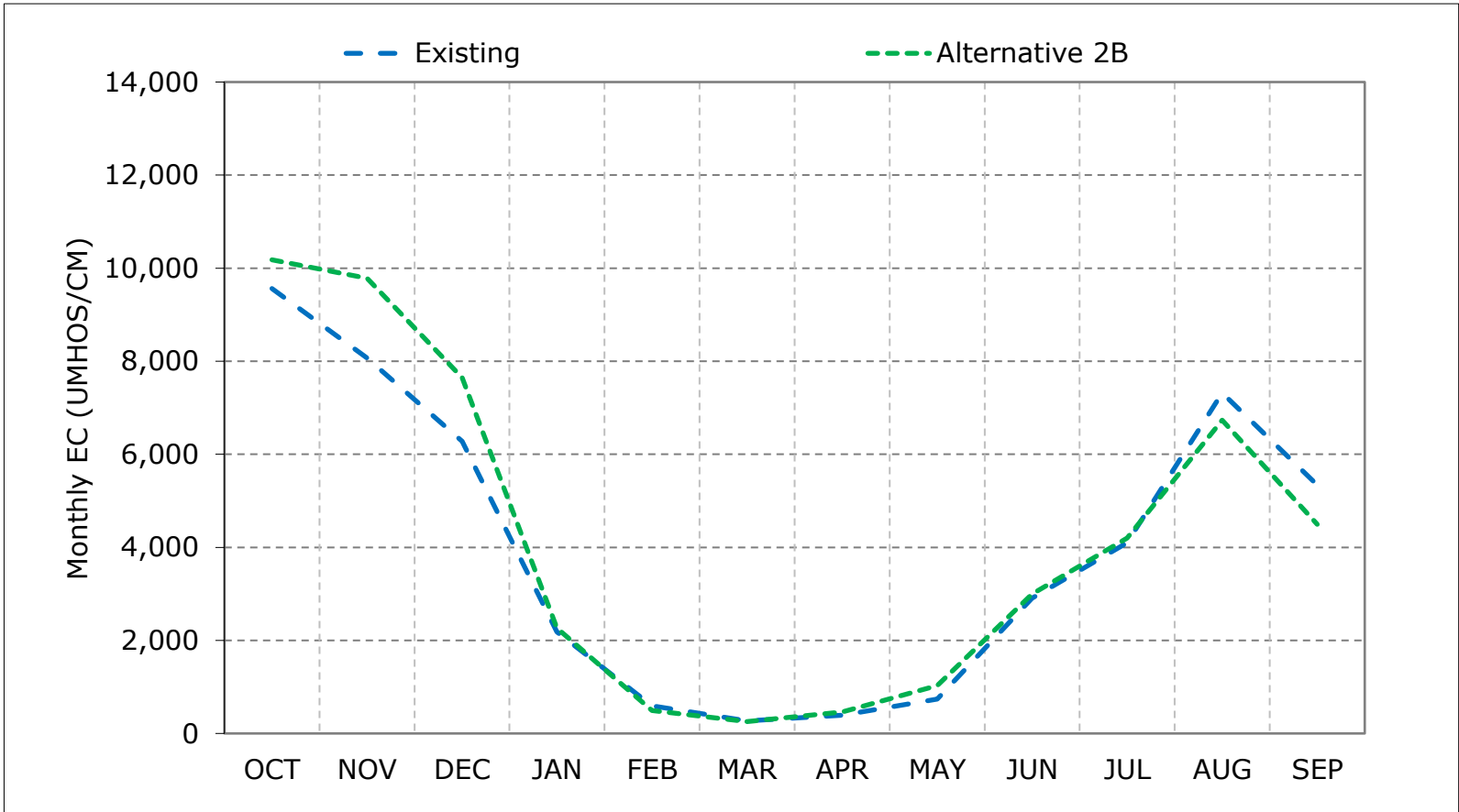
**Figure 7-2. Sacramento River at Mallard Slough Salinity, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

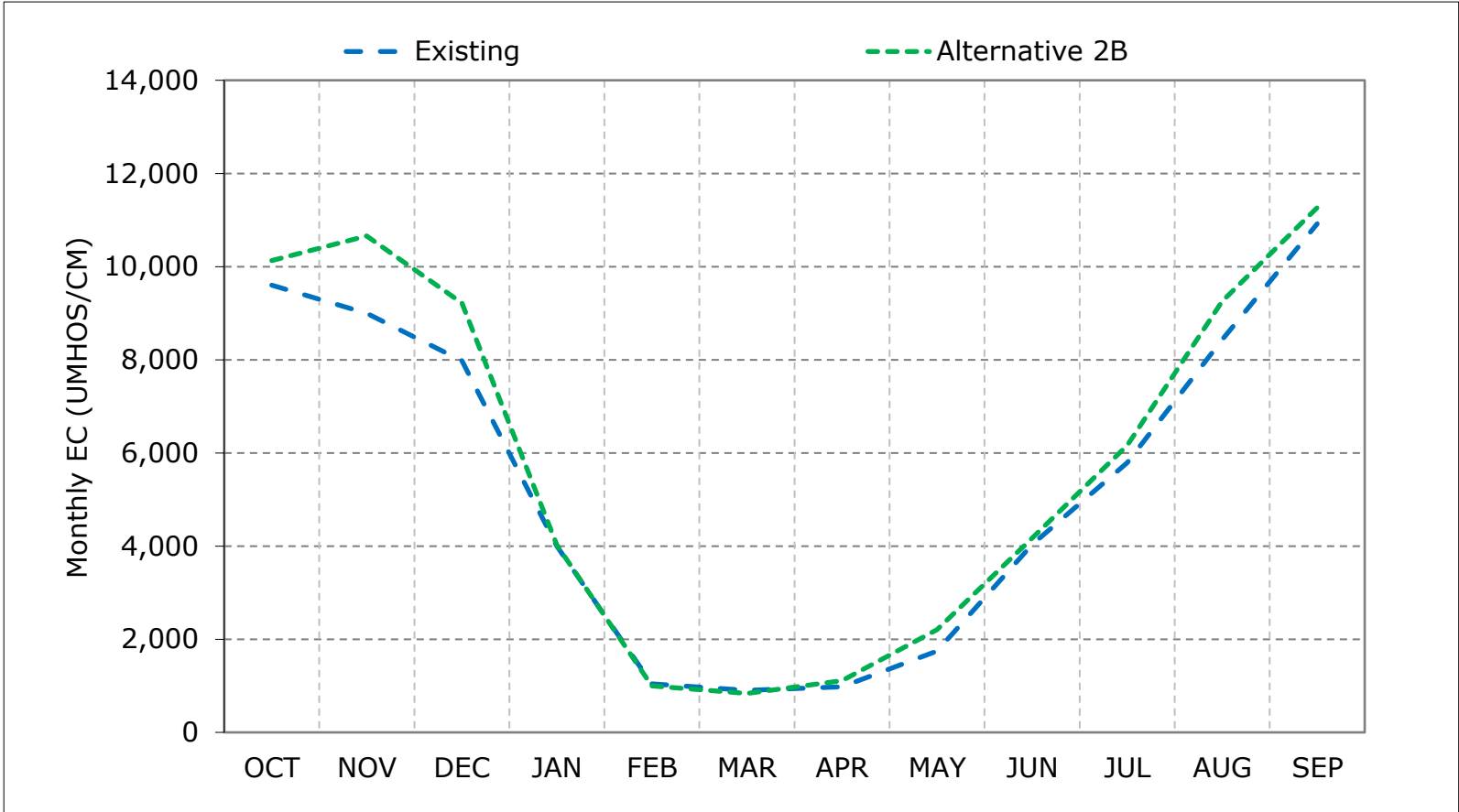
**Figure 7-3. Sacramento River at Mallard Slough Salinity, Above Normal Year Average**



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

\*These results are displayed with water year - year type sorting.

**Figure 7-4. Sacramento River at Mallard Slough Salinity, Below Normal Year Average EC**

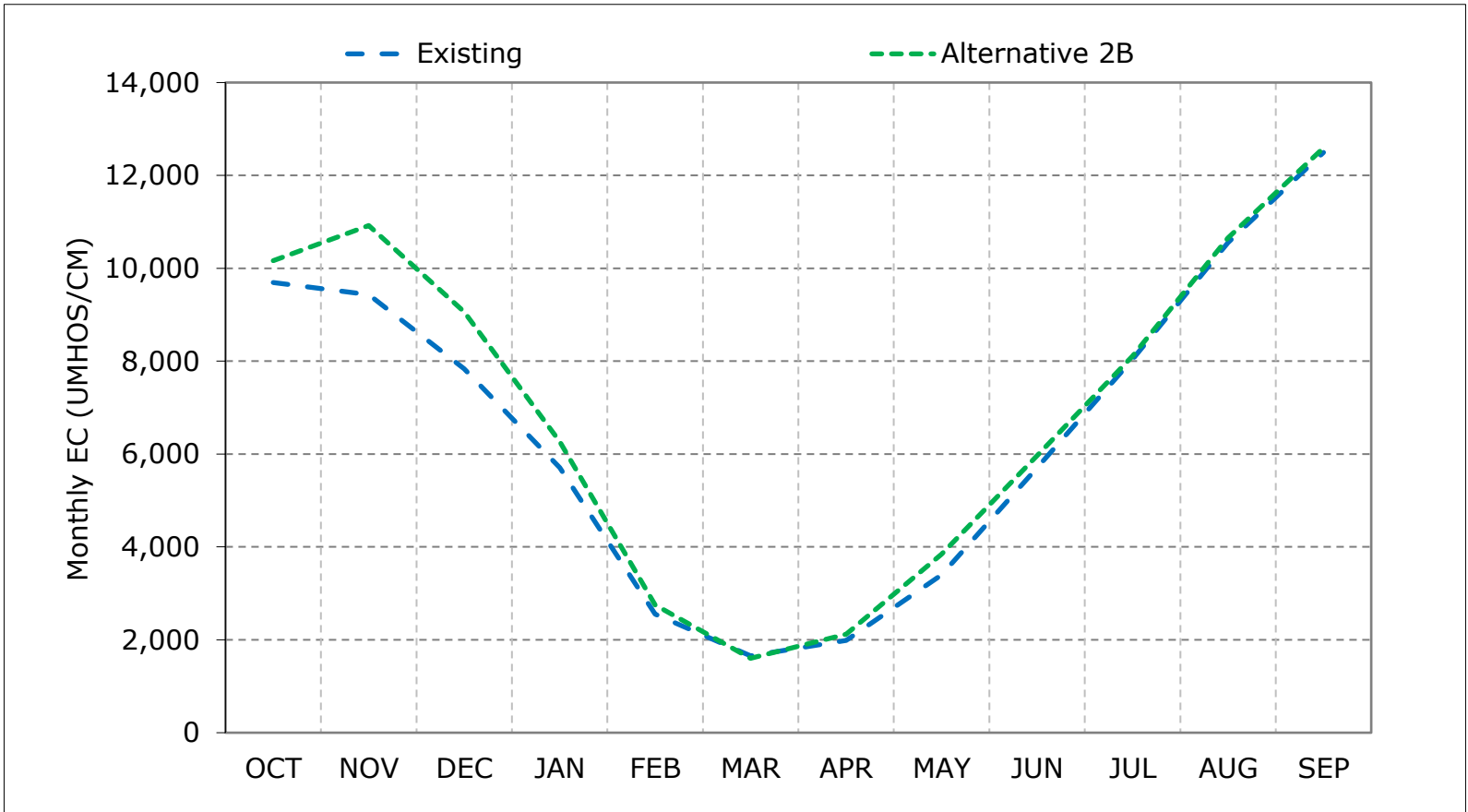


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



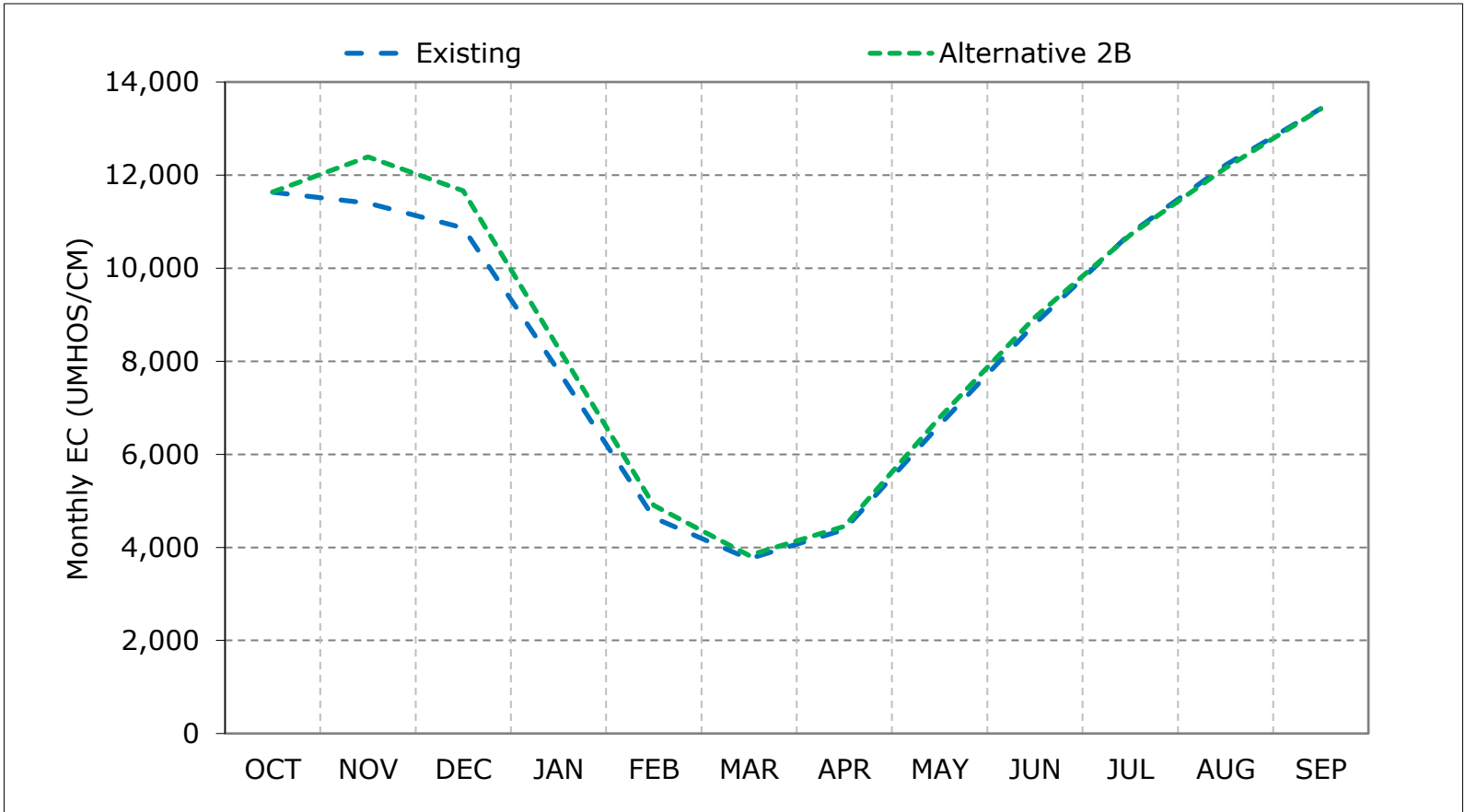
**Figure 7-5. Sacramento River at Mallard Slough Salinity, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

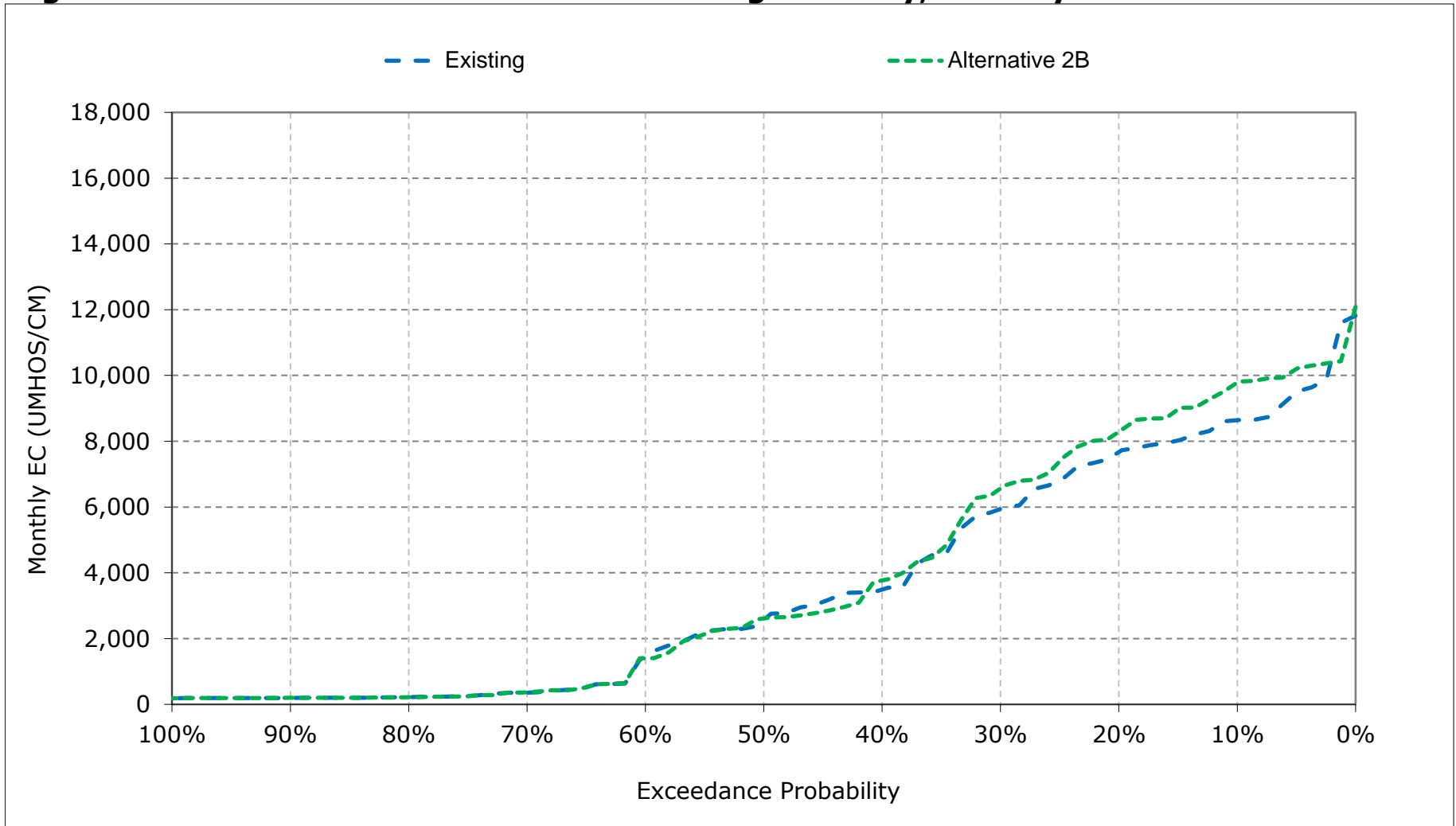
**Figure 7-6. Sacramento River at Mallard Slough Salinity, Critical Year Average EC**



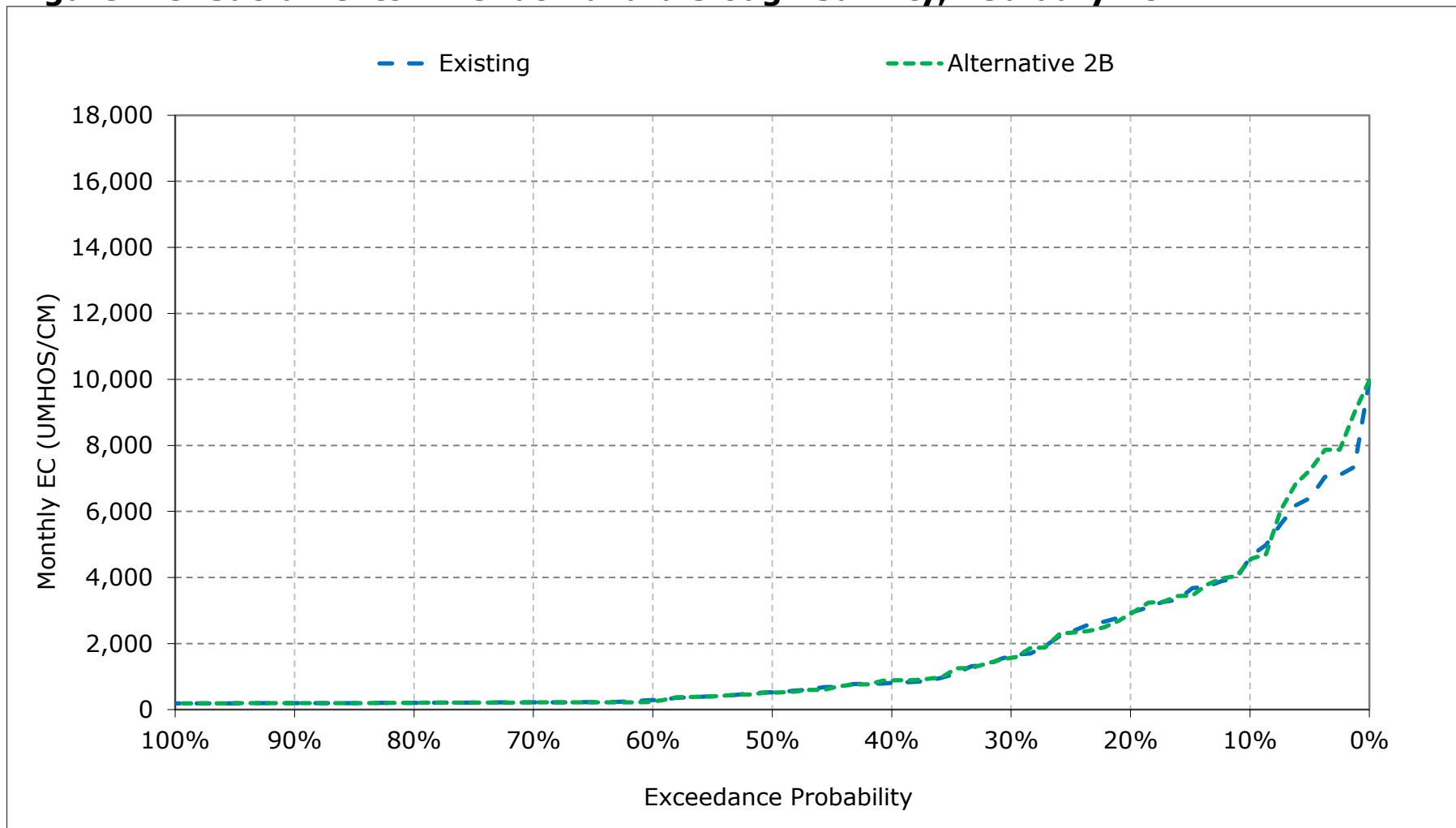
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

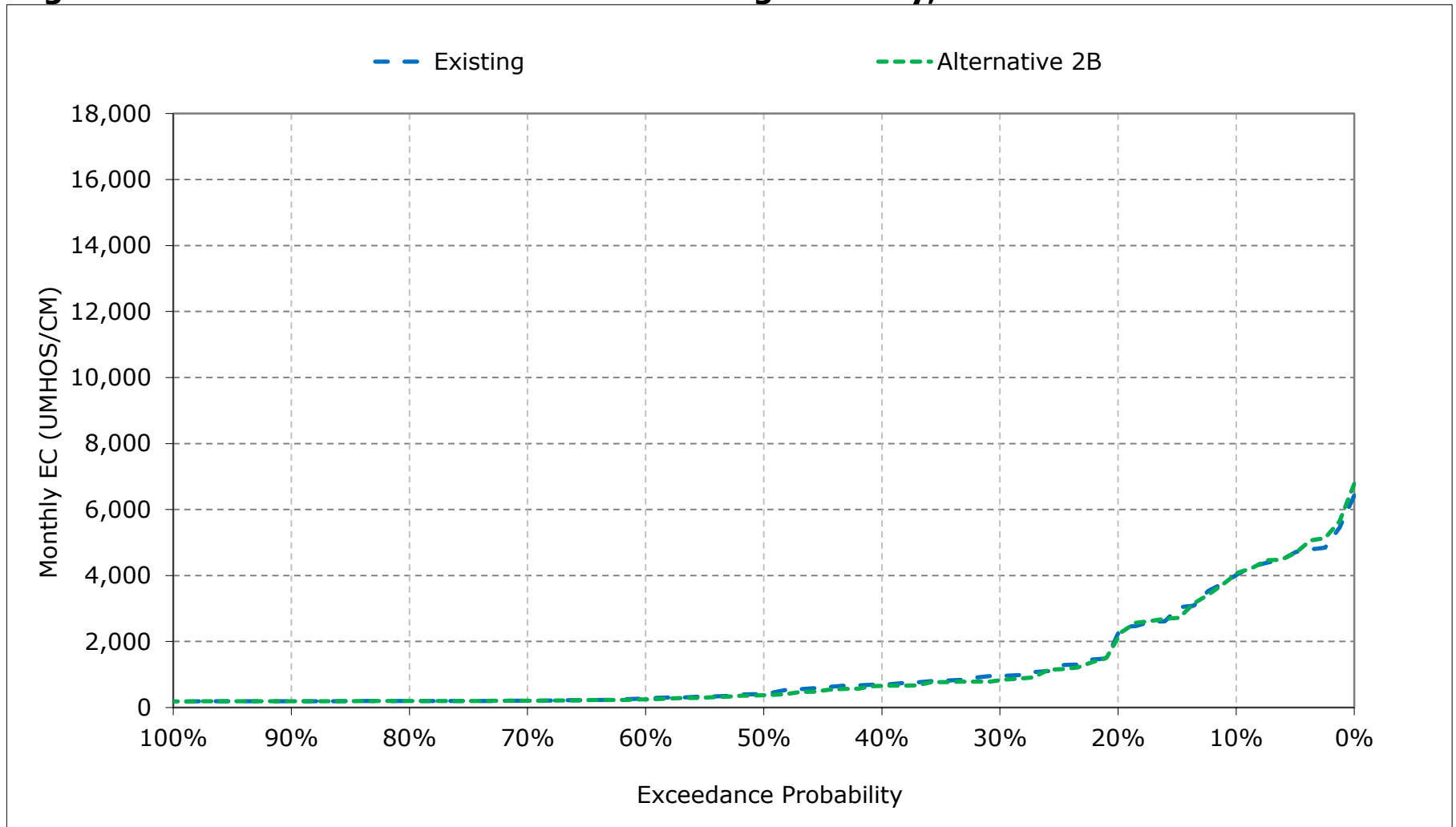
**Figure 7-7. Sacramento River at Mallard Slough Salinity, January EC**



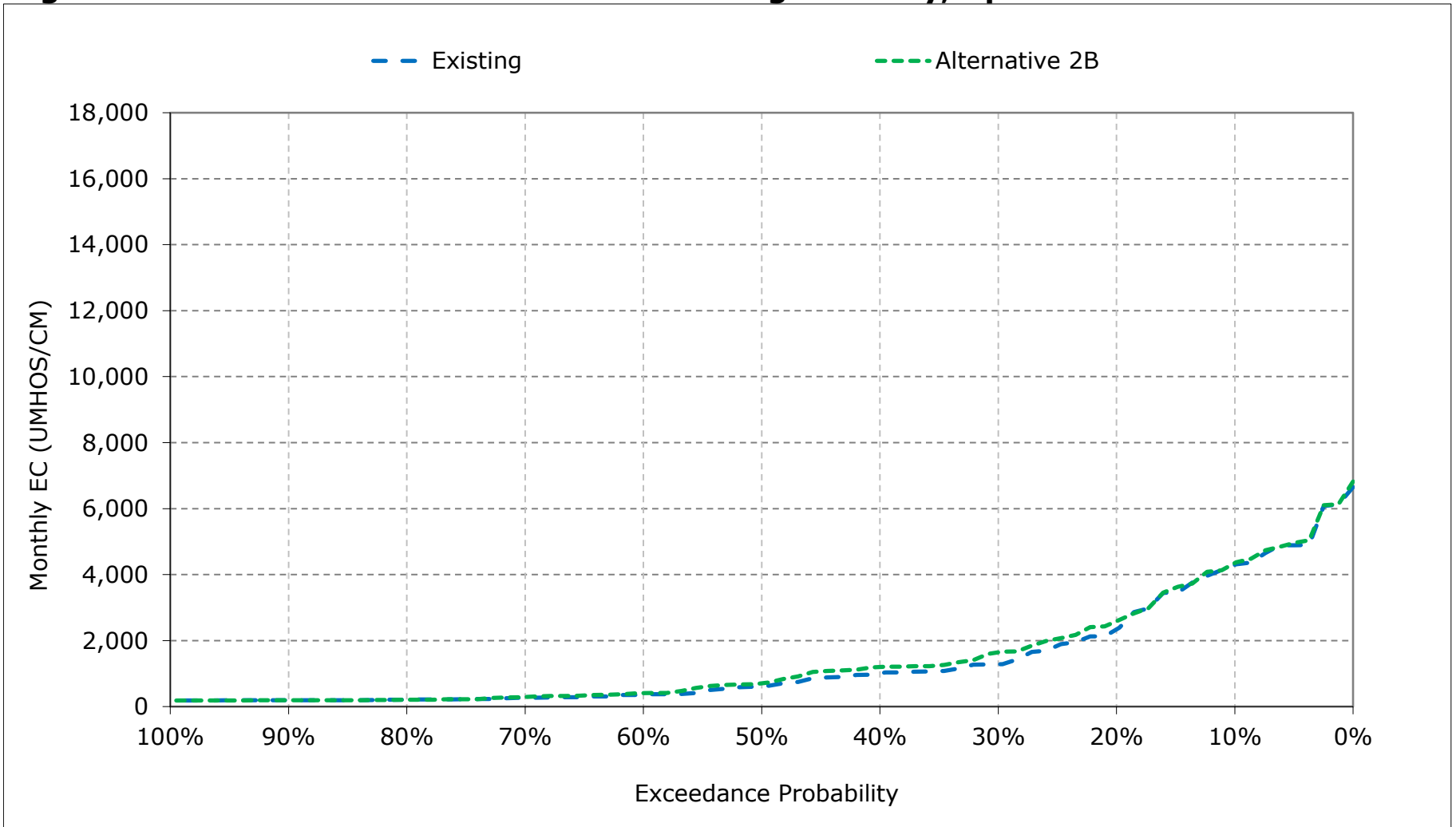
**Figure 7-8. Sacramento River at Mallard Slough Salinity, February EC**



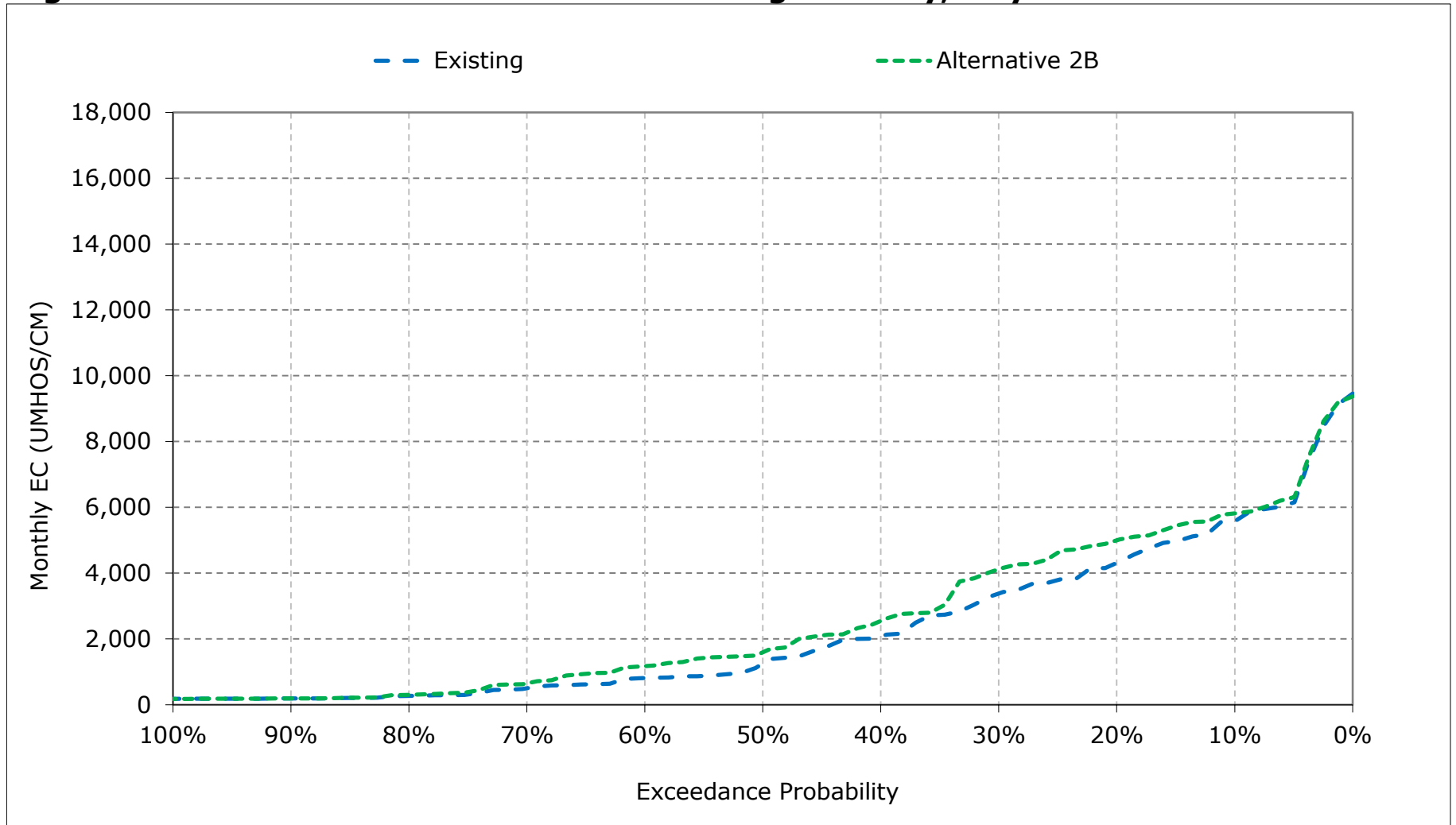
**Figure 7-9. Sacramento River at Mallard Slough Salinity, March EC**



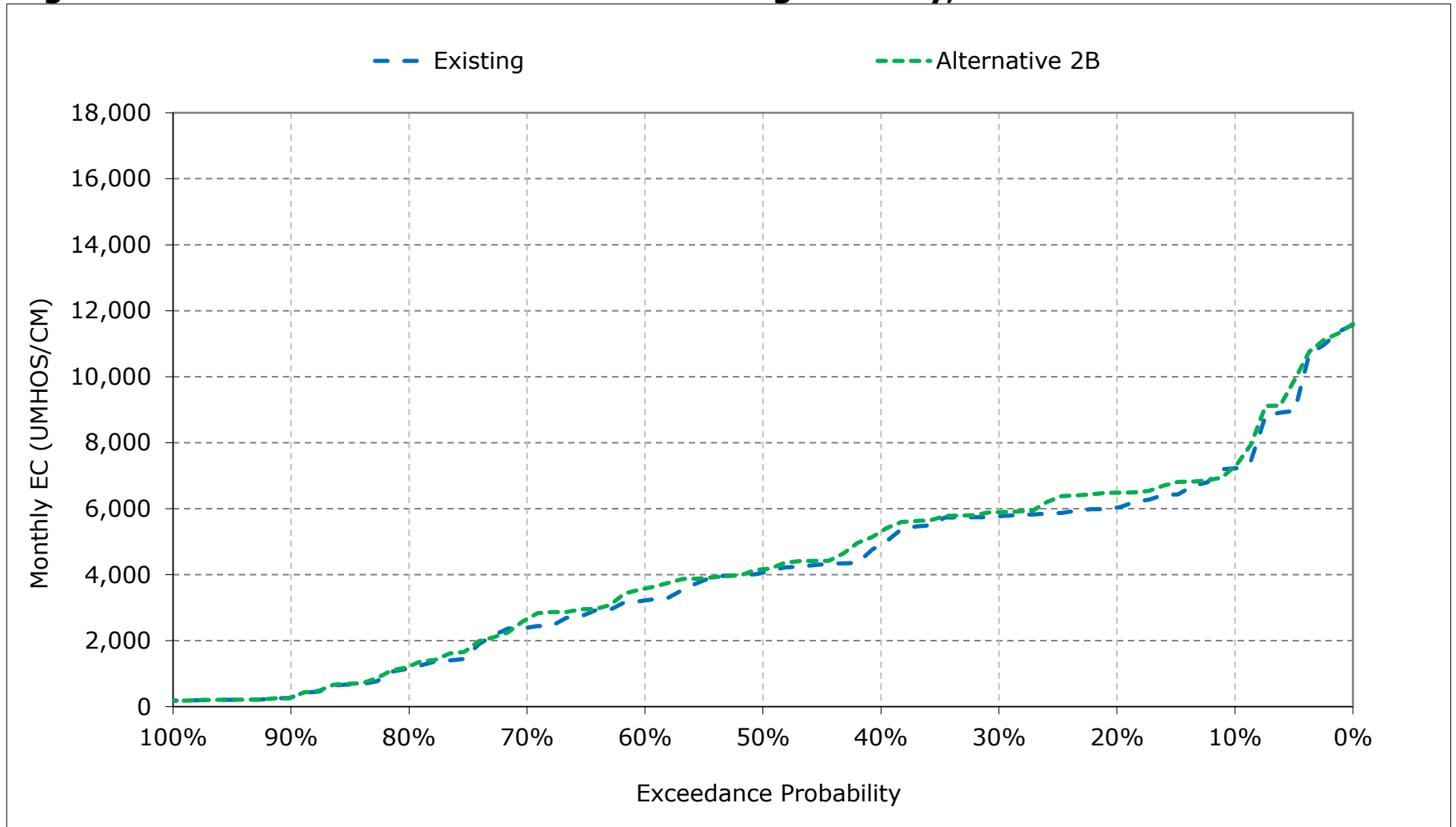
**Figure 7-10. Sacramento River at Mallard Slough Salinity, April EC**



**Figure 7-11. Sacramento River at Mallard Slough Salinity, May EC**

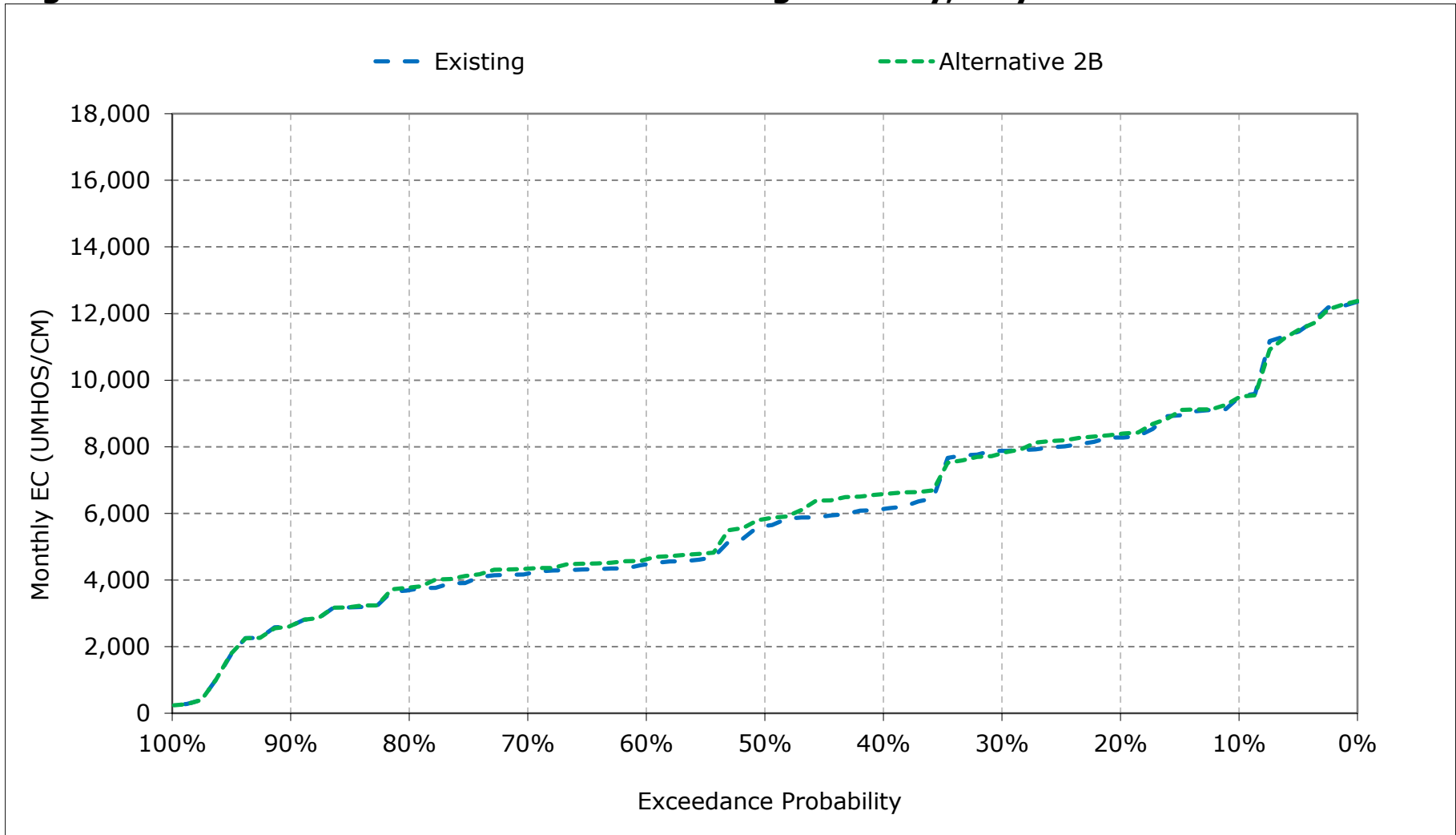


**Figure 7-12. Sacramento River at Mallard Slough Salinity, June EC**

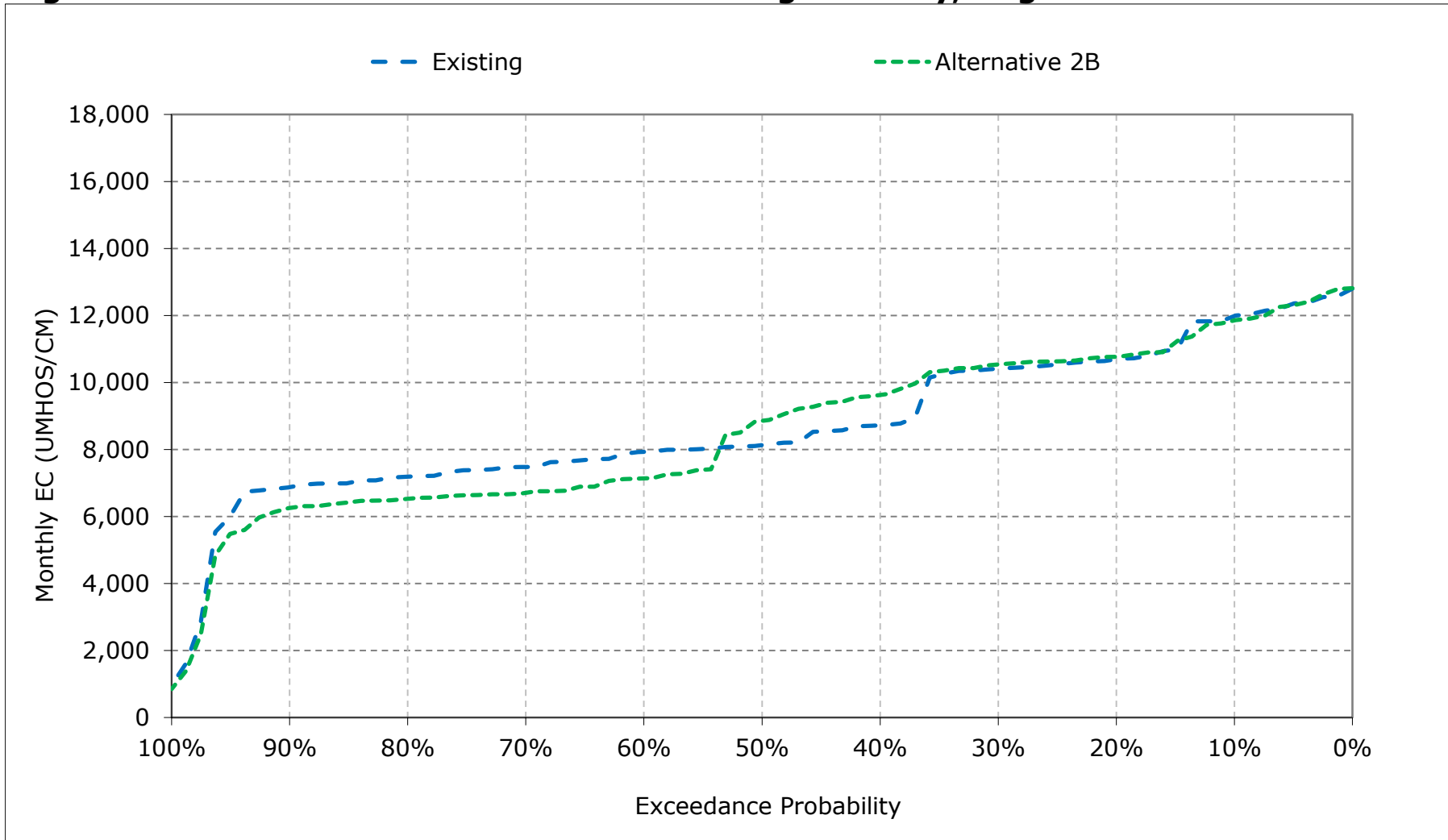




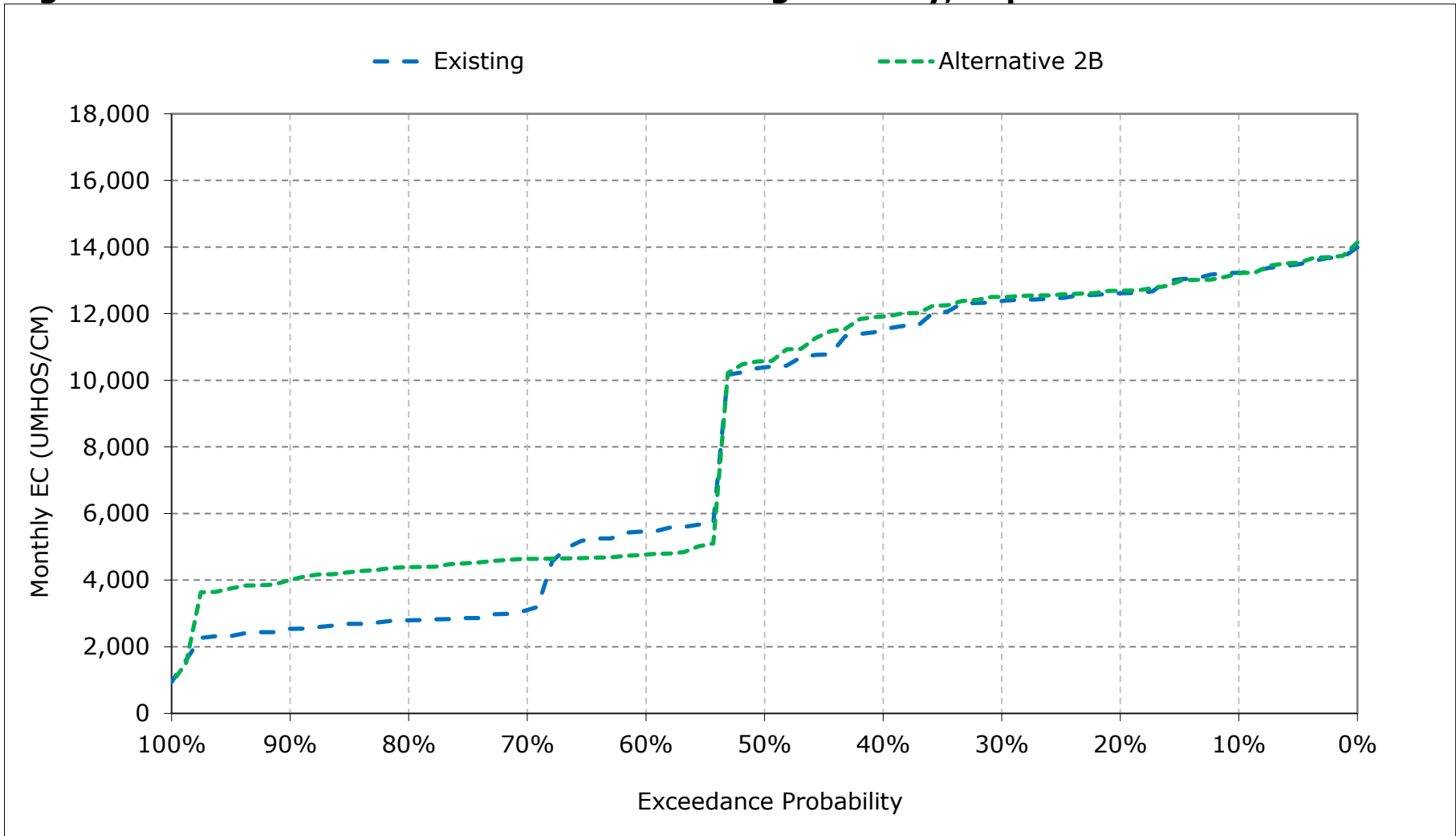
**Figure 7-13. Sacramento River at Mallard Slough Salinity, July EC**



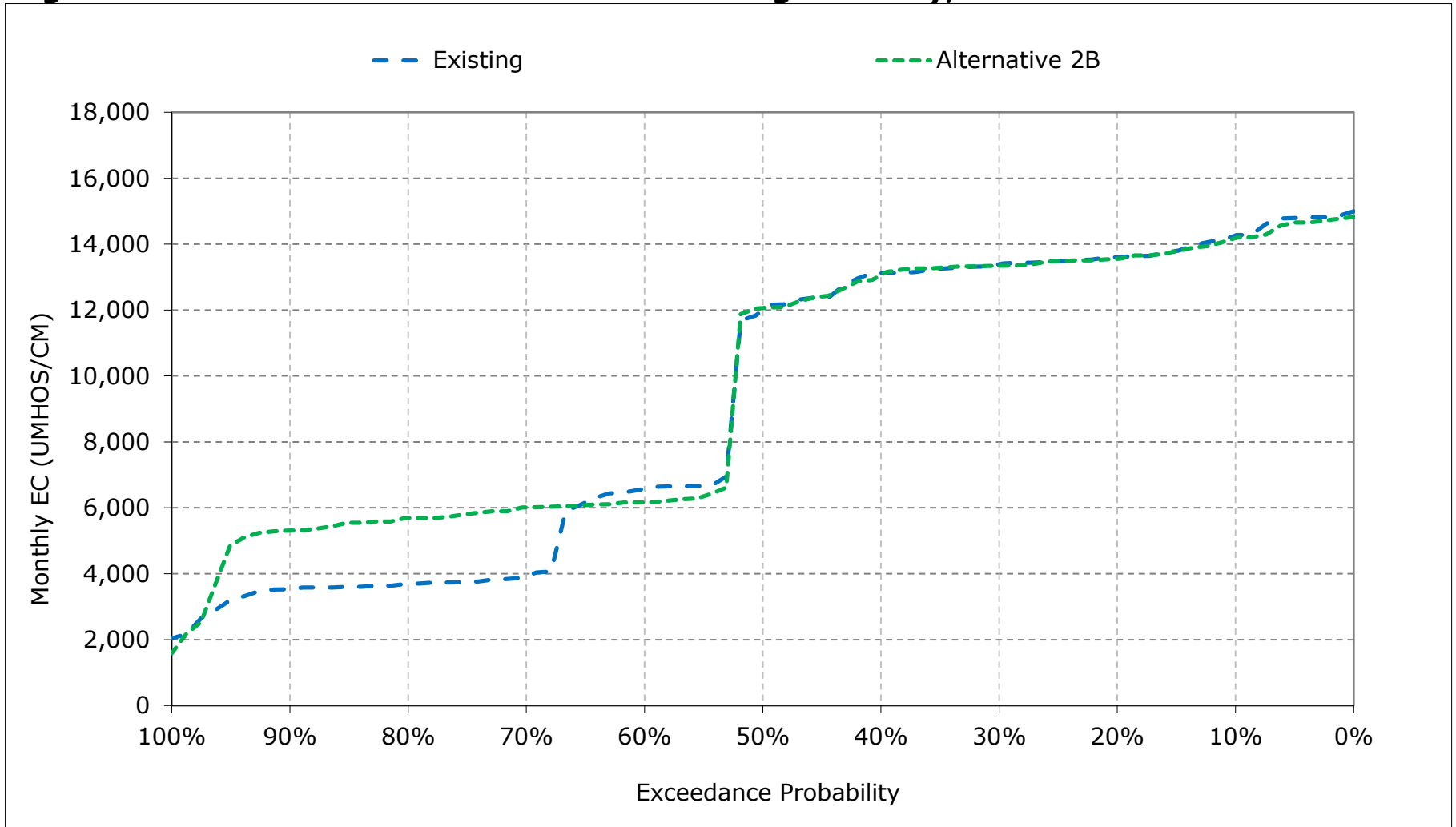
**Figure 7-14. Sacramento River at Mallard Slough Salinity, August EC**



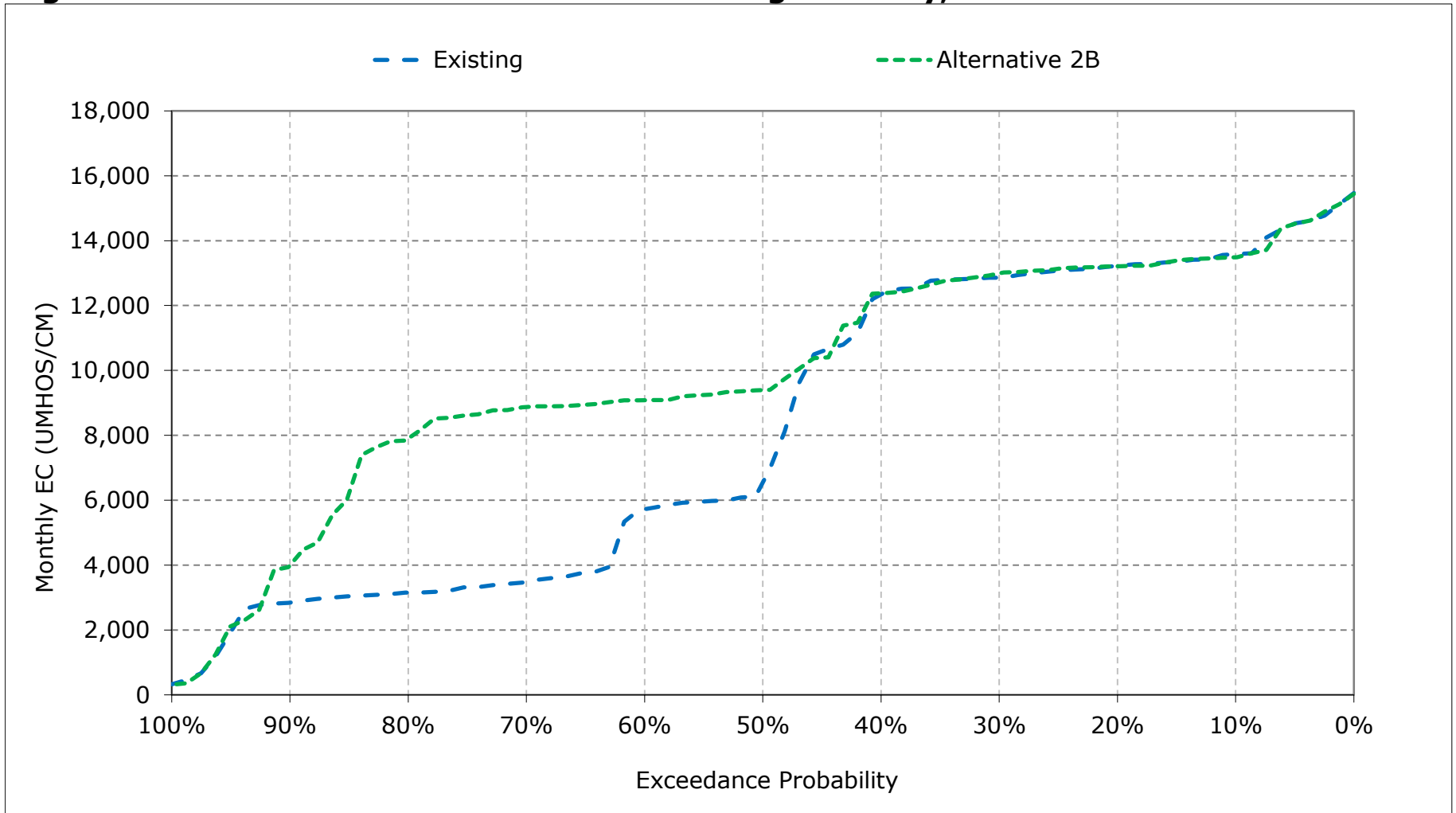
**Figure 7-15. Sacramento River at Mallard Slough Salinity, September EC**



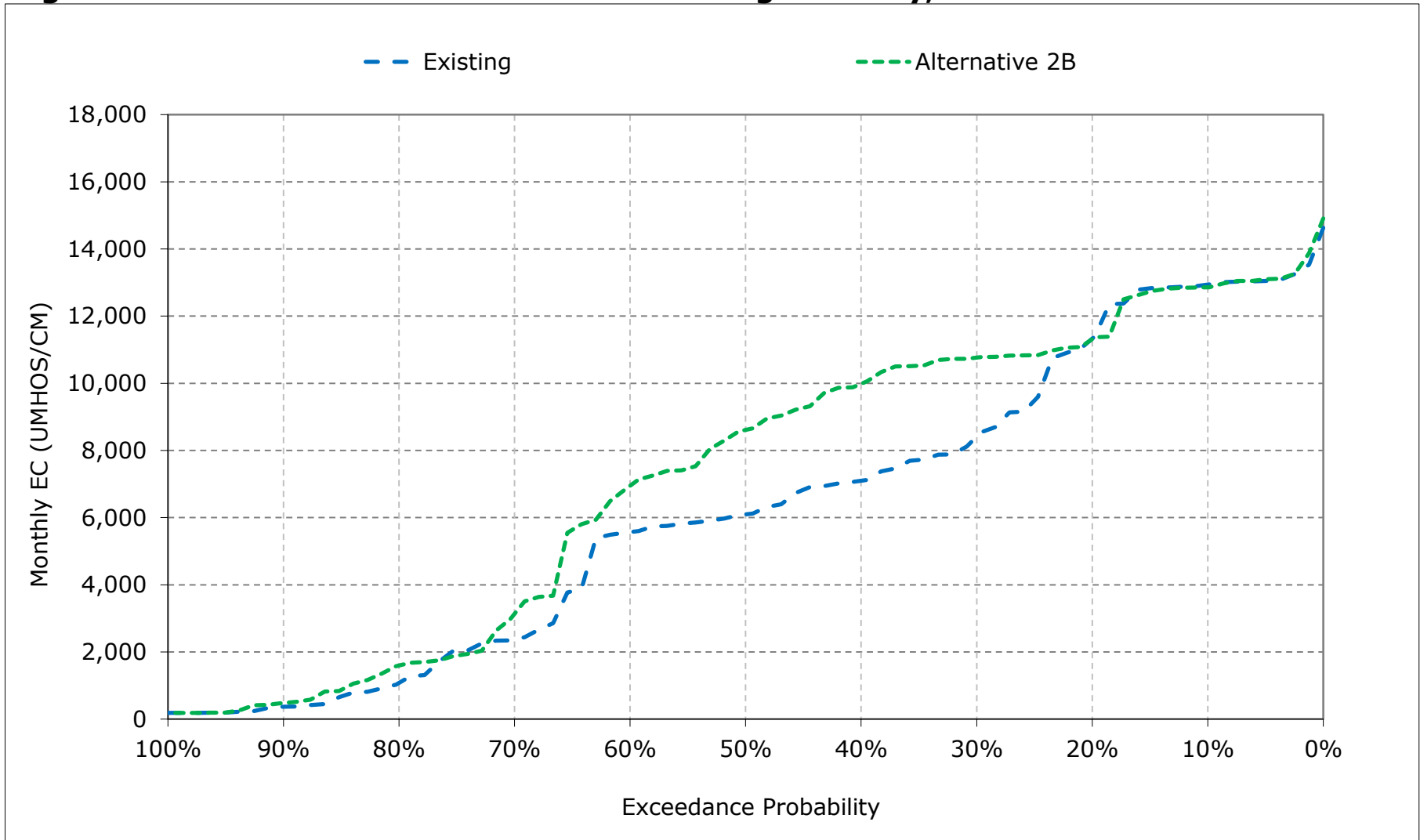
**Figure 7-16. Sacramento River at Mallard Slough Salinity, October EC**



**Figure 7-17. Sacramento River at Mallard Slough Salinity, November EC**



**Figure 7-18. Sacramento River at Mallard Slough Salinity, December EC**



**Table 8-1. Chipps Island North Channel Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	15,139	14,489	13,877	9,532	5,409	4,772	5,053	6,361	8,135	10,388	12,932	14,201
20%	14,525	14,158	12,320	8,644	3,435	2,748	2,823	5,030	6,871	9,219	11,638	13,565
30%	14,305	13,845	9,373	6,782	1,972	1,203	1,605	3,990	6,566	8,803	11,372	13,321
40%	14,060	13,301	8,053	4,143	1,005	902	1,261	2,549	5,667	6,999	9,694	12,485
50%	12,935	7,466	6,810	3,056	635	523	799	1,562	4,672	6,498	9,035	11,383
60%	7,398	6,550	6,264	1,784	321	316	446	1,033	3,816	5,231	8,836	6,341
70%	4,524	4,091	2,848	434	222	214	304	625	2,841	4,928	8,368	3,730
80%	4,248	3,742	1,294	227	203	200	215	317	1,451	4,385	8,047	3,386
90%	4,118	3,425	450	197	194	192	194	198	321	3,086	7,737	3,074
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	9,960	8,946	6,919	4,087	1,838	1,408	1,666	2,659	4,697	6,669	9,627	8,996
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	7,986	6,081	2,461	761	253	280	364	625	1,765	3,635	7,485	3,140
Above Normal (15%)	10,362	8,828	6,983	2,528	692	305	468	909	3,388	4,812	8,193	6,219
Below Normal (17%)	10,414	9,840	8,741	4,591	1,252	1,113	1,204	2,106	4,665	6,641	9,377	11,904
Dry (22%)	10,498	10,257	8,668	6,472	3,009	2,003	2,412	3,999	6,494	8,973	11,500	13,449
Critical (15%)	12,501	12,262	11,767	8,686	5,345	4,410	5,103	7,452	9,701	11,681	13,181	14,387

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	15,094	14,396	13,812	10,776	5,326	4,809	5,118	6,596	8,158	10,418	12,808	14,186
20%	14,478	14,129	12,226	9,307	3,407	2,601	3,170	5,804	7,354	9,314	11,724	13,644
30%	14,276	13,916	11,721	7,441	1,929	1,052	2,007	4,853	6,699	8,755	11,487	13,462
40%	14,003	13,310	10,963	4,446	1,106	826	1,483	3,083	6,115	7,436	10,509	12,861
50%	12,997	10,241	9,620	3,098	600	465	903	1,987	4,829	6,690	9,714	11,554
60%	6,951	9,945	7,888	1,737	269	277	511	1,489	4,250	5,380	8,071	5,617
70%	6,797	9,723	3,770	432	220	212	344	844	3,133	5,089	7,599	5,476
80%	6,468	8,772	1,859	219	204	200	216	375	1,527	4,431	7,418	5,210
90%	6,082	4,577	551	197	194	193	190	199	327	3,091	7,151	4,804
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	10,491	10,731	7,965	4,302	1,900	1,383	1,772	3,008	4,896	6,784	9,461	9,498
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	8,667	8,428	3,121	759	246	268	425	834	1,973	3,717	6,758	4,900
Above Normal (15%)	11,044	10,619	8,419	2,605	580	283	554	1,275	3,512	4,921	7,637	5,333
Below Normal (17%)	10,994	11,572	10,040	4,604	1,196	1,026	1,370	2,654	4,840	6,988	10,140	12,217
Dry (22%)	11,015	11,779	9,949	7,062	3,231	1,934	2,568	4,502	6,787	9,048	11,607	13,547
Critical (15%)	12,520	13,281	12,608	9,186	5,625	4,491	5,187	7,622	9,845	11,661	13,126	14,378

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-45	-93	-65	<b>1,243</b>	-83	<b>37</b>	<b>65</b>	<b>236</b>	<b>23</b>	<b>30</b>	-124	-14
20%	-47	-29	-94	<b>663</b>	-28	-147	<b>347</b>	<b>774</b>	<b>484</b>	<b>95</b>	<b>86</b>	<b>79</b>
30%	-28	<b>71</b>	<b>2,347</b>	<b>659</b>	-44	-151	<b>402</b>	<b>863</b>	<b>133</b>	-48	<b>115</b>	<b>142</b>
40%	-57	<b>9</b>	<b>2,911</b>	<b>303</b>	<b>101</b>	-76	<b>222</b>	<b>535</b>	<b>448</b>	<b>436</b>	<b>815</b>	<b>376</b>
50%	<b>62</b>	<b>2,775</b>	<b>2,810</b>	<b>42</b>	-34	-58	<b>104</b>	<b>426</b>	<b>157</b>	<b>192</b>	<b>678</b>	<b>171</b>
60%	-447	<b>3,395</b>	<b>1,624</b>	-46	-52	-40	<b>65</b>	<b>456</b>	<b>434</b>	<b>149</b>	-765	-724
70%	<b>2,273</b>	<b>5,632</b>	<b>922</b>	-1	-2	-2	<b>40</b>	<b>219</b>	<b>293</b>	<b>161</b>	-769	<b>1,745</b>
80%	<b>2,220</b>	<b>5,030</b>	<b>565</b>	-8	<b>2</b>	0	<b>1</b>	<b>58</b>	<b>76</b>	<b>45</b>	-628	<b>1,824</b>
90%	<b>1,964</b>	<b>1,152</b>	<b>101</b>	<b>0</b>	<b>1</b>	<b>1</b>	-3	<b>0</b>	<b>6</b>	<b>5</b>	-586	<b>1,730</b>
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	<b>531</b>	<b>1,785</b>	<b>1,045</b>	<b>215</b>	<b>62</b>	-25	<b>107</b>	<b>349</b>	<b>199</b>	<b>115</b>	-166	<b>502</b>
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	<b>682</b>	<b>2,347</b>	<b>660</b>	-3	-7	-12	<b>62</b>	<b>209</b>	<b>208</b>	<b>82</b>	-727	<b>1,760</b>
Above Normal (15%)	<b>682</b>	<b>1,790</b>	<b>1,436</b>	<b>76</b>	-113	-22	<b>86</b>	<b>366</b>	<b>125</b>	<b>109</b>	-556	-886
Below Normal (17%)	<b>580</b>	<b>1,732</b>	<b>1,298</b>	<b>13</b>	-56	-87	<b>166</b>	<b>548</b>	<b>175</b>	<b>348</b>	<b>763</b>	<b>313</b>
Dry (22%)	<b>516</b>	<b>1,522</b>	<b>1,281</b>	<b>590</b>	<b>222</b>	-68	<b>155</b>	<b>503</b>	<b>292</b>	<b>76</b>	<b>107</b>	<b>99</b>
Critical (15%)	<b>19</b>	<b>1,019</b>	<b>841</b>	<b>501</b>	<b>280</b>	<b>81</b>	<b>84</b>	<b>170</b>	<b>144</b>	-21	-55	-9

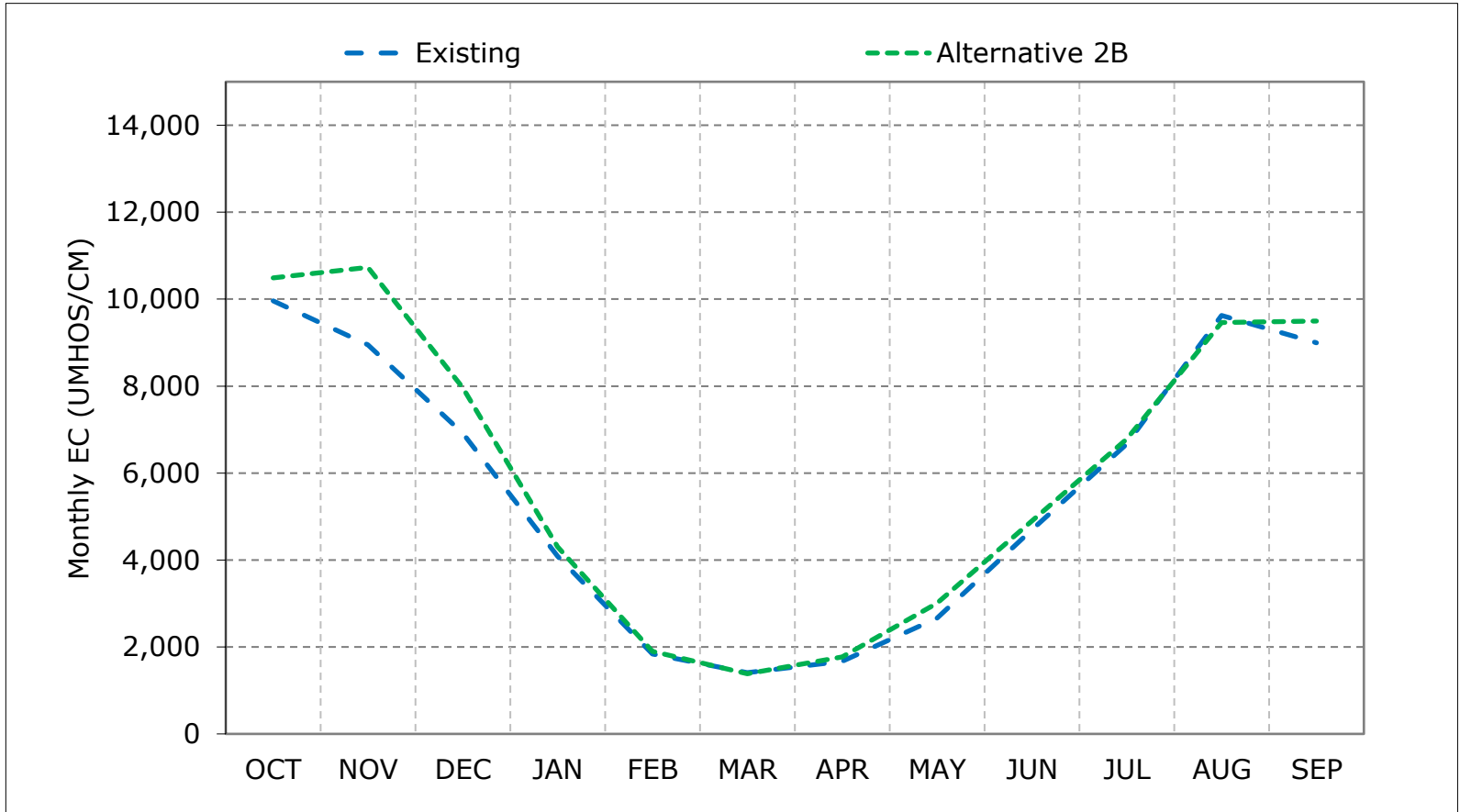
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

**Figure 8-1. Chipps Island North Channel Salinity, Long-Term Average EC**

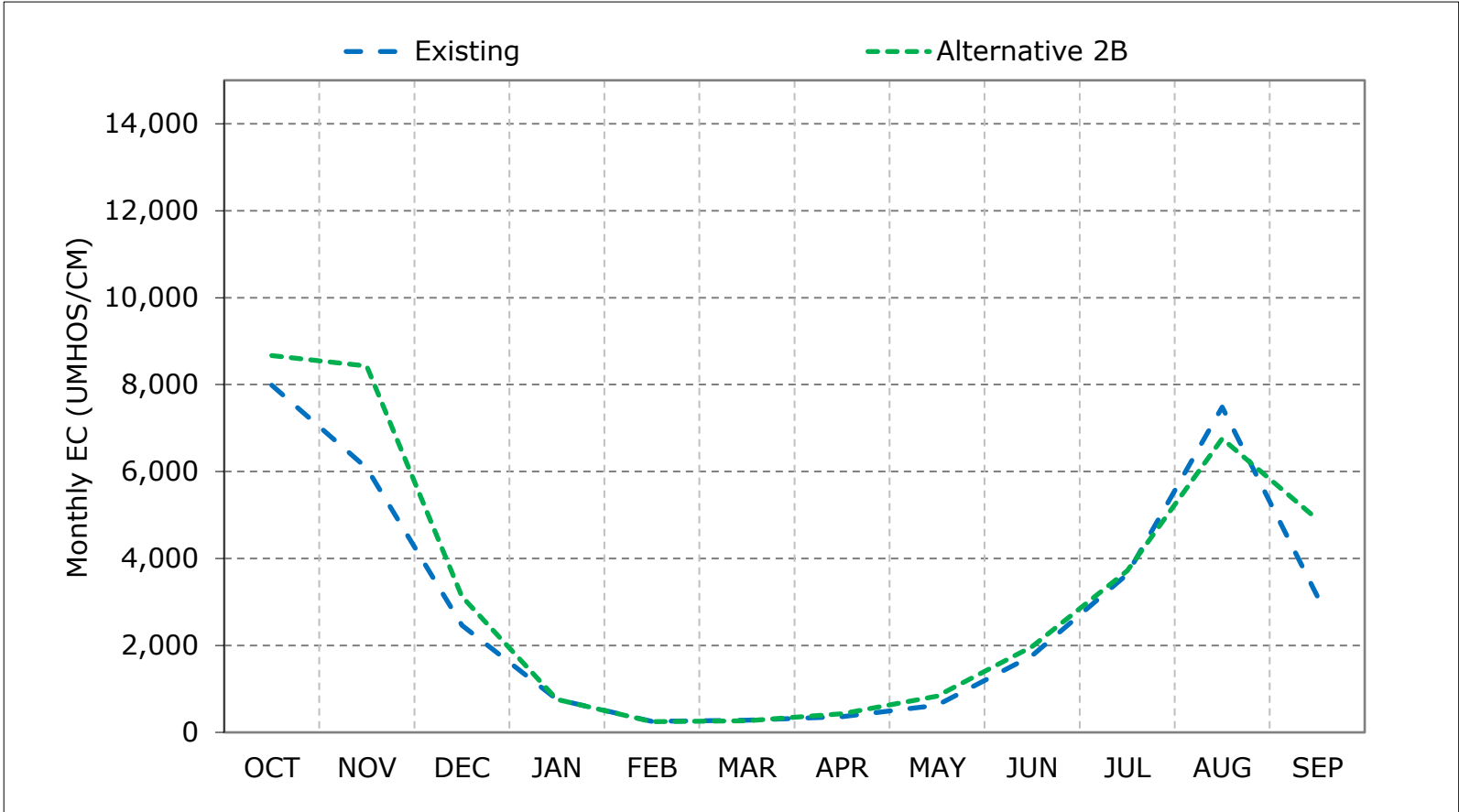


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



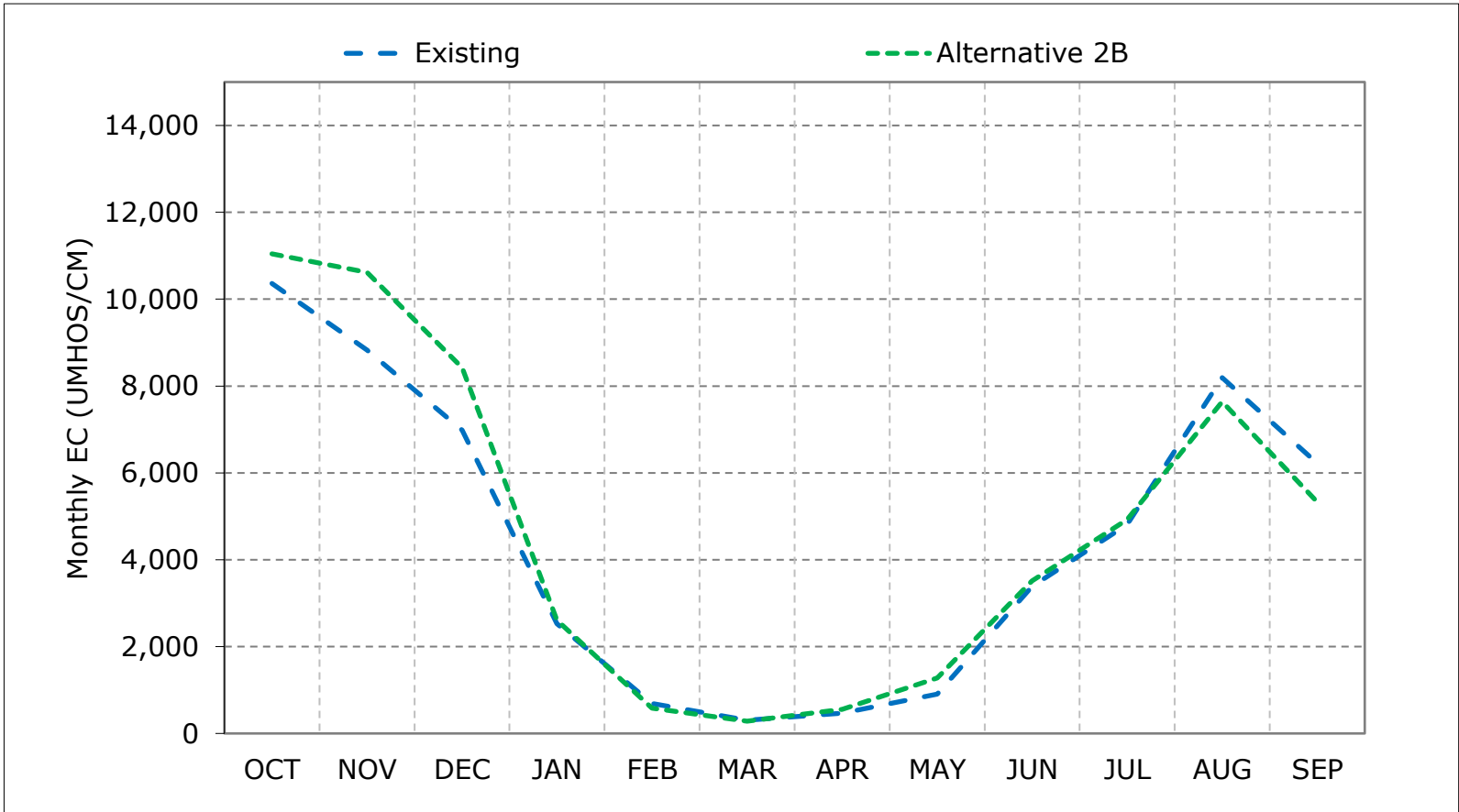
**Figure 8-2. Chipps Island North Channel Salinity, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

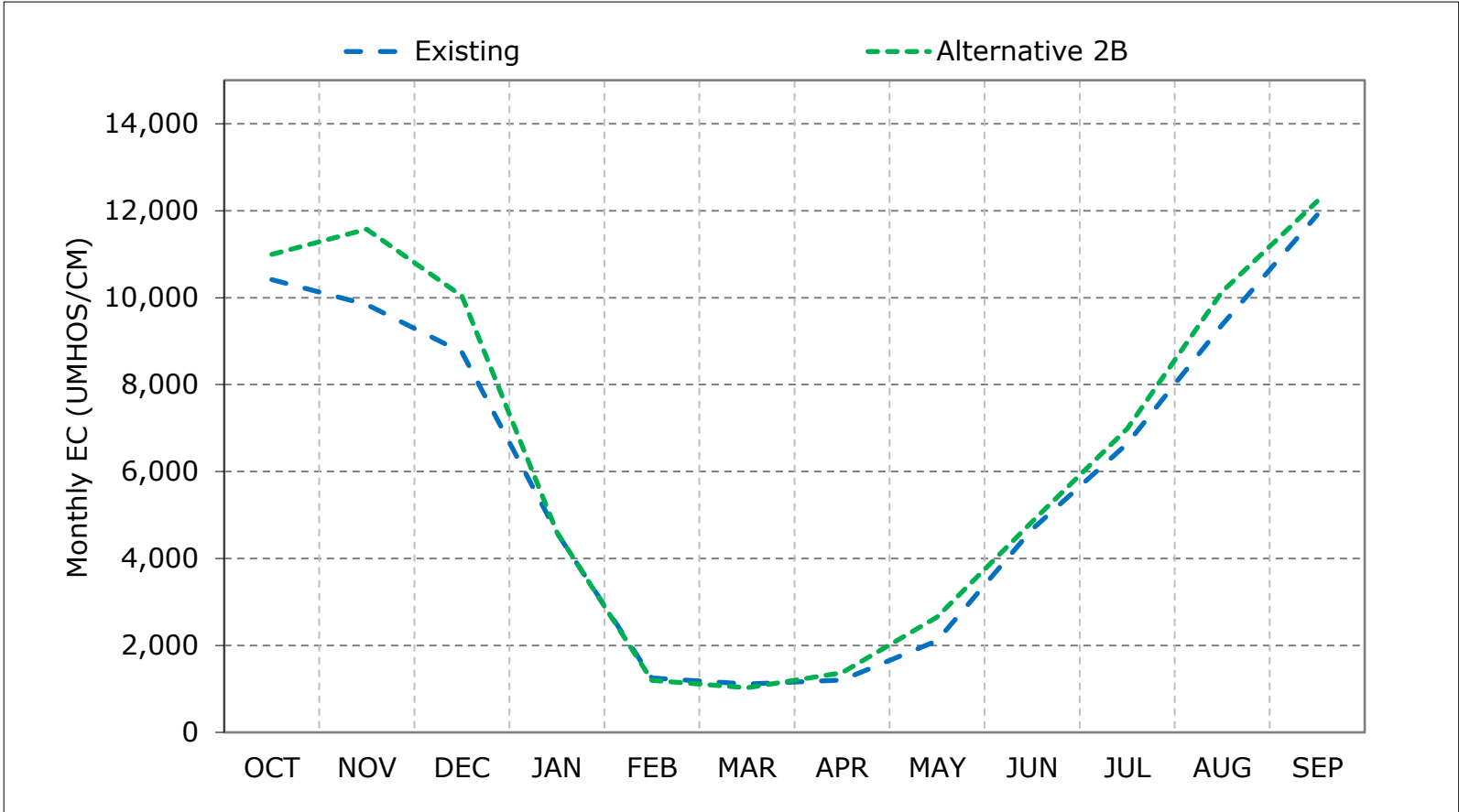
**Figure 8-3. Chipps Island North Channel Salinity, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

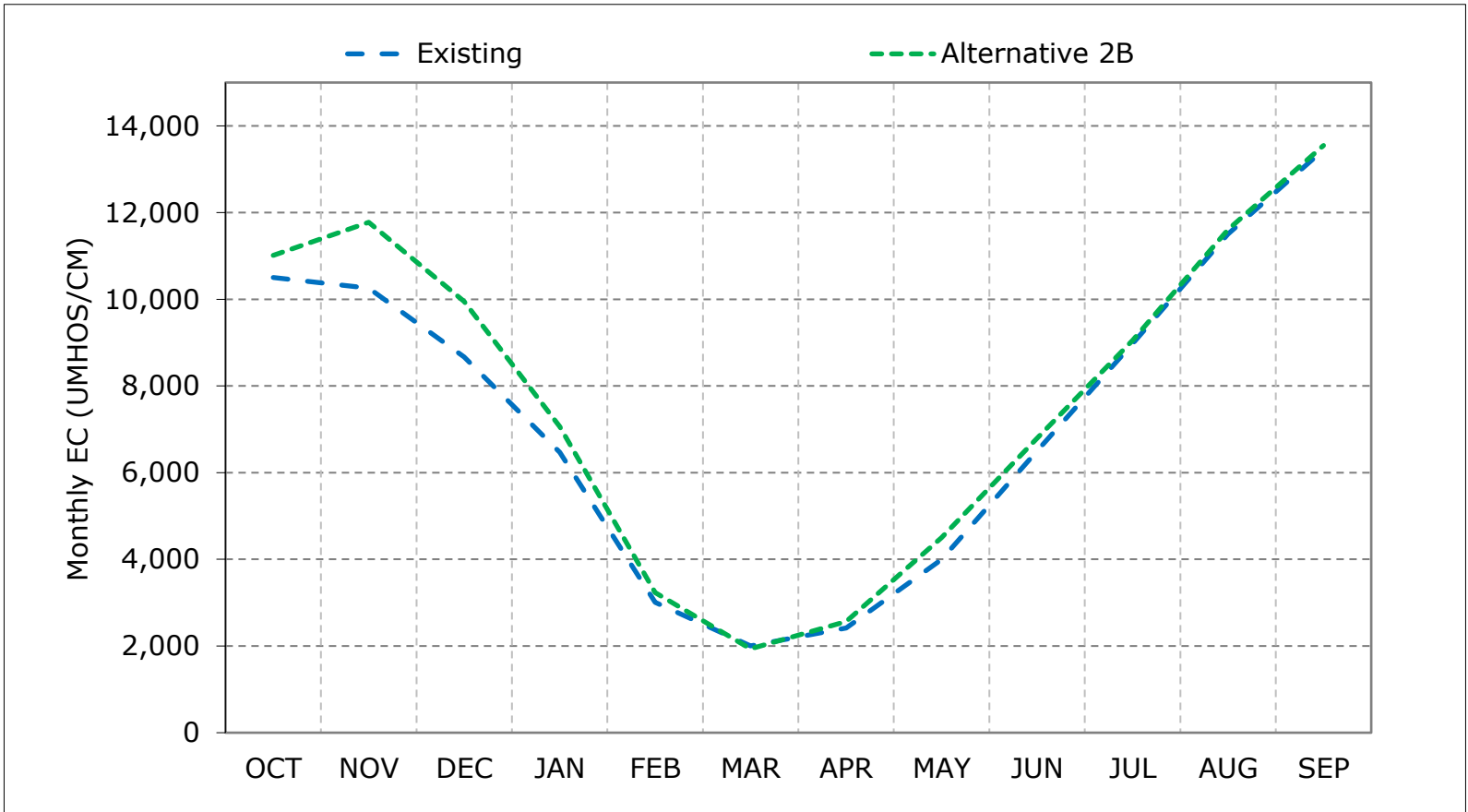
**Figure 8-4. Chipps Island North Channel Salinity, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

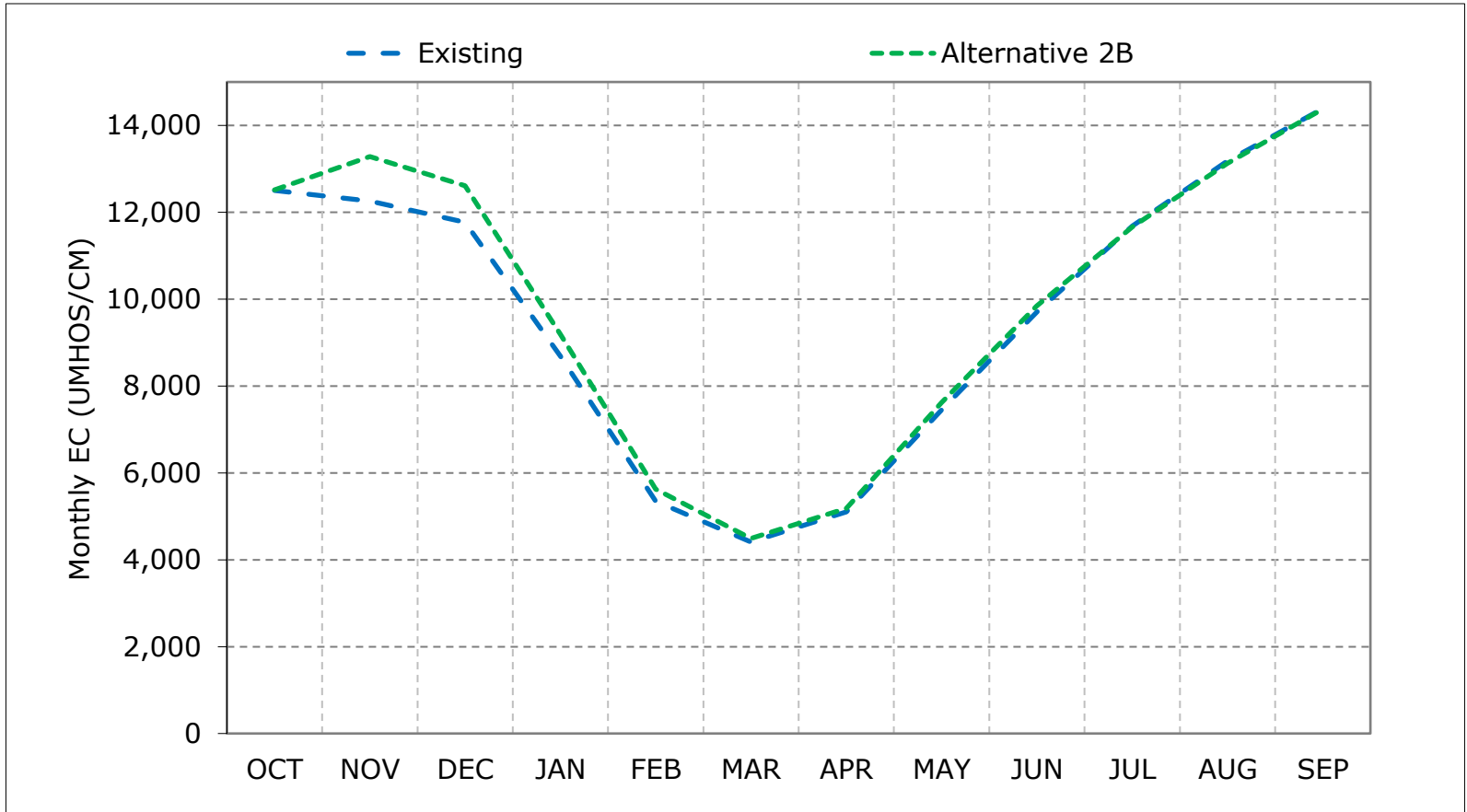
**Figure 8-5. Chipps Island North Channel Salinity, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

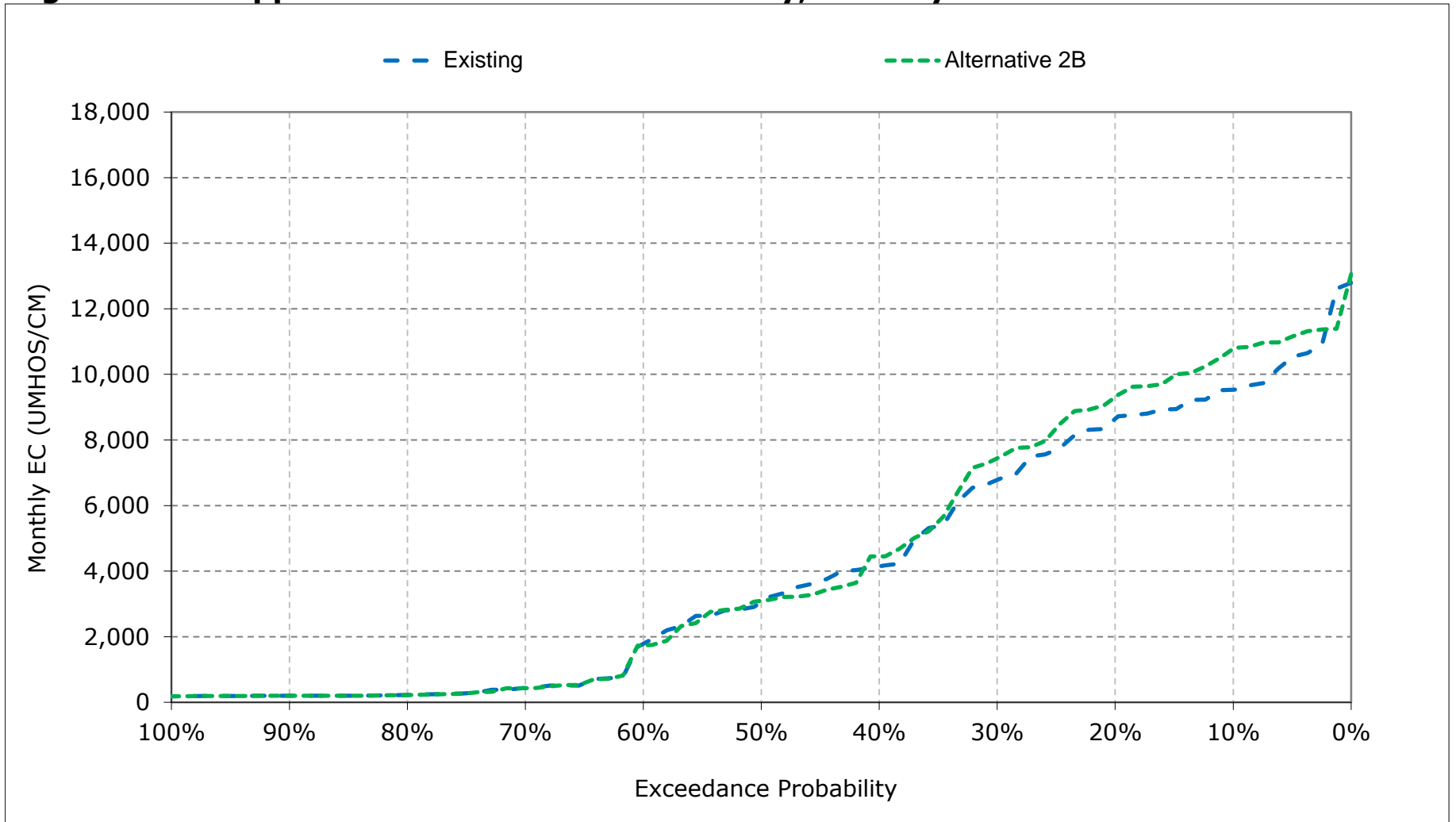
**Figure 8-6. Chipps Island North Channel Salinity, Critical Year Average EC**



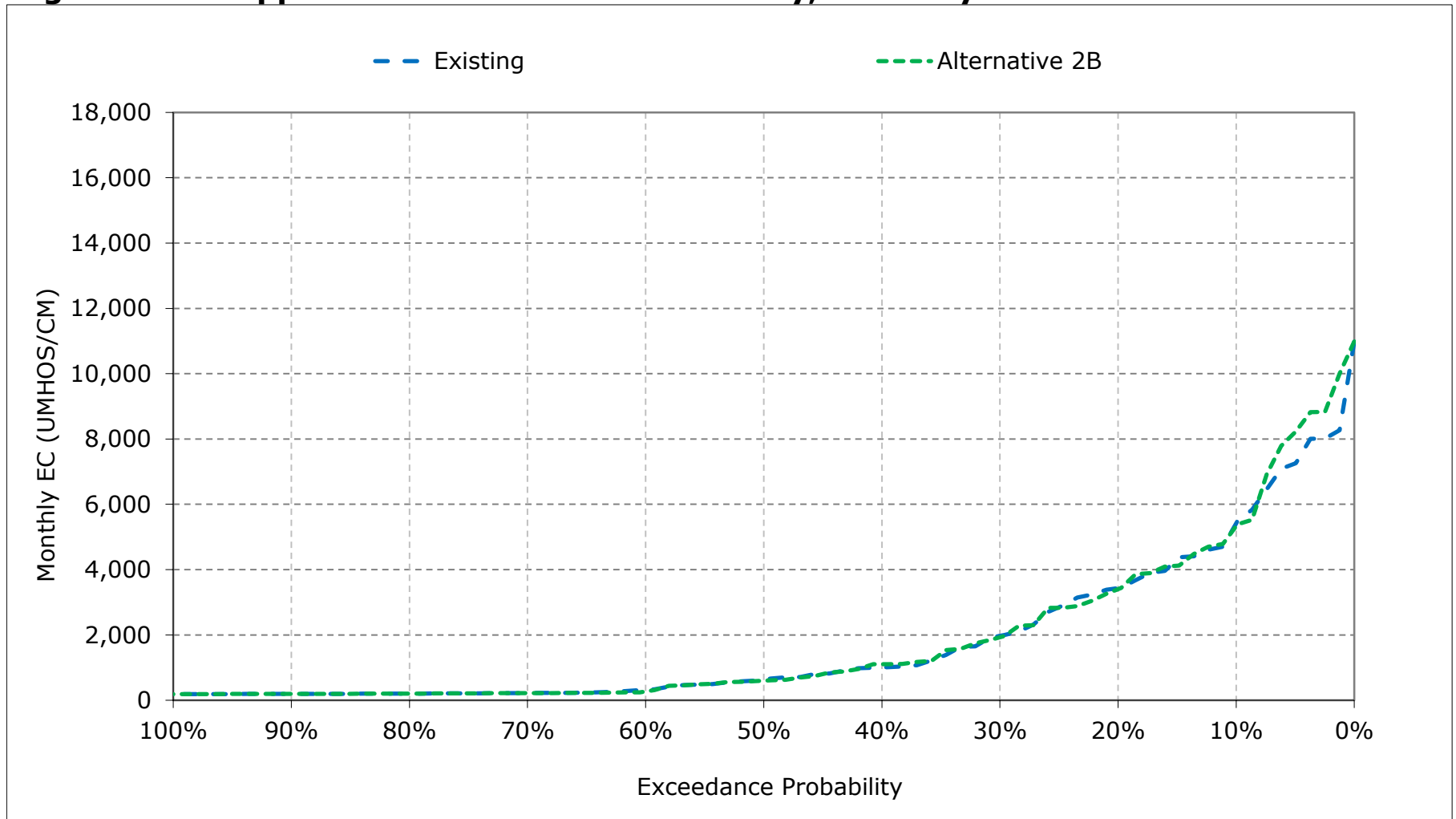
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

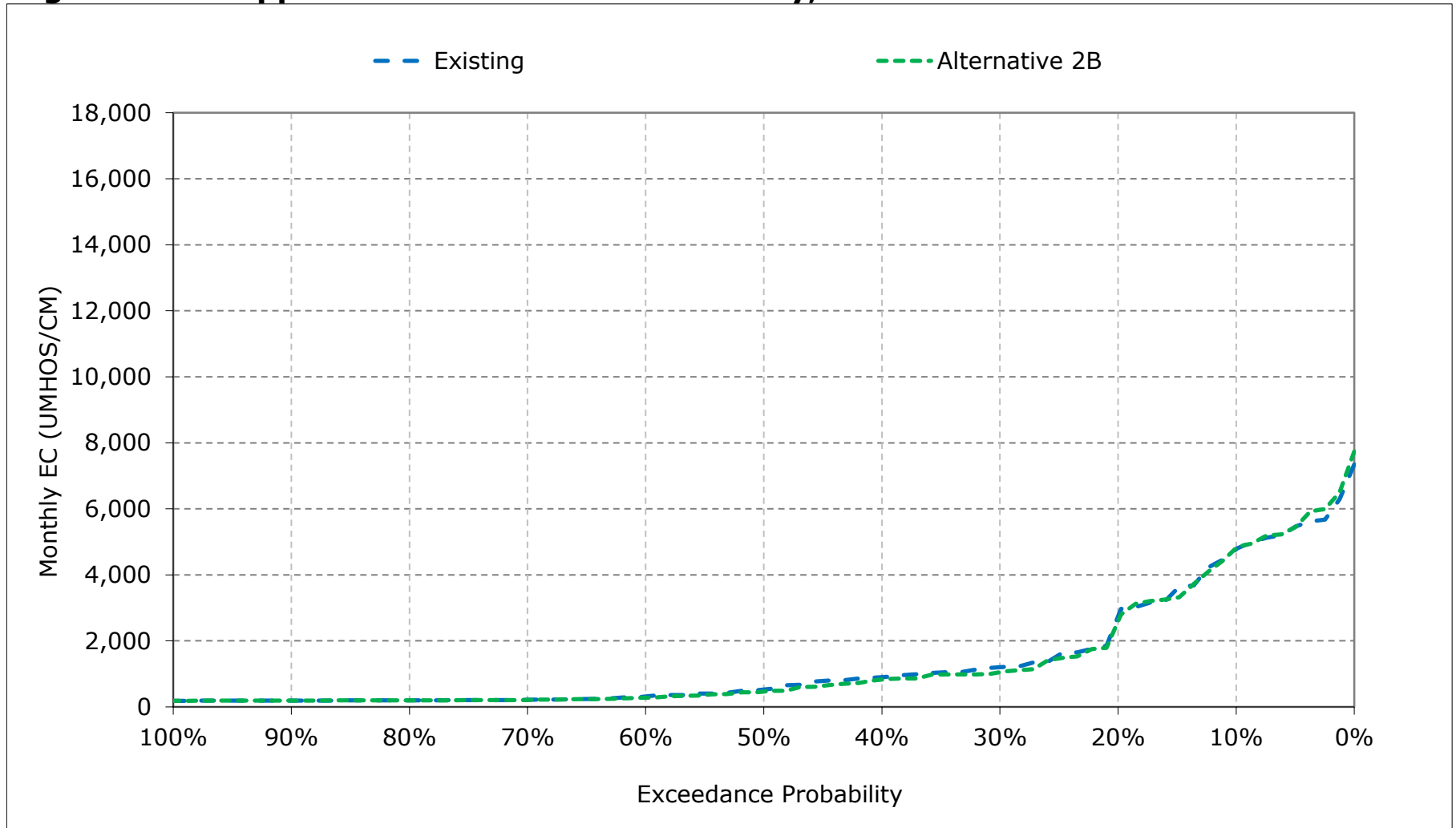
**Figure 8-7. Chipps Island North Channel Salinity, January EC**



**Figure 8-8. Chipps Island North Channel Salinity, February EC**

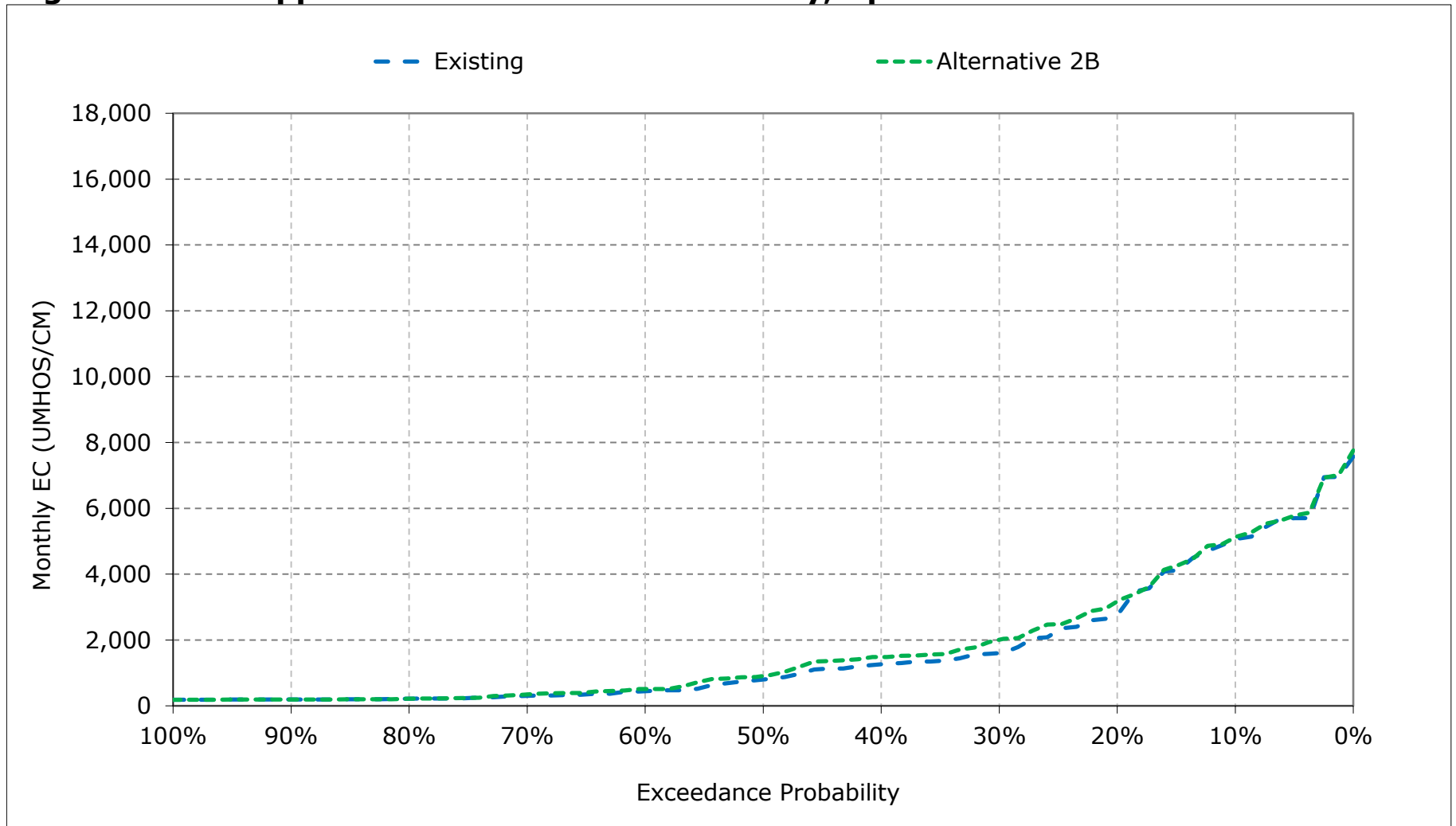


**Figure 8-9. Chipps Island North Channel Salinity, March EC**

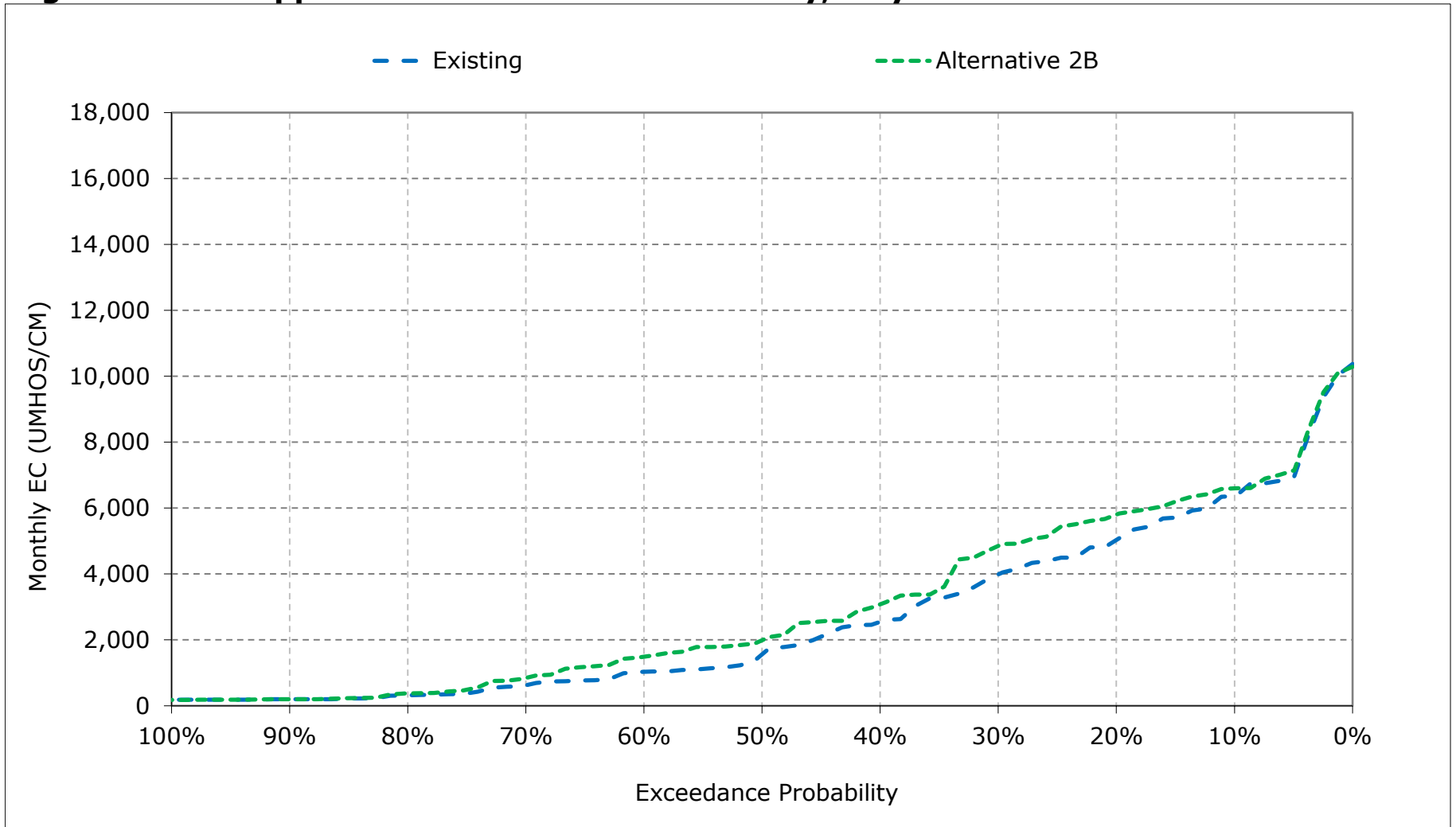




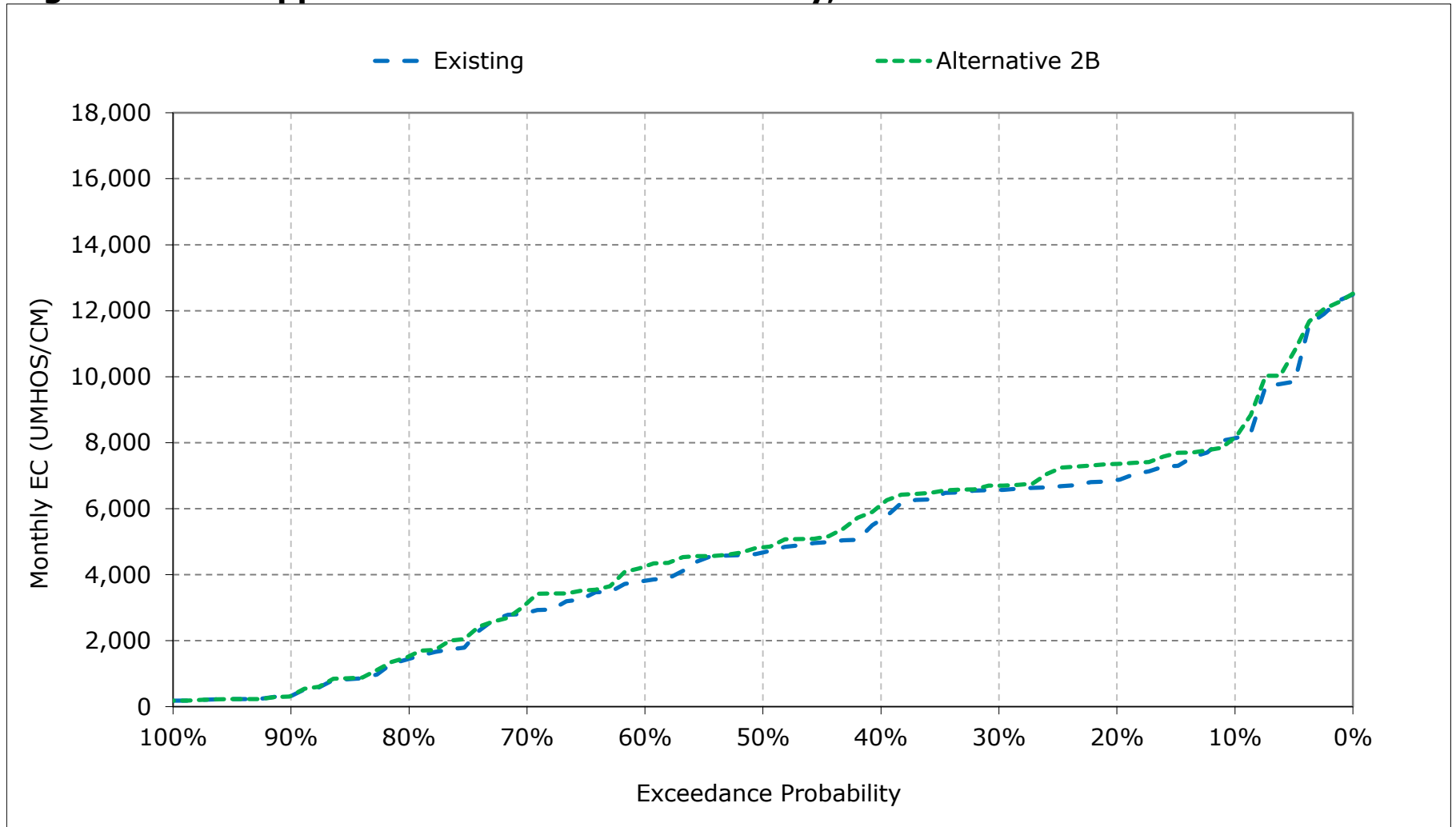
**Figure 8-10. Chipps Island North Channel Salinity, April EC**



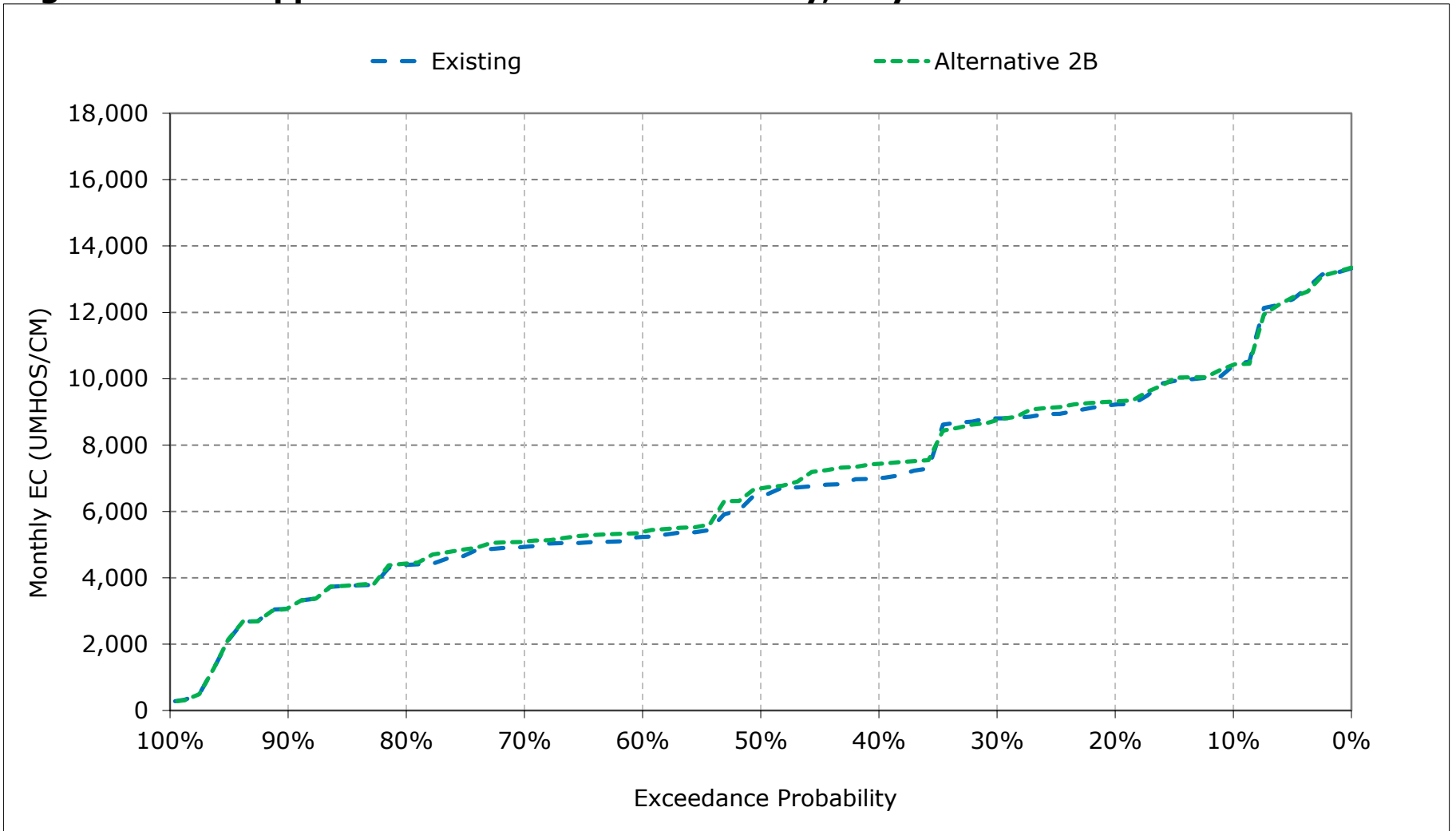
**Figure 8-11. Chipps Island North Channel Salinity, May EC**



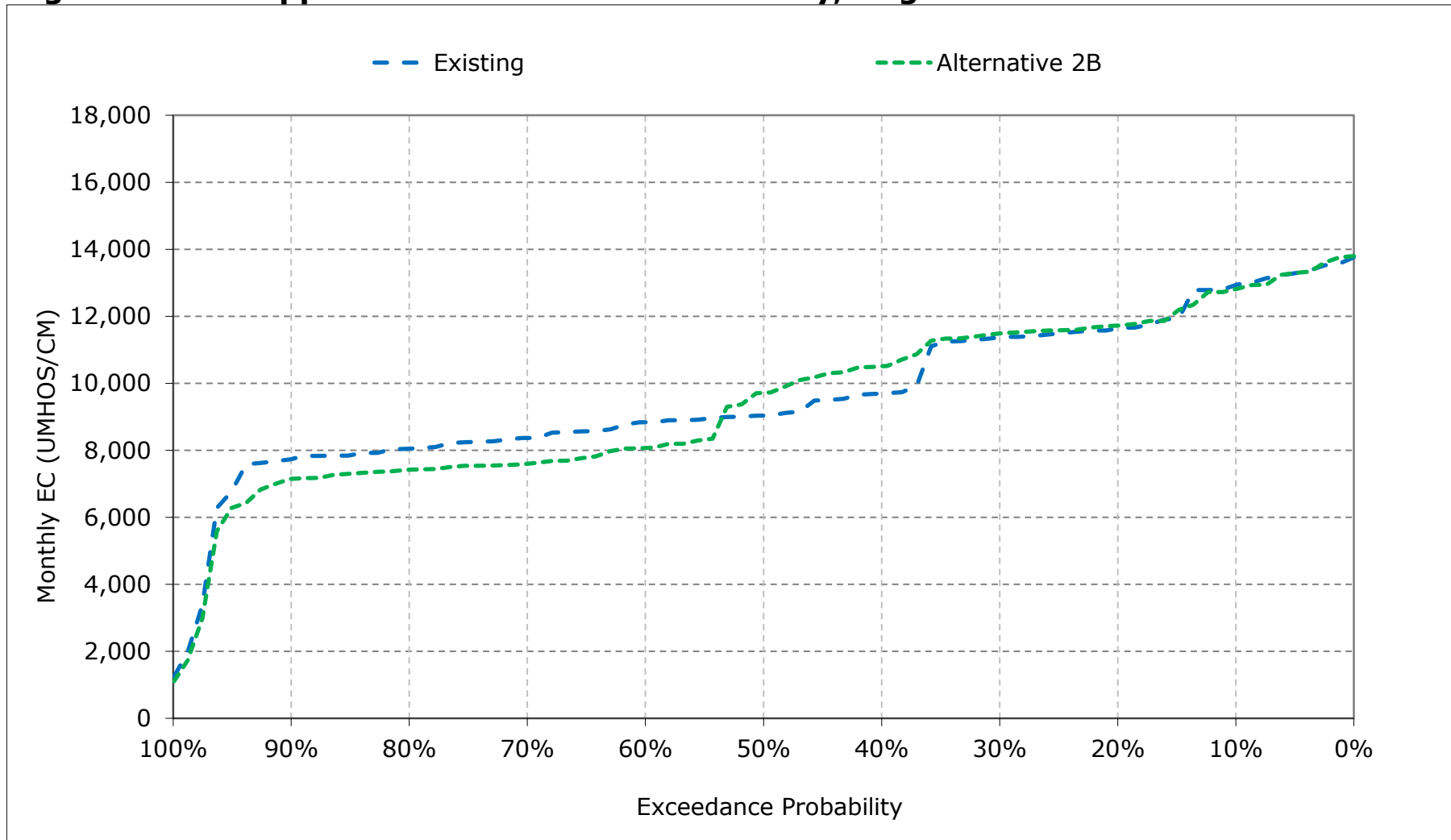
**Figure 8-12. Chipps Island North Channel Salinity, June EC**



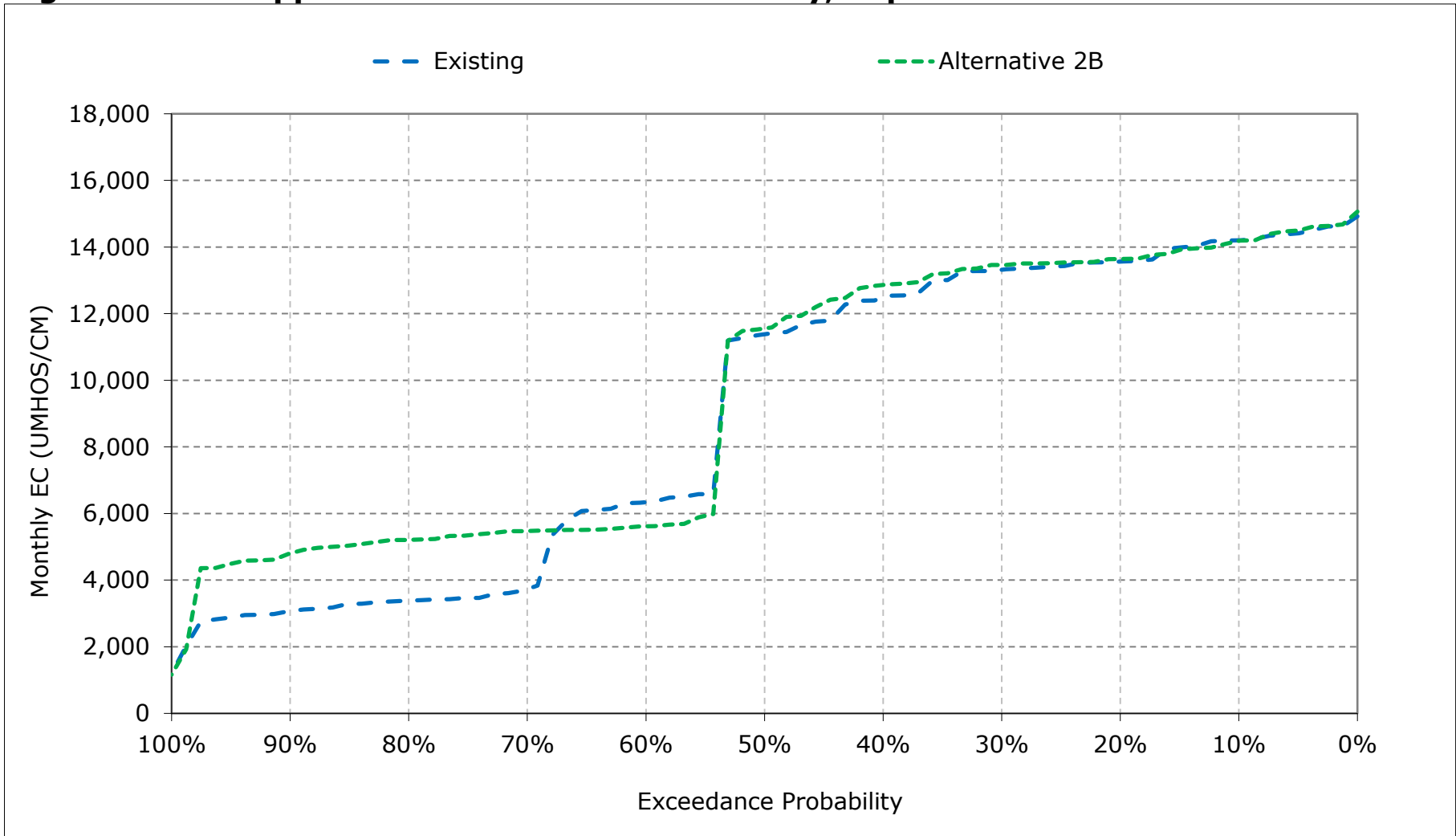
**Figure 8-13. Chipps Island North Channel Salinity, July EC**



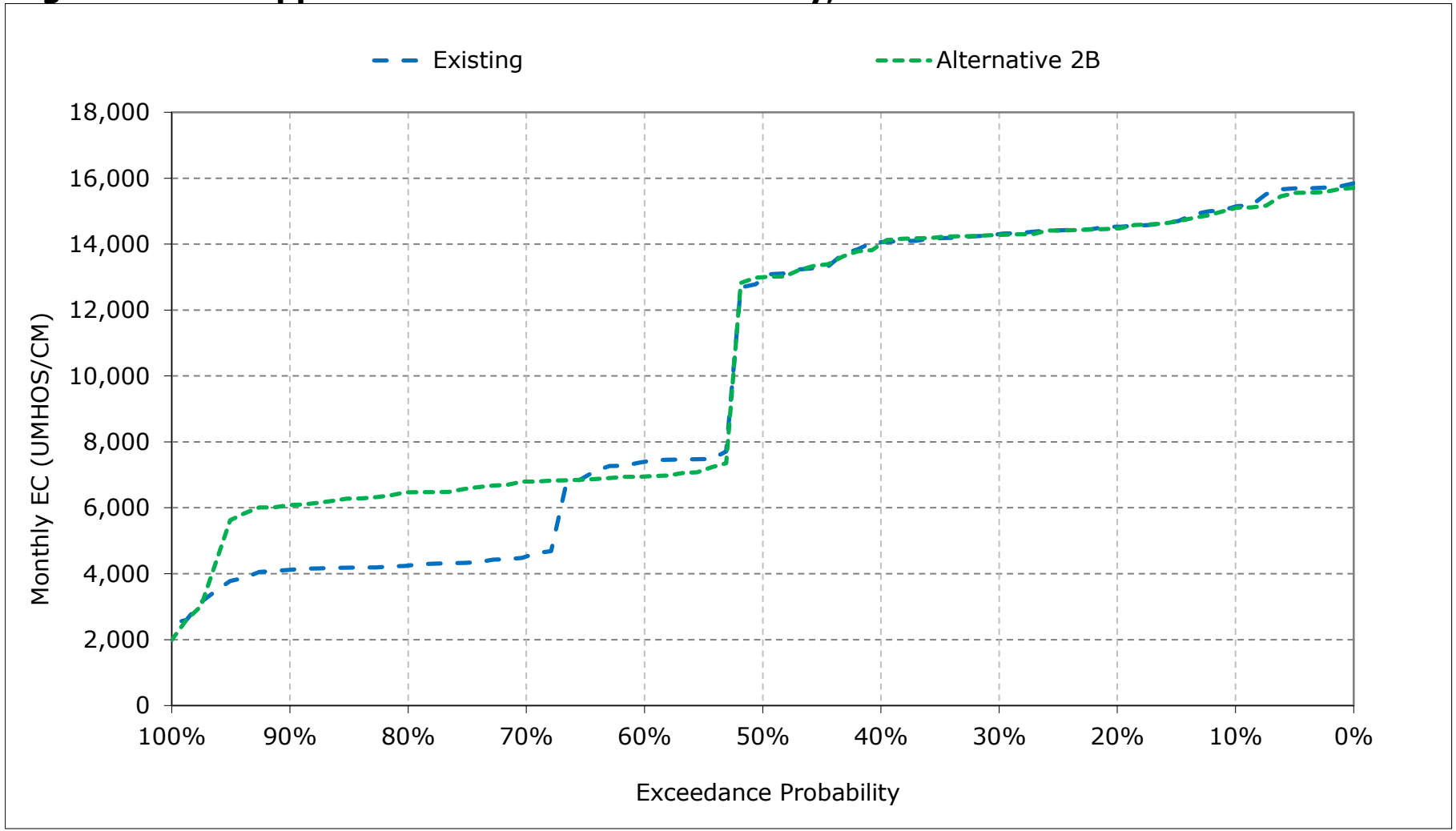
**Figure 8-14. Chipps Island North Channel Salinity, August EC**



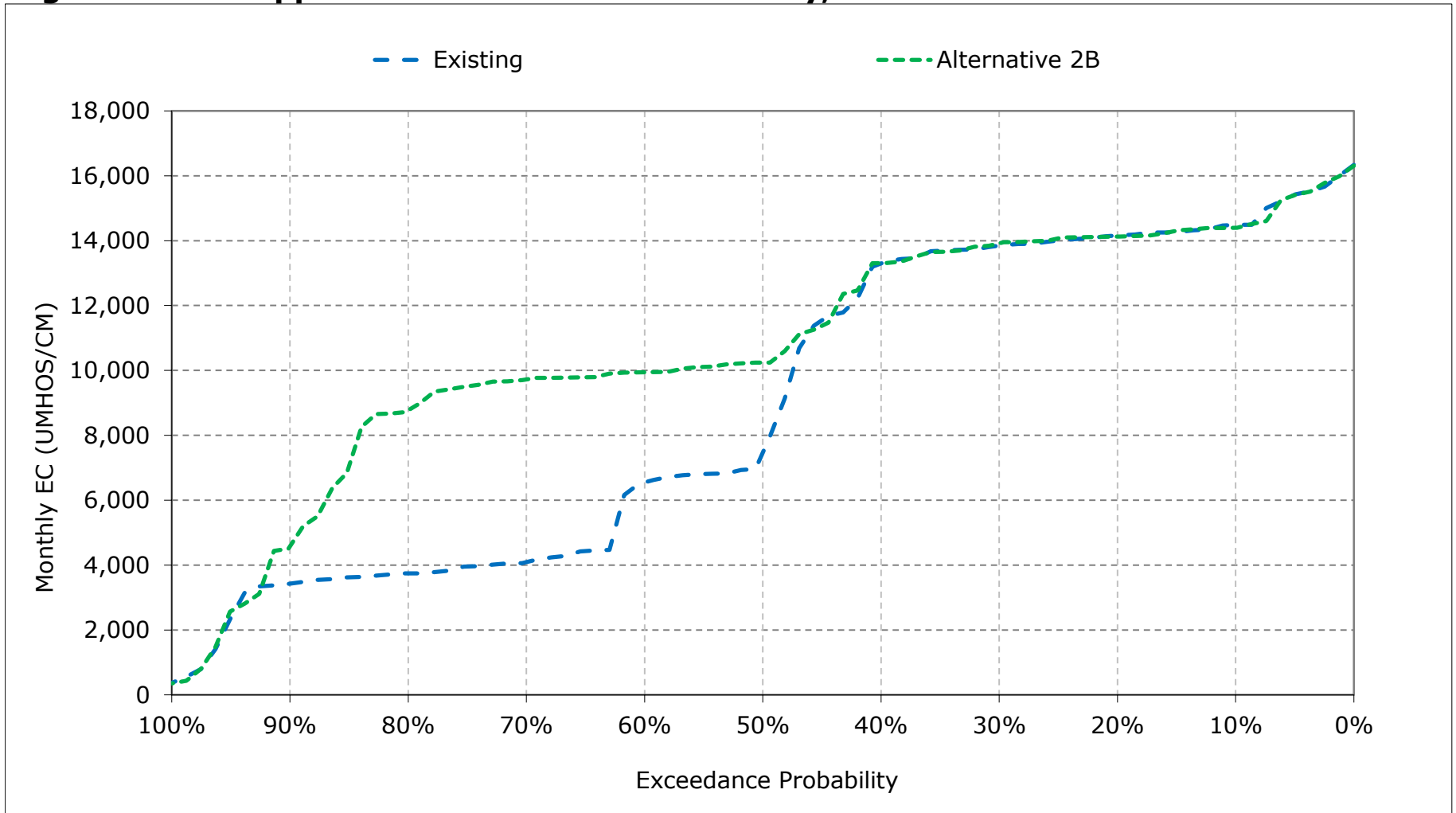
**Figure 8-15. Chipps Island North Channel Salinity, September EC**



**Figure 8-16. Chipps Island North Channel Salinity, October EC**

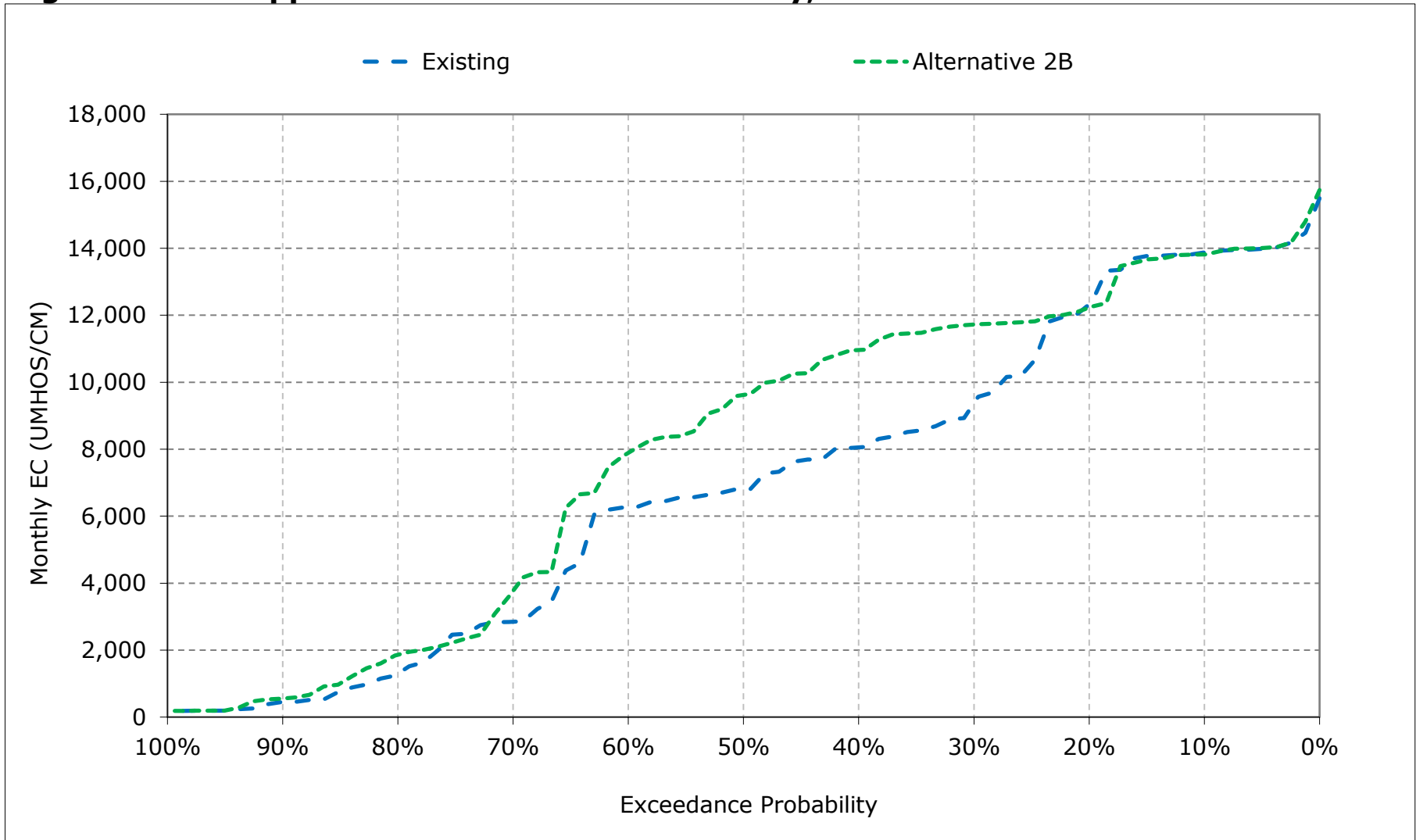


**Figure 8-17. Chipps Island North Channel Salinity, November EC**





**Figure 8-18. Chipps Island North Channel Salinity, December EC**



**Table 9-1. Chipps Island South Channel Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	13,978	13,281	12,537	8,210	4,174	3,630	3,937	5,048	6,637	8,894	11,521	12,903
20%	13,320	12,805	10,920	7,295	2,547	2,037	1,966	3,919	5,526	7,692	10,241	12,247
30%	13,059	12,586	7,941	5,657	1,420	798	1,039	2,897	5,203	7,284	9,931	12,001
40%	12,865	11,999	6,732	3,264	795	605	808	1,734	4,277	5,564	8,261	11,115
50%	11,653	6,265	5,558	2,491	589	363	557	980	3,568	5,114	7,589	9,980
60%	6,184	5,367	5,069	1,335	295	244	307	646	2,720	4,060	7,427	5,219
70%	3,557	3,197	2,145	339	219	203	239	387	2,007	3,715	6,995	3,003
80%	3,334	2,863	1,040	216	201	196	205	238	897	3,268	6,690	2,663
90%	3,161	2,617	355	196	192	191	192	193	232	2,248	6,353	2,473
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	8,840	7,881	5,965	3,432	1,483	1,073	1,242	2,017	3,701	5,422	8,251	7,901
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	6,948	5,172	2,013	631	240	236	282	448	1,259	2,703	6,196	2,473
Above Normal (15%)	9,230	7,827	5,961	2,122	564	251	336	595	2,502	3,646	6,818	5,100
Below Normal (17%)	9,261	8,675	7,599	3,803	972	781	836	1,470	3,527	5,266	7,910	10,521
Dry (22%)	9,348	9,098	7,430	5,383	2,376	1,474	1,734	2,962	5,139	7,459	10,075	12,122
Critical (15%)	11,294	11,051	10,428	7,453	4,354	3,446	3,964	6,062	8,235	10,217	11,797	13,075

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	13,903	13,177	12,461	9,333	4,212	3,663	3,905	5,239	6,721	8,850	11,334	12,801
20%	13,286	12,832	10,862	8,008	2,516	1,909	2,209	4,473	5,936	7,826	10,283	12,295
30%	13,044	12,606	10,369	6,196	1,579	728	1,309	3,592	5,302	7,212	10,085	12,133
40%	12,784	12,004	9,553	3,561	779	536	949	2,091	4,750	6,031	9,232	11,576
50%	11,666	9,019	8,303	2,410	622	333	599	1,277	3,653	5,412	8,366	10,186
60%	5,768	8,687	6,612	1,245	258	233	333	945	3,077	4,161	6,692	4,490
70%	5,529	8,427	2,822	337	217	205	256	493	2,202	3,887	6,216	4,336
80%	5,256	7,487	1,597	215	201	195	201	254	940	3,341	6,020	4,132
90%	4,871	3,644	615	196	193	192	190	189	234	2,255	5,658	3,788
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	9,307	9,557	6,992	3,648	1,545	1,061	1,311	2,276	3,862	5,539	8,100	8,297
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	7,553	7,367	2,674	632	233	230	318	588	1,424	2,777	5,461	3,855
Above Normal (15%)	9,830	9,489	7,364	2,223	473	237	385	834	2,578	3,732	6,237	4,226
Below Normal (17%)	9,776	10,298	8,862	3,852	932	727	943	1,871	3,657	5,672	8,812	10,905
Dry (22%)	9,797	10,554	8,685	5,940	2,577	1,433	1,838	3,371	5,391	7,529	10,182	12,223
Critical (15%)	11,302	12,011	11,255	7,930	4,628	3,516	4,025	6,204	8,373	10,188	11,730	13,062

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-74	-105	-75	<b>1,123</b>	<b>39</b>	<b>33</b>	-32	<b>191</b>	<b>84</b>	-44	-188	-101
20%	-34	<b>27</b>	-58	<b>713</b>	-31	-128	<b>243</b>	<b>554</b>	<b>410</b>	<b>133</b>	<b>42</b>	<b>49</b>
30%	-16	<b>20</b>	<b>2,428</b>	<b>539</b>	<b>159</b>	-71	<b>270</b>	<b>695</b>	<b>99</b>	-72	<b>153</b>	<b>132</b>
40%	-81	<b>5</b>	<b>2,821</b>	<b>297</b>	-15	-69	<b>141</b>	<b>357</b>	<b>473</b>	<b>467</b>	<b>971</b>	<b>461</b>
50%	<b>12</b>	<b>2,754</b>	<b>2,745</b>	-81	<b>33</b>	-30	<b>42</b>	<b>297</b>	<b>85</b>	<b>298</b>	<b>778</b>	<b>206</b>
60%	-416	<b>3,321</b>	<b>1,543</b>	-90	-37	-12	<b>26</b>	<b>299</b>	<b>357</b>	<b>101</b>	-735	-730
70%	<b>1,972</b>	<b>5,230</b>	<b>677</b>	-2	-2	<b>2</b>	<b>17</b>	<b>106</b>	<b>195</b>	<b>172</b>	-779	<b>1,333</b>
80%	<b>1,921</b>	<b>4,624</b>	<b>556</b>	-1	0	-1	-4	<b>16</b>	<b>44</b>	<b>72</b>	-670	<b>1,468</b>
90%	<b>1,710</b>	<b>1,027</b>	<b>260</b>	0	<b>1</b>	<b>0</b>	-2	-4	<b>2</b>	<b>6</b>	-695	<b>1,315</b>
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	<b>467</b>	<b>1,677</b>	<b>1,027</b>	<b>215</b>	<b>62</b>	-12	<b>69</b>	<b>258</b>	<b>161</b>	<b>117</b>	-151	<b>396</b>
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	<b>605</b>	<b>2,196</b>	<b>660</b>	<b>1</b>	-7	-6	<b>36</b>	<b>140</b>	<b>164</b>	<b>74</b>	-735	<b>1,382</b>
Above Normal (15%)	<b>600</b>	<b>1,663</b>	<b>1,402</b>	<b>101</b>	-91	-14	<b>49</b>	<b>239</b>	<b>75</b>	<b>85</b>	-581	-874
Below Normal (17%)	<b>515</b>	<b>1,623</b>	<b>1,263</b>	<b>49</b>	-39	-53	<b>107</b>	<b>400</b>	<b>130</b>	<b>407</b>	<b>902</b>	<b>384</b>
Dry (22%)	<b>449</b>	<b>1,456</b>	<b>1,256</b>	<b>557</b>	<b>201</b>	-41	<b>104</b>	<b>409</b>	<b>252</b>	<b>70</b>	<b>106</b>	<b>101</b>
Critical (15%)	<b>7</b>	<b>960</b>	<b>827</b>	<b>477</b>	<b>274</b>	<b>70</b>	<b>61</b>	<b>141</b>	<b>138</b>	-30	-67	-13

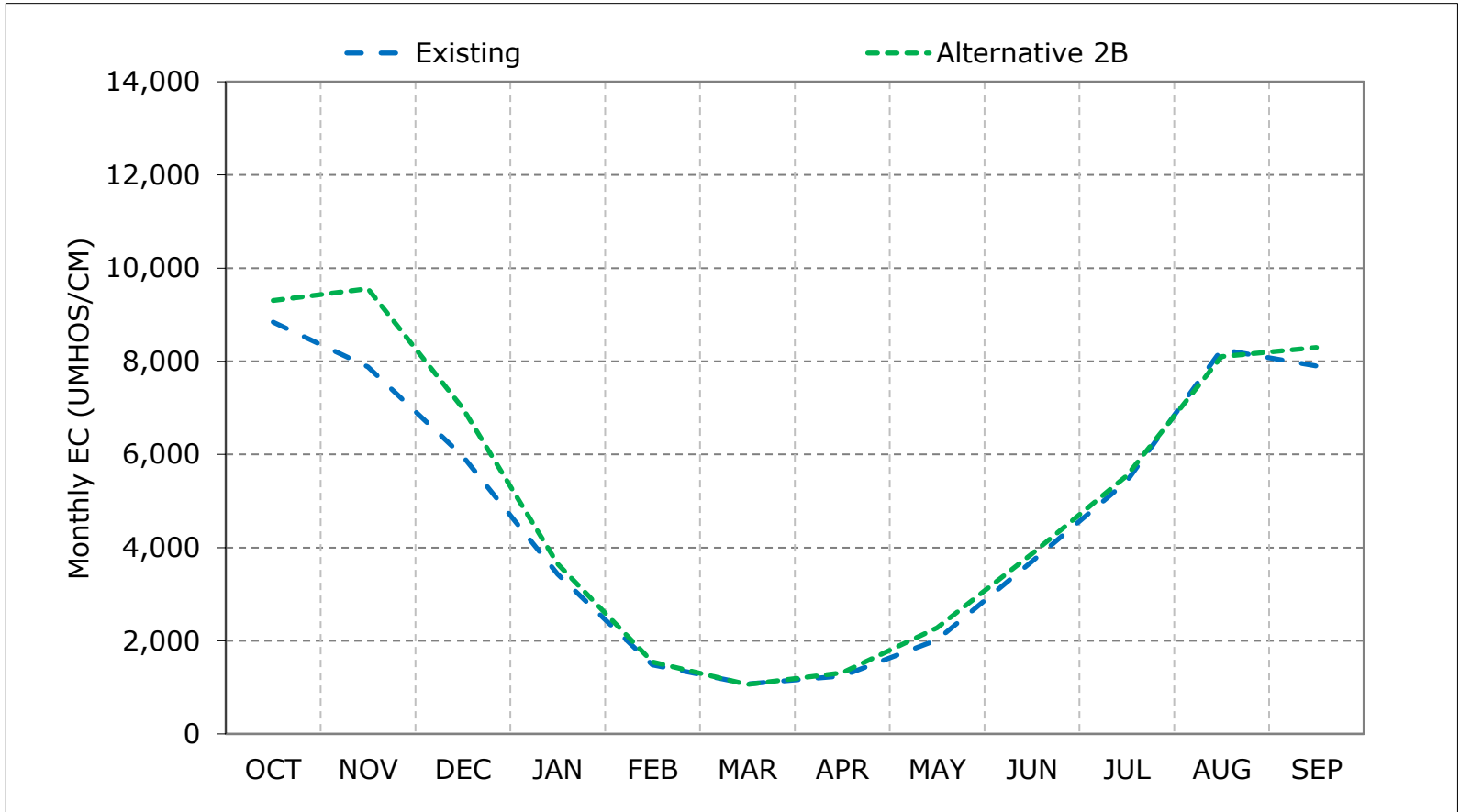
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

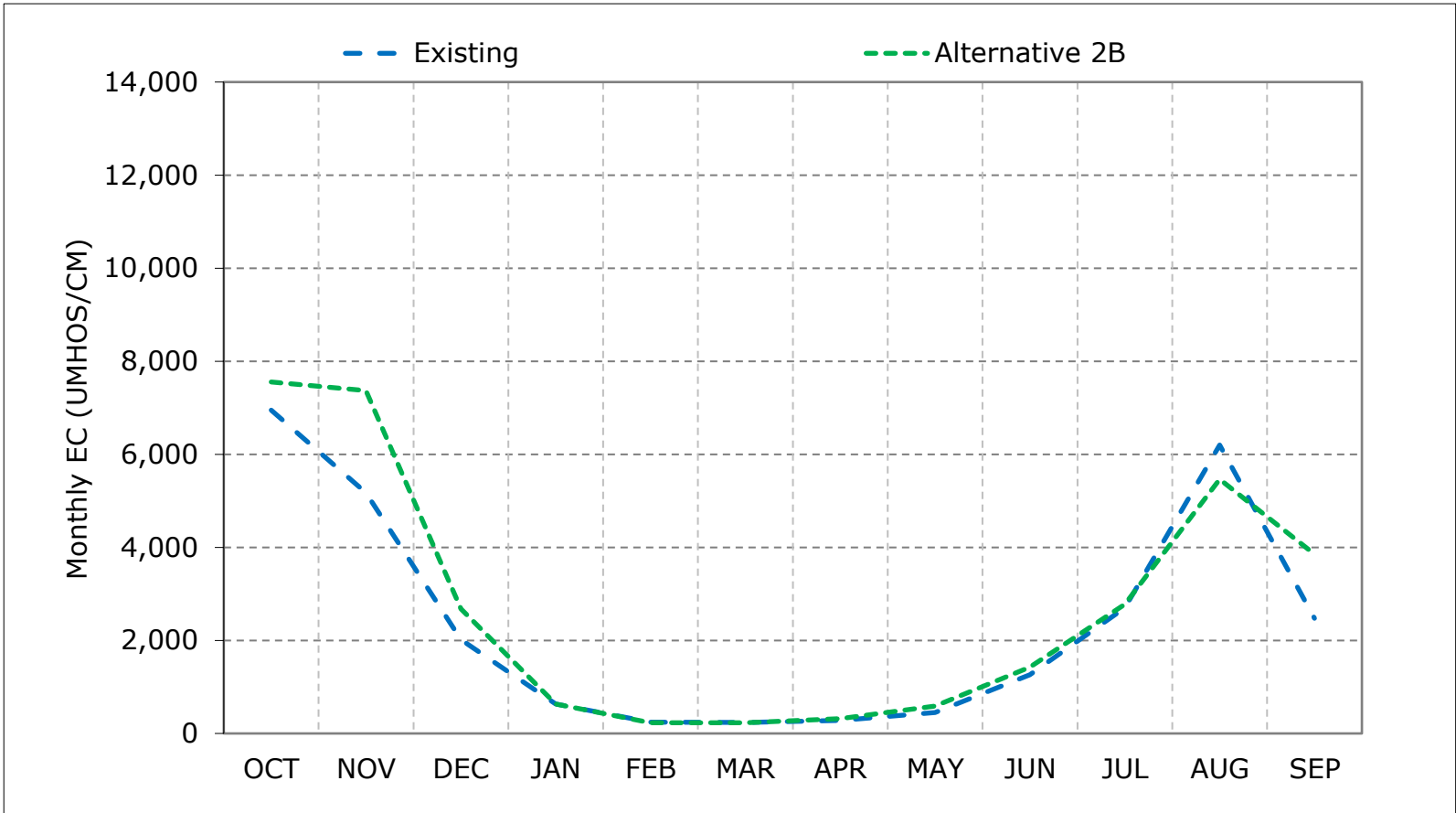
**Figure 9-1. Chipps Island South Channel Salinity, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

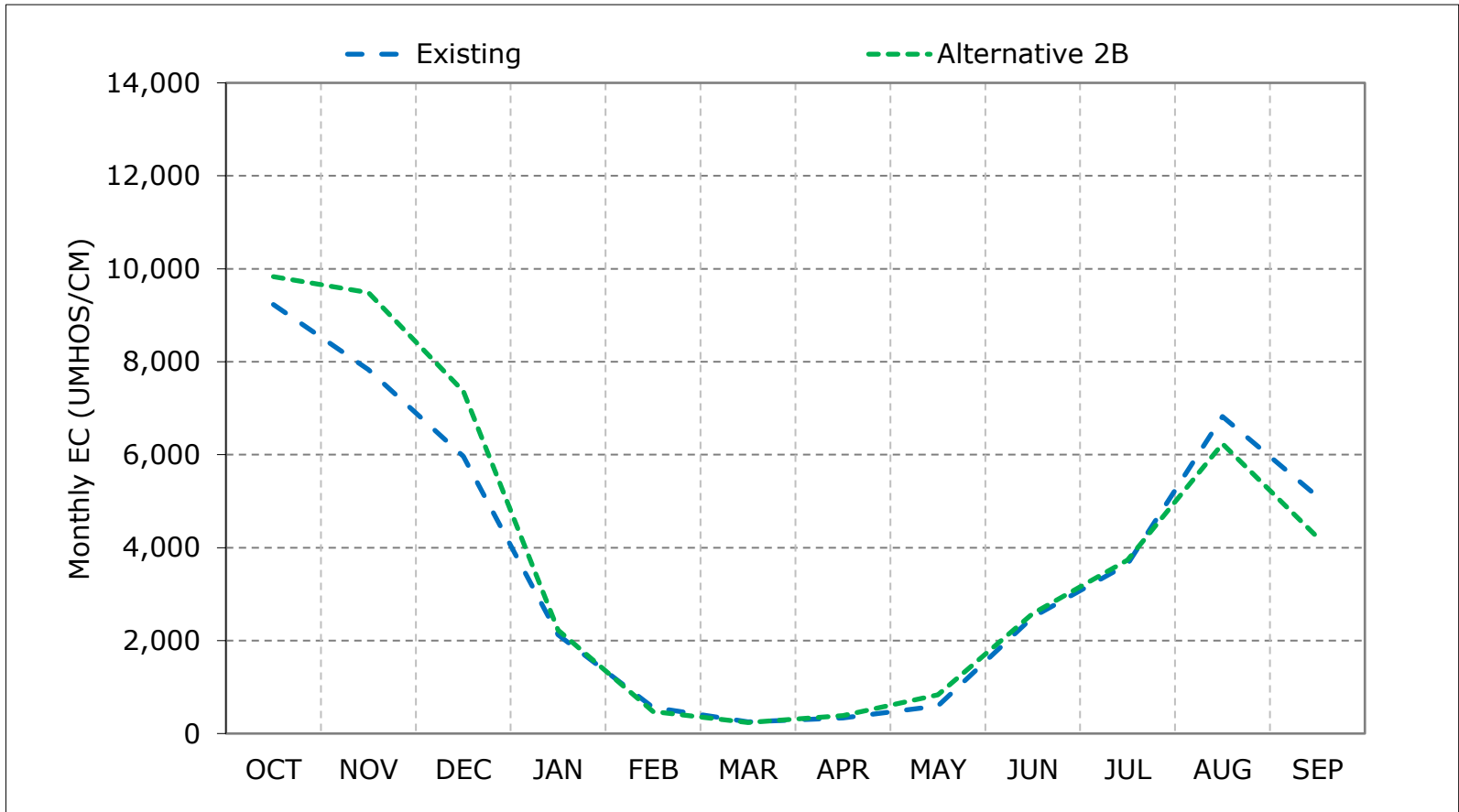
**Figure 9-2. Chipps Island South Channel Salinity, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

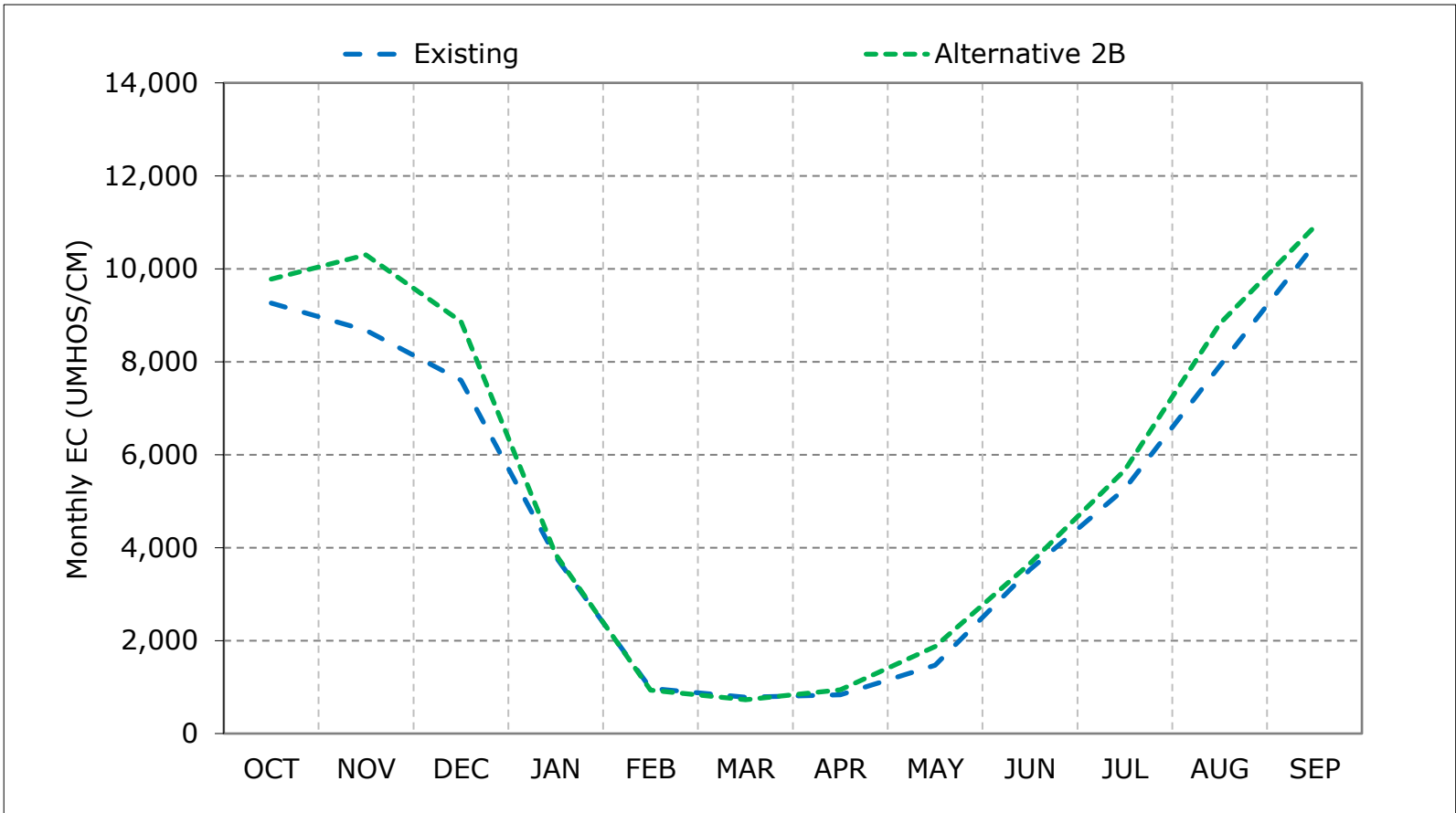
**Figure 9-3. Chipps Island South Channel Salinity, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

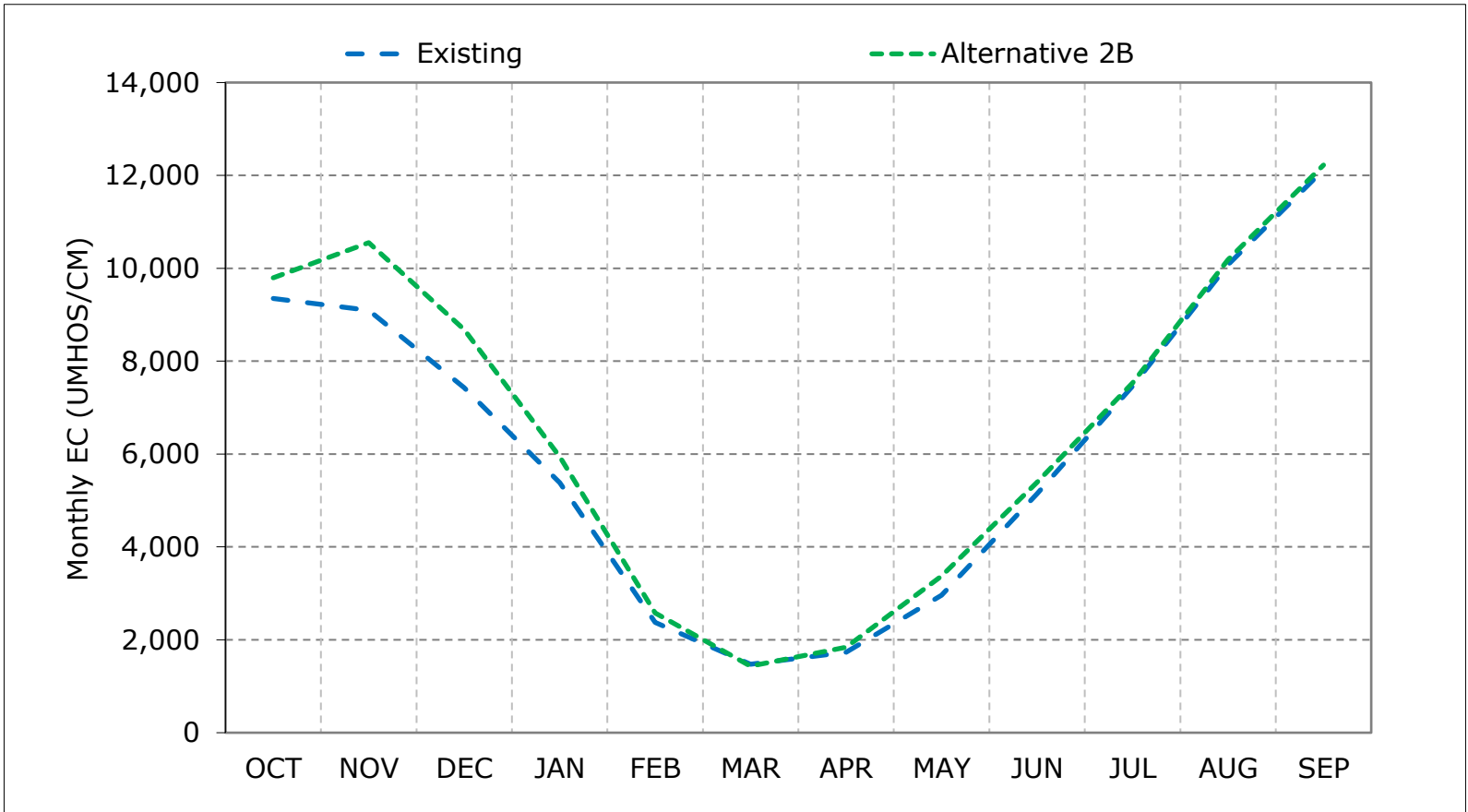
**Figure 9-4. Chipps Island South Channel Salinity, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

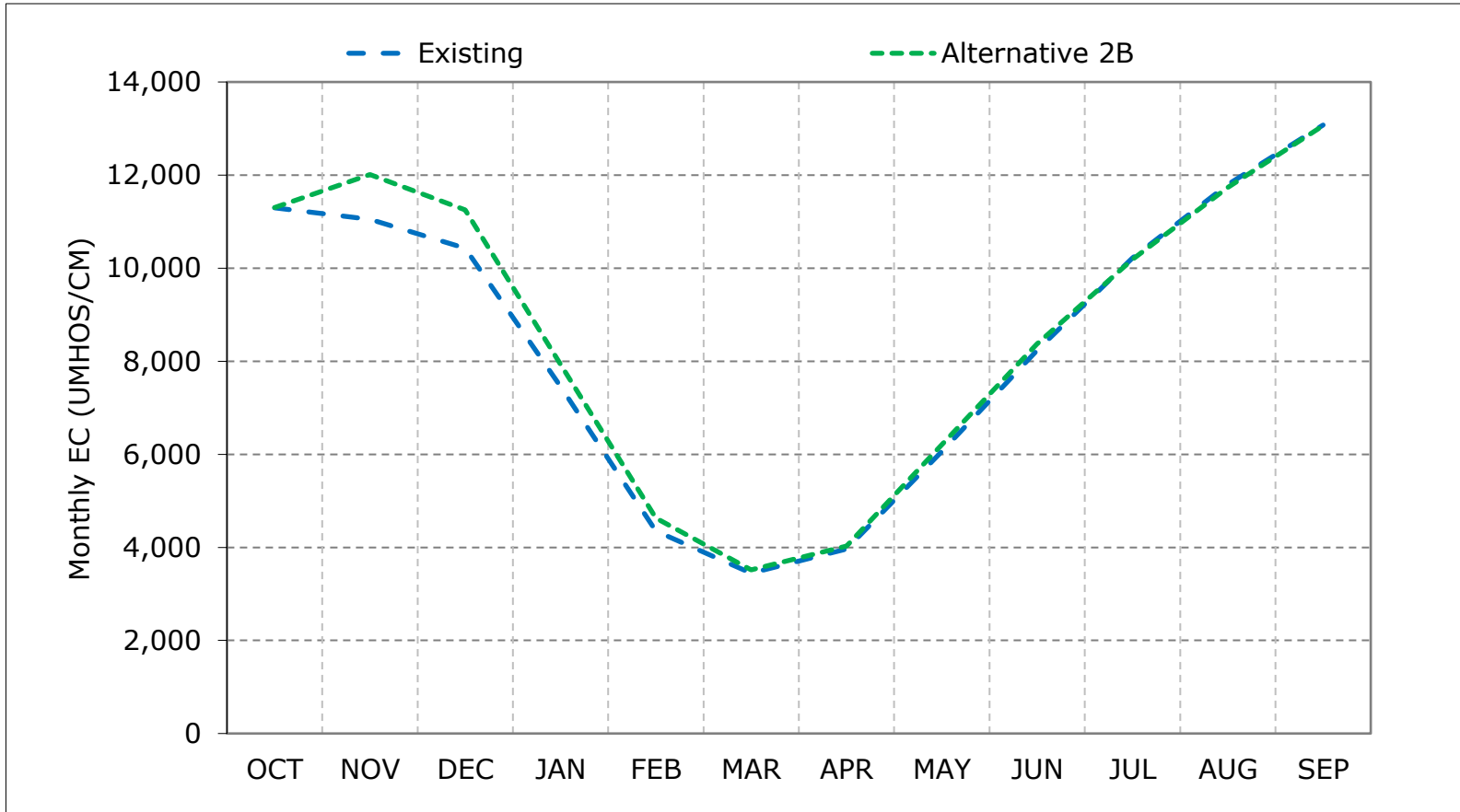
**Figure 9-5. Chipps Island South Channel Salinity, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 9-6. Chipps Island South Channel Salinity, Critical Year Average EC**

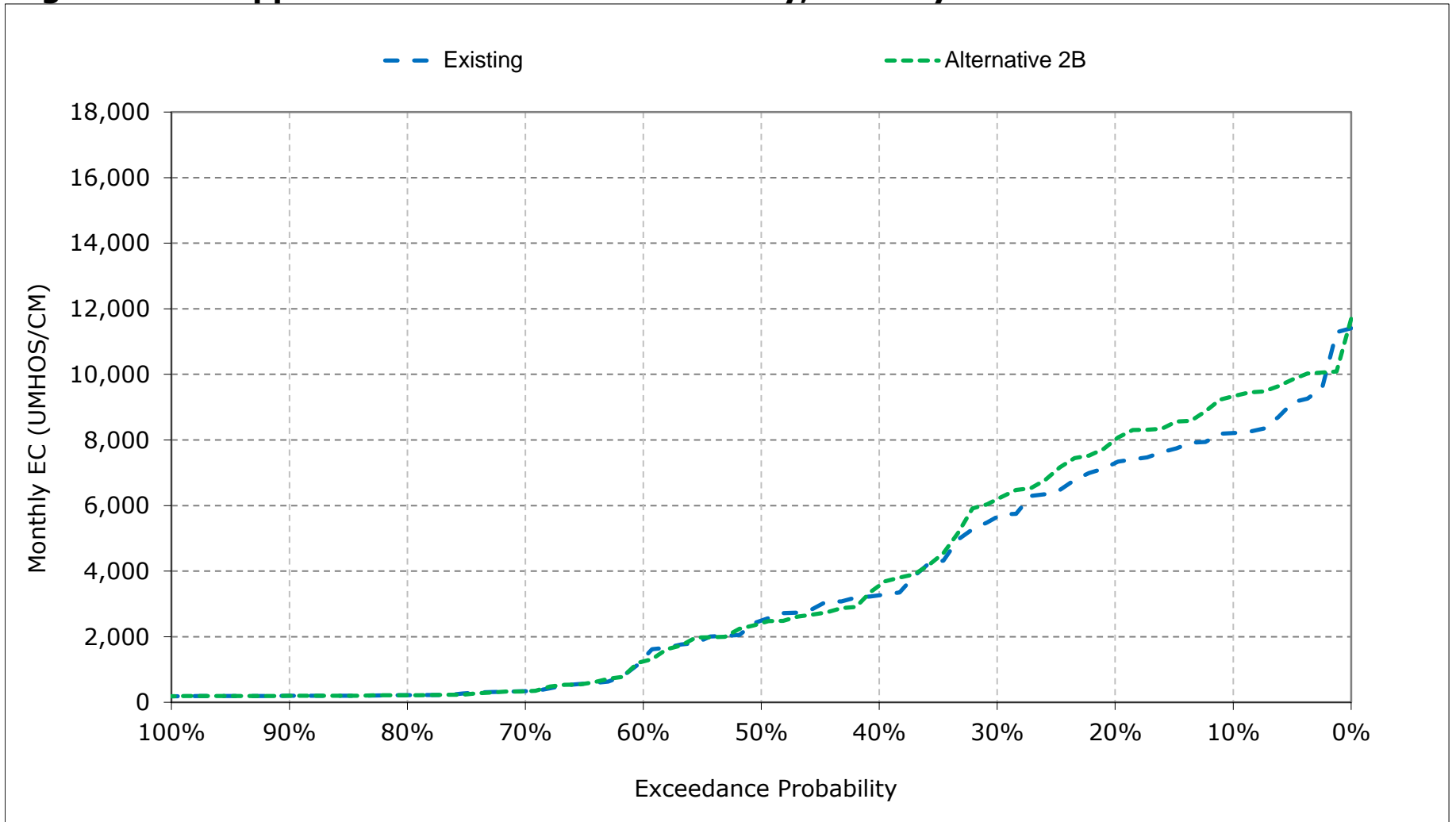


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

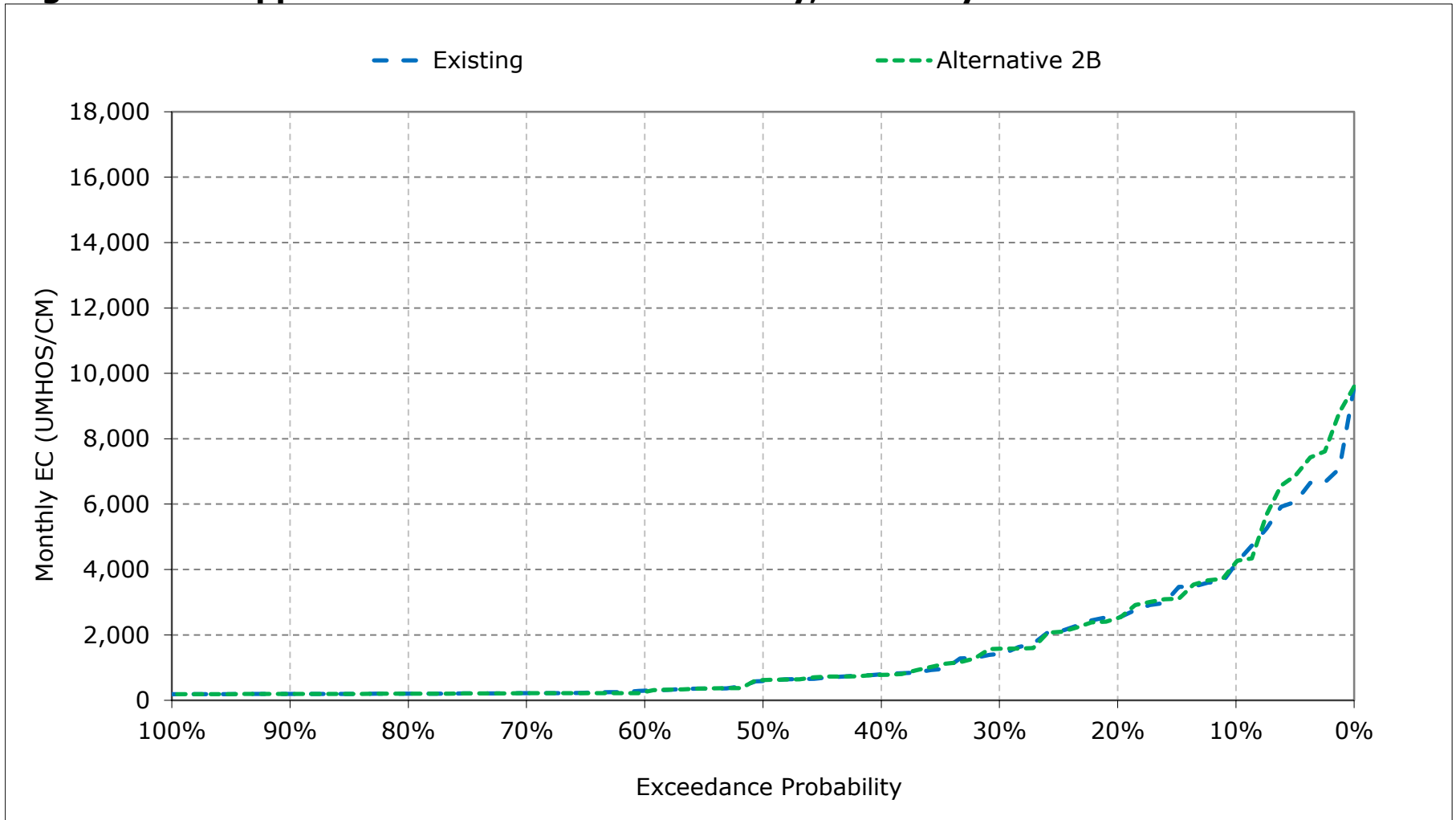
\*These results are displayed with water year - year type sorting.



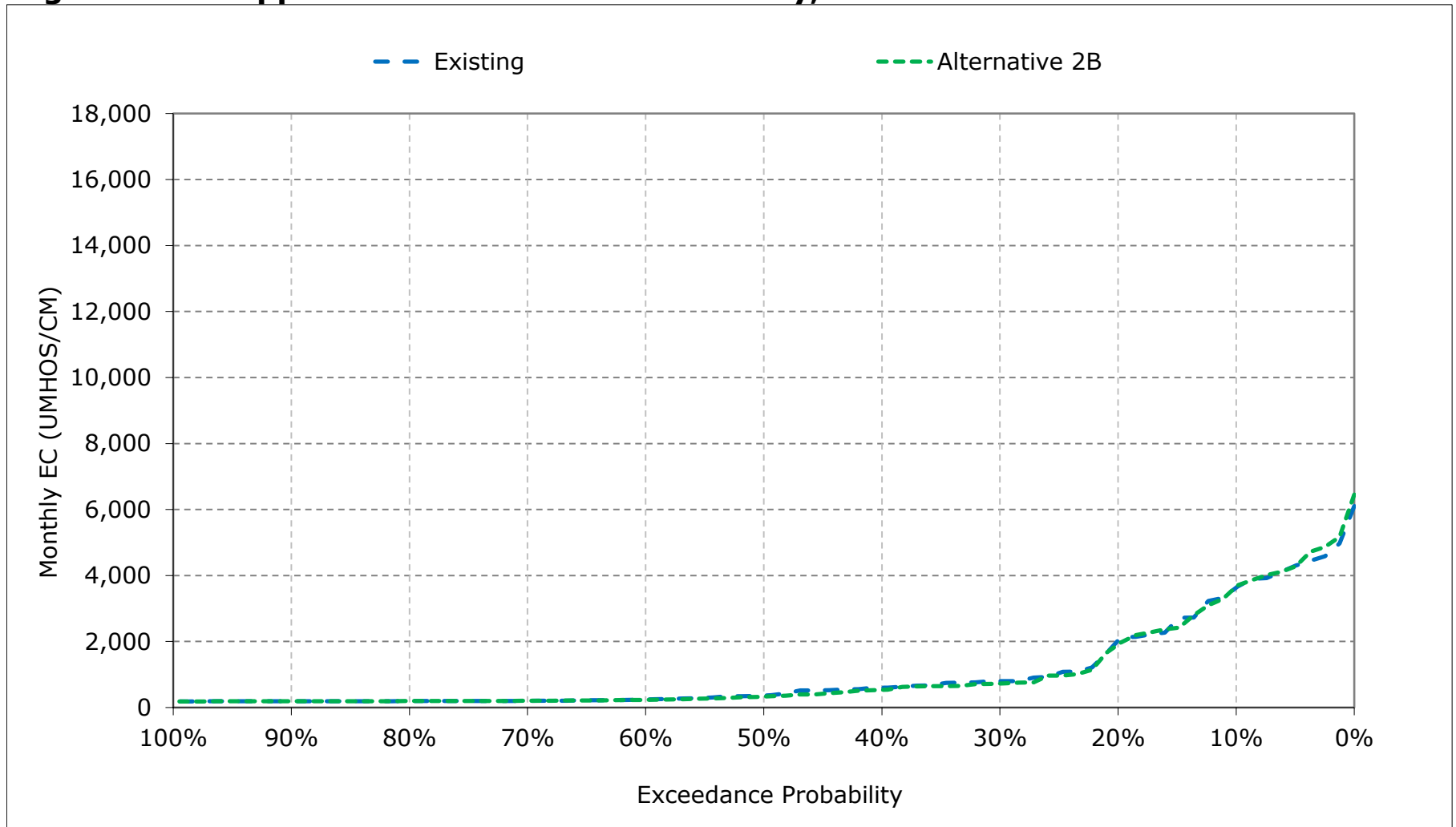
**Figure 9-7. Chipps Island South Channel Salinity, January EC**



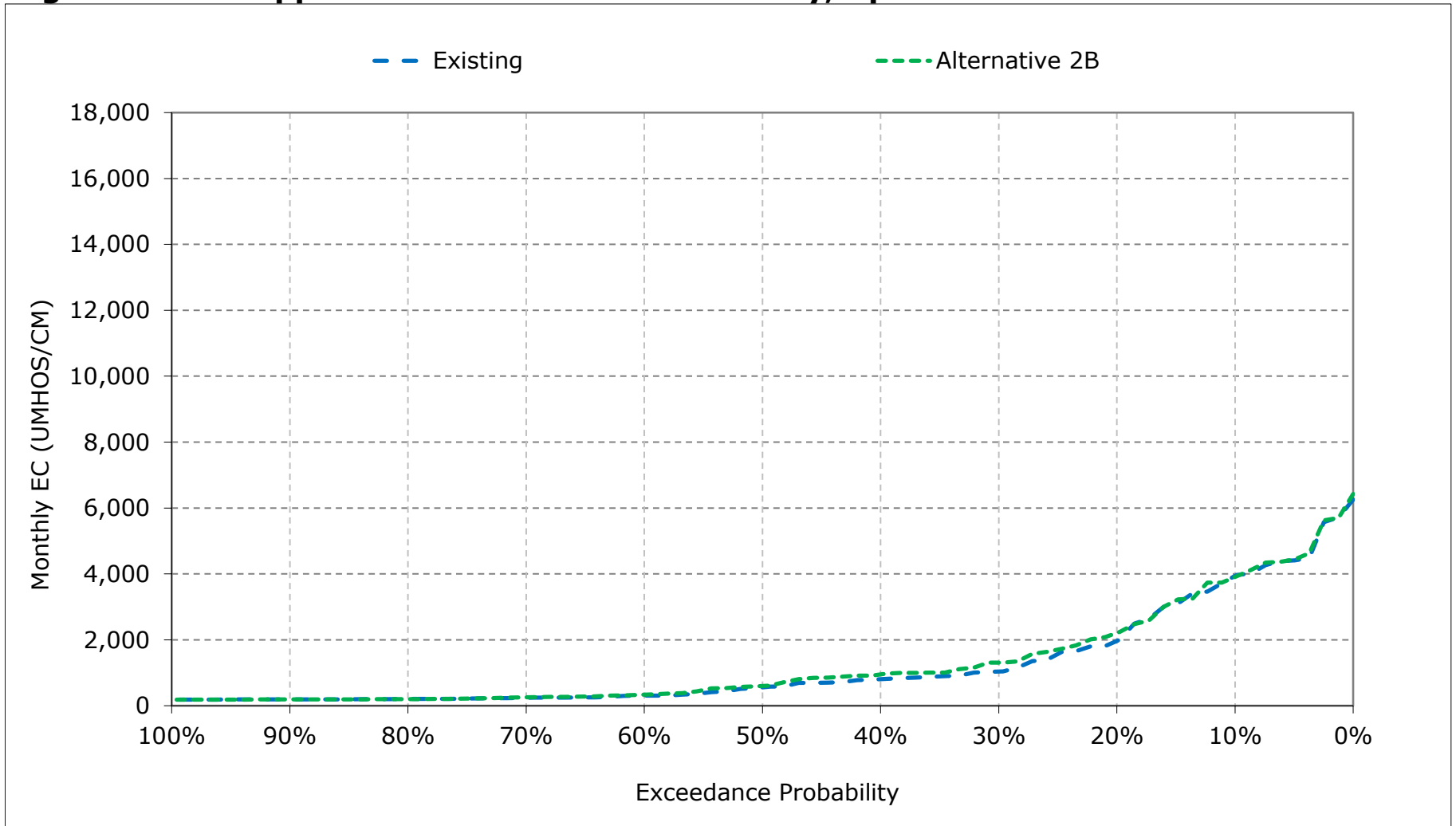
**Figure 9-8. Chipps Island South Channel Salinity, February EC**



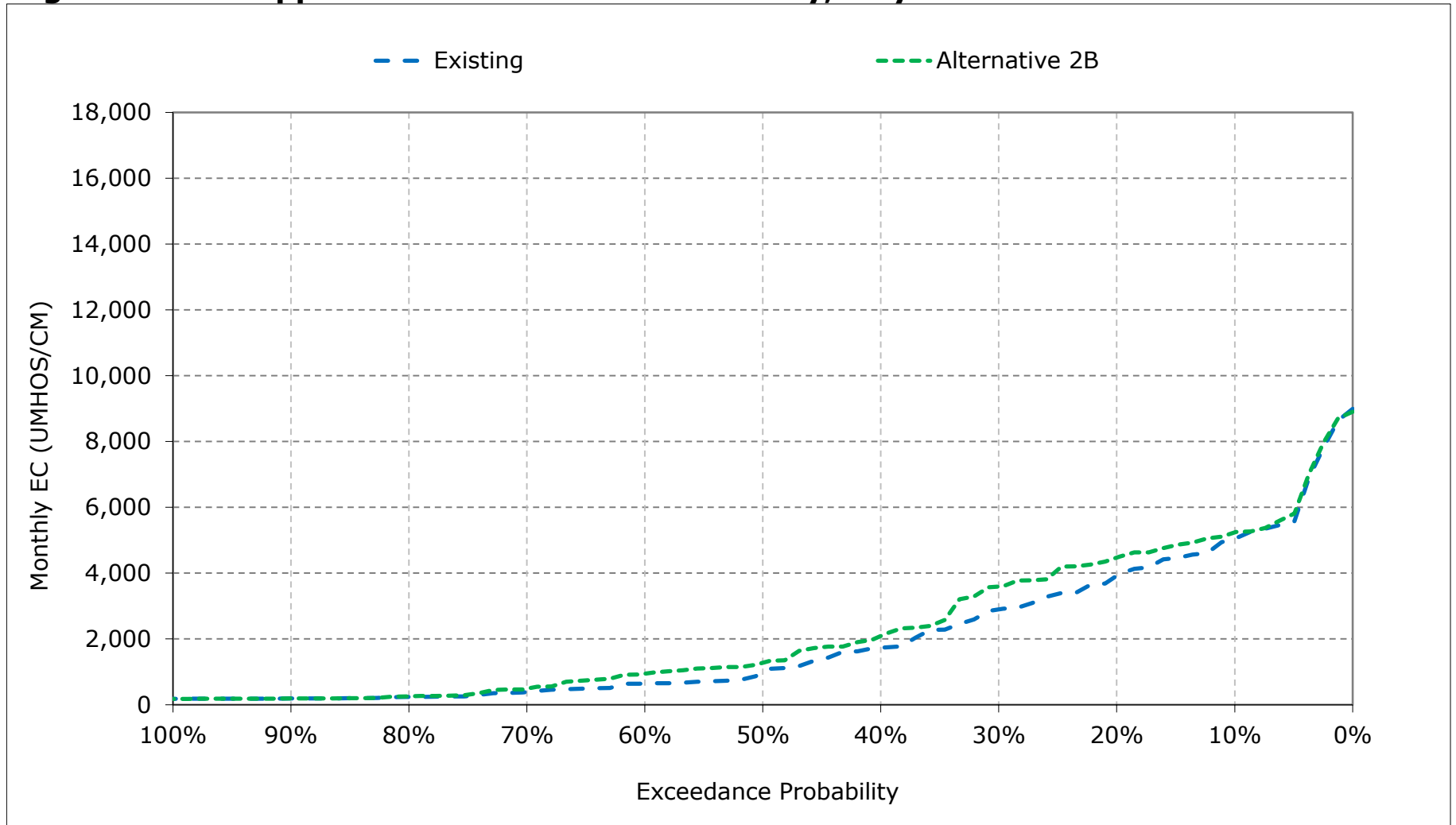
**Figure 9-9. Chipps Island South Channel Salinity, March EC**



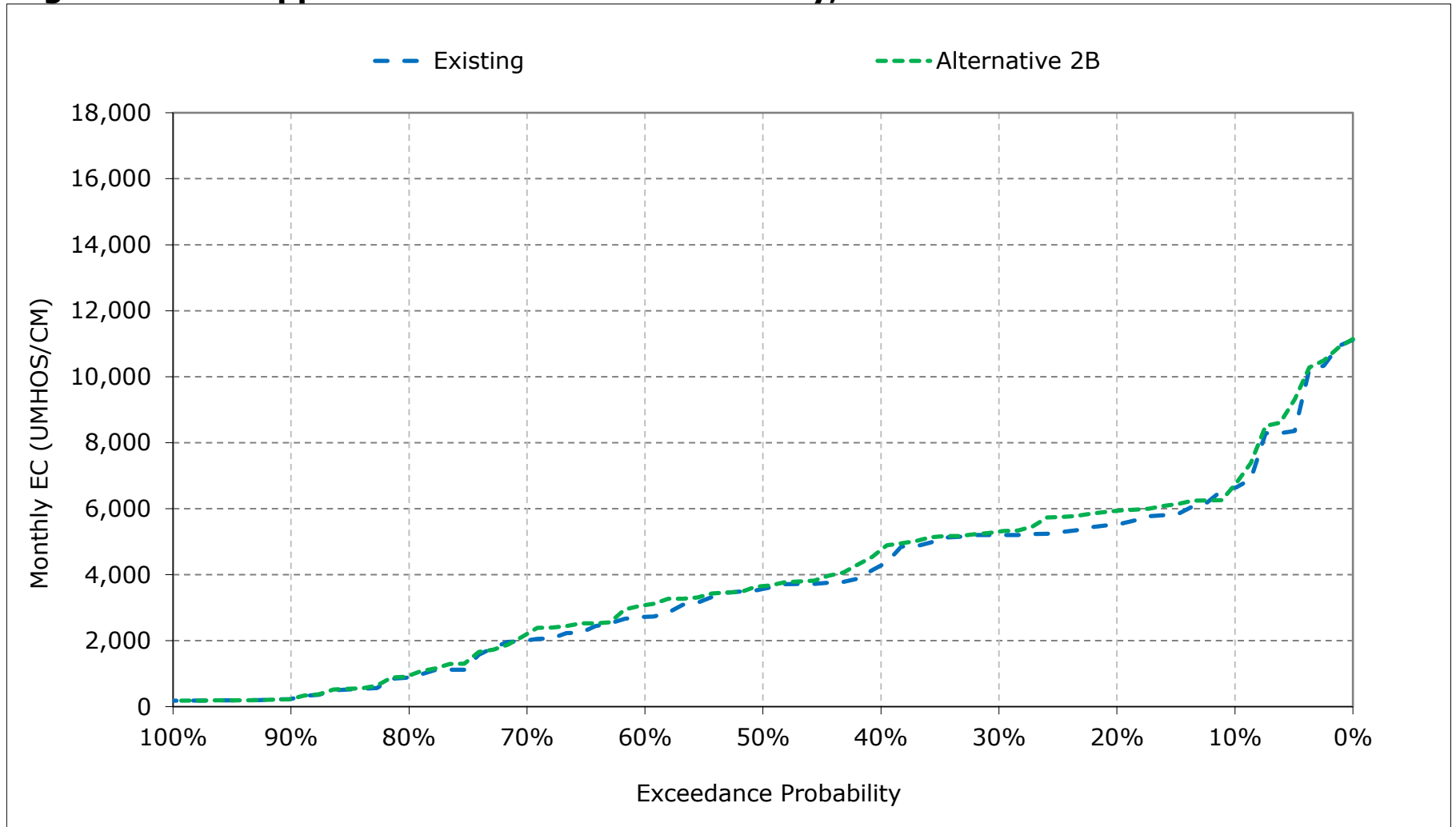
**Figure 9-10. Chipps Island South Channel Salinity, April EC**



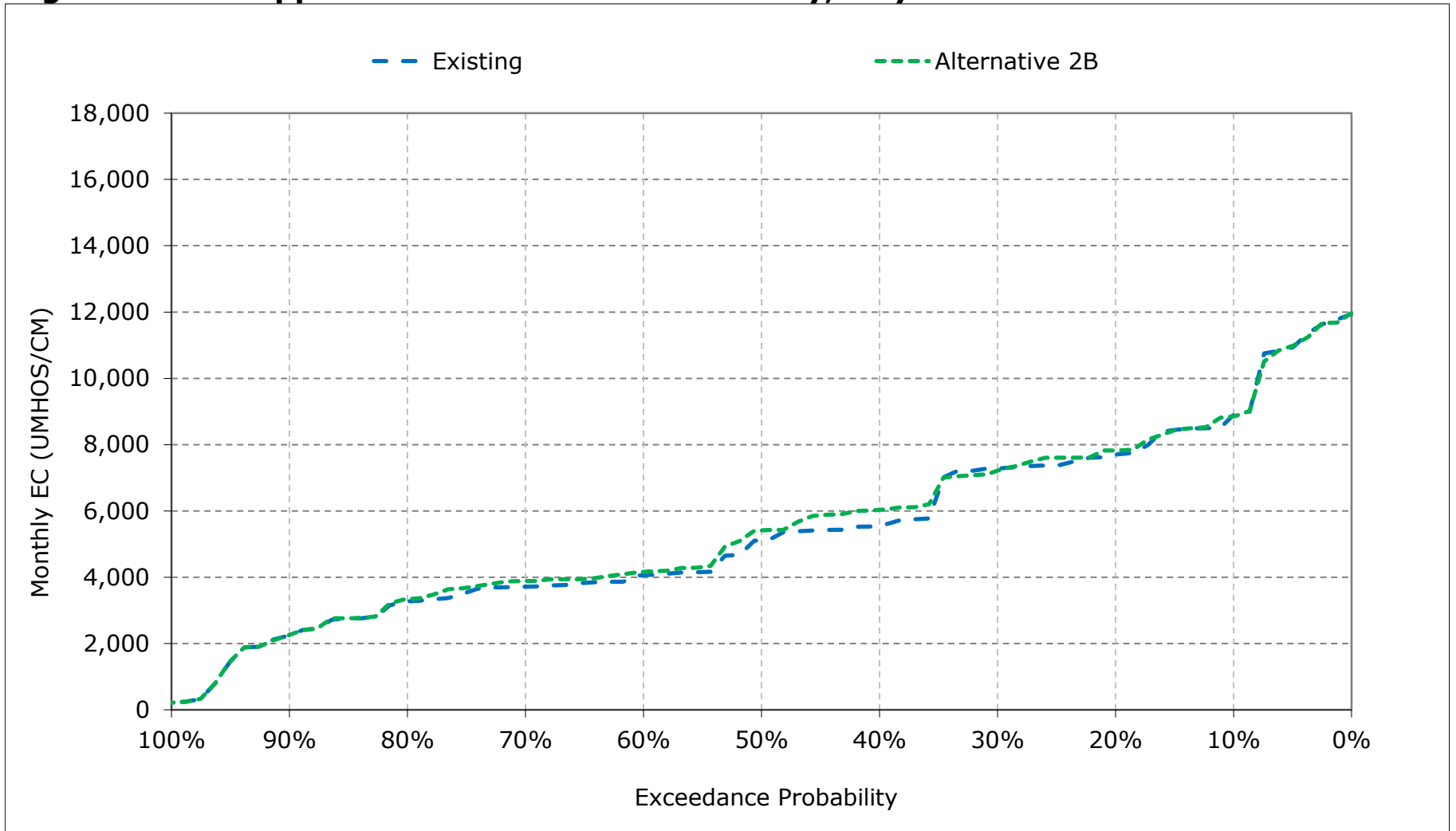
**Figure 9-11. Chipps Island South Channel Salinity, May EC**



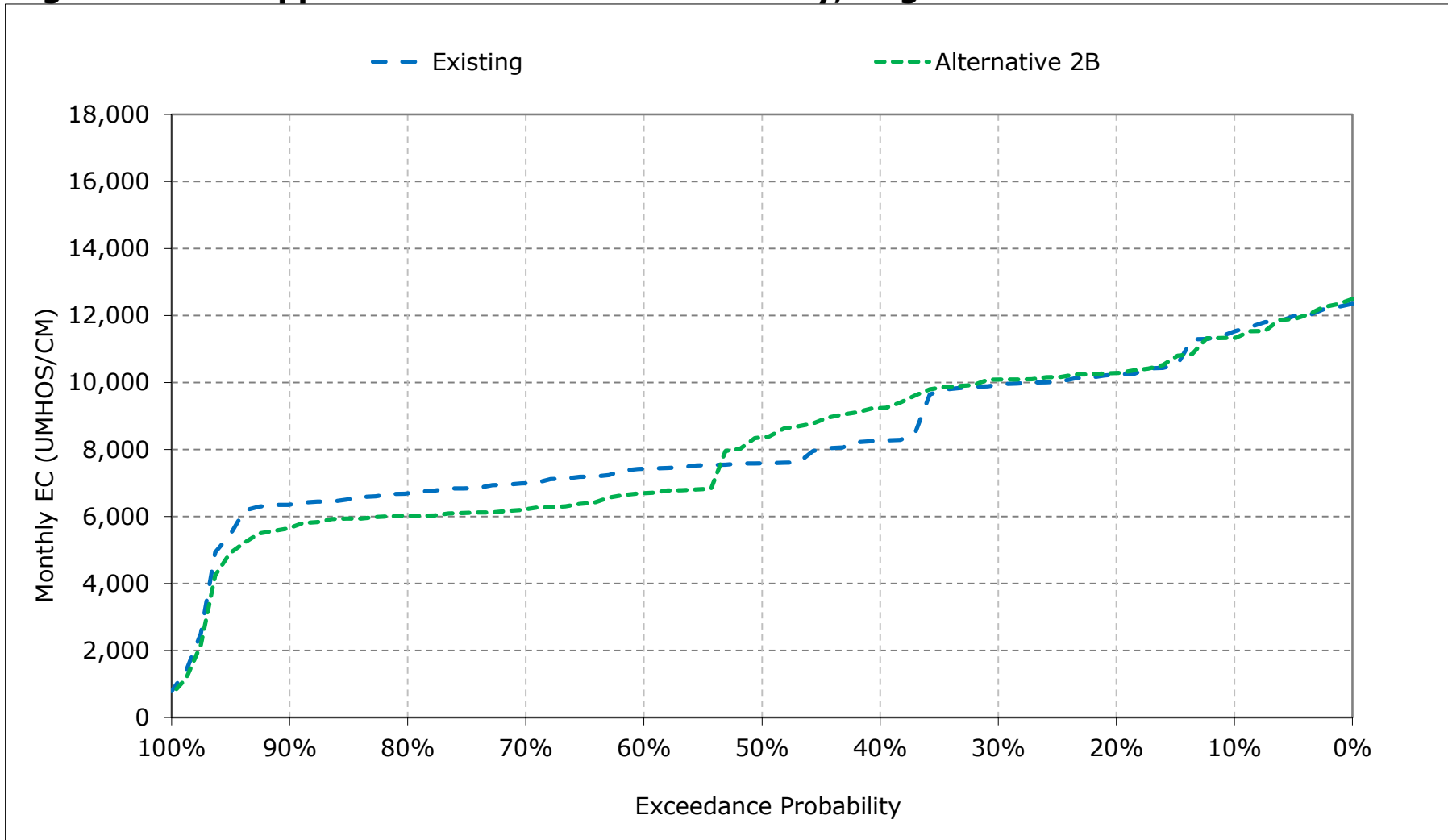
**Figure 9-12. Chipps Island South Channel Salinity, June EC**



**Figure 9-13. Chipps Island South Channel Salinity, July EC**

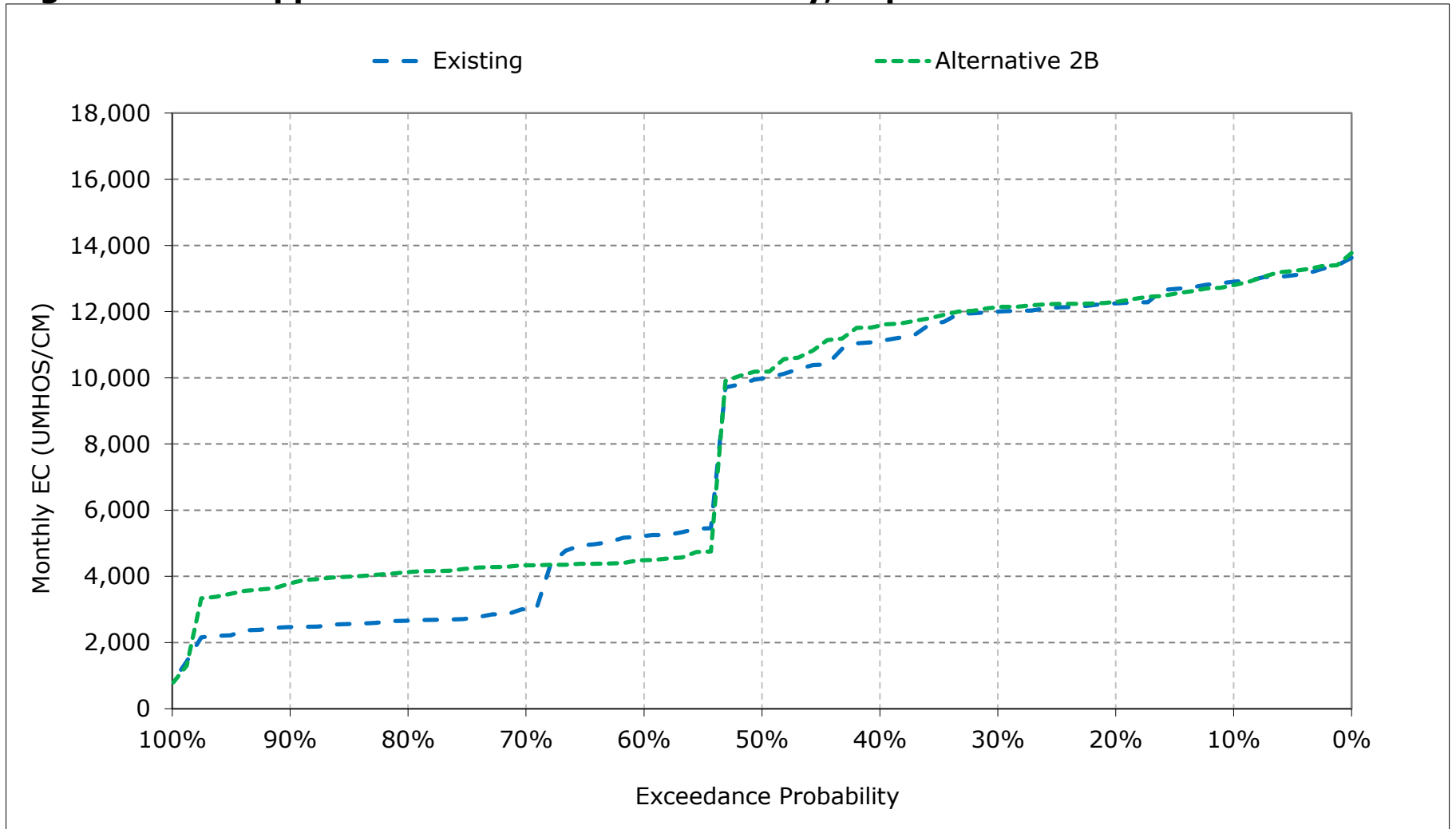


**Figure 9-14. Chipps Island South Channel Salinity, August EC**

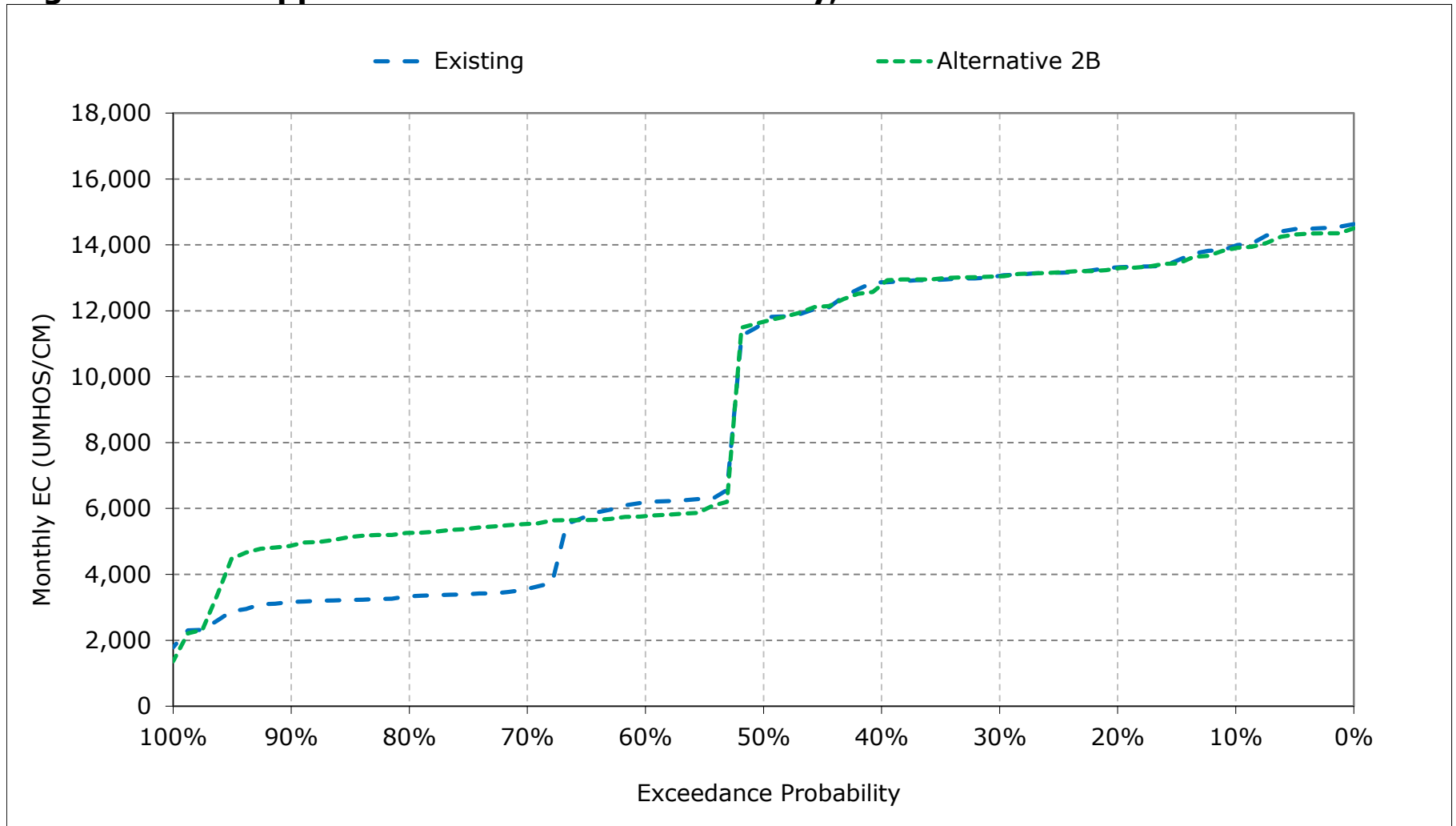




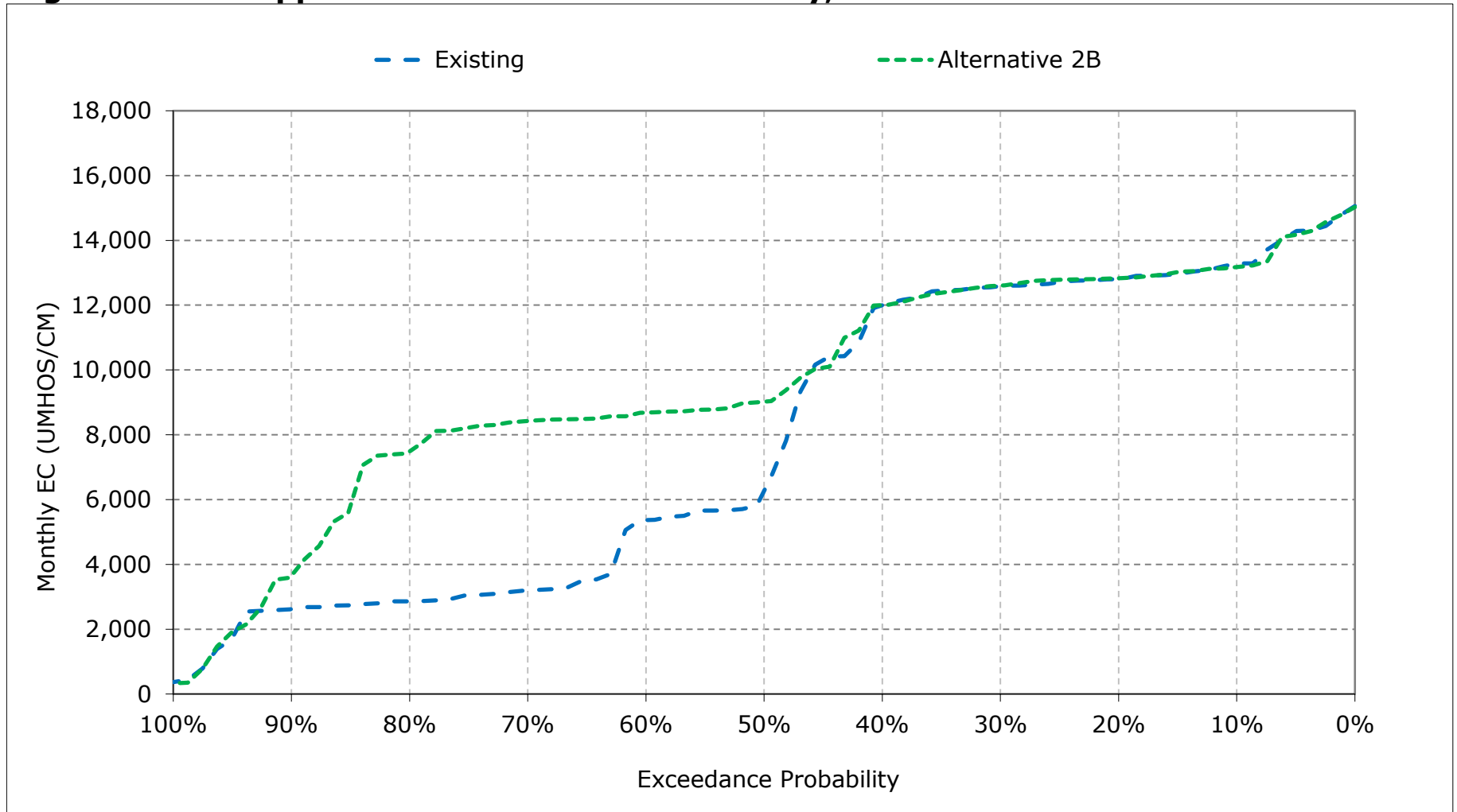
**Figure 9-15. Chipps Island South Channel Salinity, September EC**



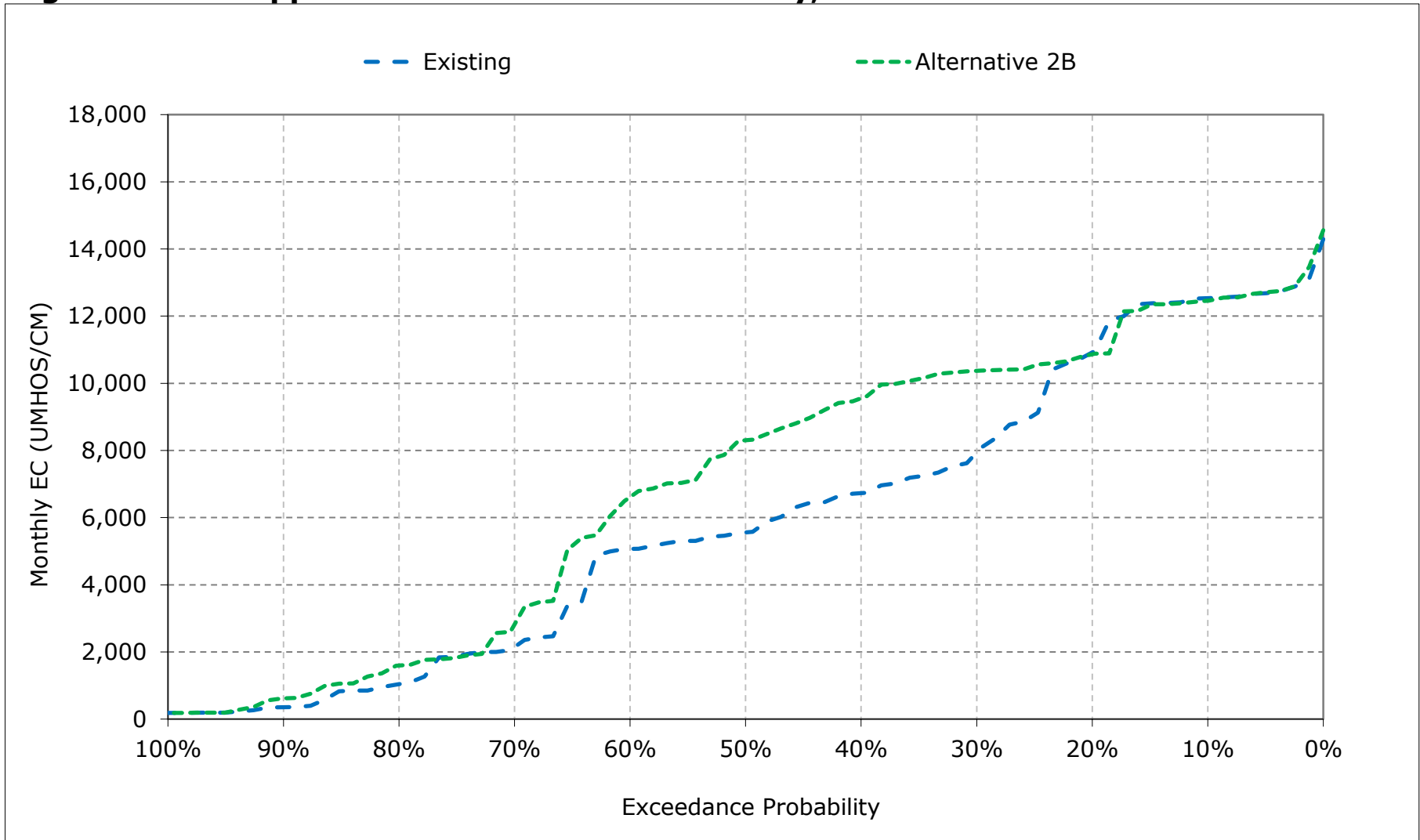
**Figure 9-16. Chipps Island South Channel Salinity, October EC**



**Figure 9-17. Chipps Island South Channel Salinity, November EC**



**Figure 9-18. Chipps Island South Channel Salinity, December EC**



**Table 10-1. Sacramento River at Port Chicago Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	18,857	18,301	17,944	14,027	10,103	9,246	9,508	11,032	12,944	14,993	17,328	18,408
20%	18,400	18,165	16,789	13,182	7,217	6,495	6,436	9,365	11,577	13,939	16,159	17,802
30%	18,221	17,817	14,104	11,188	4,890	3,578	4,510	8,038	11,116	13,675	15,975	17,592
40%	17,970	17,430	12,867	8,181	3,174	3,172	3,785	5,955	10,199	11,892	14,473	16,800
50%	17,153	12,186	11,009	6,774	1,756	1,883	2,627	4,393	8,819	11,353	13,884	16,050
60%	11,800	10,970	10,426	4,299	841	1,177	1,714	3,296	7,874	9,842	13,497	11,219
70%	8,403	8,017	6,384	1,127	341	539	1,041	2,304	6,353	9,483	13,064	7,842
80%	8,112	7,581	3,290	417	223	231	430	1,171	4,138	8,677	12,744	7,338
90%	7,934	7,173	1,022	227	205	201	219	337	1,237	6,634	12,410	6,785
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	13,892	12,807	10,348	6,775	3,582	3,140	3,701	5,288	8,305	11,058	14,210	13,231
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	11,865	9,727	4,560	1,509	462	663	946	1,654	4,040	7,375	11,990	6,980
Above Normal (15%)	14,288	12,609	10,702	4,607	1,512	812	1,482	2,737	6,817	9,286	12,891	11,049
Below Normal (17%)	14,379	13,928	12,606	8,063	2,946	3,101	3,357	5,013	8,800	11,464	14,189	16,435
Dry (22%)	14,459	14,253	12,965	10,586	6,057	4,745	5,613	7,981	11,081	13,821	16,074	17,695
Critical (15%)	16,472	16,198	15,972	13,130	9,441	8,475	9,421	11,992	14,294	16,194	17,566	18,520

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	18,834	18,369	17,969	15,264	9,898	9,191	9,705	11,219	12,972	15,052	17,317	18,397
20%	18,417	18,131	16,545	14,044	7,092	6,375	7,219	10,450	12,094	14,133	16,279	17,851
30%	18,205	17,859	15,939	12,116	4,799	3,380	5,175	9,122	11,376	13,615	16,053	17,672
40%	17,919	17,345	15,419	8,599	3,231	2,840	4,336	7,036	10,840	12,088	14,870	17,004
50%	17,143	14,488	14,296	6,636	1,737	1,688	3,092	5,401	9,193	11,252	14,155	16,115
60%	11,334	14,208	12,679	4,122	640	980	1,895	4,462	8,456	10,061	13,077	10,560
70%	11,194	13,980	7,993	988	342	470	1,333	3,107	6,659	9,678	12,628	10,399
80%	10,808	13,312	3,955	407	223	232	492	1,492	4,300	8,731	12,324	10,130
90%	10,453	8,656	1,238	219	204	199	217	432	1,290	6,638	12,020	9,614
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	14,569	14,662	11,440	6,982	3,641	3,050	3,979	5,971	8,631	11,148	14,090	13,984
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	12,720	12,198	5,337	1,497	444	617	1,141	2,162	4,384	7,475	11,506	9,596
Above Normal (15%)	15,154	14,534	12,141	4,634	1,348	721	1,771	3,632	7,126	9,418	12,613	10,248
Below Normal (17%)	15,105	15,741	13,948	8,004	2,818	2,863	3,785	6,088	9,155	11,578	14,530	16,569
Dry (22%)	15,121	15,755	14,247	11,236	6,365	4,578	5,952	8,763	11,483	13,905	16,173	17,782
Critical (15%)	16,536	17,232	16,826	13,640	9,734	8,580	9,600	12,236	14,447	16,198	17,529	18,515

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-23	<b>67</b>	<b>25</b>	<b>1,237</b>	-205	-55	<b>197</b>	<b>188</b>	<b>28</b>	<b>59</b>	-10	-12
20%	<b>17</b>	-34	-244	<b>861</b>	-125	-120	<b>783</b>	<b>1,085</b>	<b>517</b>	<b>194</b>	<b>120</b>	<b>49</b>
30%	-16	<b>42</b>	<b>1,835</b>	<b>928</b>	-91	-198	<b>665</b>	<b>1,084</b>	<b>261</b>	-60	<b>78</b>	<b>80</b>
40%	-52	-85	<b>2,552</b>	<b>418</b>	<b>57</b>	-333	<b>551</b>	<b>1,082</b>	<b>641</b>	<b>196</b>	<b>397</b>	<b>204</b>
50%	-9	<b>2,302</b>	<b>3,287</b>	-138	-19	-195	<b>466</b>	<b>1,007</b>	<b>375</b>	-101	<b>271</b>	<b>65</b>
60%	-466	<b>3,238</b>	<b>2,253</b>	-177	-201	-196	<b>181</b>	<b>1,166</b>	<b>582</b>	<b>219</b>	-420	-660
70%	<b>2,791</b>	<b>5,963</b>	<b>1,609</b>	-139	<b>2</b>	-69	<b>292</b>	<b>803</b>	<b>307</b>	<b>195</b>	-436	<b>2,557</b>
80%	<b>2,696</b>	<b>5,730</b>	<b>665</b>	-10	<b>0</b>	<b>2</b>	<b>62</b>	<b>321</b>	<b>162</b>	<b>53</b>	-420	<b>2,792</b>
90%	<b>2,518</b>	<b>1,483</b>	<b>217</b>	-9	-1	-2	-2	<b>94</b>	<b>53</b>	<b>4</b>	-390	<b>2,829</b>
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	<b>677</b>	<b>1,856</b>	<b>1,092</b>	<b>207</b>	<b>59</b>	-90	<b>278</b>	<b>683</b>	<b>326</b>	<b>89</b>	-119	<b>753</b>
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	<b>855</b>	<b>2,471</b>	<b>776</b>	-12	-17	-46	<b>196</b>	<b>508</b>	<b>345</b>	<b>100</b>	-484	<b>2,616</b>
Above Normal (15%)	<b>867</b>	<b>1,925</b>	<b>1,439</b>	<b>28</b>	-164	-91	<b>289</b>	<b>895</b>	<b>310</b>	<b>131</b>	-277	-801
Below Normal (17%)	<b>726</b>	<b>1,813</b>	<b>1,342</b>	-59	-128	-238	<b>428</b>	<b>1,075</b>	<b>355</b>	<b>114</b>	<b>341</b>	<b>134</b>
Dry (22%)	<b>662</b>	<b>1,502</b>	<b>1,283</b>	<b>650</b>	<b>308</b>	-167	<b>339</b>	<b>782</b>	<b>402</b>	<b>84</b>	<b>99</b>	<b>87</b>
Critical (15%)	<b>65</b>	<b>1,033</b>	<b>854</b>	<b>510</b>	<b>293</b>	<b>105</b>	<b>179</b>	<b>243</b>	<b>152</b>	<b>4</b>	-37	-5

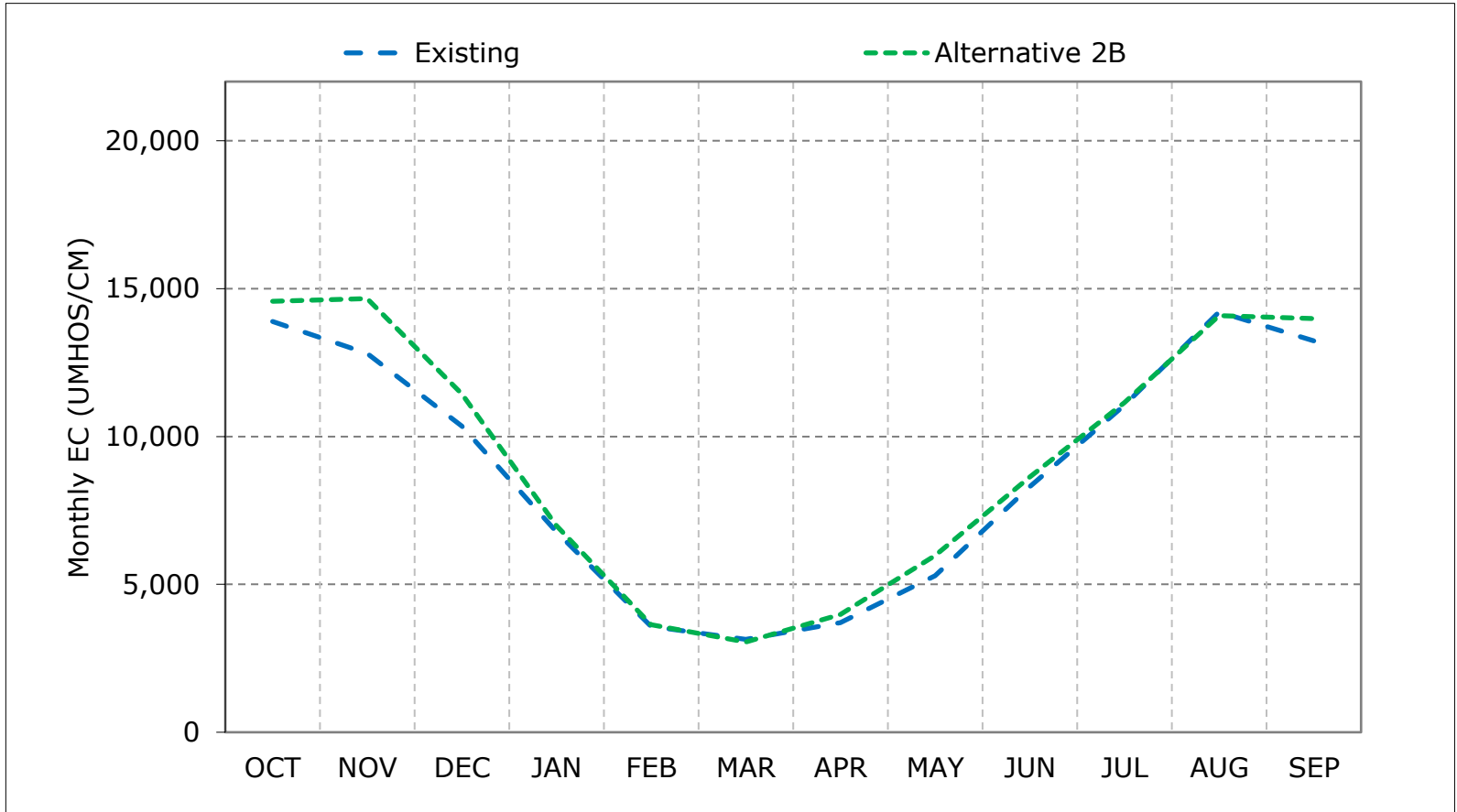
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

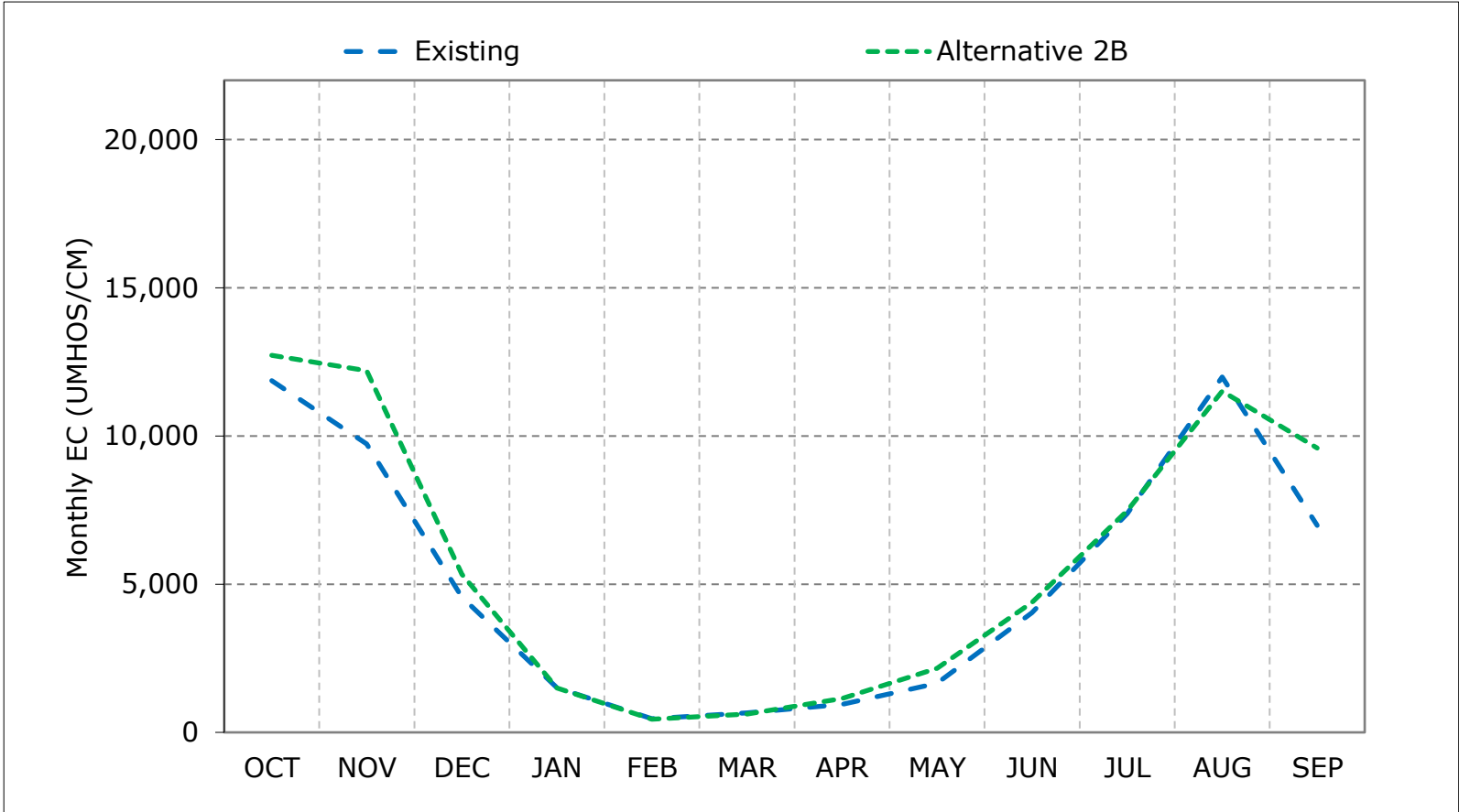
**Figure 10-1. Sacramento River at Port Chicago Salinity, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

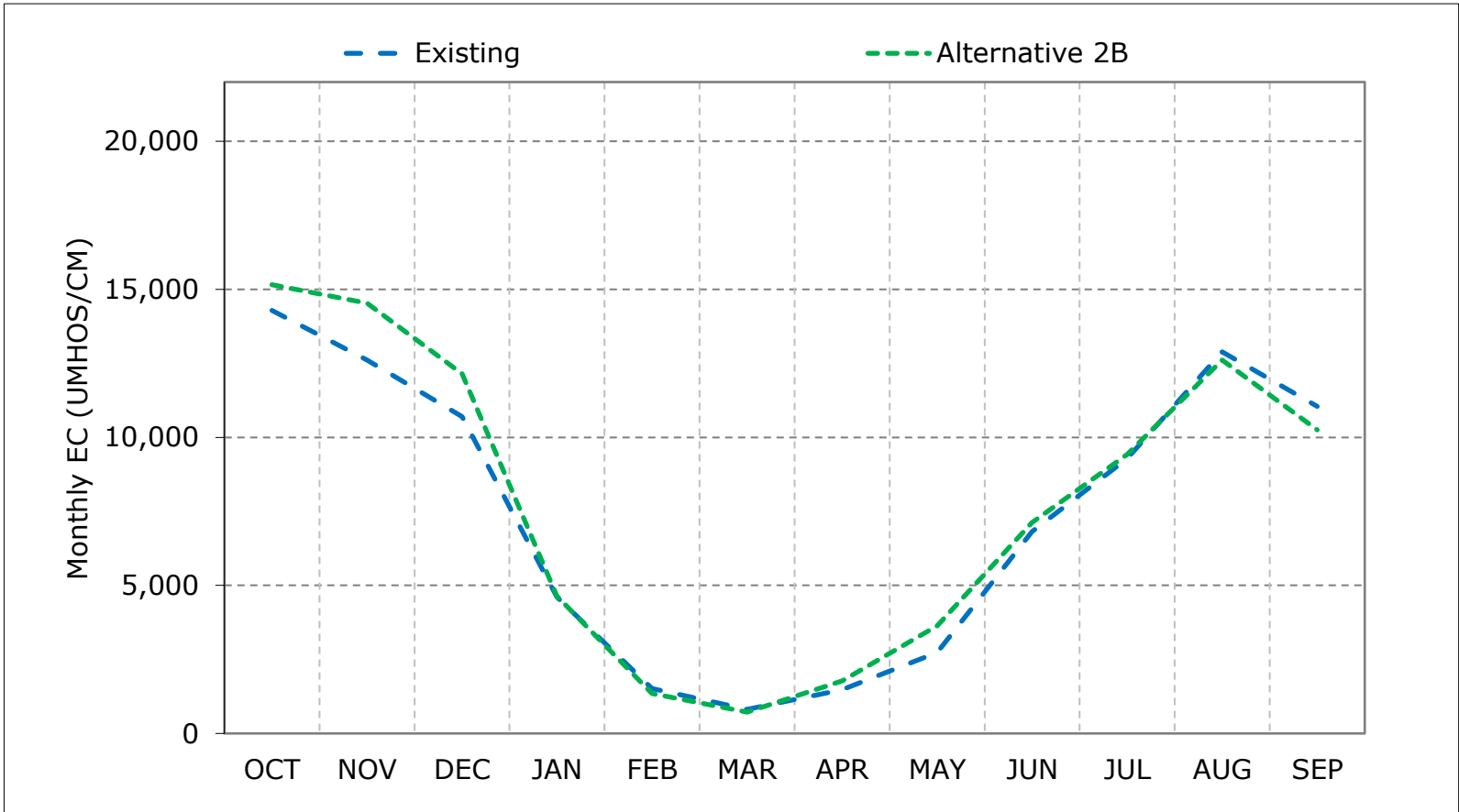
**Figure 10-2. Sacramento River at Port Chicago Salinity, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 10-3. Sacramento River at Port Chicago Salinity, Above Normal Year Average**

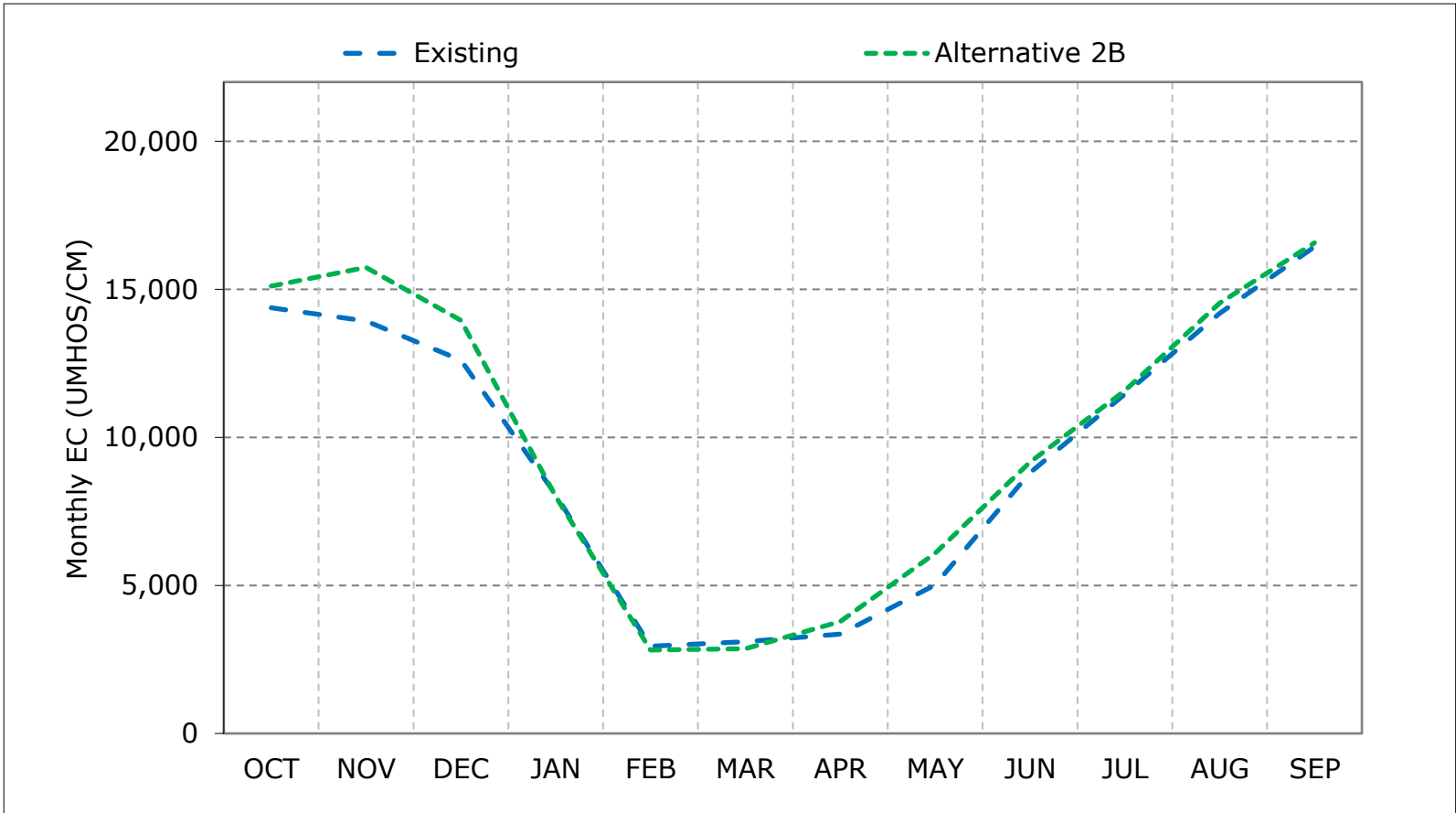


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



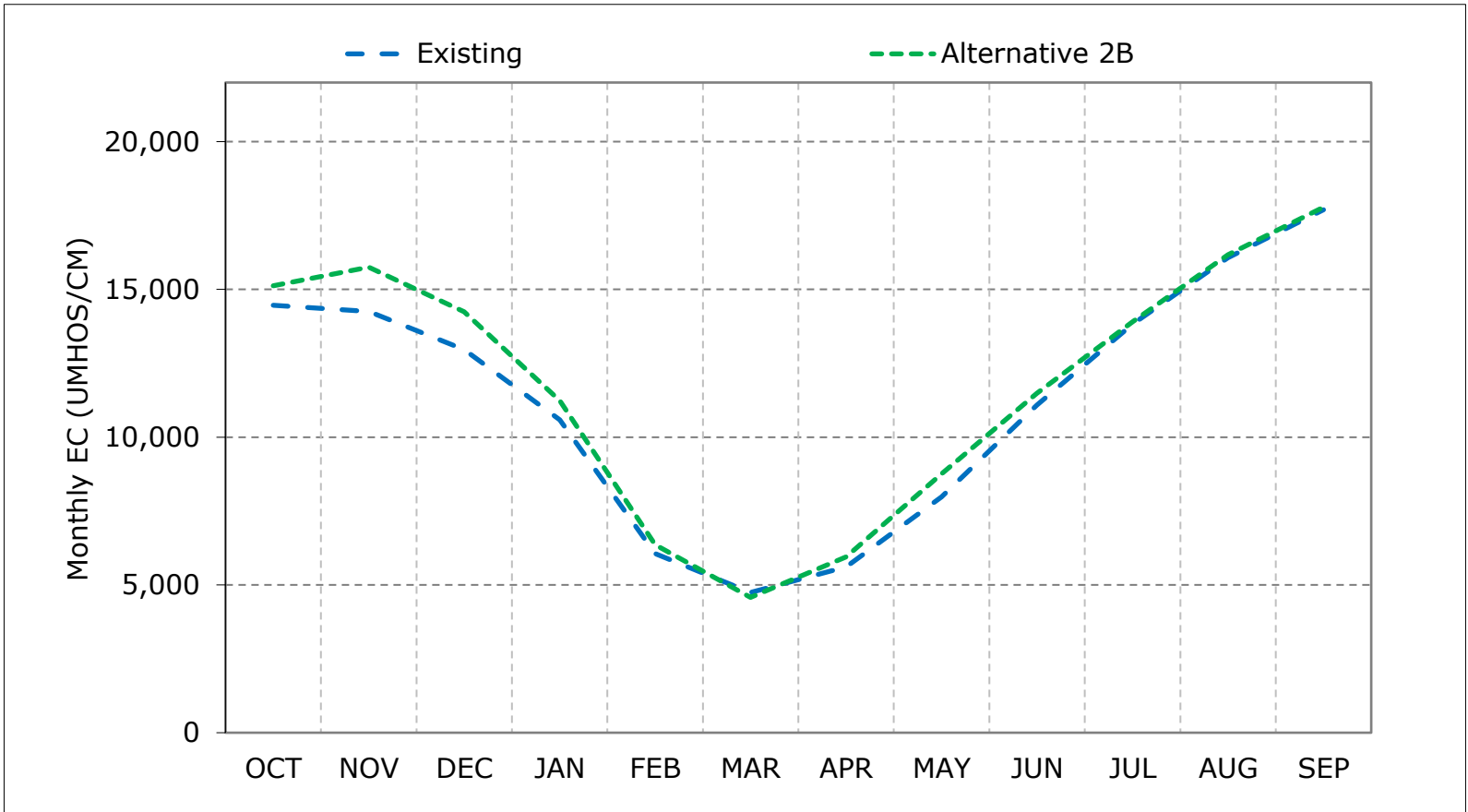
**Figure 10-4. Sacramento River at Port Chicago Salinity, Below Normal Year Average**



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

\*These results are displayed with water year - year type sorting.

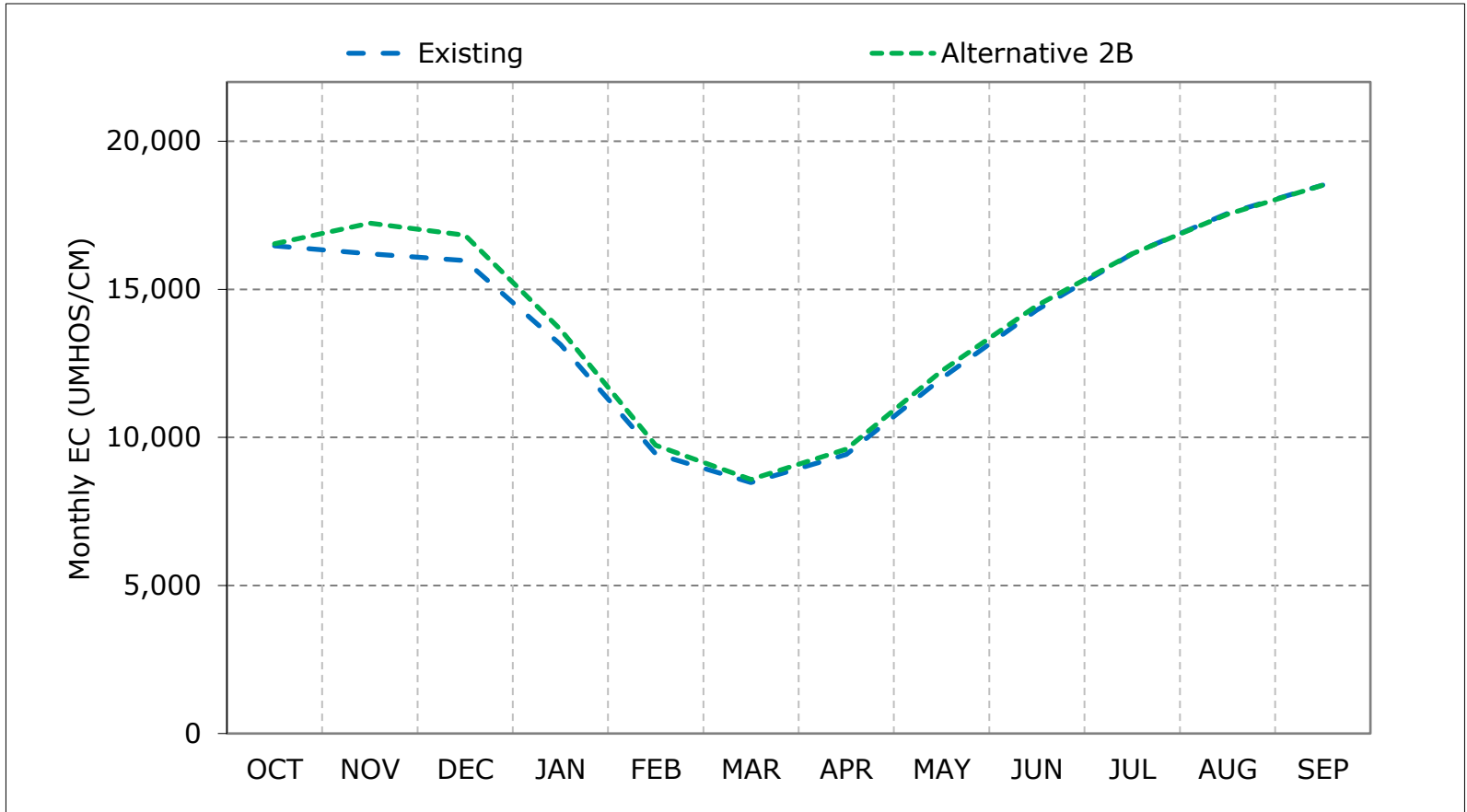
**Figure 10-5. Sacramento River at Port Chicago Salinity, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

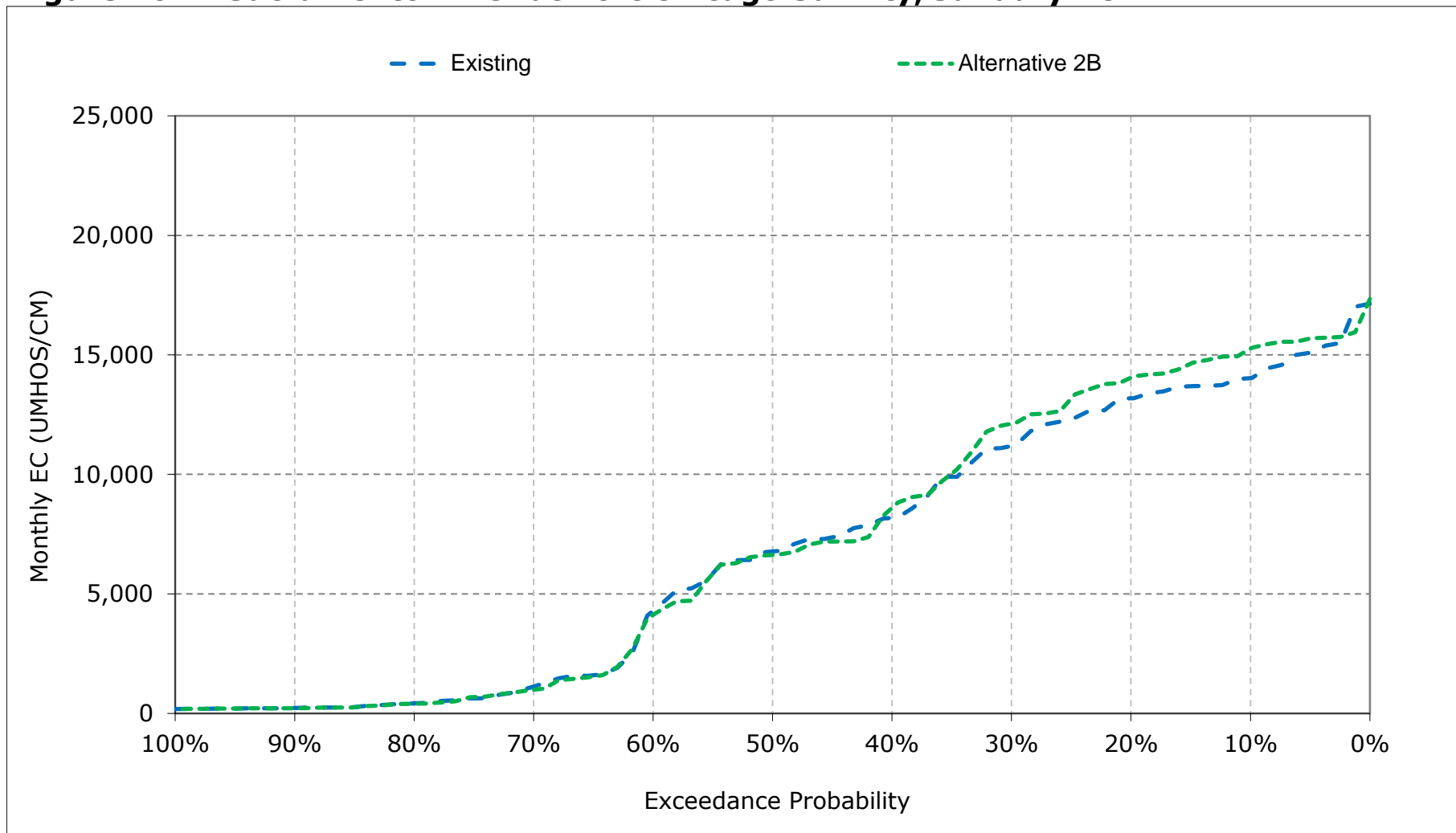
**Figure 10-6. Sacramento River at Port Chicago Salinity, Critical Year Average EC**



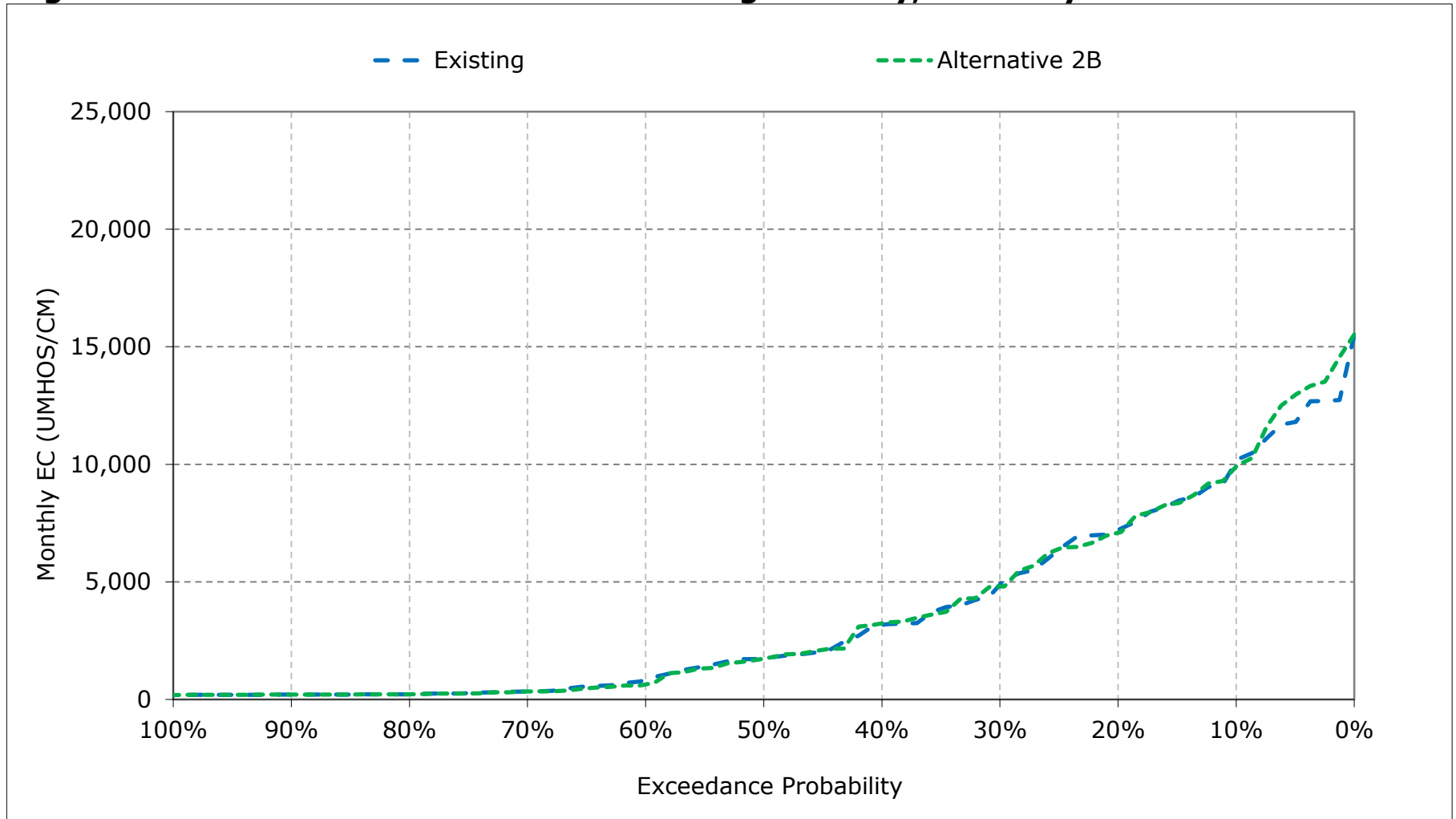
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

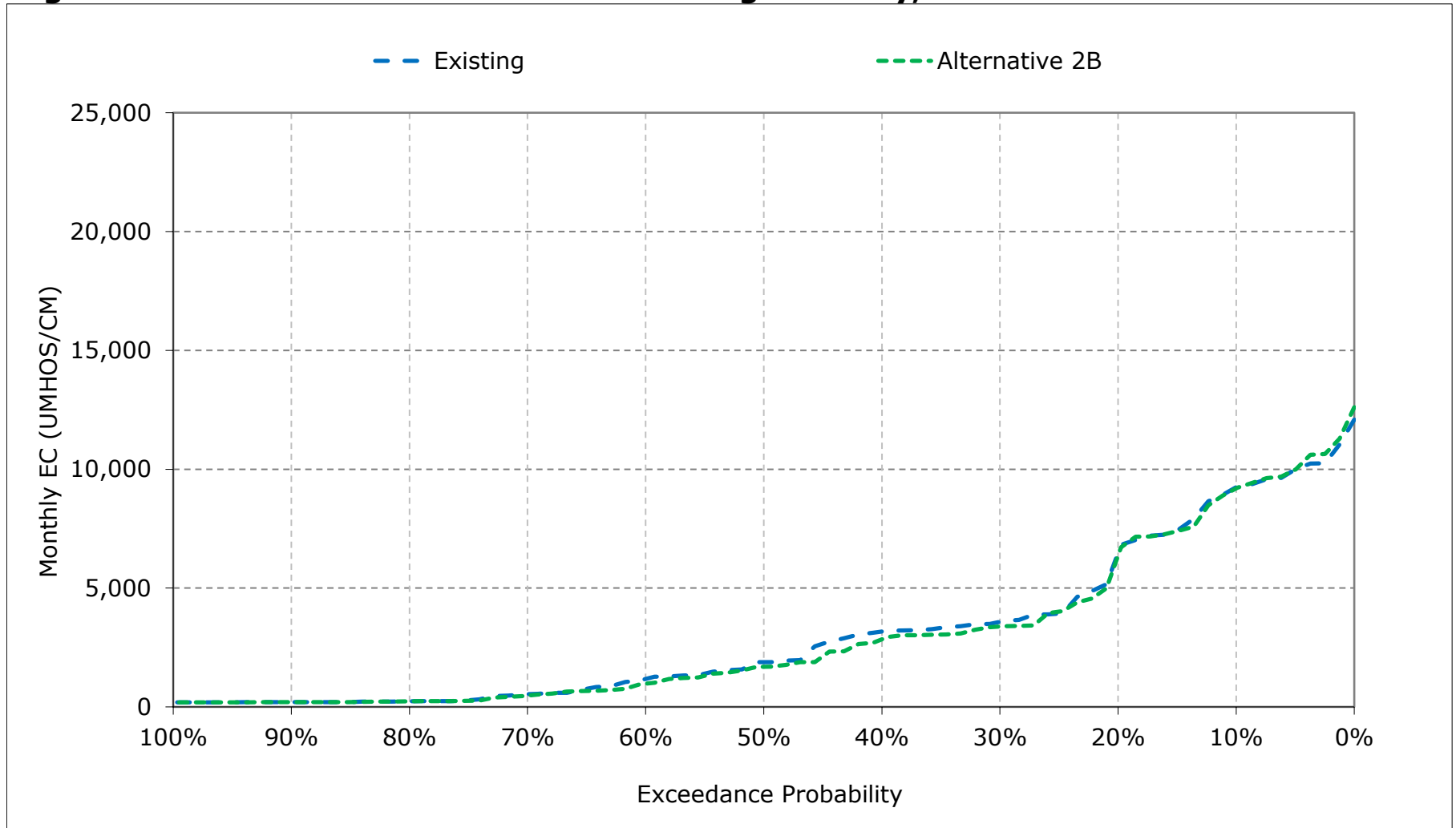
**Figure 10-7. Sacramento River at Port Chicago Salinity, January EC**



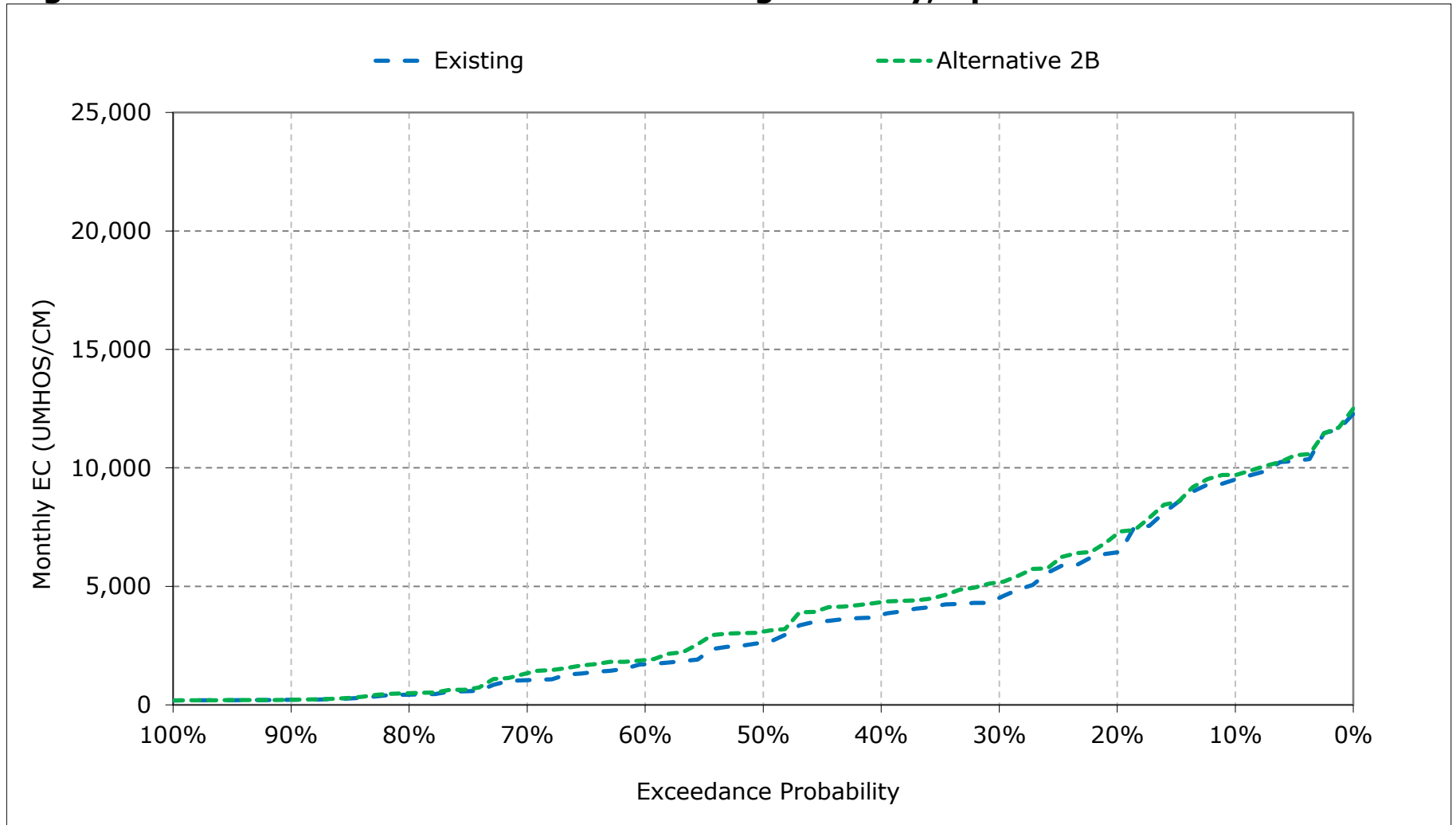
**Figure 10-8. Sacramento River at Port Chicago Salinity, February EC**



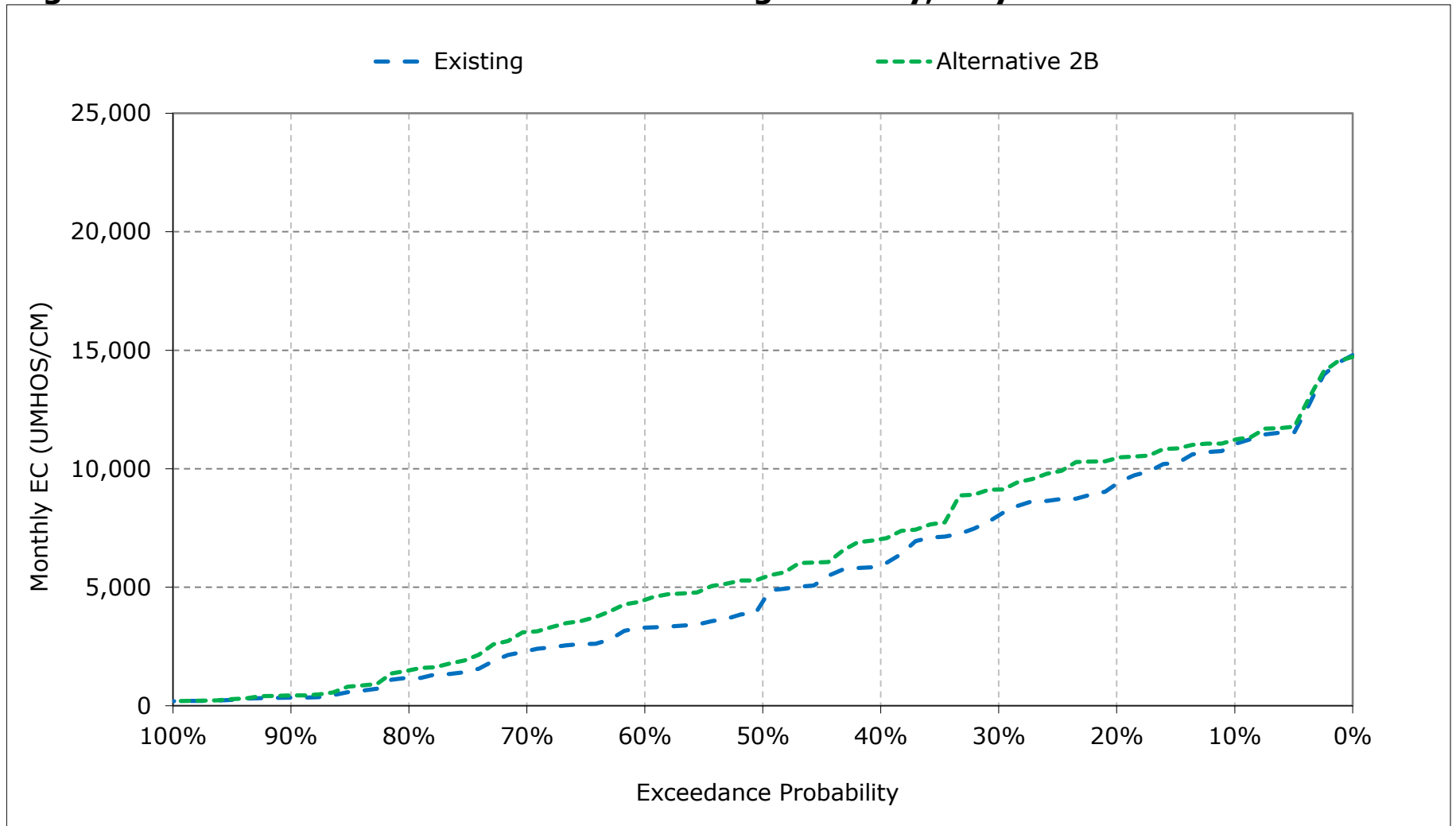
**Figure 10-9. Sacramento River at Port Chicago Salinity, March EC**



**Figure 10-10. Sacramento River at Port Chicago Salinity, April EC**

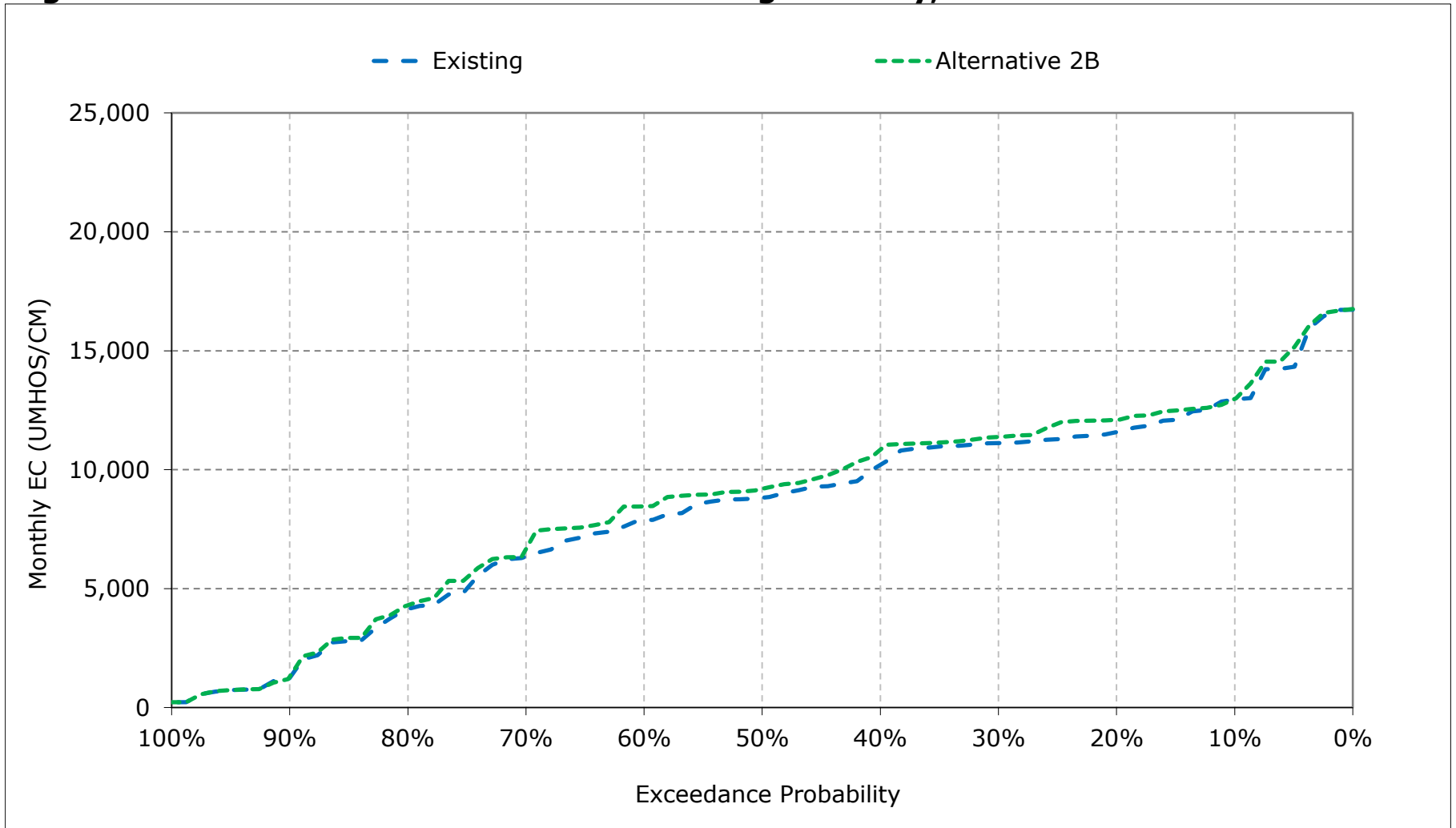


**Figure 10-11. Sacramento River at Port Chicago Salinity, May EC**

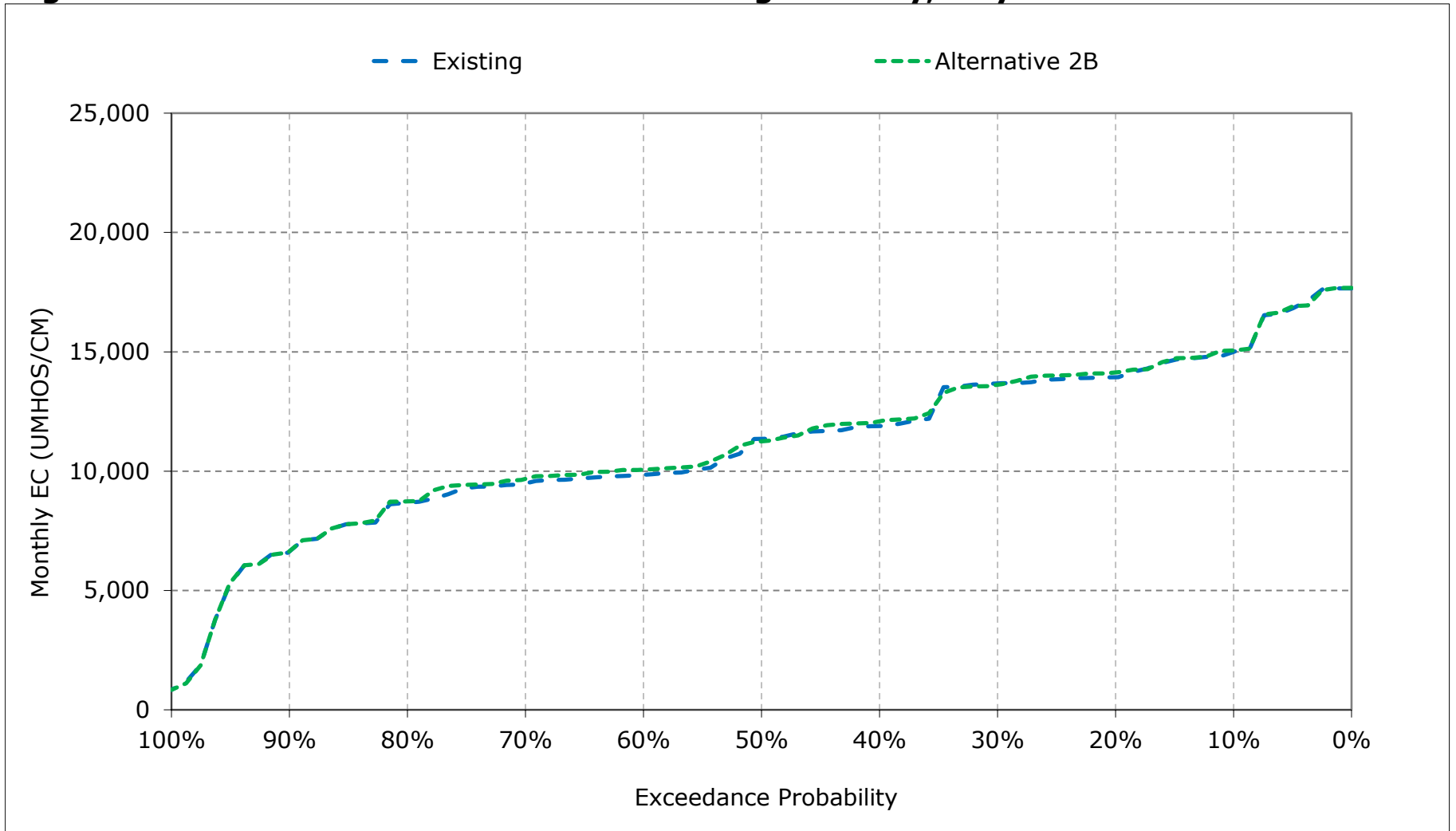




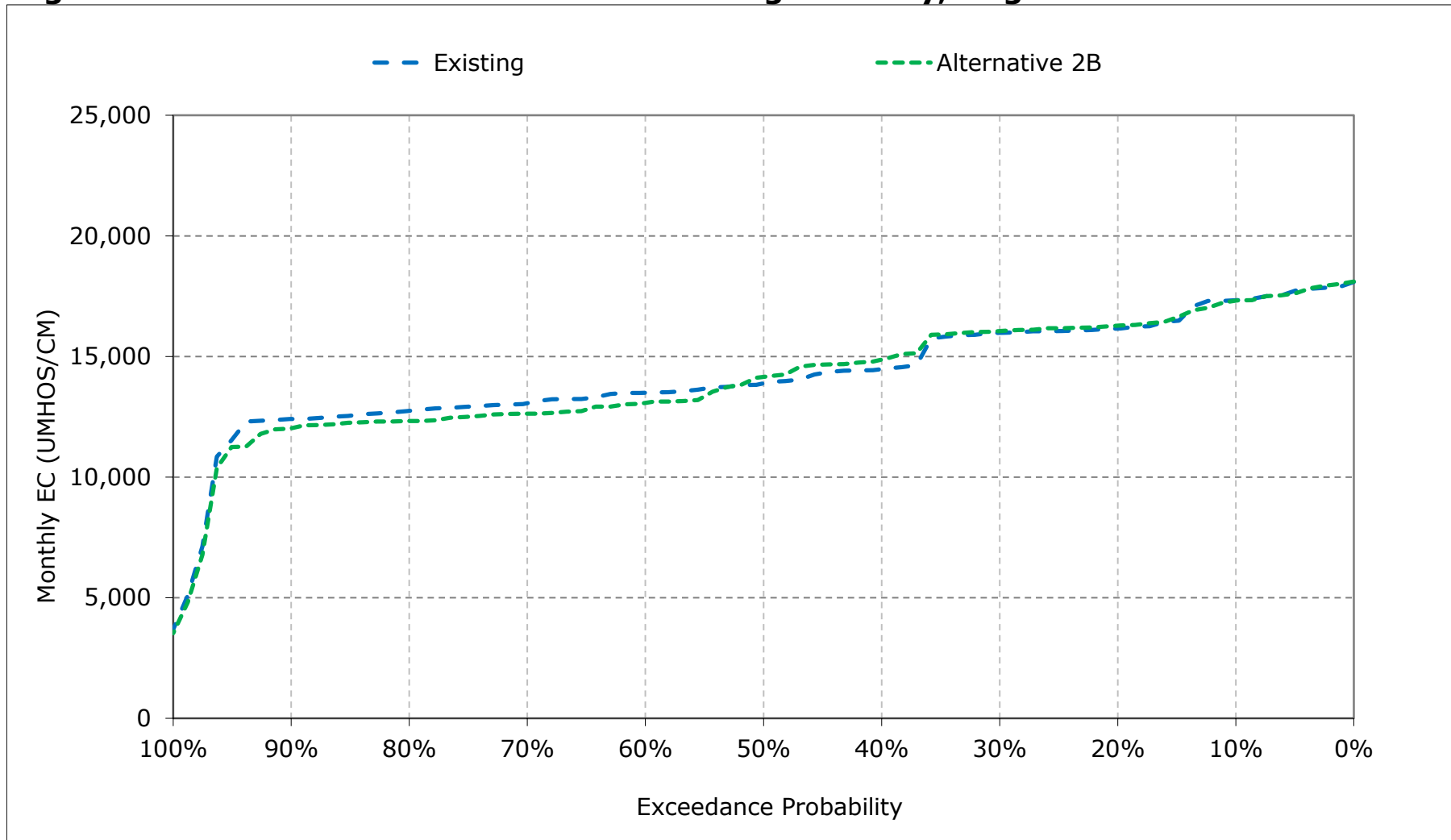
**Figure 10-12. Sacramento River at Port Chicago Salinity, June EC**



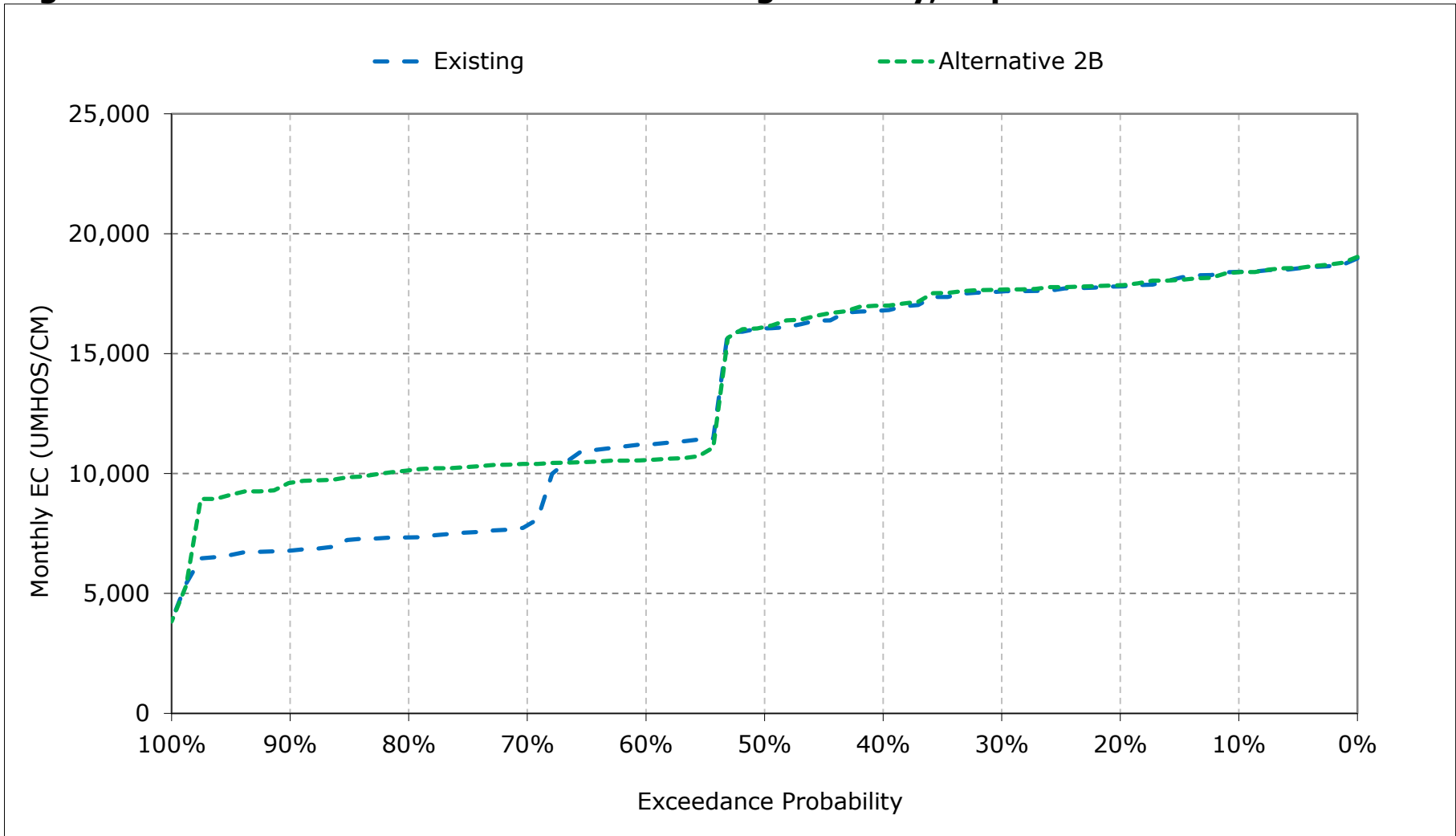
**Figure 10-13. Sacramento River at Port Chicago Salinity, July EC**



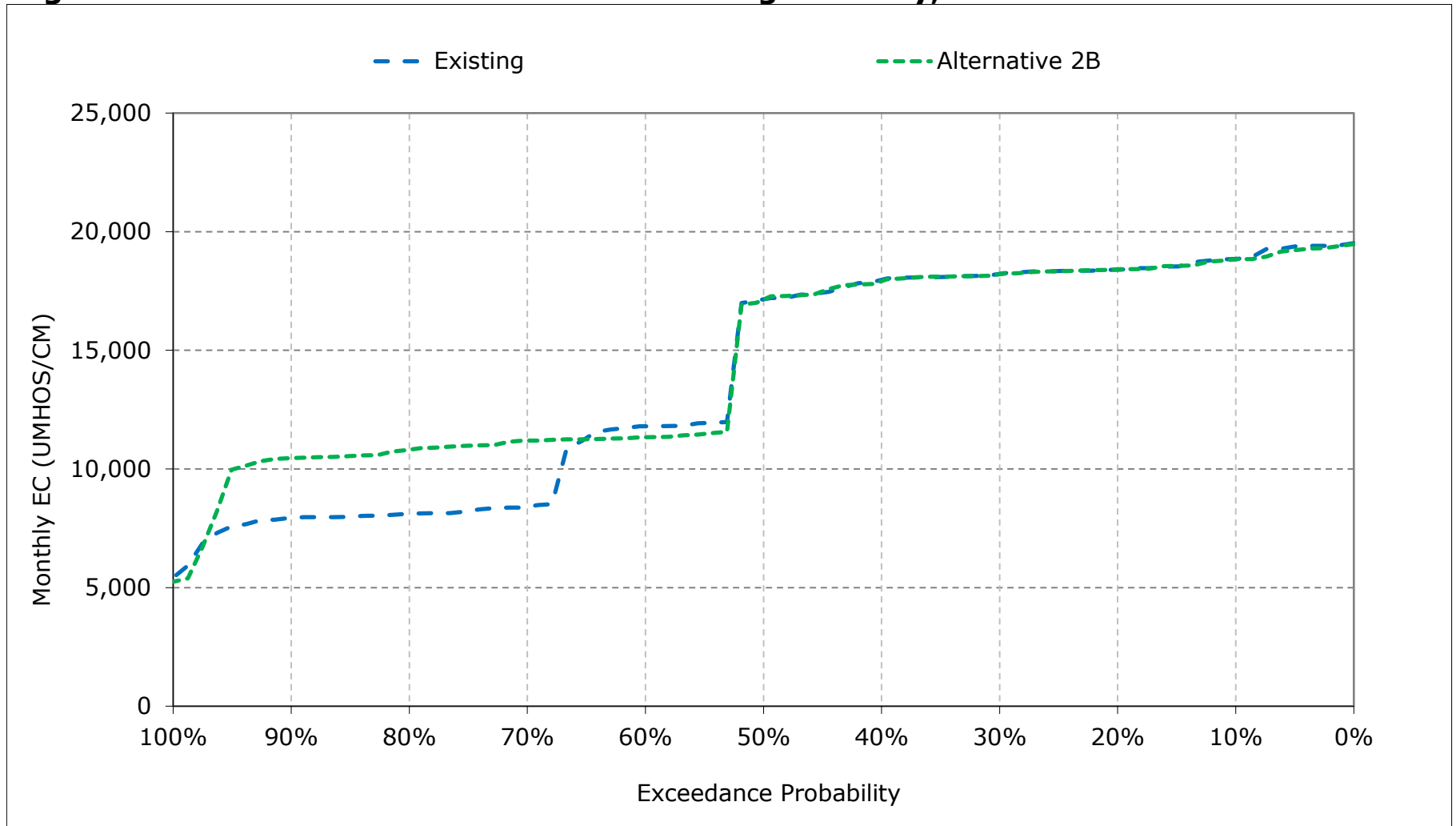
**Figure 10-14. Sacramento River at Port Chicago Salinity, August EC**



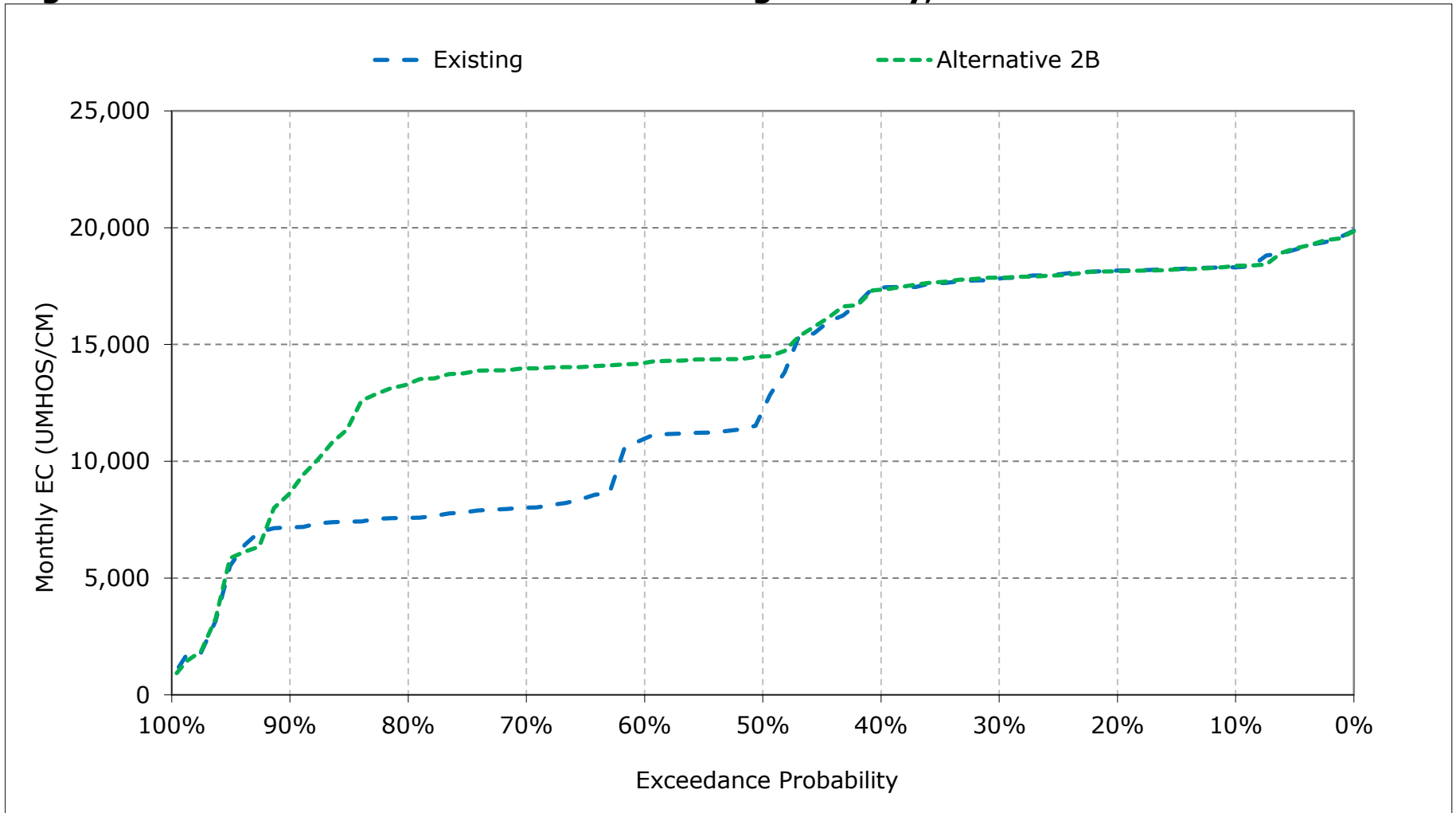
**Figure 10-15. Sacramento River at Port Chicago Salinity, September EC**



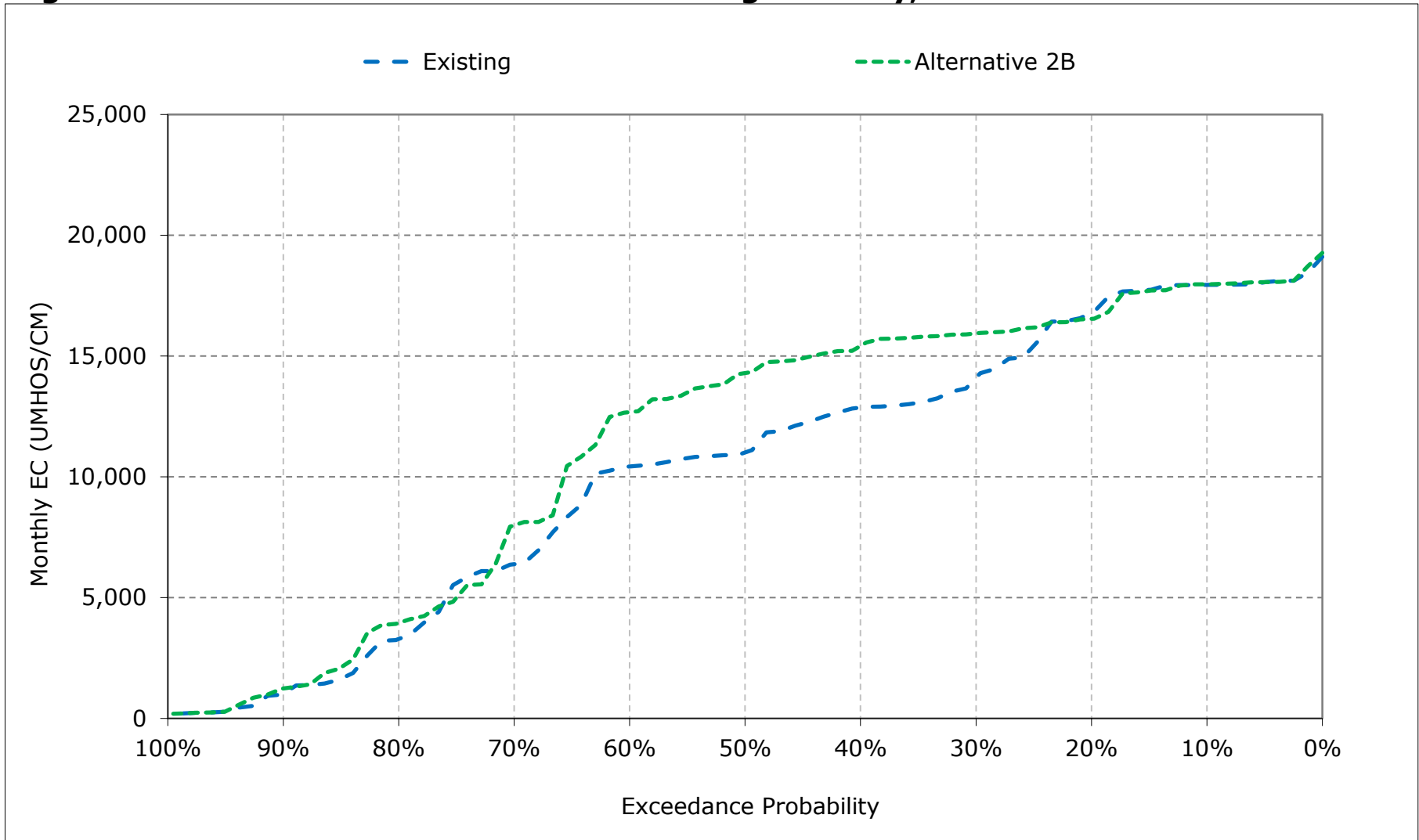
**Figure 10-16. Sacramento River at Port Chicago Salinity, October EC**



**Figure 10-17. Sacramento River at Port Chicago Salinity, November EC**



**Figure 10-18. Sacramento River at Port Chicago Salinity, December EC**



**Table 11-1. San Joaquin River at Antioch Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	7,250	6,676	6,398	3,358	1,223	1,035	961	1,609	2,307	3,749	5,519	6,896
20%	6,792	6,518	5,164	2,829	758	498	505	1,020	1,833	3,160	4,834	6,480
30%	6,690	6,190	3,327	2,078	520	294	297	720	1,708	2,987	4,528	6,264
40%	6,284	5,969	2,785	1,274	370	260	262	422	1,303	2,013	3,709	5,800
50%	5,773	2,464	2,170	1,002	283	239	244	291	1,087	1,813	3,305	4,925
60%	2,050	1,730	1,872	491	255	229	227	252	689	1,232	3,199	2,032
70%	1,128	914	751	260	243	222	219	232	525	1,151	2,996	1,321
80%	952	798	486	235	225	216	213	216	270	955	2,779	1,199
90%	846	731	228	220	213	199	208	204	205	659	2,565	1,144
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	4,134	3,633	2,705	1,426	595	407	417	667	1,286	2,113	3,696	3,952
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	3,066	2,178	843	354	240	220	220	236	408	827	2,568	1,081
Above Normal (15%)	4,383	3,637	2,584	908	319	223	224	251	755	1,128	2,849	2,005
Below Normal (17%)	4,353	3,978	3,531	1,536	399	296	293	422	1,065	1,884	3,469	5,337
Dry (22%)	4,420	4,312	3,284	2,079	808	464	454	785	1,686	3,078	4,668	6,380
Critical (15%)	5,515	5,357	5,024	3,155	1,547	1,040	1,123	2,128	3,379	4,706	5,797	6,863

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	7,130	6,661	6,277	4,057	1,253	1,050	1,014	1,662	2,370	3,838	5,429	6,899
20%	6,810	6,514	5,225	3,251	820	524	533	1,231	1,949	3,245	4,867	6,518
30%	6,614	6,269	5,039	2,307	541	284	338	920	1,741	2,967	4,677	6,322
40%	6,374	5,969	4,503	1,461	385	256	281	492	1,391	2,166	4,282	6,063
50%	5,720	4,095	3,569	998	293	241	247	328	1,026	1,842	3,753	5,192
60%	1,926	3,847	2,625	510	262	228	222	270	772	1,304	2,603	1,539
70%	1,819	3,719	1,270	268	242	219	212	225	557	1,206	2,338	1,469
80%	1,737	3,127	765	242	226	215	208	201	269	985	2,222	1,402
90%	1,599	1,393	348	220	214	201	203	193	200	659	2,016	1,244
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	4,309	4,569	3,332	1,569	639	413	428	736	1,331	2,146	3,548	4,016
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	3,320	3,374	1,253	366	239	221	218	254	447	851	1,990	1,252
Above Normal (15%)	4,602	4,517	3,408	1,035	309	225	224	271	729	1,151	2,350	1,459
Below Normal (17%)	4,583	4,876	4,299	1,638	399	290	310	516	1,070	1,998	4,004	5,735
Dry (22%)	4,555	5,174	4,079	2,409	914	464	481	933	1,786	3,098	4,765	6,470
Critical (15%)	5,468	5,941	5,514	3,367	1,703	1,082	1,146	2,204	3,472	4,693	5,766	6,879

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-120	-16	-122	<b>699</b>	<b>31</b>	<b>15</b>	<b>52</b>	<b>53</b>	<b>63</b>	<b>89</b>	-91	<b>3</b>
20%	<b>18</b>	-4	<b>61</b>	<b>422</b>	<b>62</b>	<b>26</b>	<b>28</b>	<b>210</b>	<b>116</b>	<b>85</b>	<b>33</b>	<b>38</b>
30%	-76	<b>79</b>	<b>1,712</b>	<b>229</b>	<b>22</b>	-10	<b>41</b>	<b>200</b>	<b>34</b>	-19	<b>150</b>	<b>59</b>
40%	<b>90</b>	0	<b>1,718</b>	<b>188</b>	<b>15</b>	-3	<b>19</b>	<b>70</b>	<b>88</b>	<b>153</b>	<b>574</b>	<b>263</b>
50%	-52	<b>1,630</b>	<b>1,399</b>	-3	<b>10</b>	<b>3</b>	<b>3</b>	<b>37</b>	-61	<b>29</b>	<b>448</b>	<b>267</b>
60%	-124	<b>2,117</b>	<b>753</b>	<b>19</b>	<b>7</b>	-1	-5	<b>19</b>	<b>83</b>	<b>71</b>	-596	-493
70%	<b>691</b>	<b>2,806</b>	<b>519</b>	<b>7</b>	-1	-3	-6	-7	<b>32</b>	<b>55</b>	-657	<b>148</b>
80%	<b>785</b>	<b>2,329</b>	<b>279</b>	<b>7</b>	<b>1</b>	-1	-5	-15	-1	<b>30</b>	-556	<b>203</b>
90%	<b>753</b>	<b>662</b>	<b>120</b>	<b>1</b>	<b>0</b>	<b>2</b>	-5	-10	-5	0	-549	<b>100</b>
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	<b>175</b>	<b>936</b>	<b>628</b>	<b>143</b>	<b>44</b>	<b>6</b>	<b>12</b>	<b>68</b>	<b>45</b>	<b>33</b>	-148	<b>65</b>
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	<b>254</b>	<b>1,196</b>	<b>410</b>	<b>12</b>	-2	<b>1</b>	-2	<b>19</b>	<b>39</b>	<b>24</b>	-578	<b>171</b>
Above Normal (15%)	<b>219</b>	<b>880</b>	<b>824</b>	<b>127</b>	-9	<b>2</b>	<b>0</b>	<b>19</b>	-26	<b>23</b>	-499	-546
Below Normal (17%)	<b>230</b>	<b>898</b>	<b>768</b>	<b>102</b>	0	-6	<b>17</b>	<b>94</b>	<b>5</b>	<b>114</b>	<b>535</b>	<b>398</b>
Dry (22%)	<b>135</b>	<b>862</b>	<b>794</b>	<b>330</b>	<b>106</b>	<b>0</b>	<b>27</b>	<b>148</b>	<b>101</b>	<b>21</b>	<b>97</b>	<b>90</b>
Critical (15%)	-47	<b>584</b>	<b>490</b>	<b>212</b>	<b>157</b>	<b>42</b>	<b>23</b>	<b>76</b>	<b>93</b>	-13	-31	<b>16</b>

a Based on the 82-year simulation period.

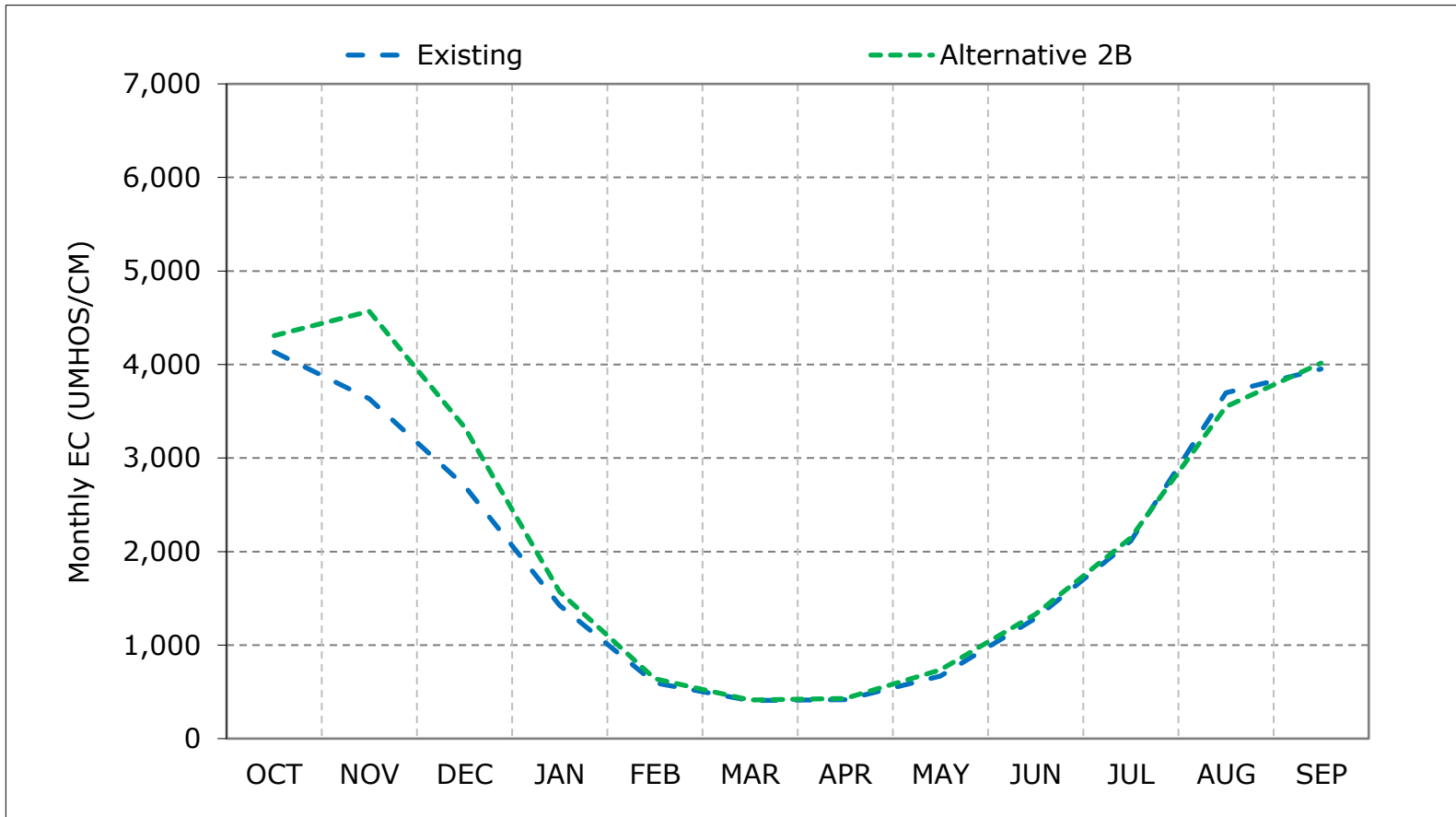
b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

d Positive differences are highted in red color which indicate increase in Salinity (EC).



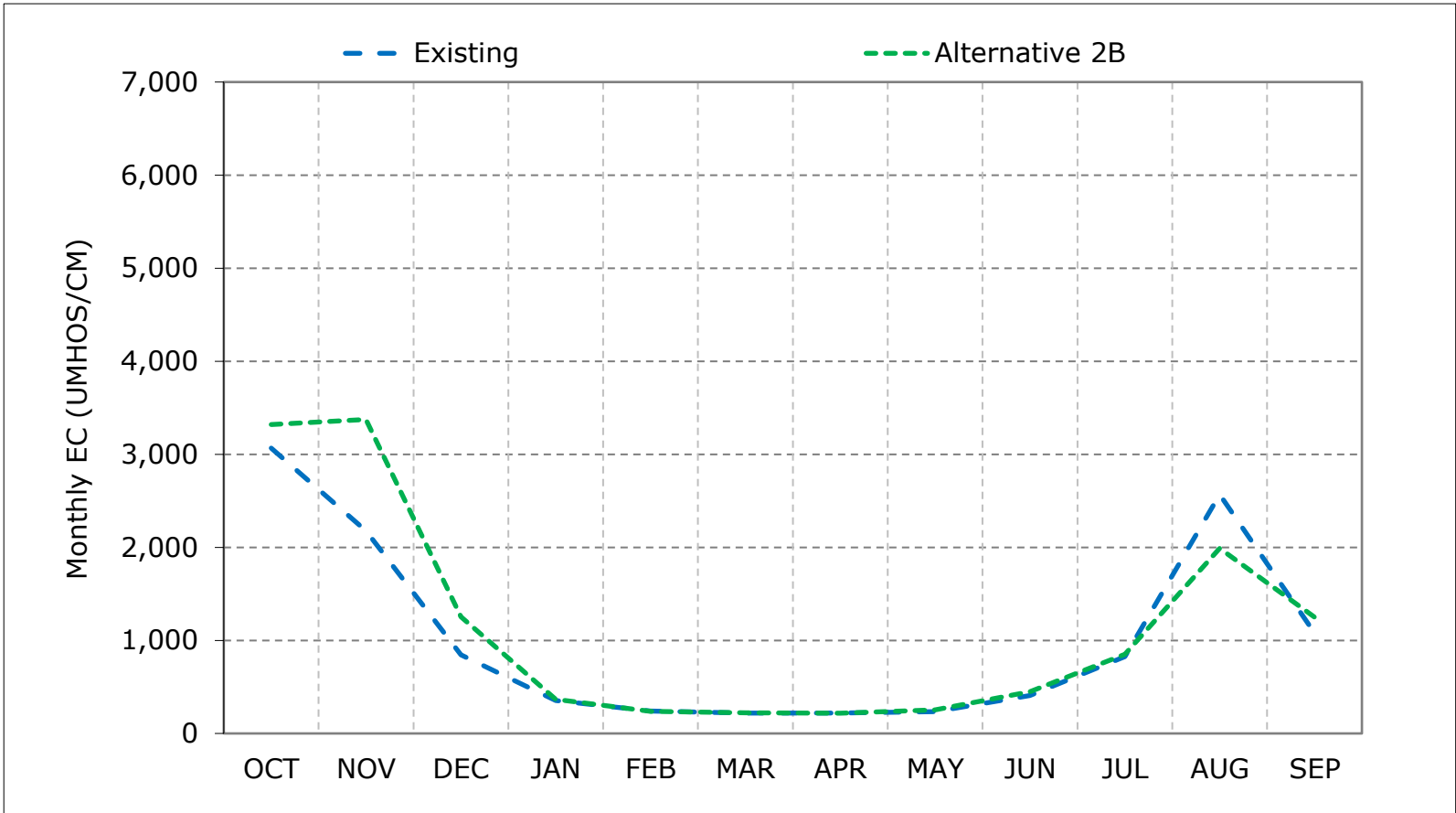
**Figure 11-1. San Joaquin River at Antioch Salinity, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

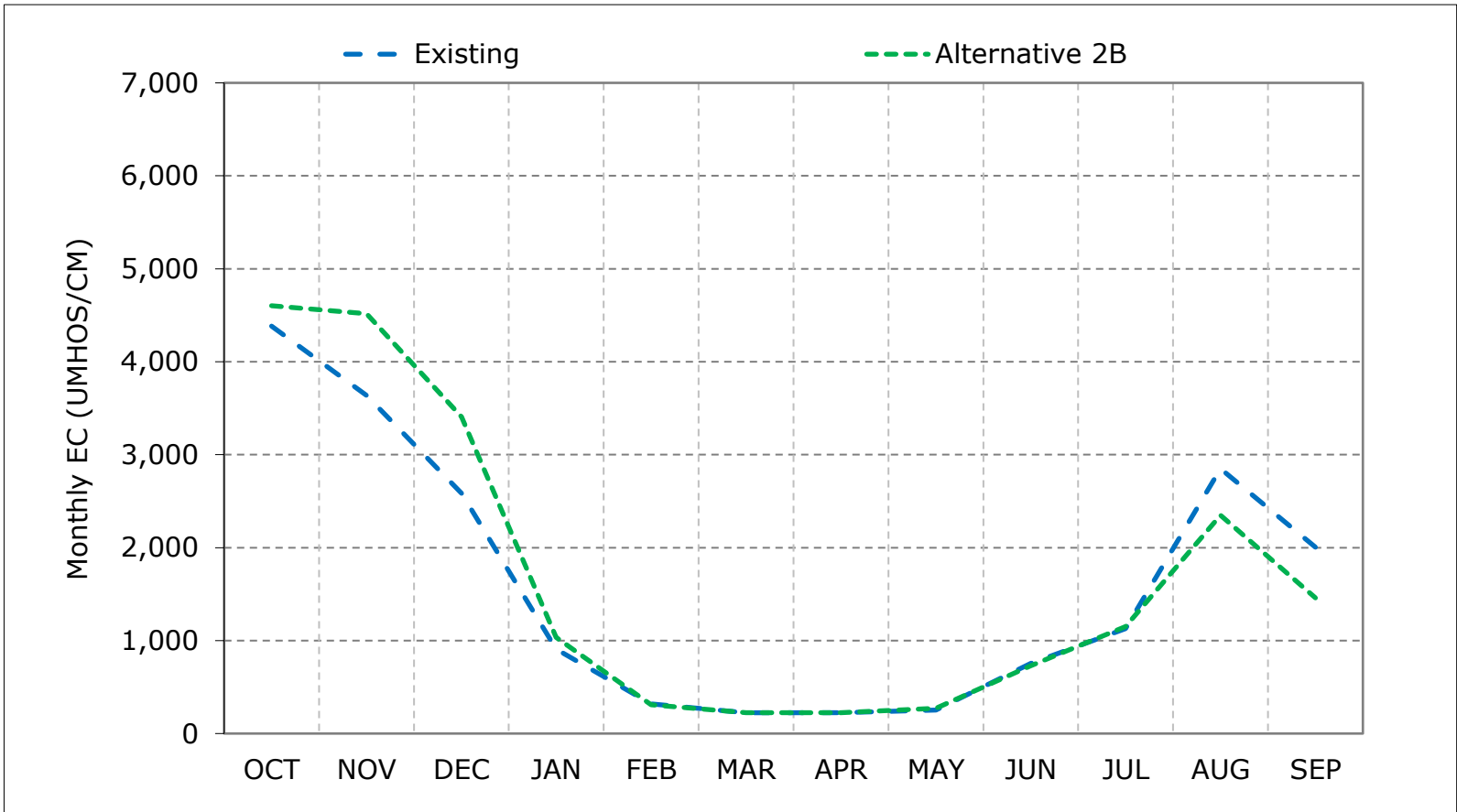
**Figure 11-2. San Joaquin River at Antioch Salinity, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

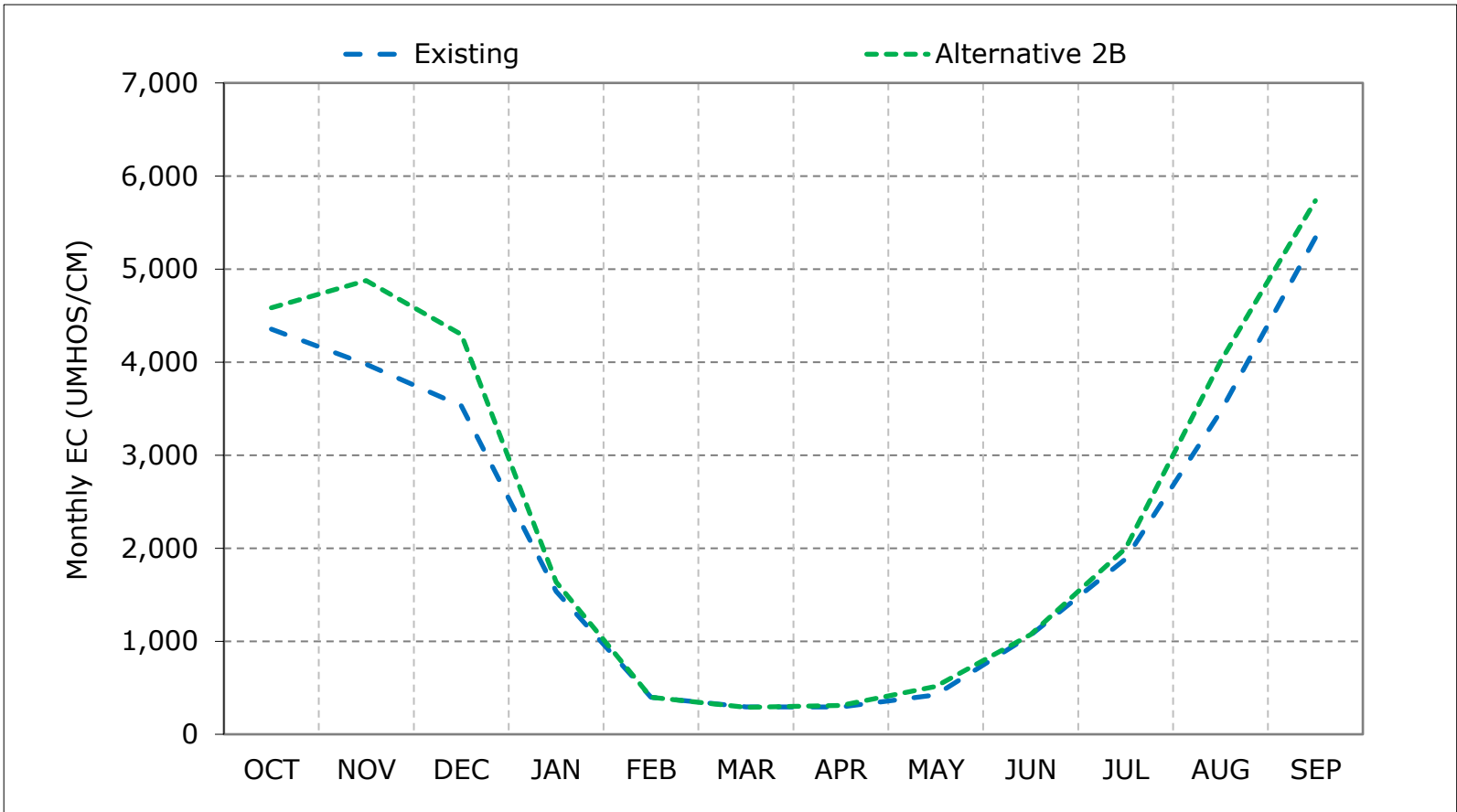
**Figure 11-3. San Joaquin River at Antioch Salinity, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

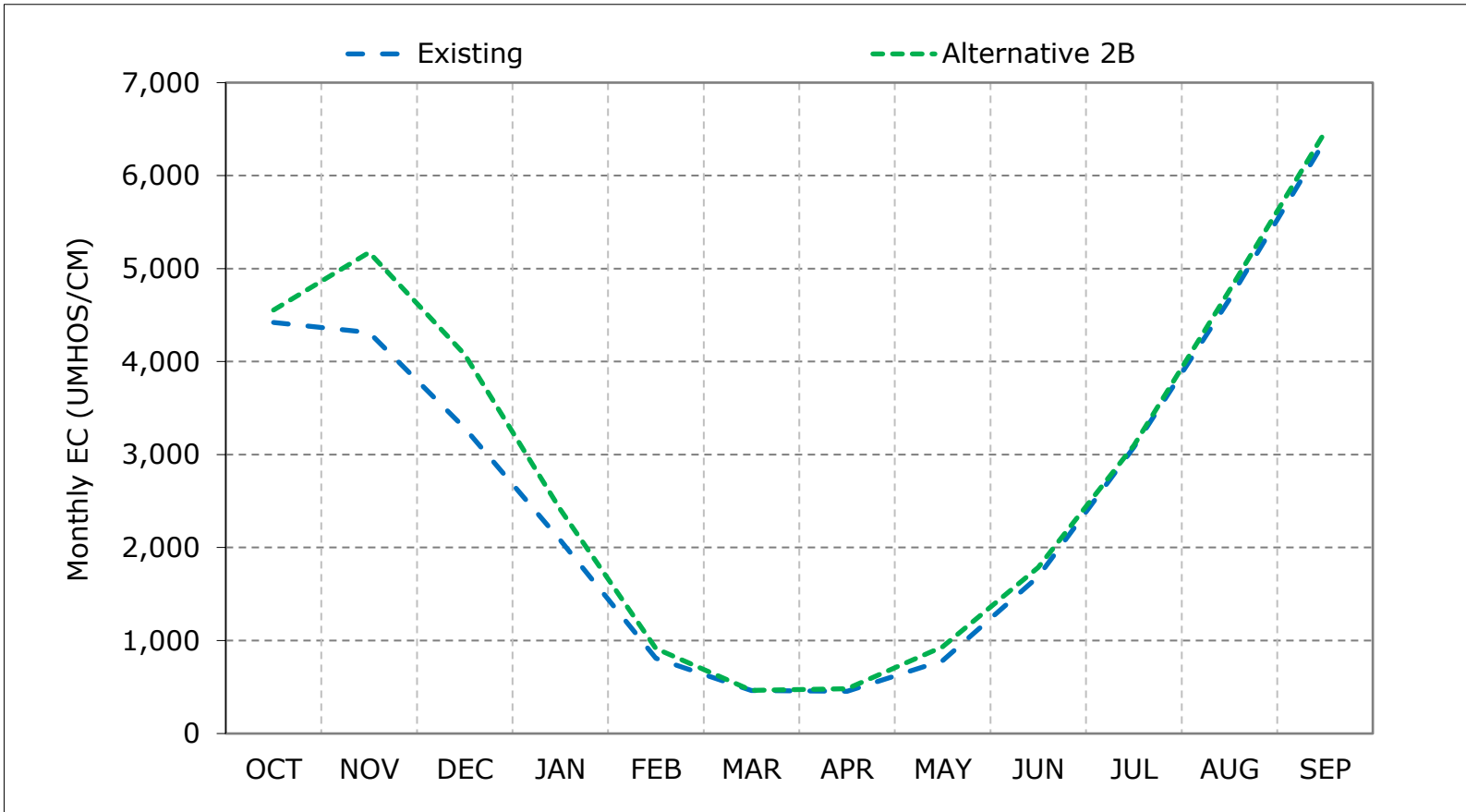
**Figure 11-4. San Joaquin River at Antioch Salinity, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

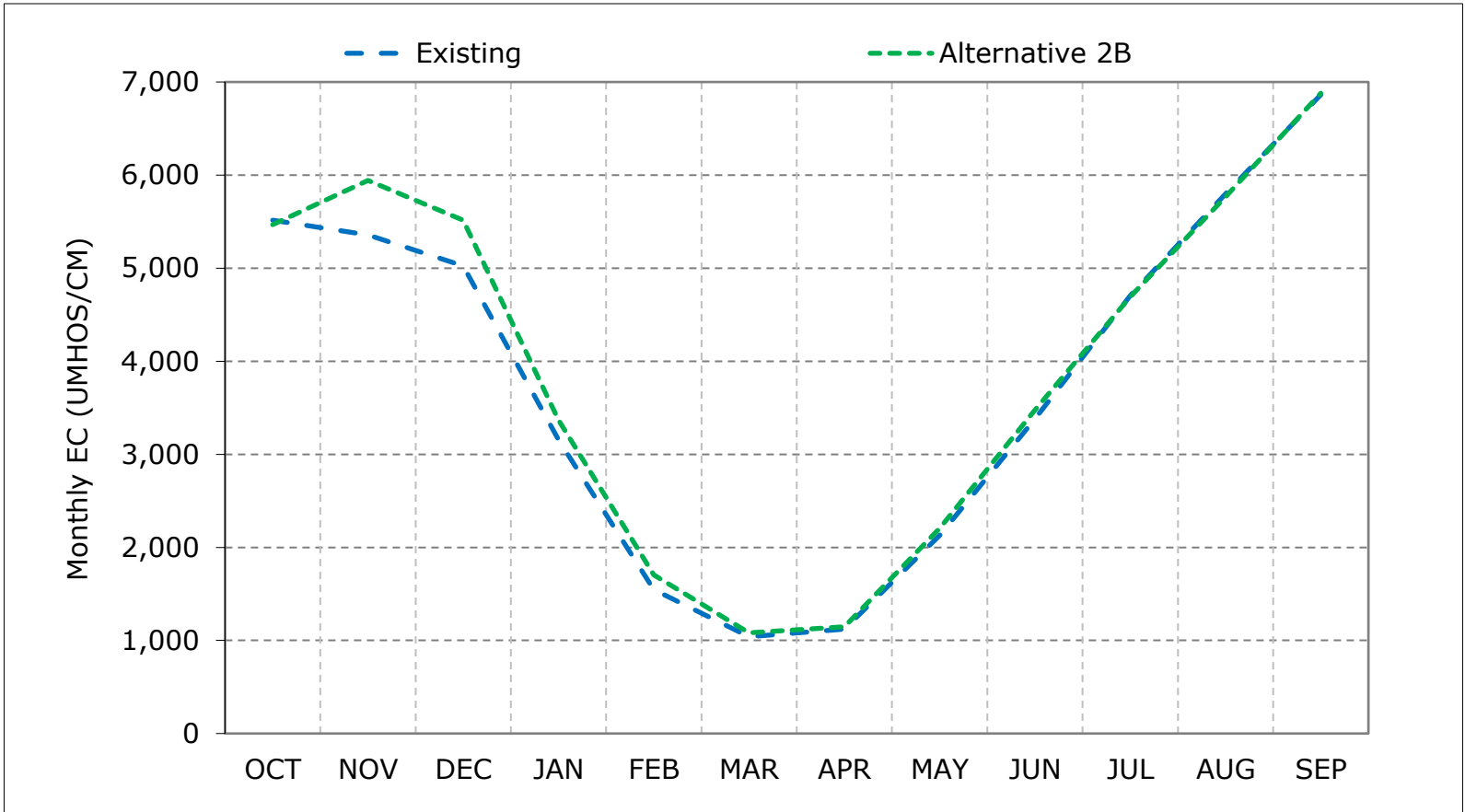
**Figure 11-5. San Joaquin River at Antioch Salinity, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

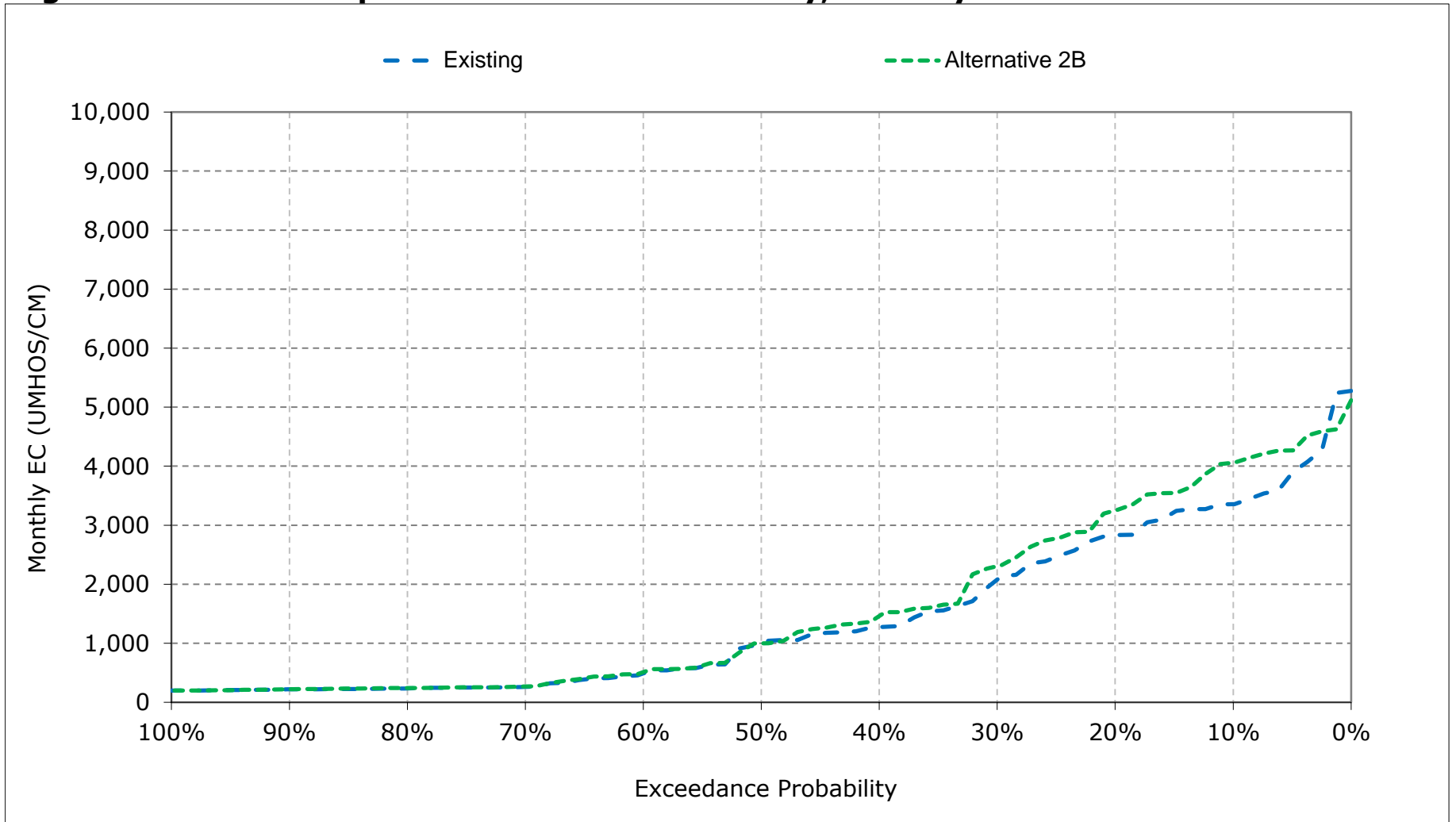
**Figure 11-6. San Joaquin River at Antioch Salinity, Critical Year Average EC**



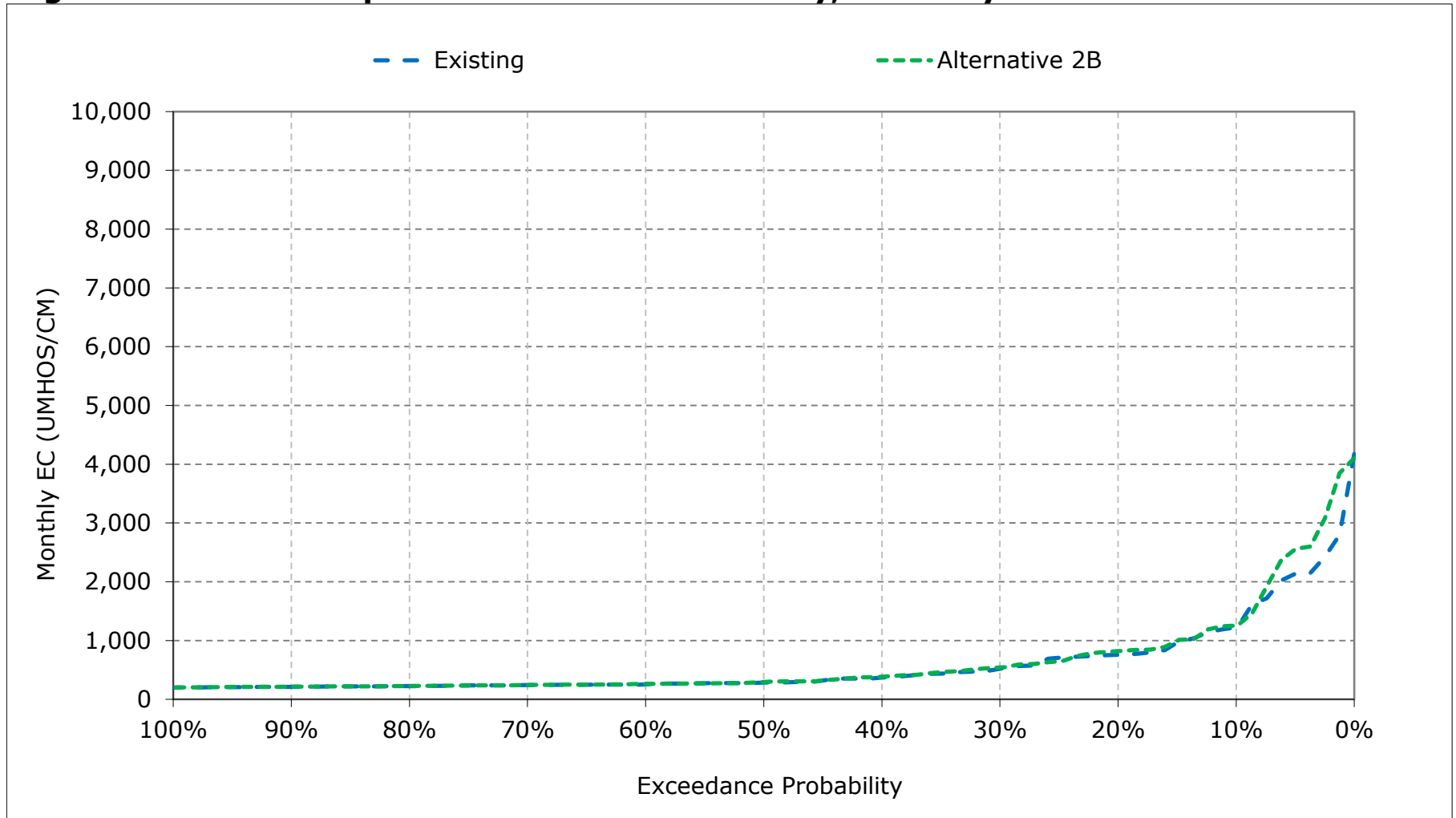
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

**Figure 11-7. San Joaquin River at Antioch Salinity, January EC**

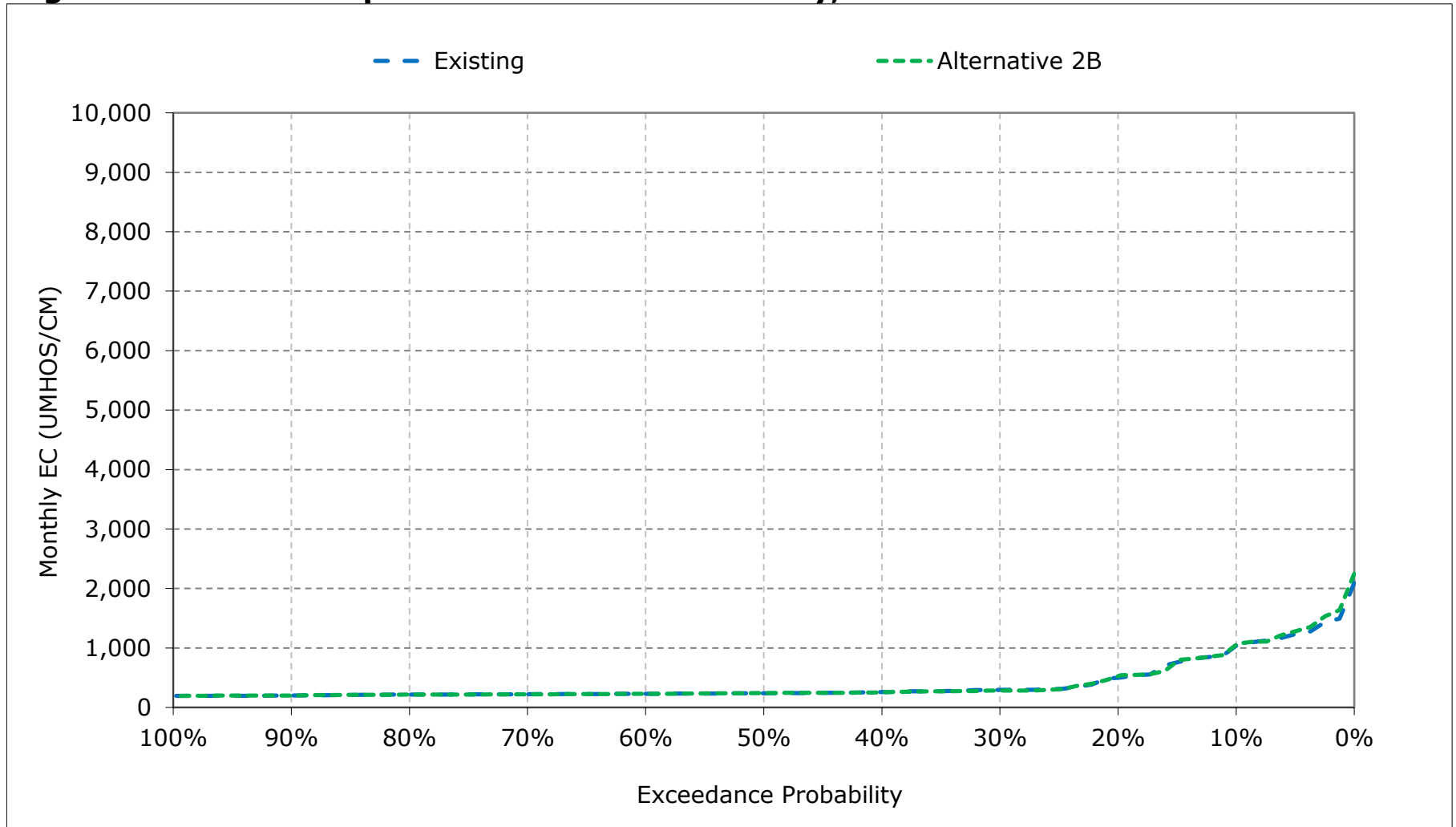


**Figure 11-8. San Joaquin River at Antioch Salinity, February EC**

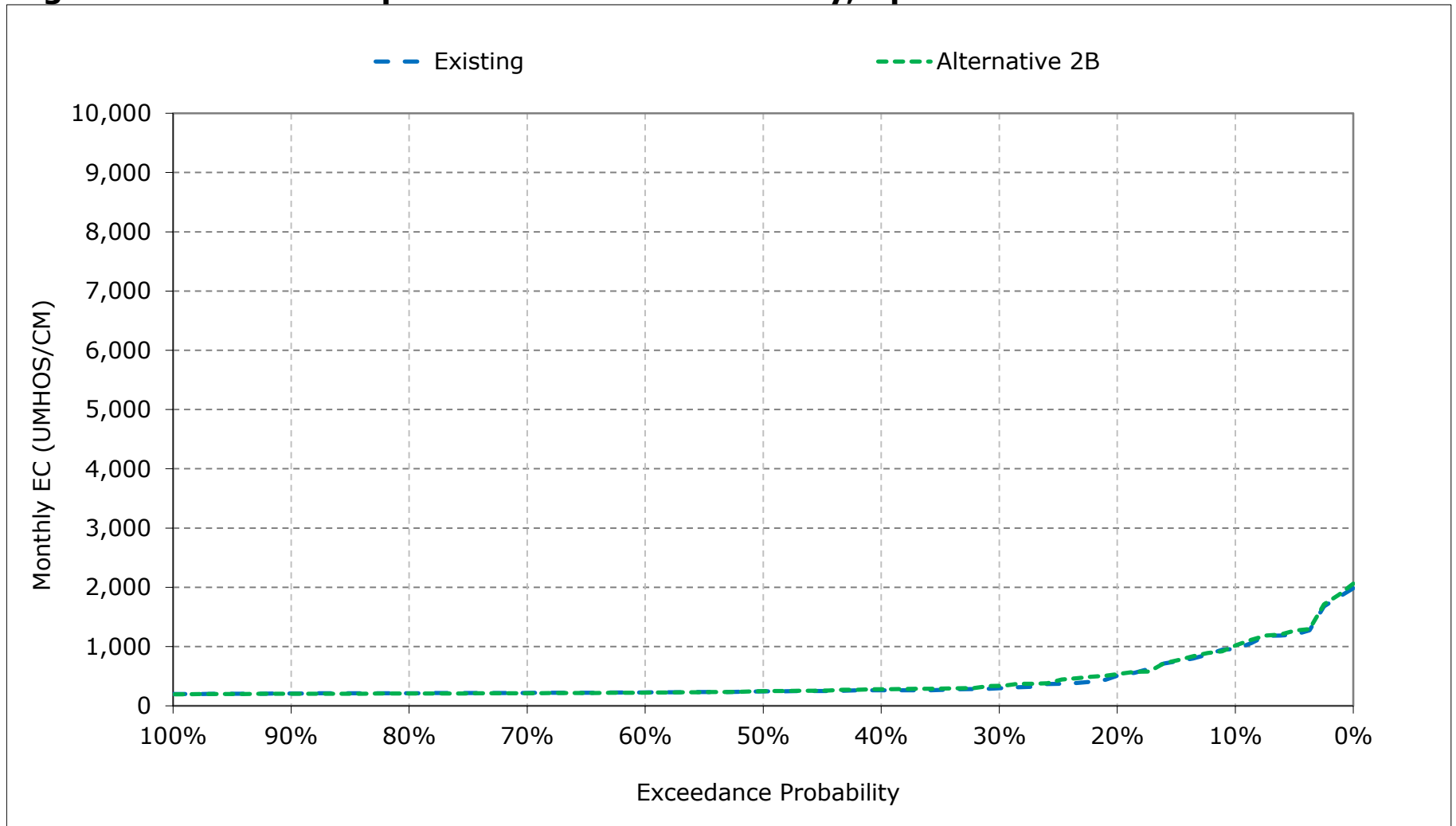




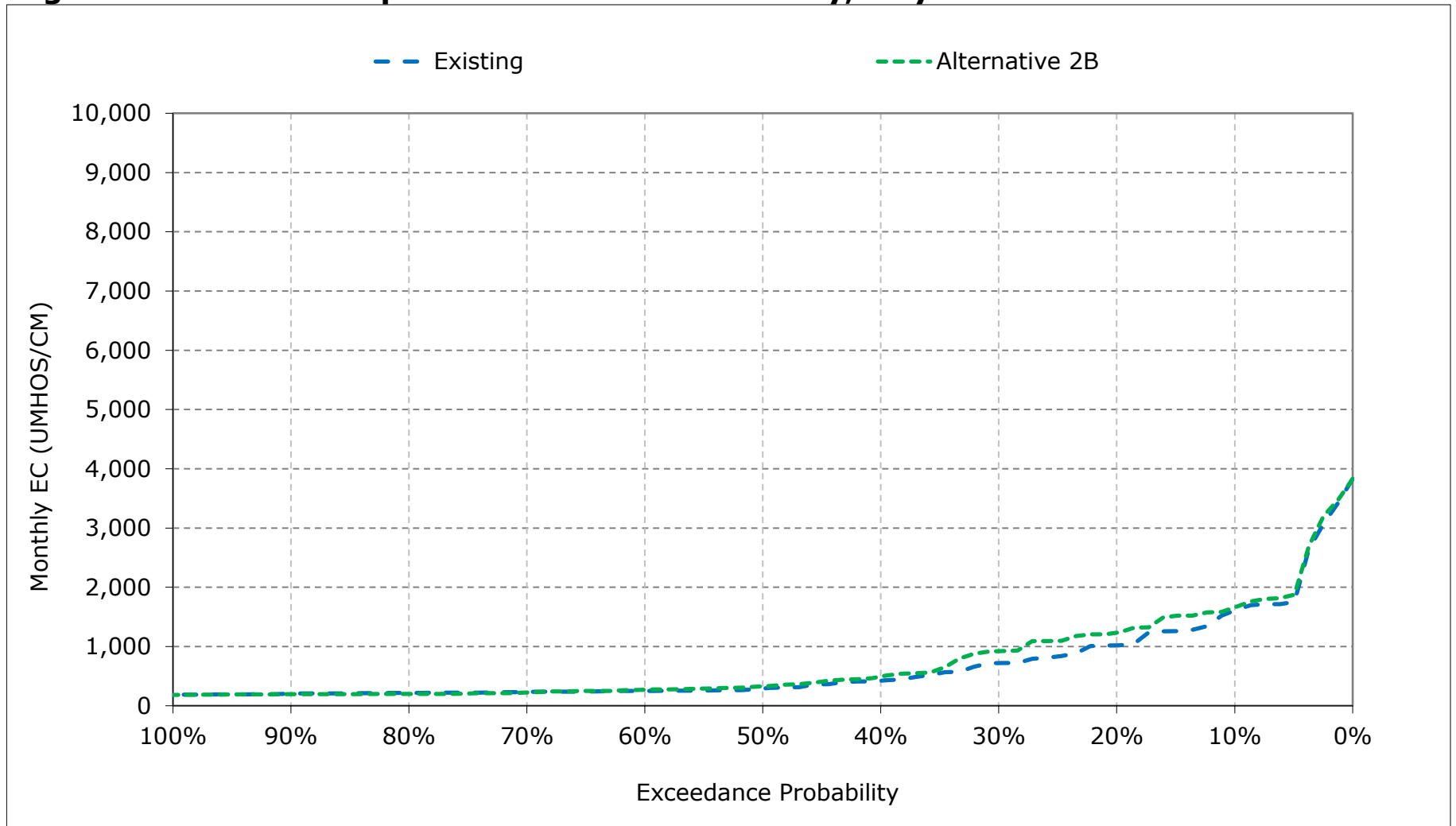
**Figure 11-9. San Joaquin River at Antioch Salinity, March EC**



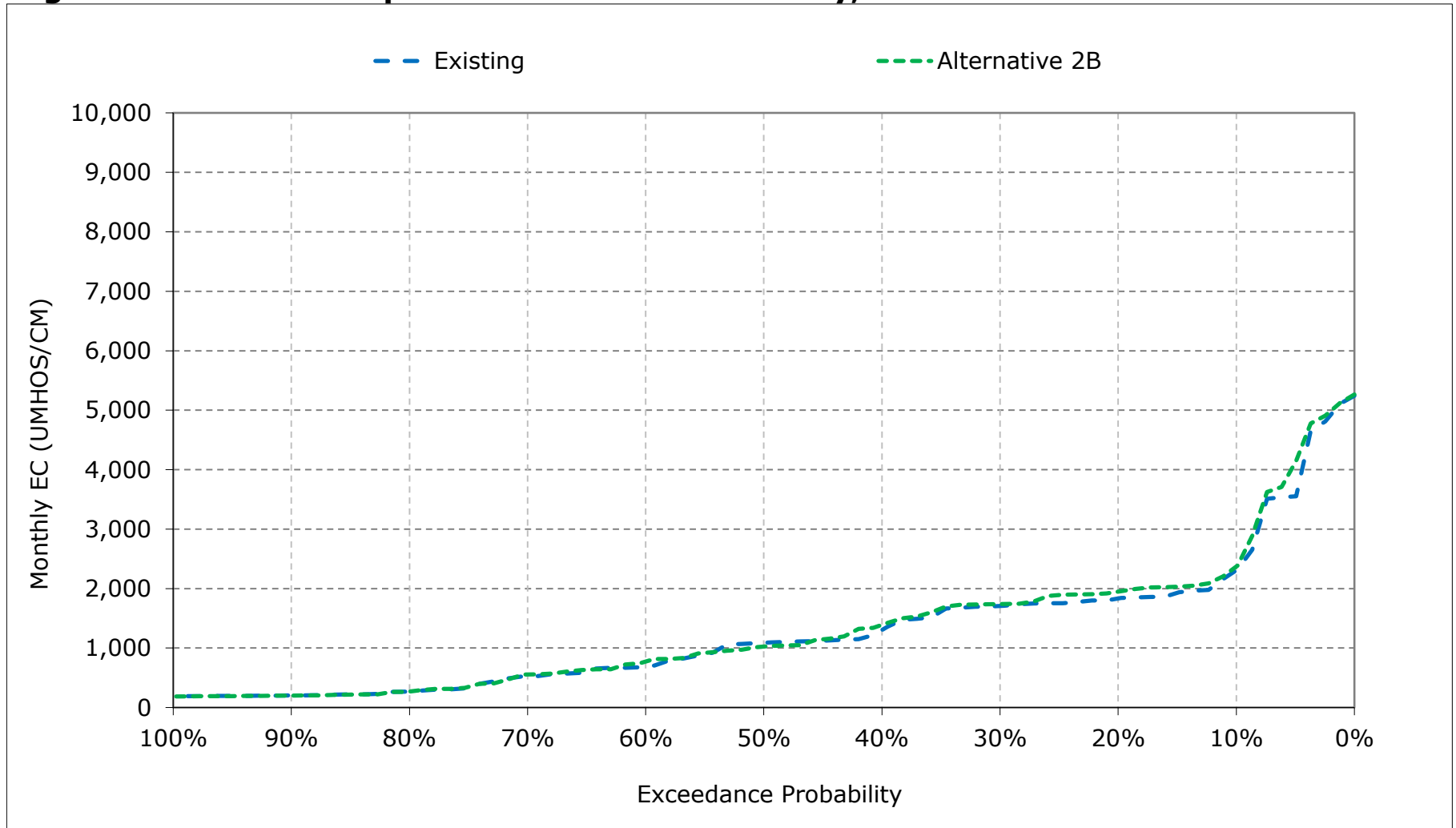
**Figure 11-10. San Joaquin River at Antioch Salinity, April EC**



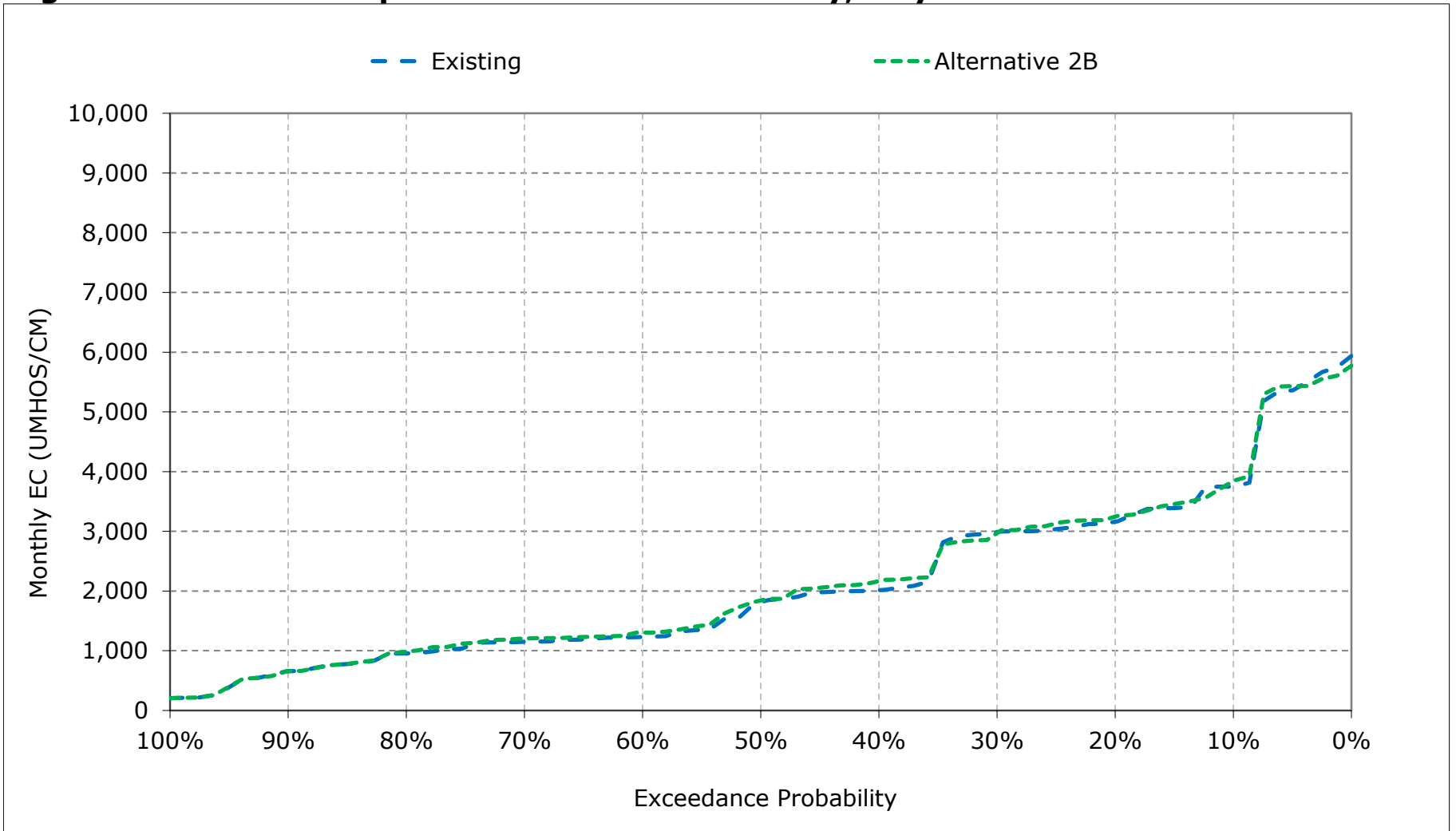
**Figure 11-11. San Joaquin River at Antioch Salinity, May EC**



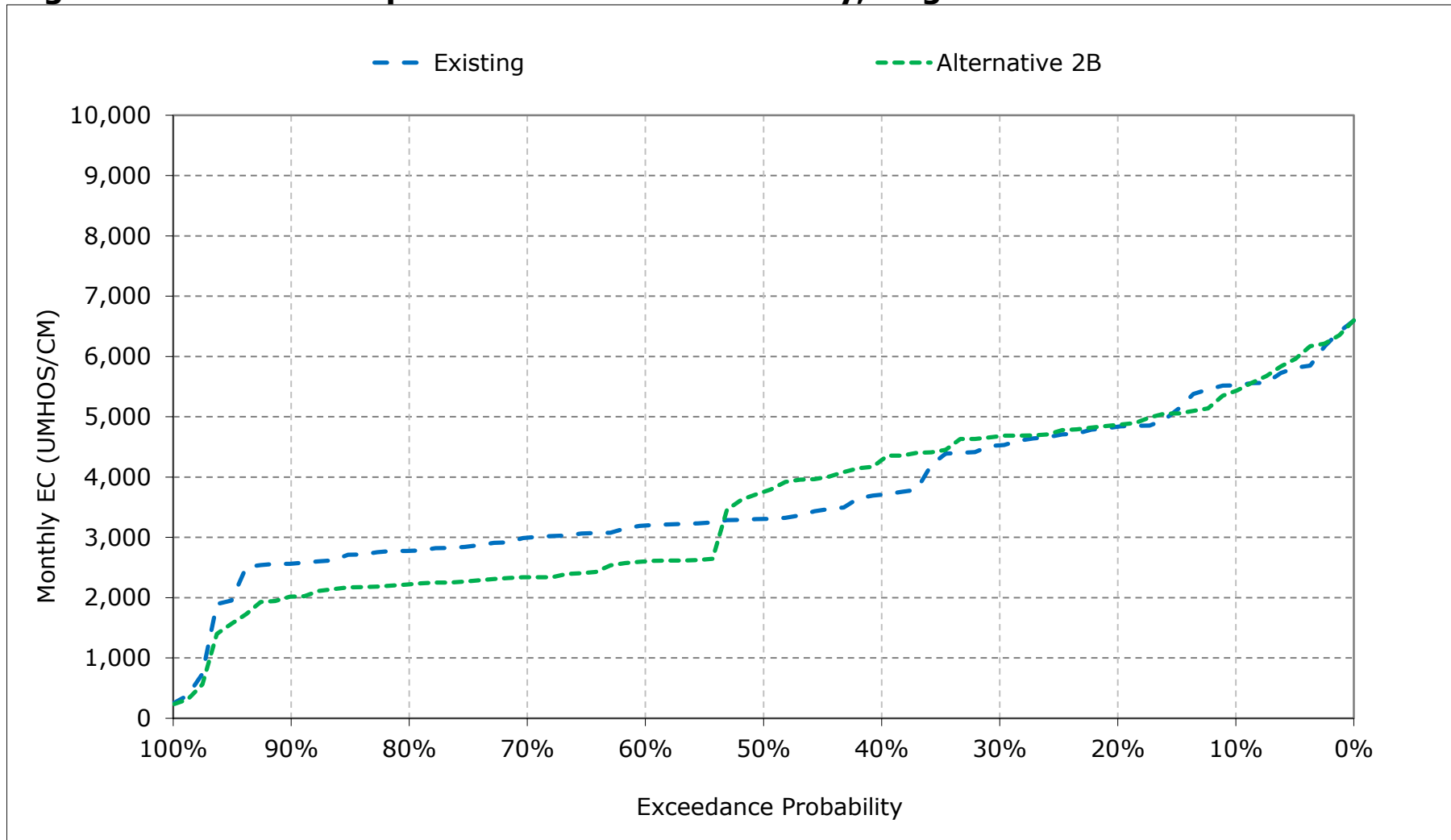
**Figure 11-12. San Joaquin River at Antioch Salinity, June EC**



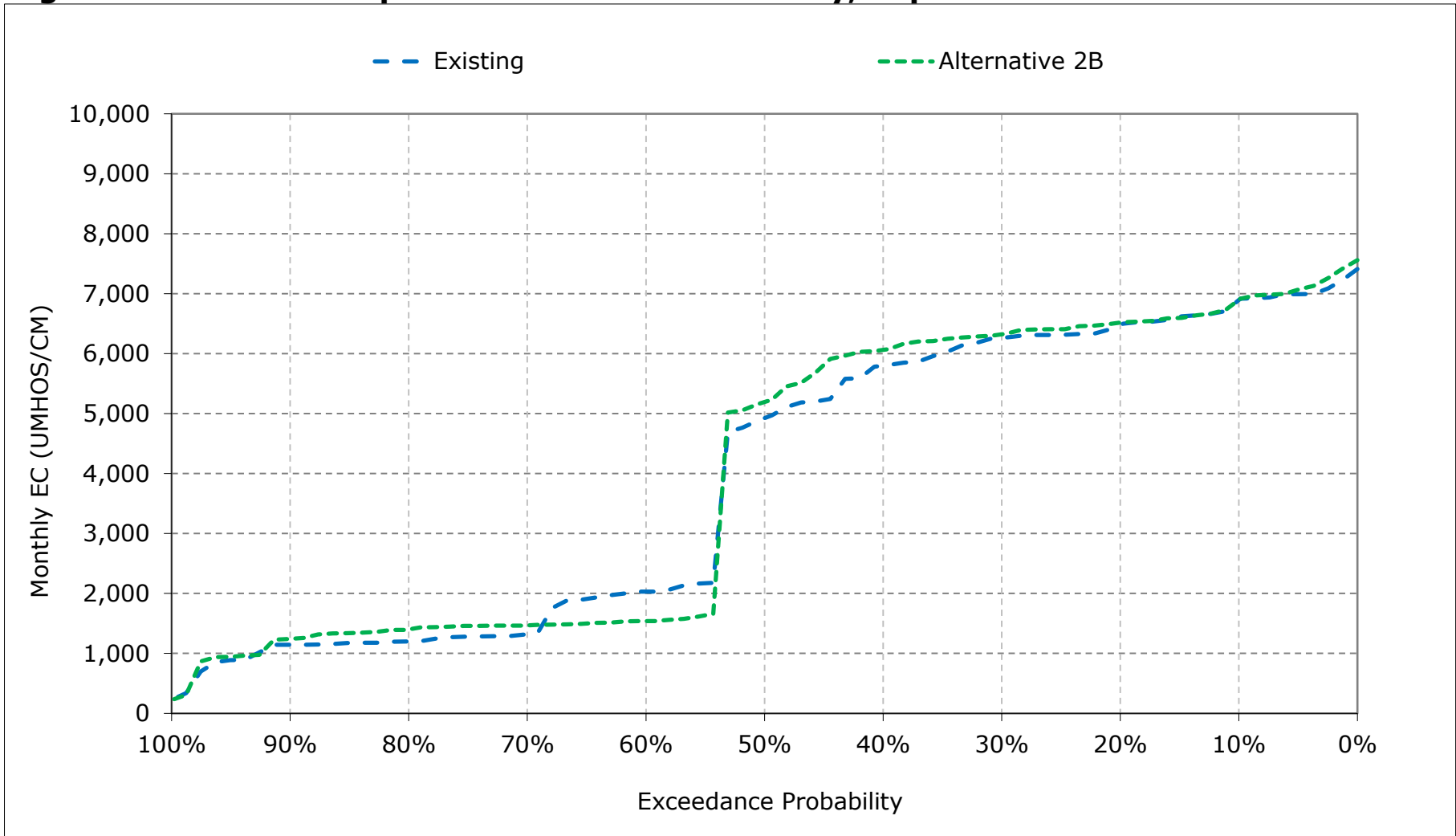
**Figure 11-13. San Joaquin River at Antioch Salinity, July EC**



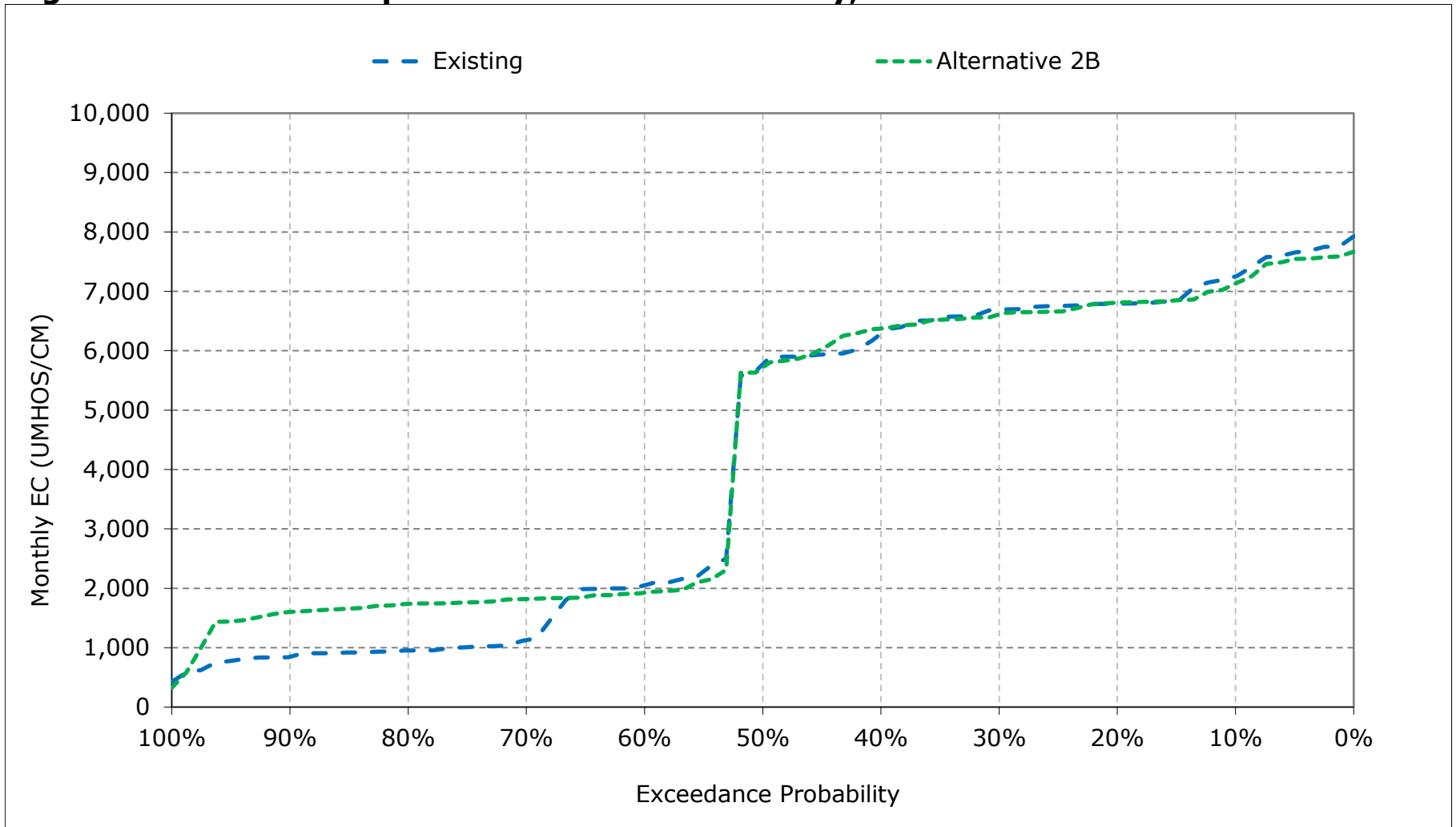
**Figure 11-14. San Joaquin River at Antioch Salinity, August EC**



**Figure 11-15. San Joaquin River at Antioch Salinity, September EC**

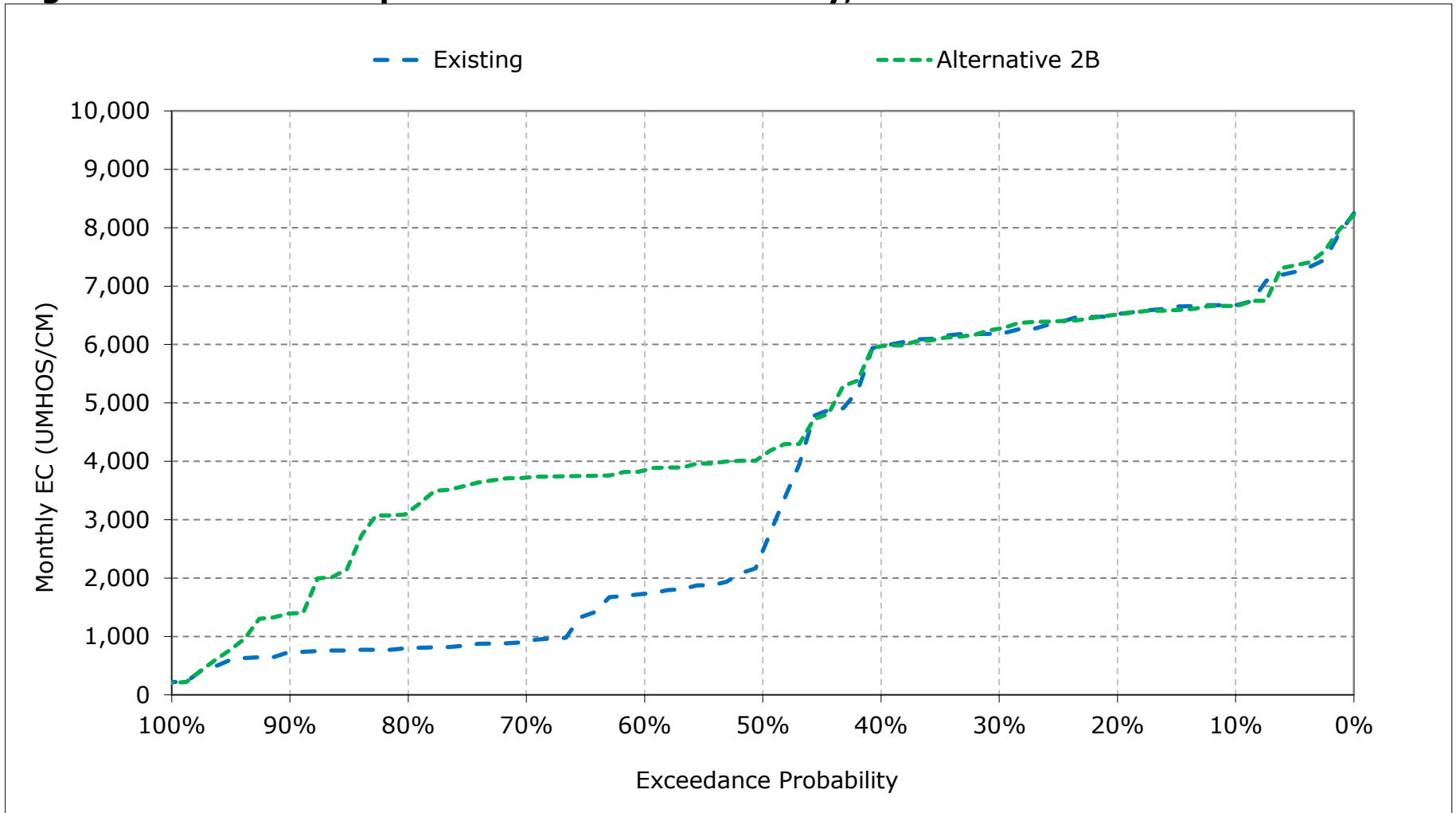


**Figure 11-16. San Joaquin River at Antioch Salinity, October EC**

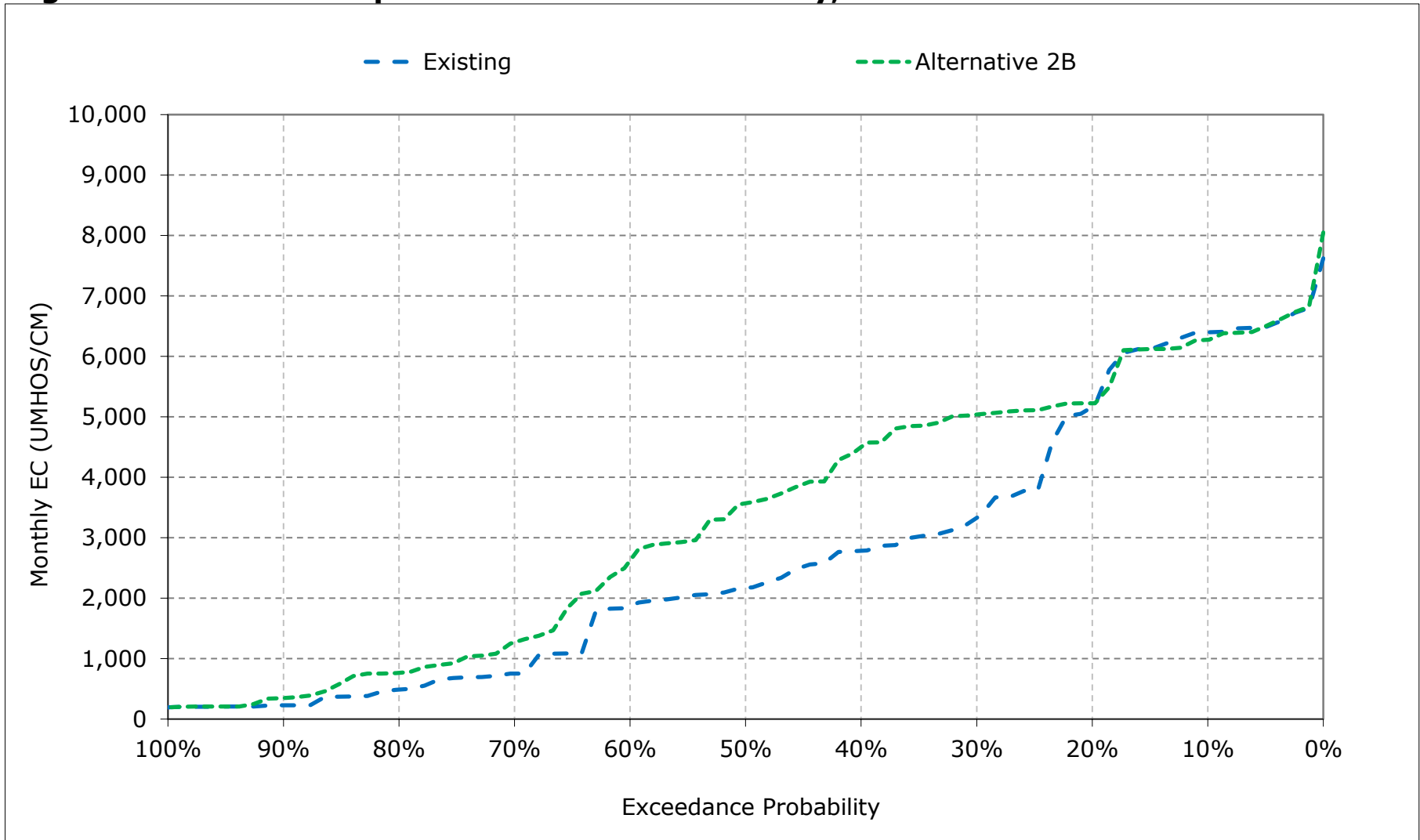




**Figure 11-17. San Joaquin River at Antioch Salinity, November EC**



**Figure 11-18. San Joaquin River at Antioch Salinity, December EC**



**Table 12-1. San Joaquin River at Jersey Point Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,437	2,408	2,326	1,362	568	339	307	395	562	1,431	1,744	2,423
20%	2,258	2,253	2,053	1,126	397	274	249	303	470	1,136	1,546	2,323
30%	2,157	2,128	1,532	889	309	244	236	266	446	888	1,473	2,249
40%	2,064	1,889	1,271	674	290	236	230	247	365	808	1,374	2,127
50%	1,775	1,285	831	515	270	228	224	240	311	595	1,300	1,910
60%	562	637	743	352	252	222	221	233	256	491	1,208	1,028
70%	369	399	507	264	237	214	219	227	231	442	1,148	967
80%	312	322	308	234	219	209	214	222	209	337	1,065	909
90%	287	267	215	218	213	200	209	207	203	246	1,000	876
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	1,354	1,310	1,133	668	342	255	243	283	401	754	1,304	1,613
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	1,021	898	480	277	234	219	218	215	223	335	990	819
Above Normal (15%)	1,495	1,286	1,114	516	267	222	224	229	276	429	1,124	942
Below Normal (17%)	1,417	1,465	1,437	744	289	233	232	247	328	746	1,402	2,286
Dry (22%)	1,430	1,529	1,355	865	391	256	239	277	449	1,141	1,475	2,261
Critical (15%)	1,747	1,716	1,876	1,282	637	387	332	534	923	1,413	1,795	2,248

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,383	2,391	2,472	1,599	624	350	306	420	598	1,441	1,784	2,594
20%	2,294	2,254	2,314	1,328	414	275	246	336	507	1,096	1,663	2,472
30%	2,154	2,108	2,188	1,085	329	246	229	273	450	905	1,535	2,347
40%	2,029	1,891	1,922	832	297	239	224	232	363	769	1,451	2,159
50%	1,769	1,747	1,612	513	274	232	218	223	293	566	1,298	1,970
60%	607	1,501	1,406	380	254	225	214	214	251	491	925	669
70%	540	1,449	746	269	236	217	210	205	227	451	792	609
80%	471	1,288	513	241	219	209	208	202	201	340	735	577
90%	403	720	275	225	213	203	204	194	197	246	614	479
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	1,397	1,683	1,483	750	366	261	239	284	408	750	1,193	1,521
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	1,094	1,375	730	295	235	221	211	204	223	337	660	505
Above Normal (15%)	1,557	1,635	1,541	610	274	226	216	211	258	430	809	625
Below Normal (17%)	1,491	1,820	1,843	830	293	233	225	244	319	717	1,567	2,497
Dry (22%)	1,438	1,858	1,827	1,052	445	262	238	294	473	1,123	1,518	2,317
Critical (15%)	1,721	1,976	2,124	1,329	711	411	342	561	964	1,445	1,808	2,282

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-54	-17	146	237	56	11	-1	25	36	10	40	171
20%	36	2	261	202	17	1	-4	33	38	-40	116	149
30%	-3	-20	656	196	19	1	-7	7	4	17	62	98
40%	-35	2	650	158	7	3	-7	-15	-2	-39	77	32
50%	-6	462	781	-2	4	3	-7	-18	-19	-29	-1	60
60%	44	864	663	29	2	4	-7	-18	-5	0	-282	-359
70%	171	1,050	238	5	-1	2	-8	-21	-4	9	-356	-358
80%	159	966	205	7	0	0	-6	-19	-8	3	-330	-332
90%	116	453	60	7	1	2	-5	-13	-5	0	-386	-397
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	43	373	351	82	25	6	-3	1	7	-3	-111	-93
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	73	477	249	18	1	2	-8	-11	-1	2	-331	-314
Above Normal (15%)	62	349	426	94	7	4	-8	-18	-18	2	-315	-317
Below Normal (17%)	74	355	406	86	5	0	-7	-3	-9	-29	165	211
Dry (22%)	8	329	472	188	54	6	-1	17	24	-18	43	56
Critical (15%)	-26	260	248	47	74	24	10	28	40	32	13	34

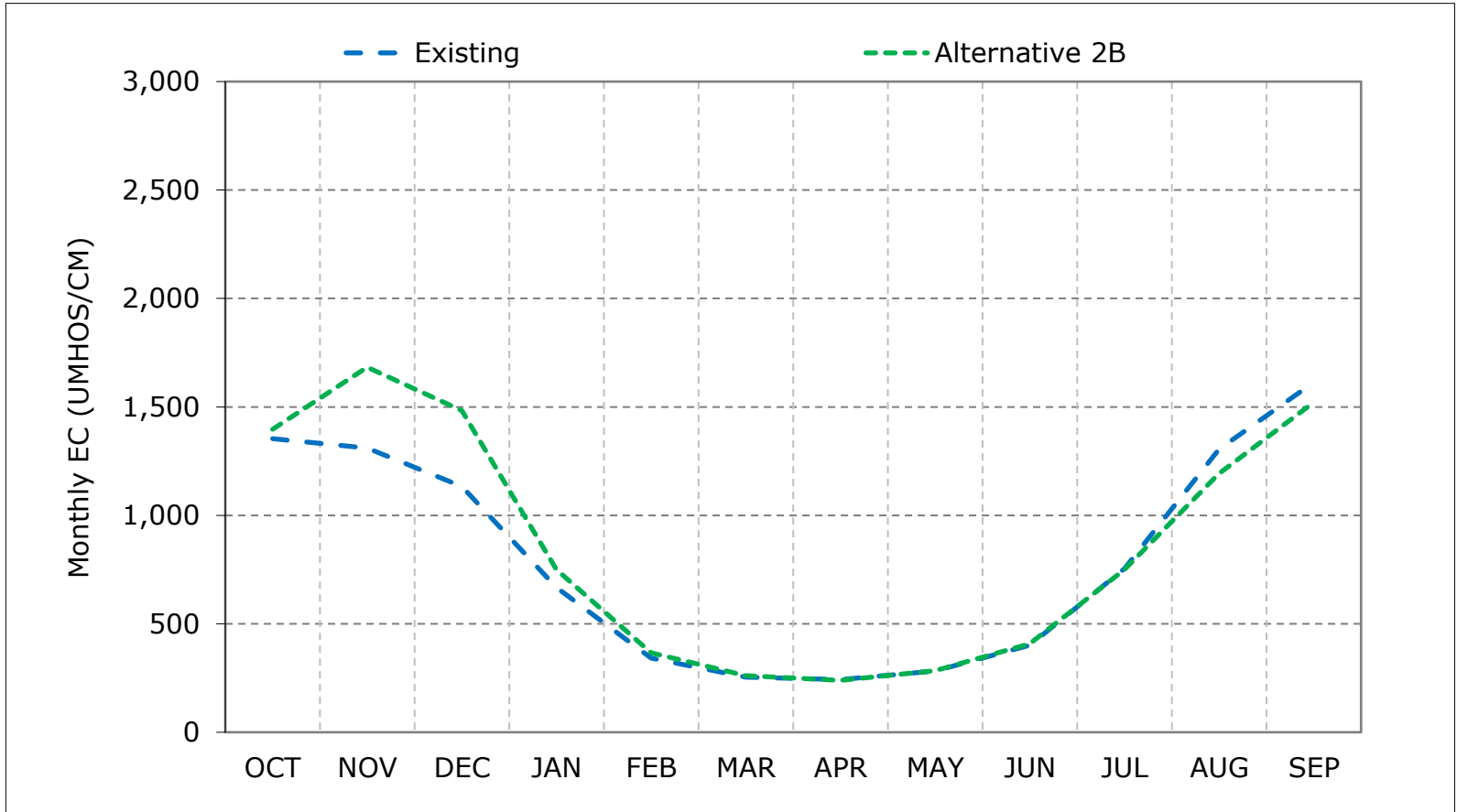
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

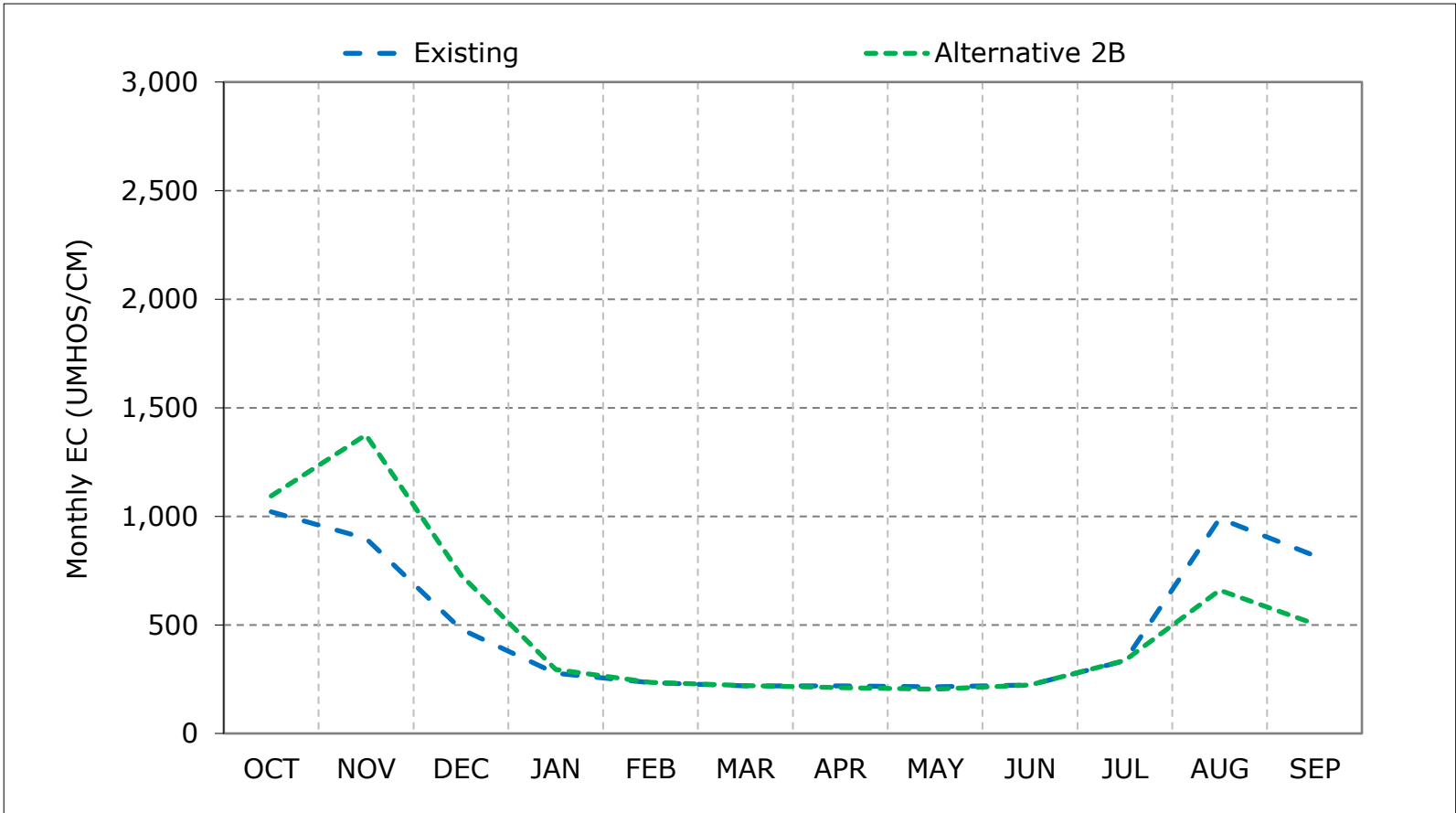
**Figure 12-1. San Joaquin River at Jersey Point Salinity, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

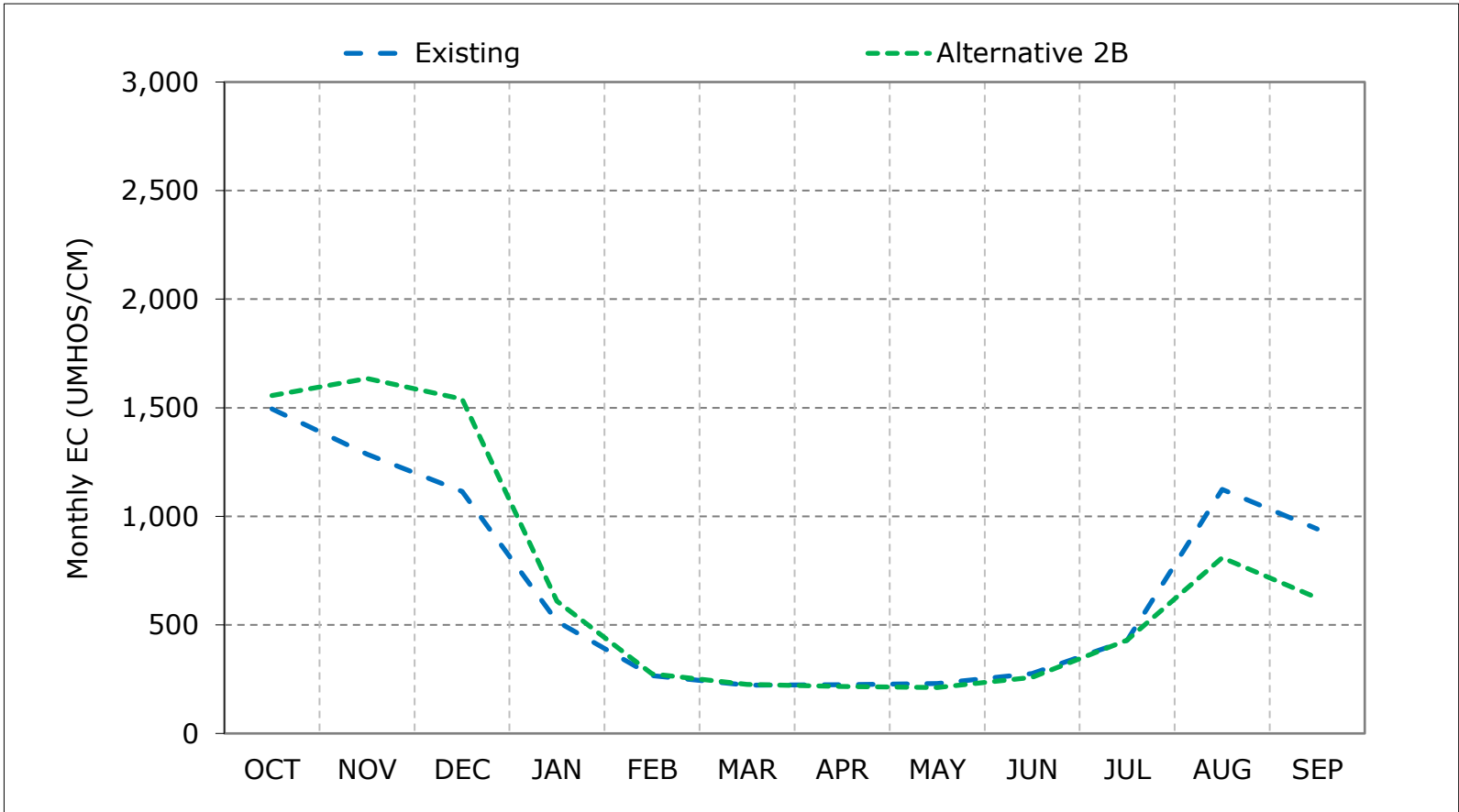
**Figure 12-2. San Joaquin River at Jersey Point Salinity, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

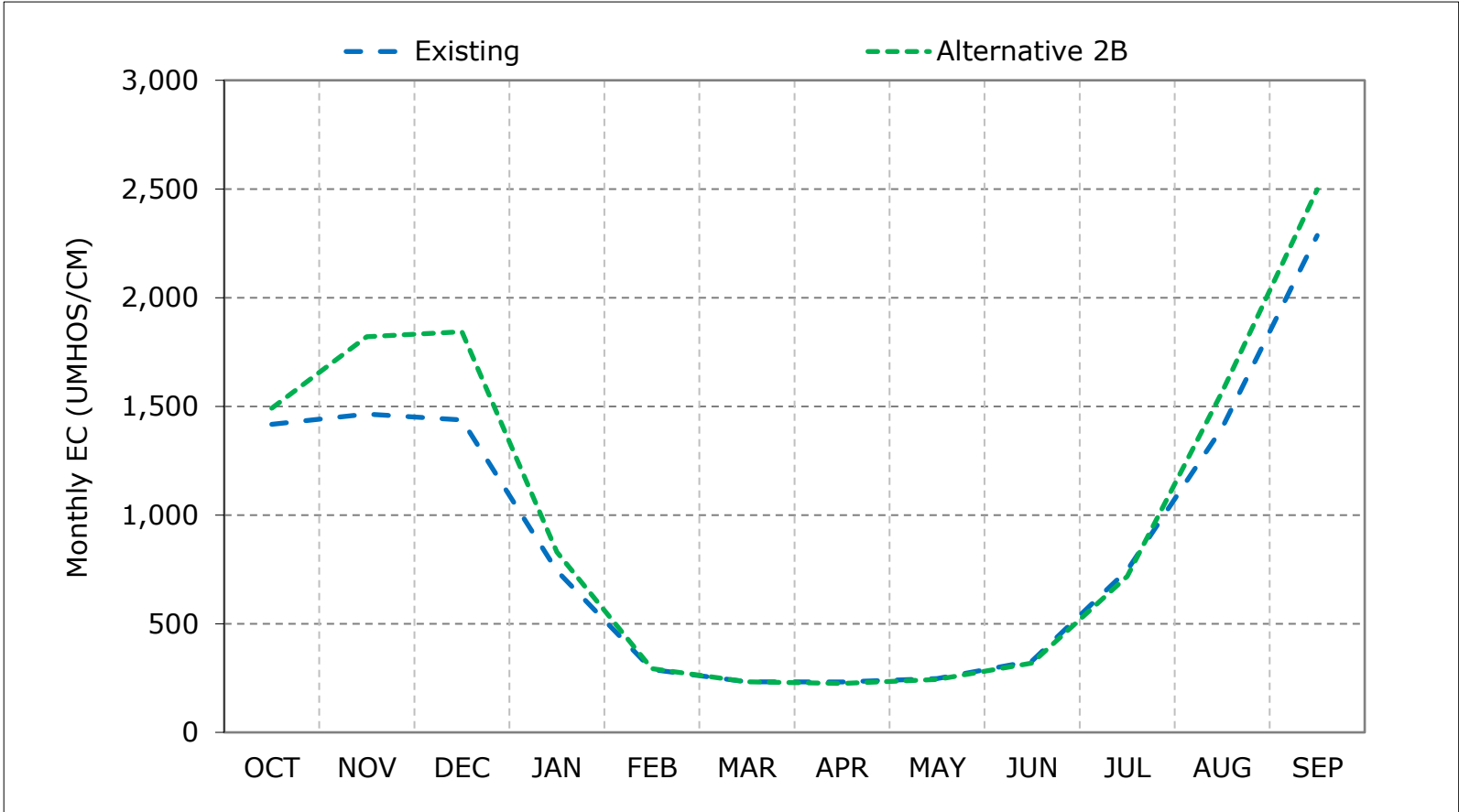
**Figure 12-3. San Joaquin River at Jersey Point Salinity, Above Normal Year Average**



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

\*These results are displayed with water year - year type sorting.

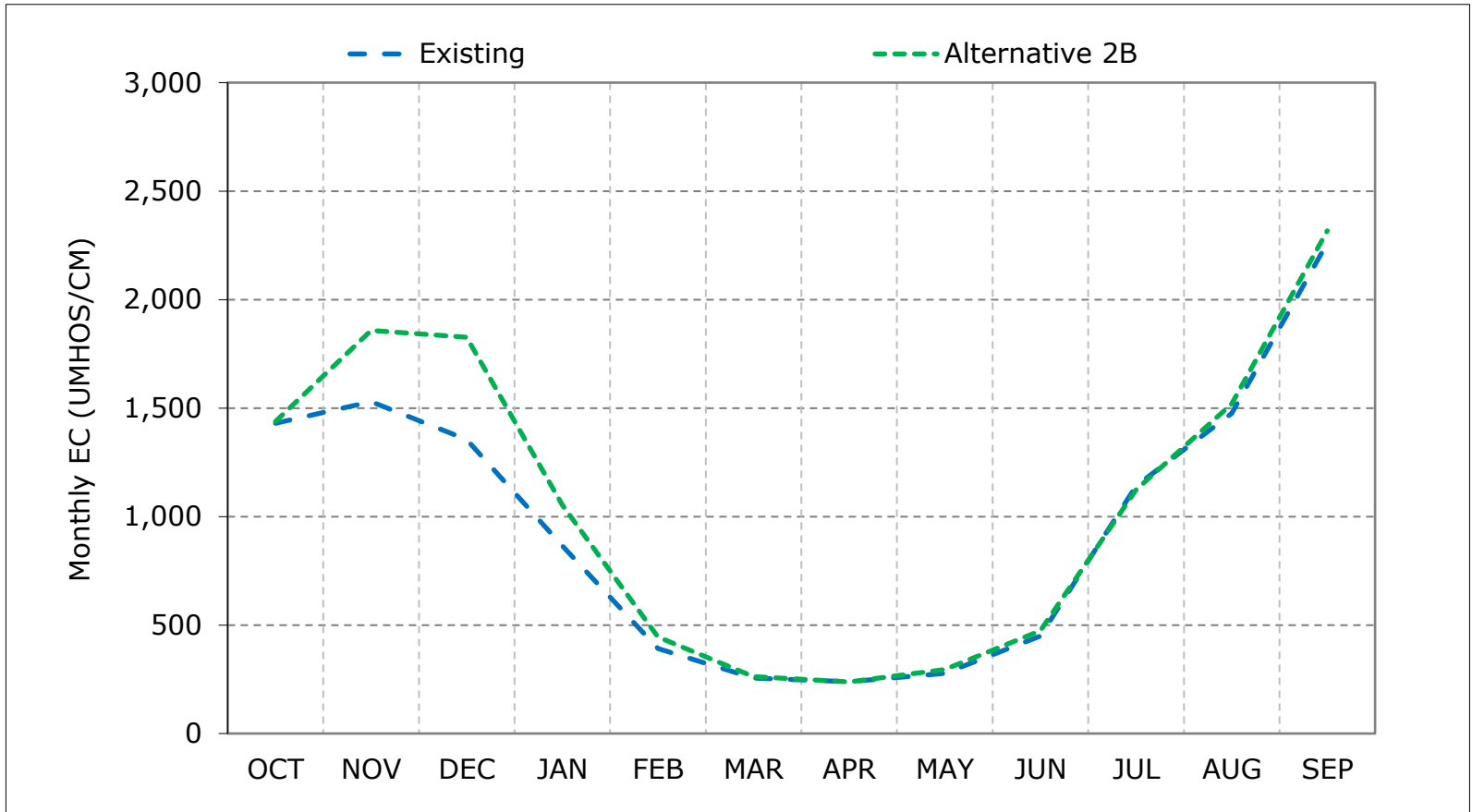
**Figure 12-4. San Joaquin River at Jersey Point Salinity, Below Normal Year Average**



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

\*These results are displayed with water year - year type sorting.

**Figure 12-5. San Joaquin River at Jersey Point Salinity, Dry Year Average EC**

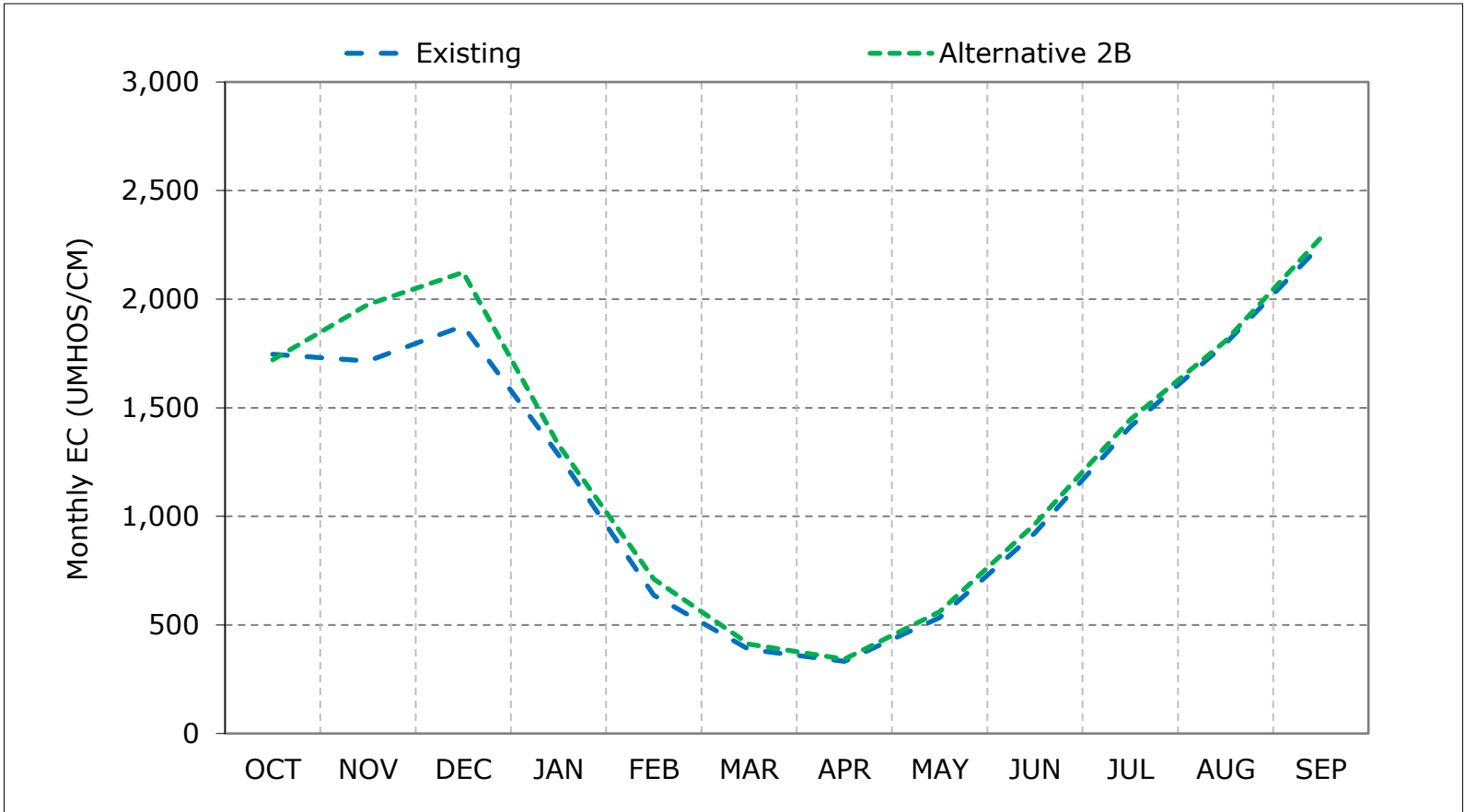


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



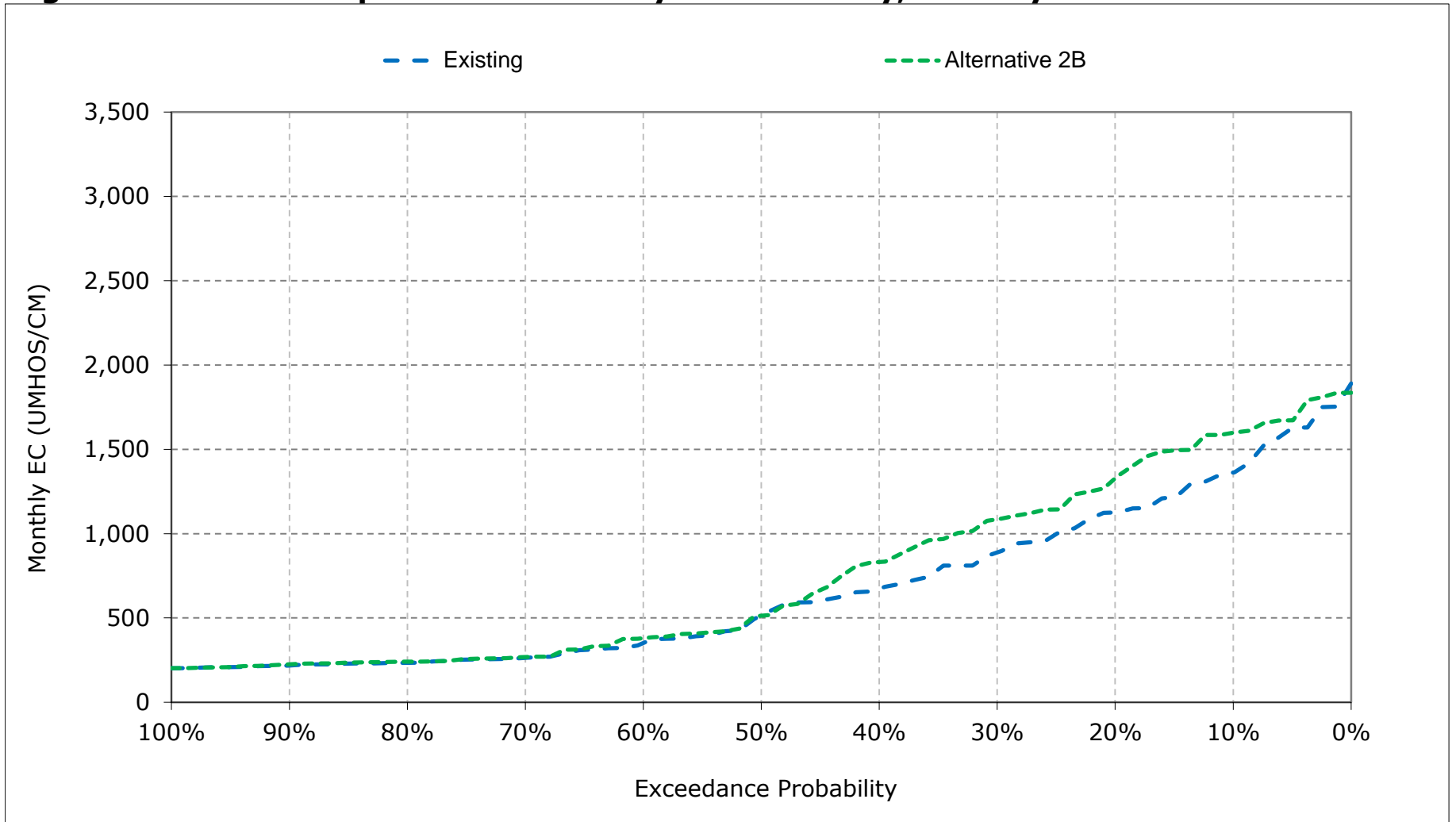
**Figure 12-6. San Joaquin River at Jersey Point Salinity, Critical Year Average EC**



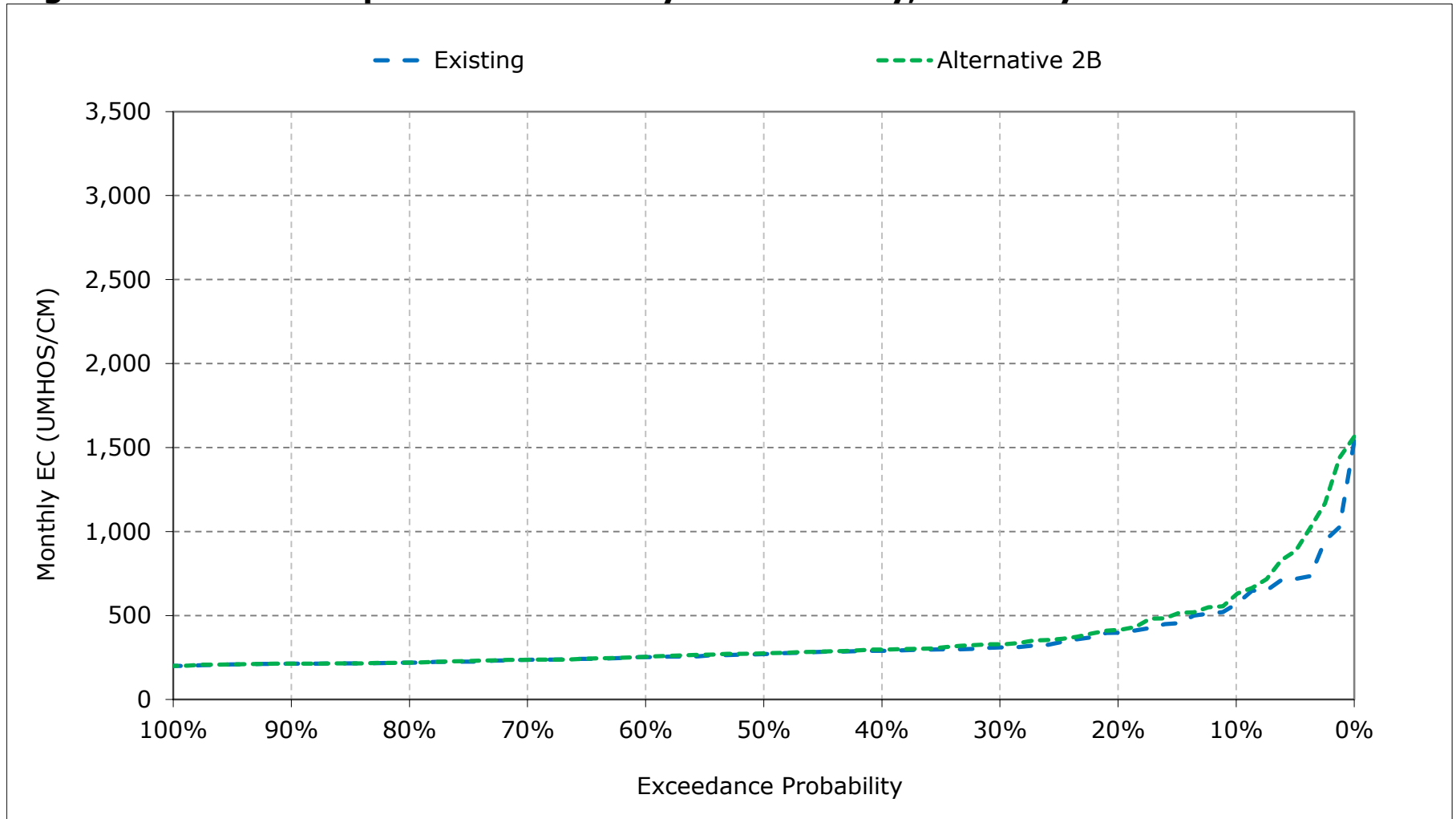
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

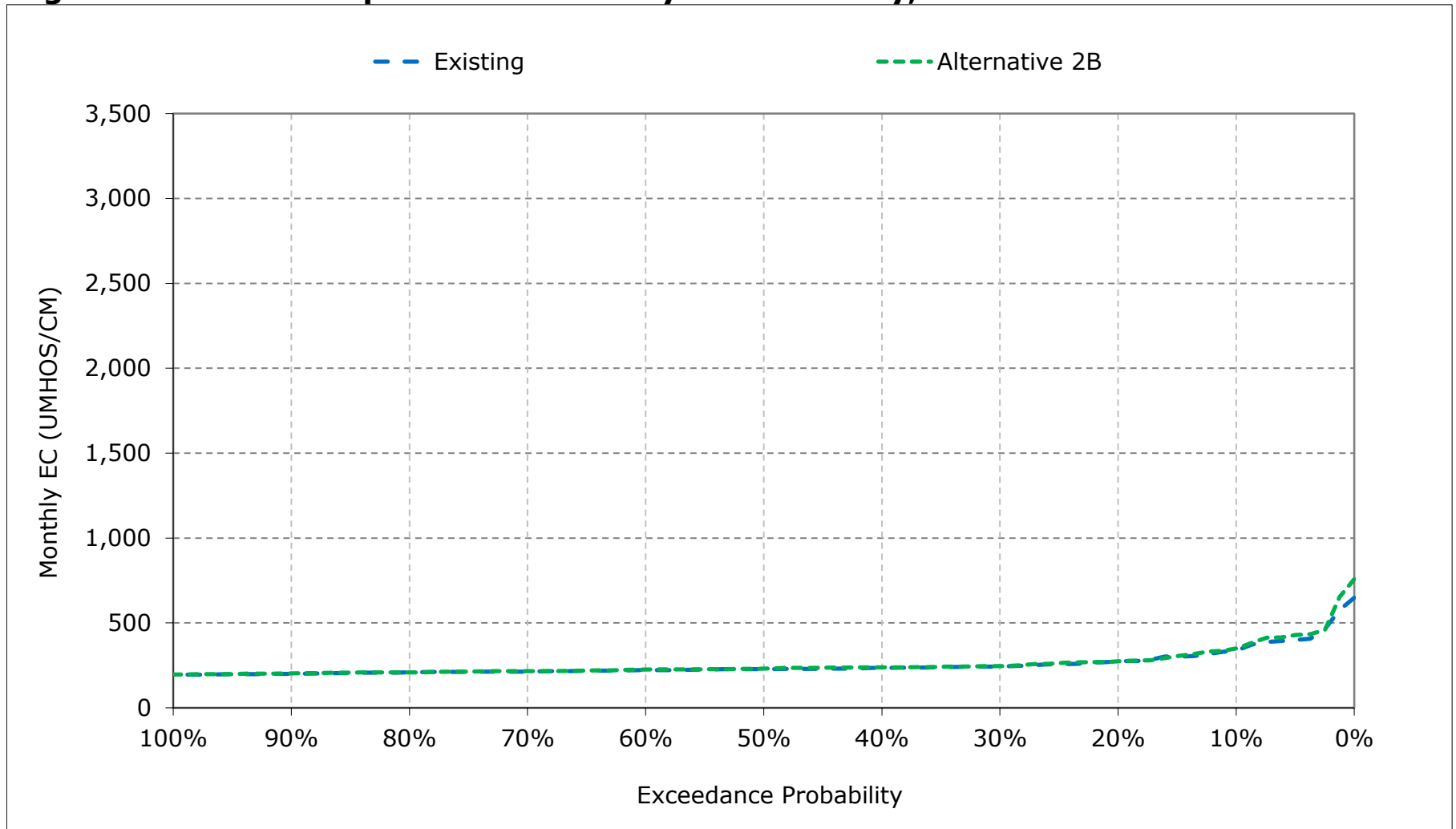
**Figure 12-7. San Joaquin River at Jersey Point Salinity, January EC**



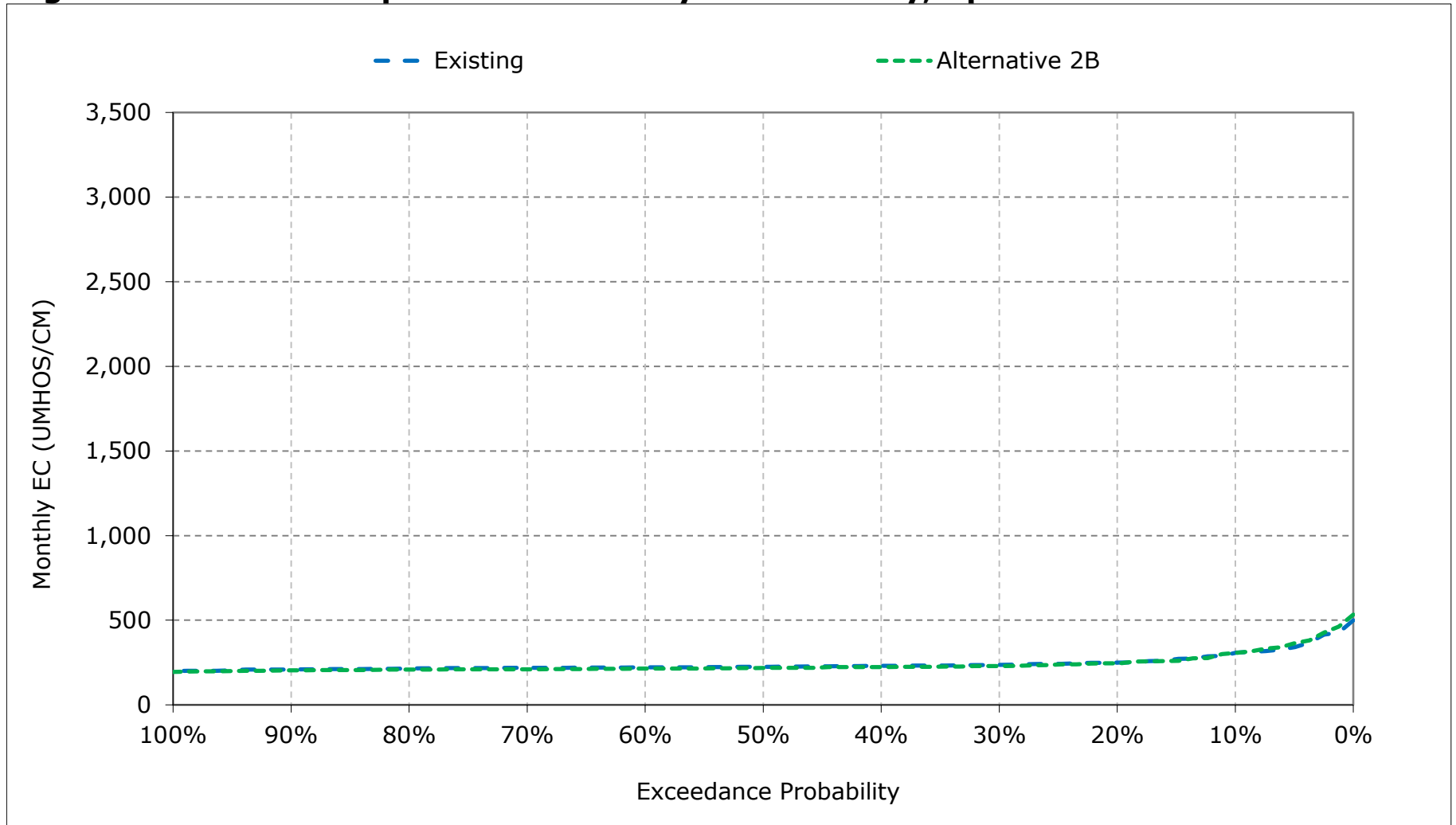
**Figure 12-8. San Joaquin River at Jersey Point Salinity, February EC**



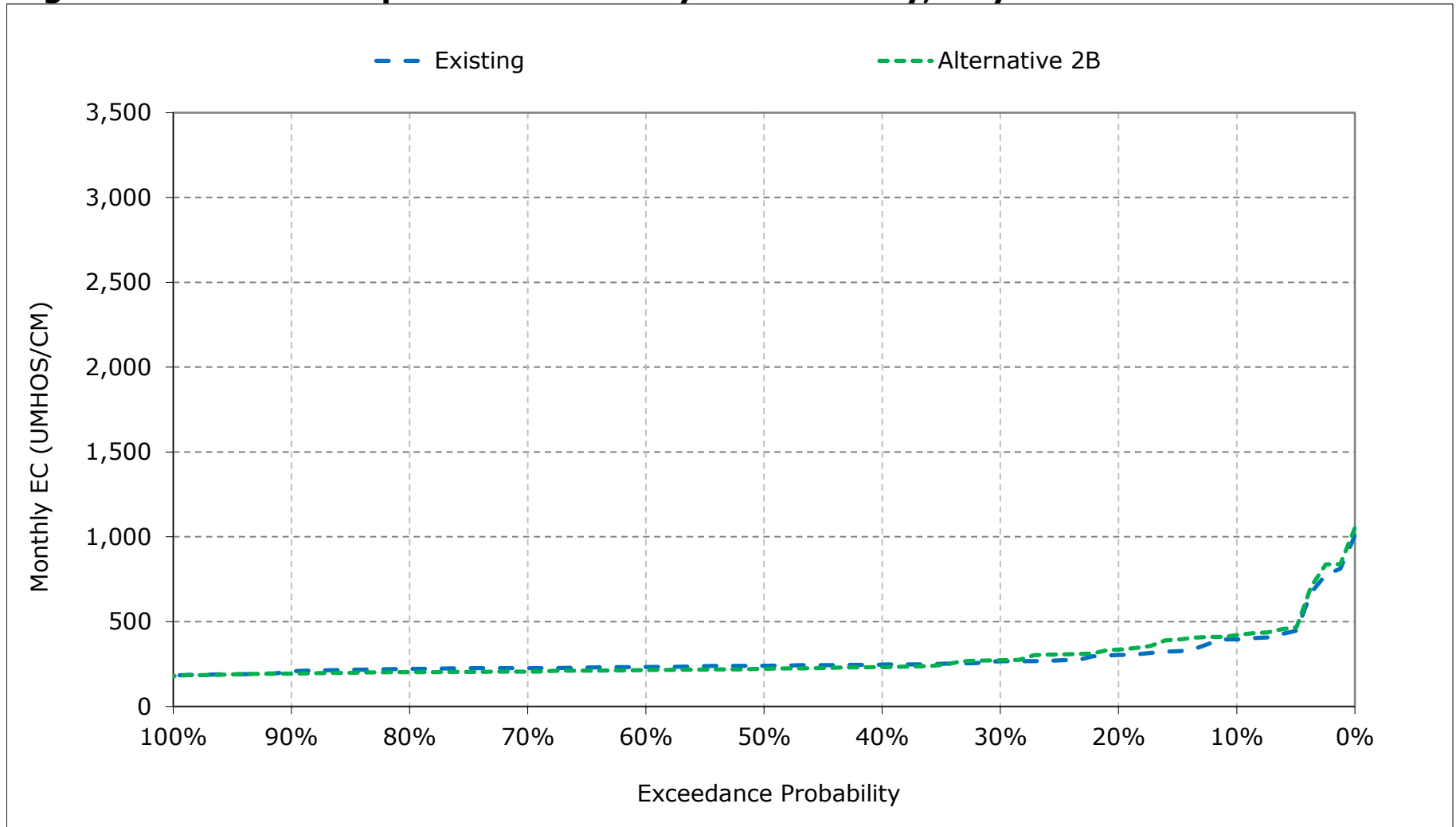
**Figure 12-9. San Joaquin River at Jersey Point Salinity, March EC**



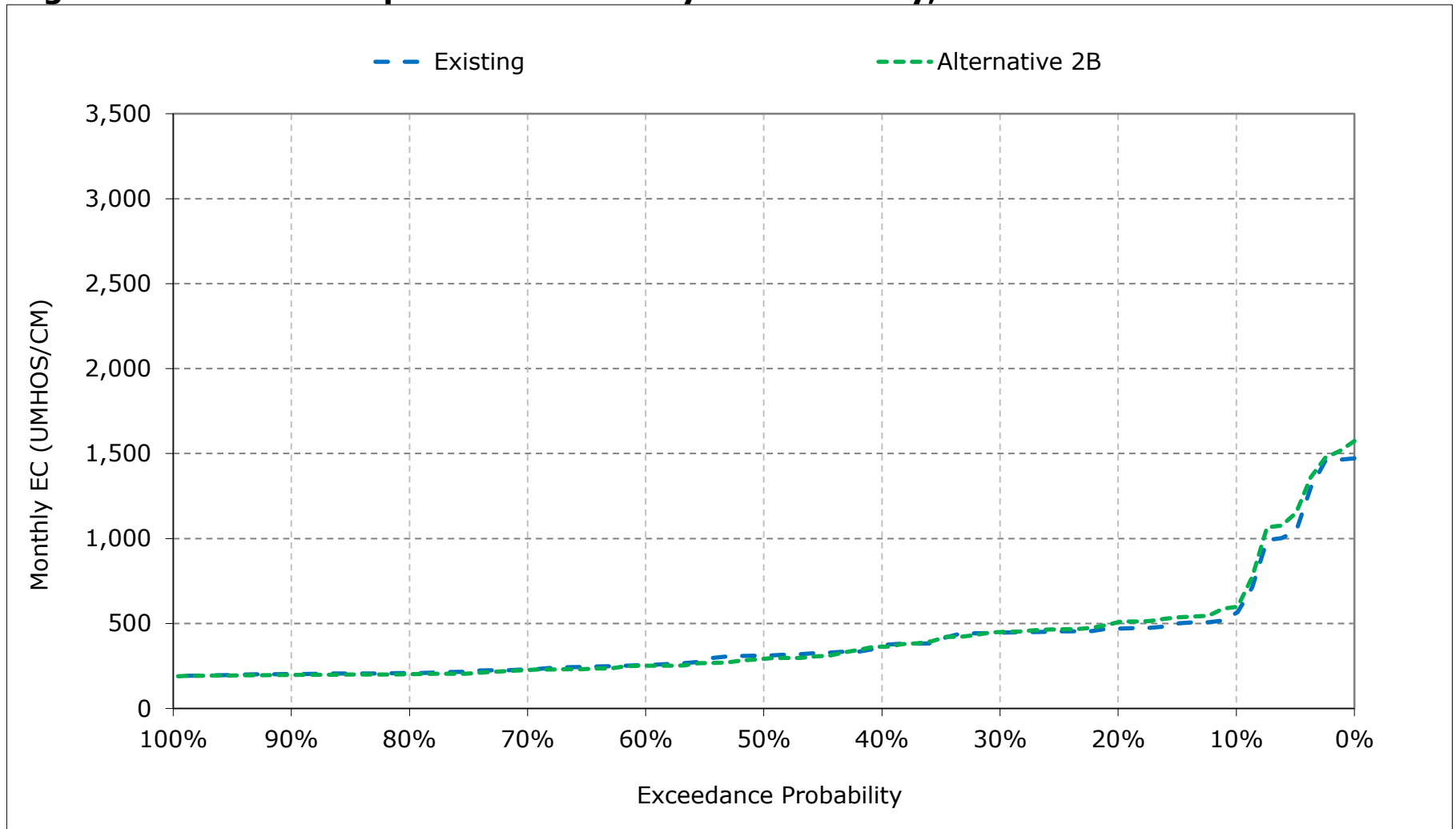
**Figure 12-10. San Joaquin River at Jersey Point Salinity, April EC**



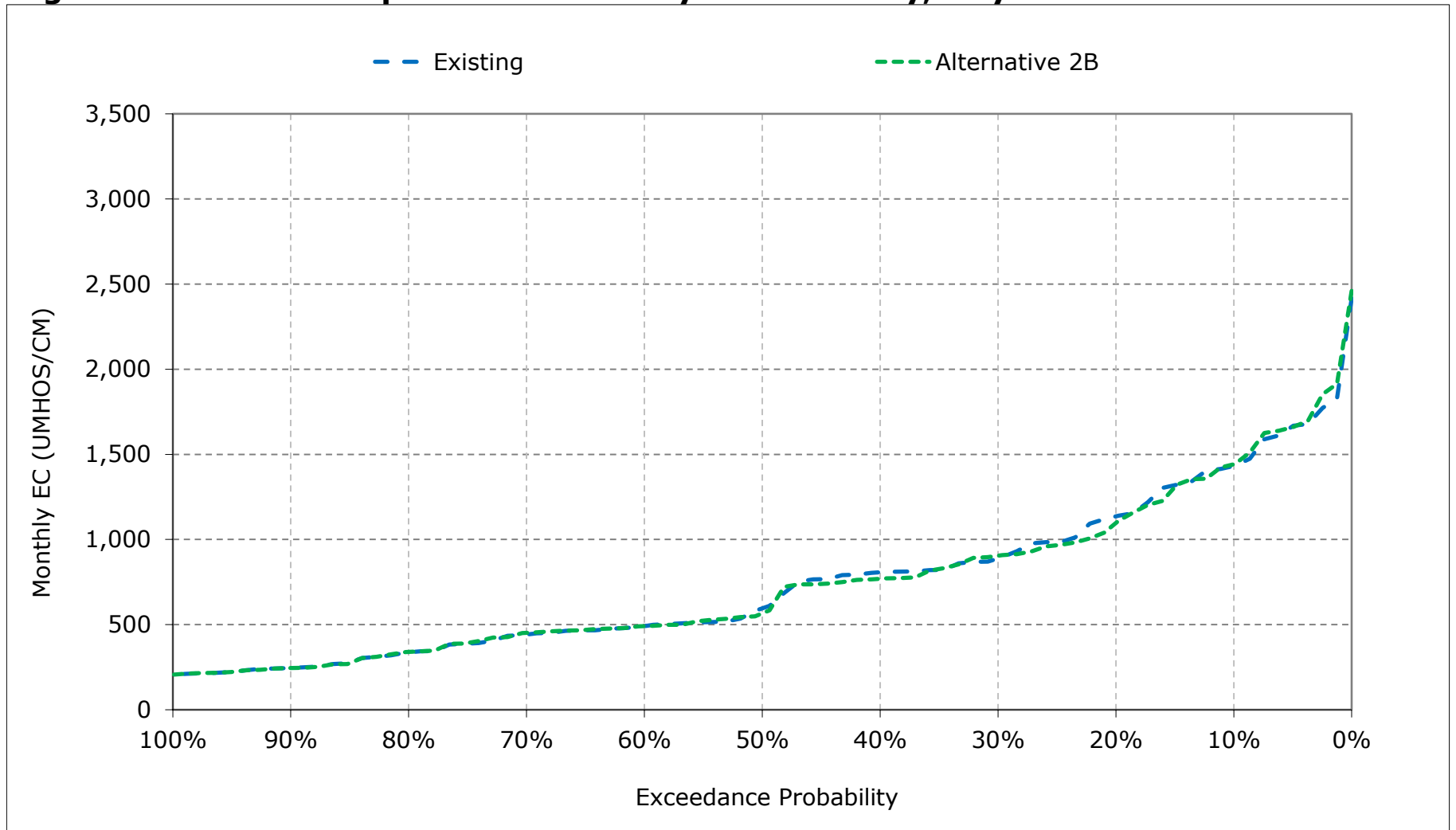
**Figure 12-11. San Joaquin River at Jersey Point Salinity, May EC**



**Figure 12-12. San Joaquin River at Jersey Point Salinity, June EC**

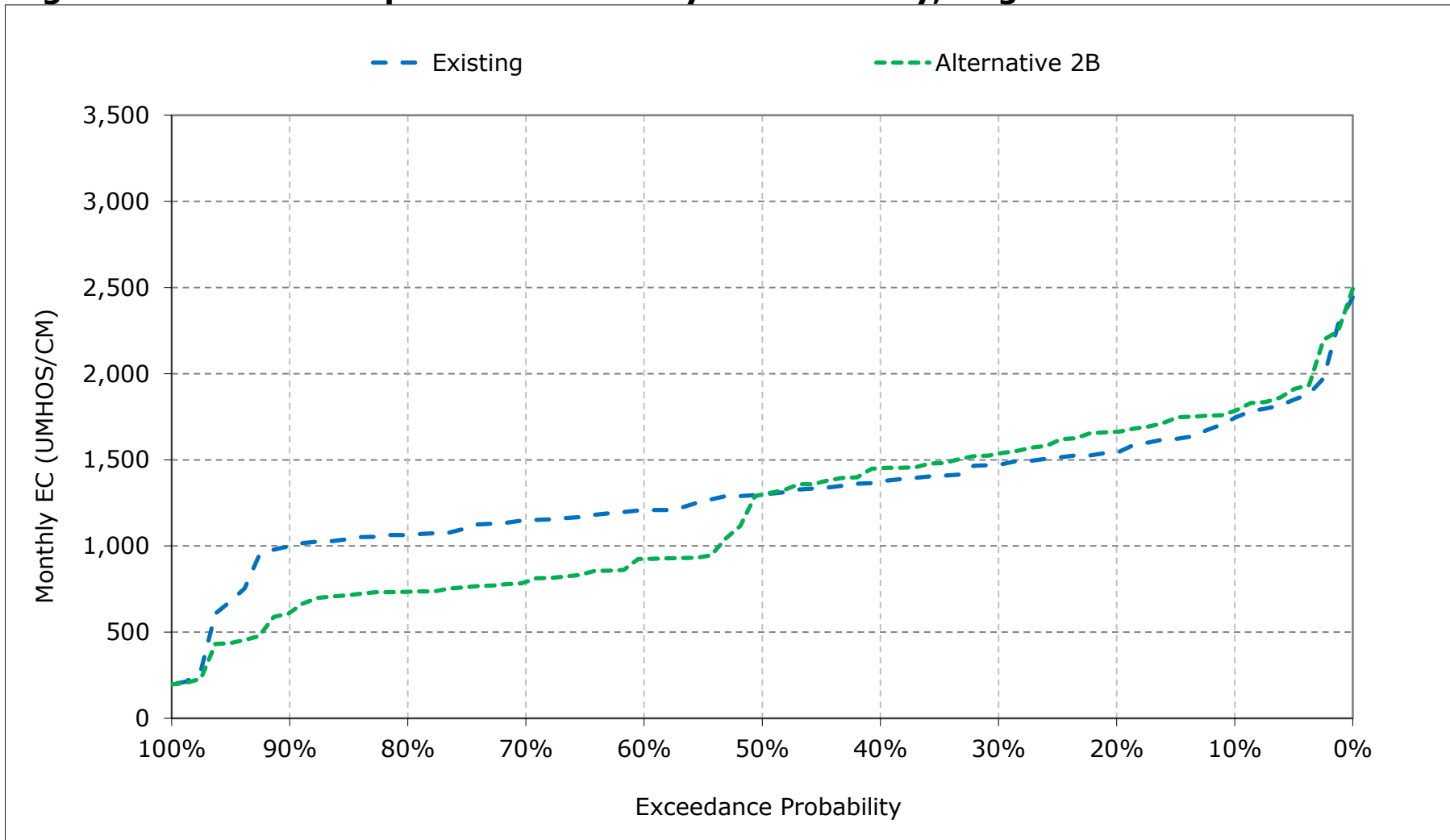


**Figure 12-13. San Joaquin River at Jersey Point Salinity, July EC**

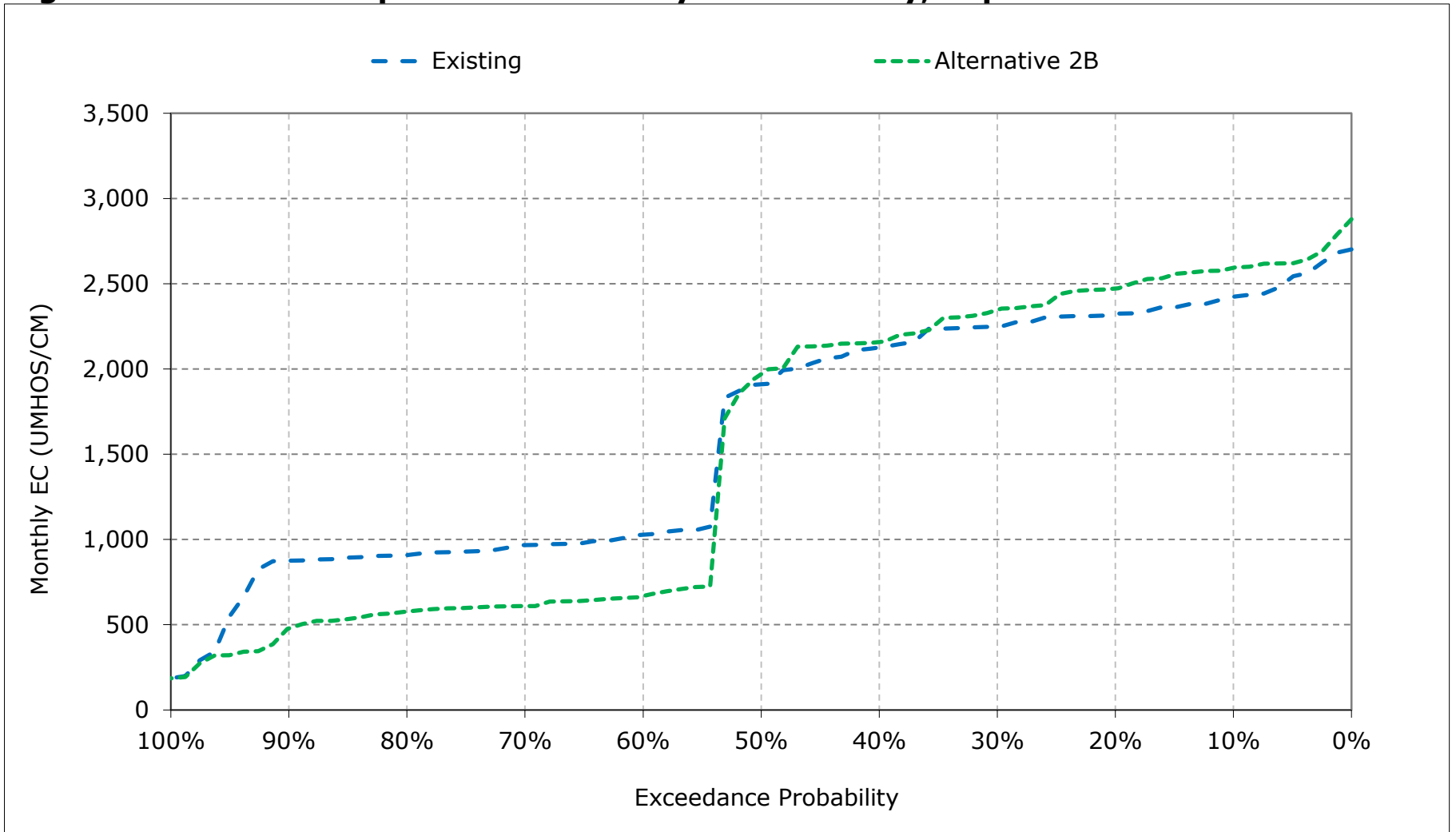




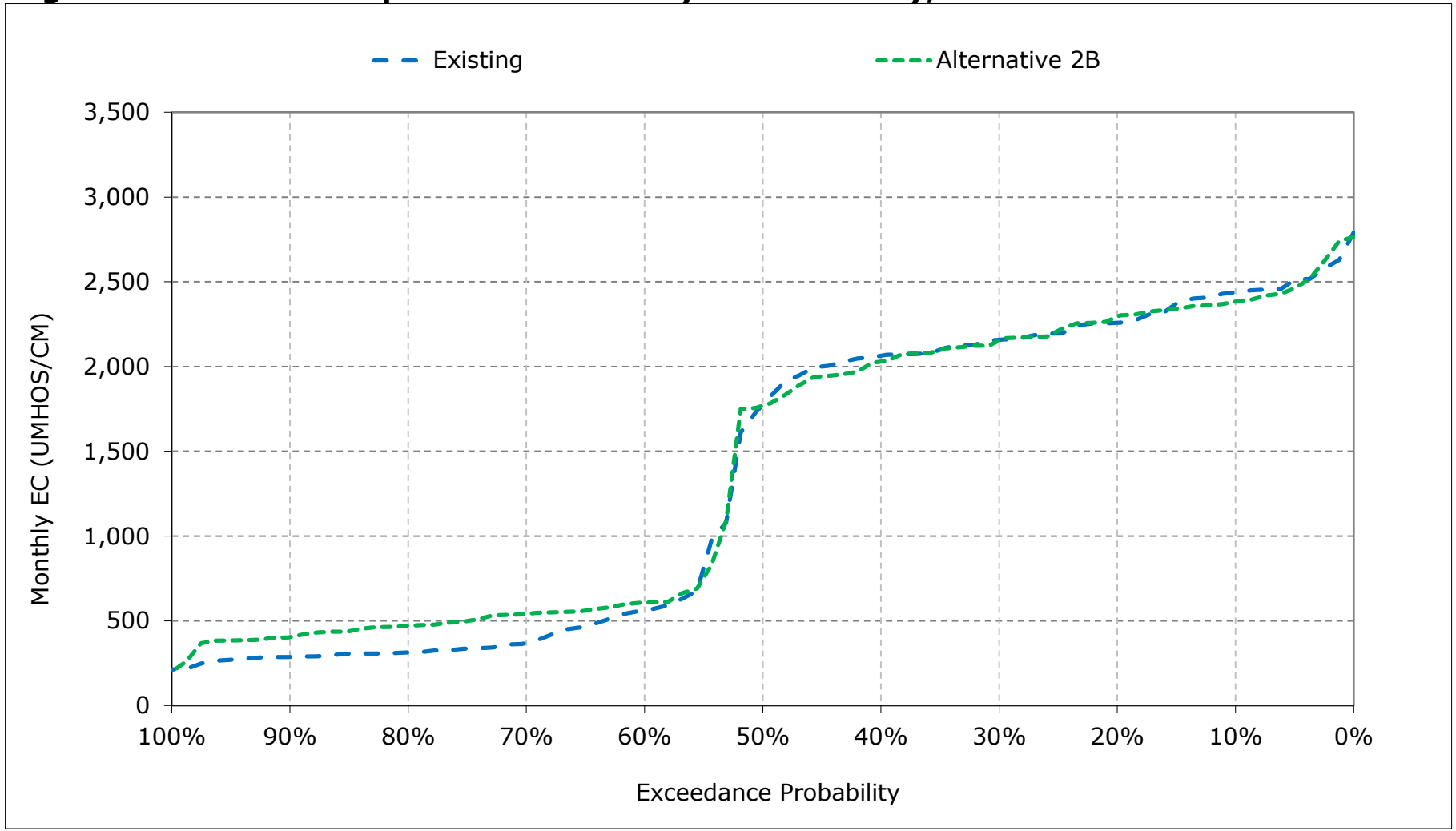
**Figure 12-14. San Joaquin River at Jersey Point Salinity, August EC**



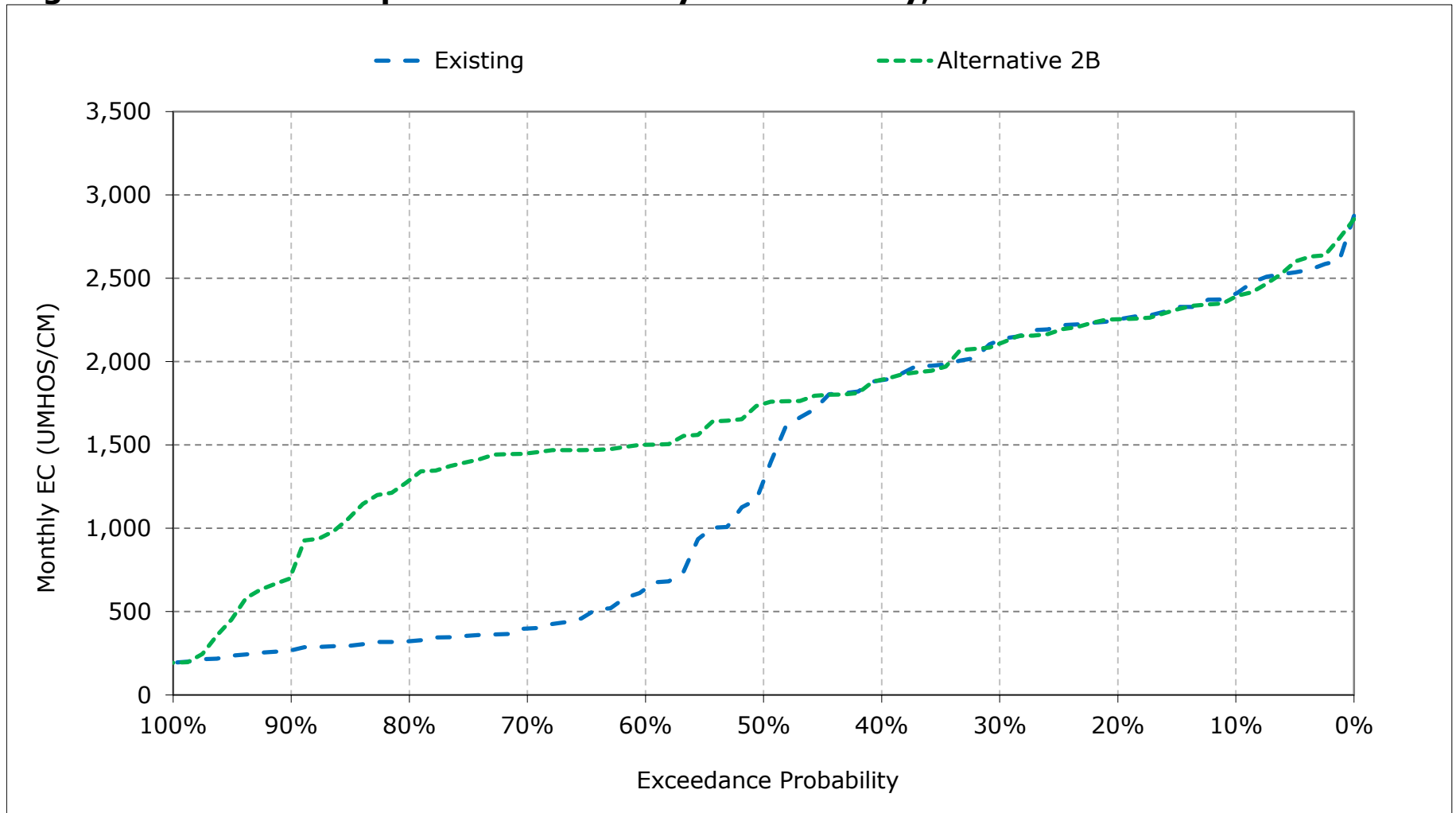
**Figure 12-15. San Joaquin River at Jersey Point Salinity, September EC**



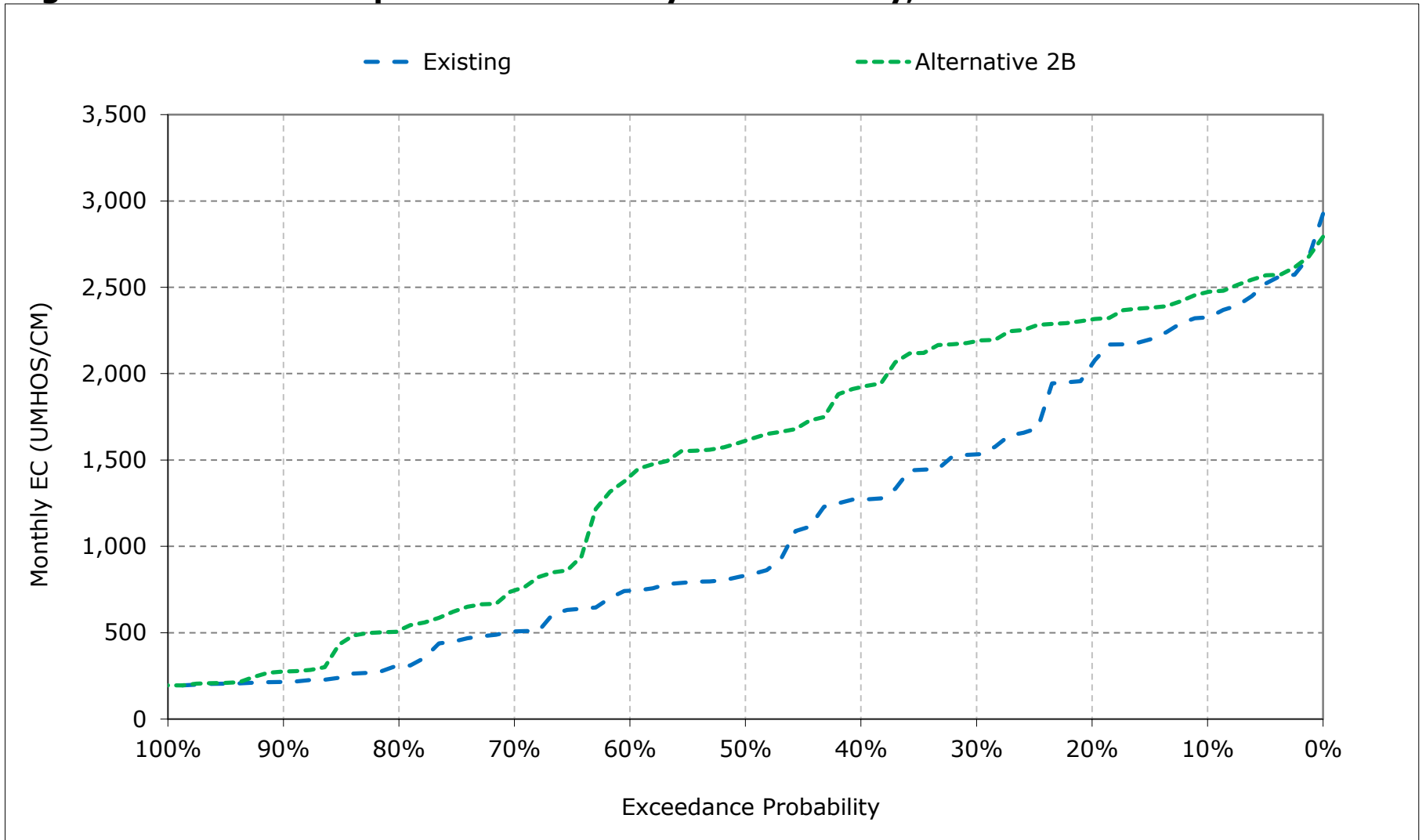
**Figure 12-16. San Joaquin River at Jersey Point Salinity, October EC**



**Figure 12-17. San Joaquin River at Jersey Point Salinity, November EC**



**Figure 12-18. San Joaquin River at Jersey Point Salinity, December EC**



**Table 13-1. San Joaquin River at San Andreas, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	652	638	694	569	318	233	241	246	236	360	470	586
20%	584	586	652	496	274	227	232	241	219	301	424	567
30%	564	560	581	414	245	217	226	237	215	267	391	539
40%	544	523	470	362	232	211	222	232	210	255	359	516
50%	500	422	322	308	227	206	217	224	206	220	341	470
60%	219	258	290	258	219	202	212	217	202	210	322	411
70%	213	215	263	230	208	197	208	214	194	204	292	372
80%	207	204	223	212	199	194	205	203	192	197	284	304
90%	203	198	195	202	195	191	192	185	188	193	272	272
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	410	409	419	353	244	212	218	225	217	259	351	448
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	340	325	268	226	205	198	202	201	193	198	276	349
Above Normal (15%)	448	408	416	307	225	203	213	217	202	206	295	282
Below Normal (17%)	412	428	482	384	235	212	223	228	205	244	355	532
Dry (22%)	424	453	472	411	261	214	228	235	216	306	412	527
Critical (15%)	498	499	593	551	331	250	235	265	303	389	478	609

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	640	652	744	680	346	237	229	230	239	365	470	623
20%	610	597	709	568	278	230	223	224	217	290	419	591
30%	577	566	692	502	250	219	217	216	210	266	397	569
40%	557	533	634	419	232	214	213	212	204	245	372	525
50%	527	486	612	309	229	208	208	208	197	218	345	496
60%	233	409	543	260	220	204	202	201	193	209	265	234
70%	212	373	342	231	208	199	199	196	191	205	239	224
80%	205	342	282	213	201	196	196	190	189	198	233	219
90%	199	282	208	203	195	193	188	180	185	193	217	211
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	414	474	526	389	251	216	210	210	214	257	332	409
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	346	409	346	235	205	199	196	190	190	198	228	213
Above Normal (15%)	448	476	547	345	228	206	205	200	195	205	245	227
Below Normal (17%)	422	490	597	419	235	213	212	208	198	234	370	582
Dry (22%)	423	507	617	491	279	219	216	216	213	303	413	542
Critical (15%)	506	545	675	581	352	259	233	259	308	395	477	613

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-11	14	49	111	29	4	-12	-16	2	5	1	36
20%	26	11	57	73	5	3	-10	-17	-2	-11	-5	24
30%	13	6	110	87	5	2	-10	-22	-5	0	6	31
40%	13	10	164	57	1	4	-9	-20	-6	-10	14	9
50%	27	64	290	1	2	2	-9	-15	-10	-2	4	26
60%	14	151	253	2	0	1	-9	-16	-8	-1	-57	-176
70%	-1	159	79	1	0	3	-8	-18	-2	1	-53	-148
80%	-3	138	59	1	2	2	-9	-13	-4	1	-51	-85
90%	-4	84	12	1	0	2	-4	-5	-3	0	-55	-61
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	4	65	108	36	7	3	-8	-14	-3	-1	-20	-39
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	6	83	78	9	0	1	-6	-11	-3	0	-48	-136
Above Normal (15%)	0	68	131	39	3	3	-9	-17	-7	0	-50	-54
Below Normal (17%)	10	62	115	35	0	1	-11	-20	-6	-10	16	51
Dry (22%)	-1	54	145	80	18	4	-11	-19	-3	-3	1	14
Critical (15%)	8	46	82	29	21	9	-1	-6	5	6	0	3

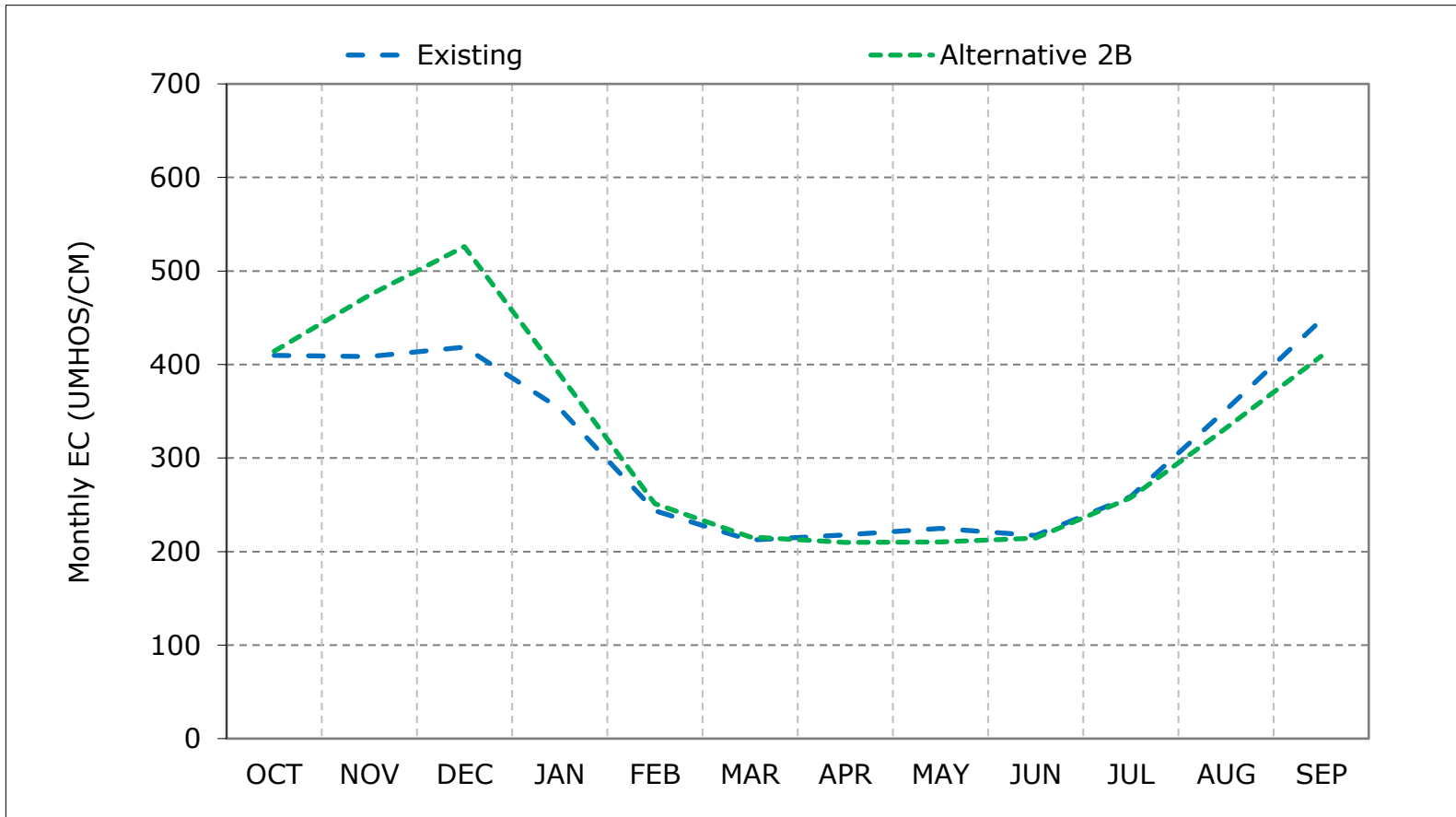
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

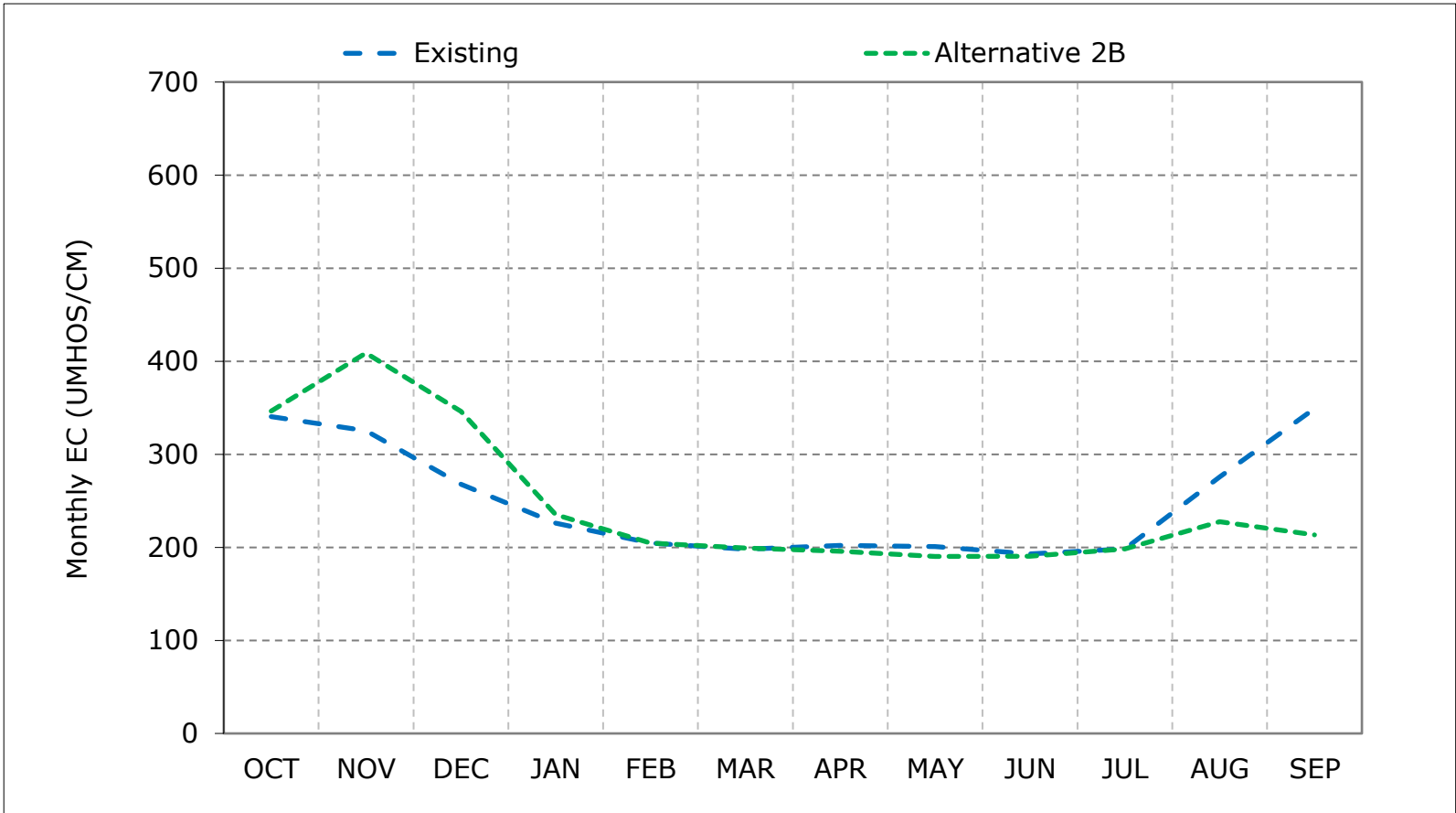
**Figure 13-1. San Joaquin River at San Andreas, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 13-2. San Joaquin River at San Andreas, Wet Year Average EC**

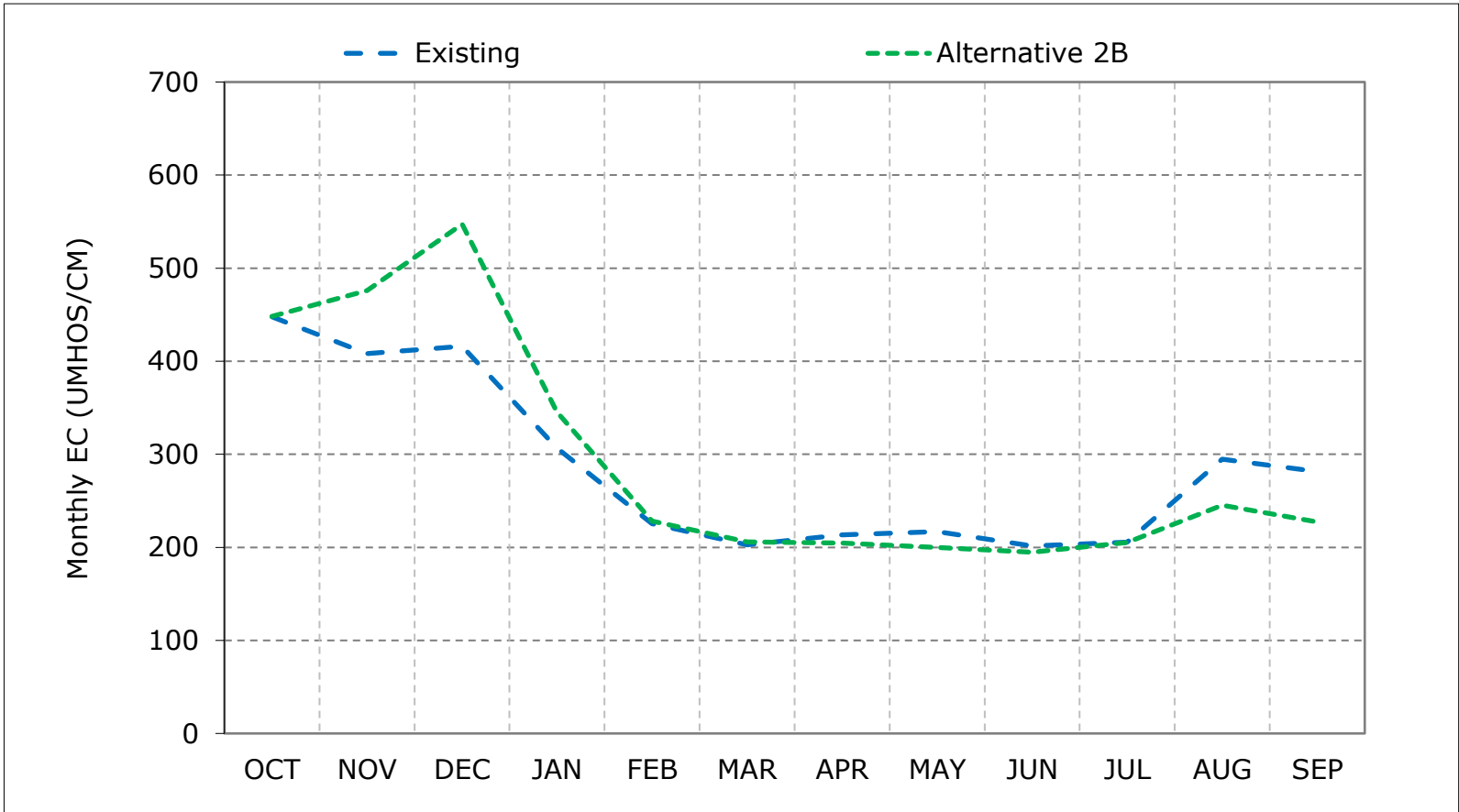


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



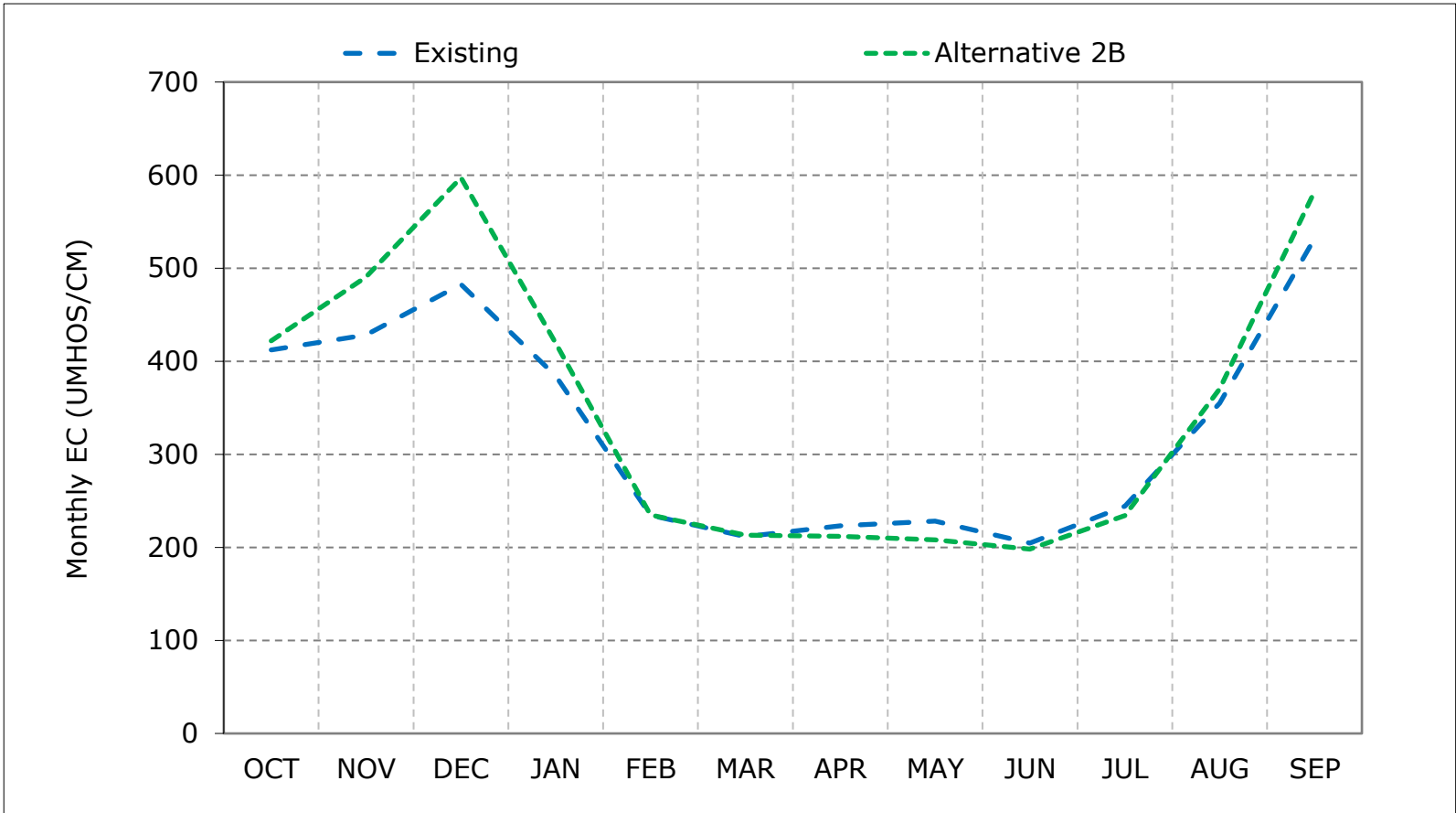
**Figure 13-3. San Joaquin River at San Andreas, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

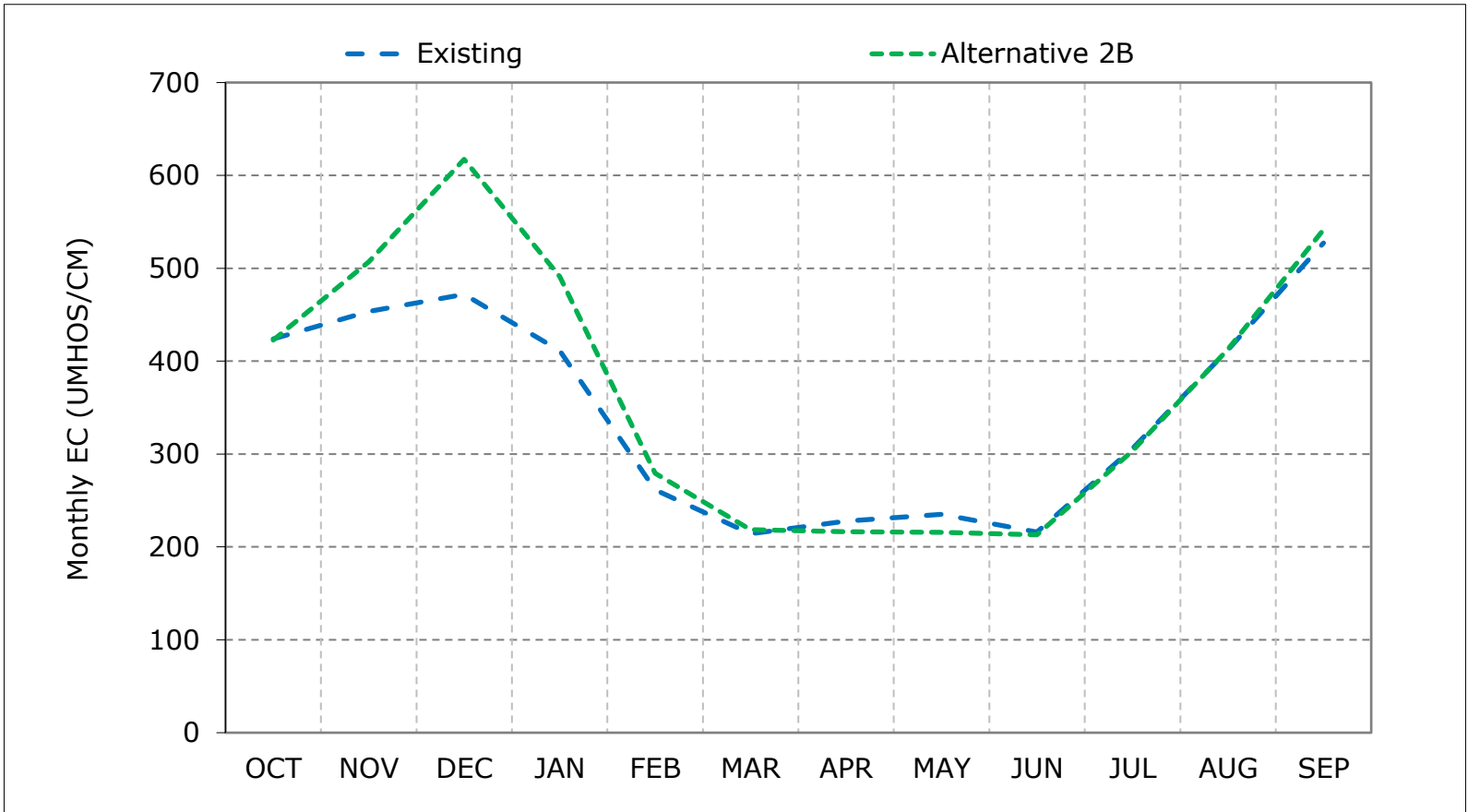
**Figure 13-4. San Joaquin River at San Andreas, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

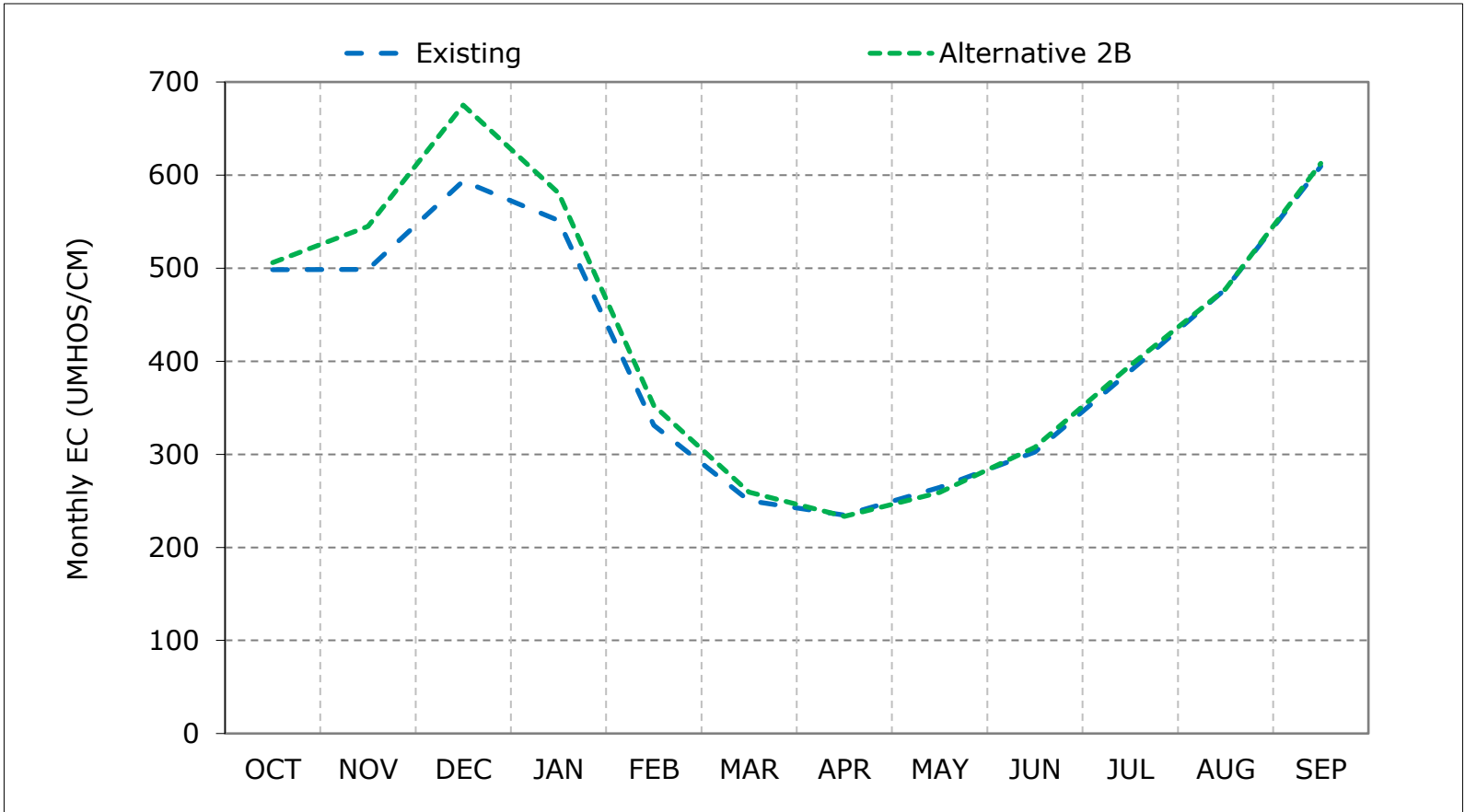
**Figure 13-5. San Joaquin River at San Andreas, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

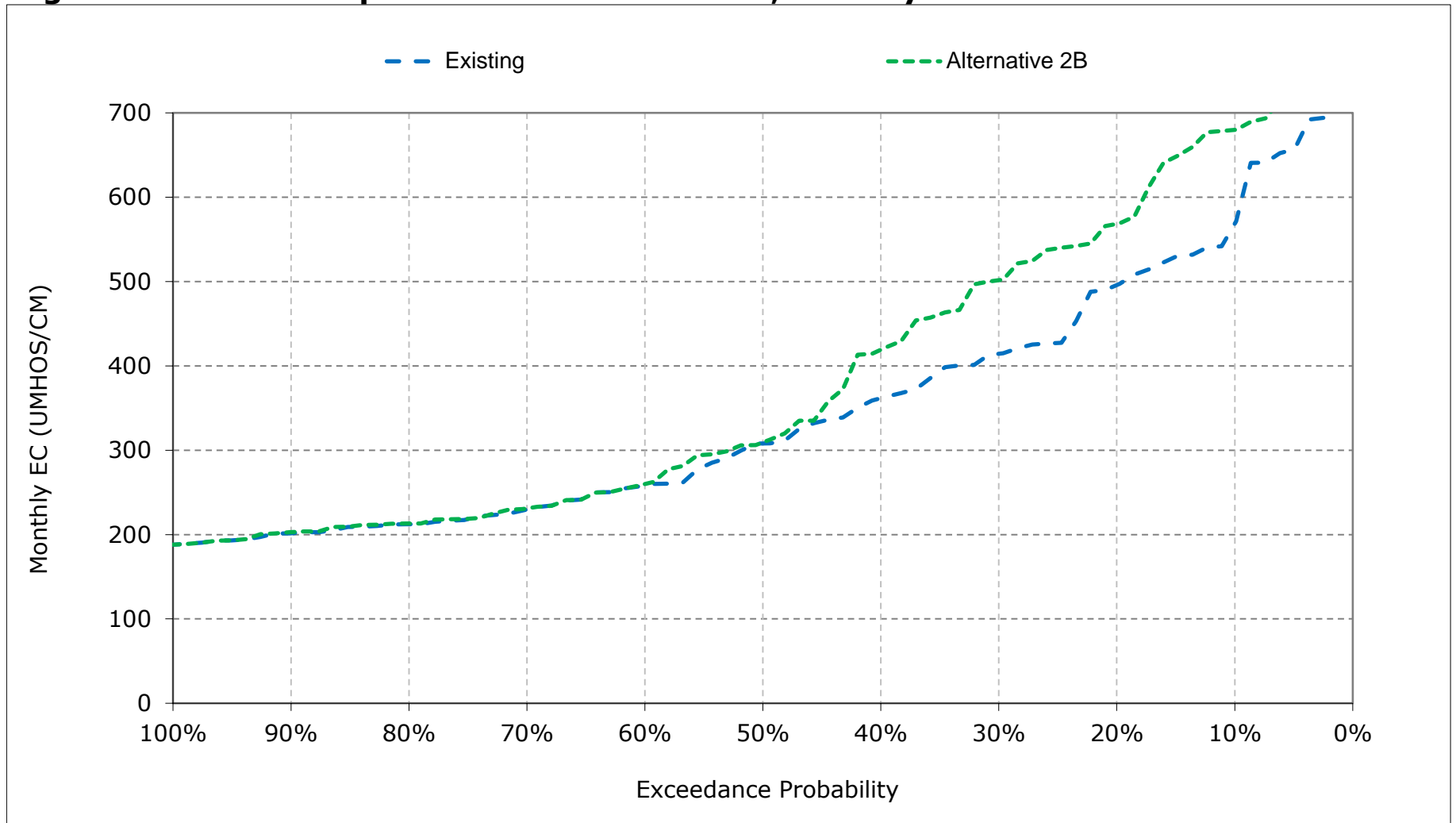
**Figure 13-6. San Joaquin River at San Andreas, Critical Year Average EC**



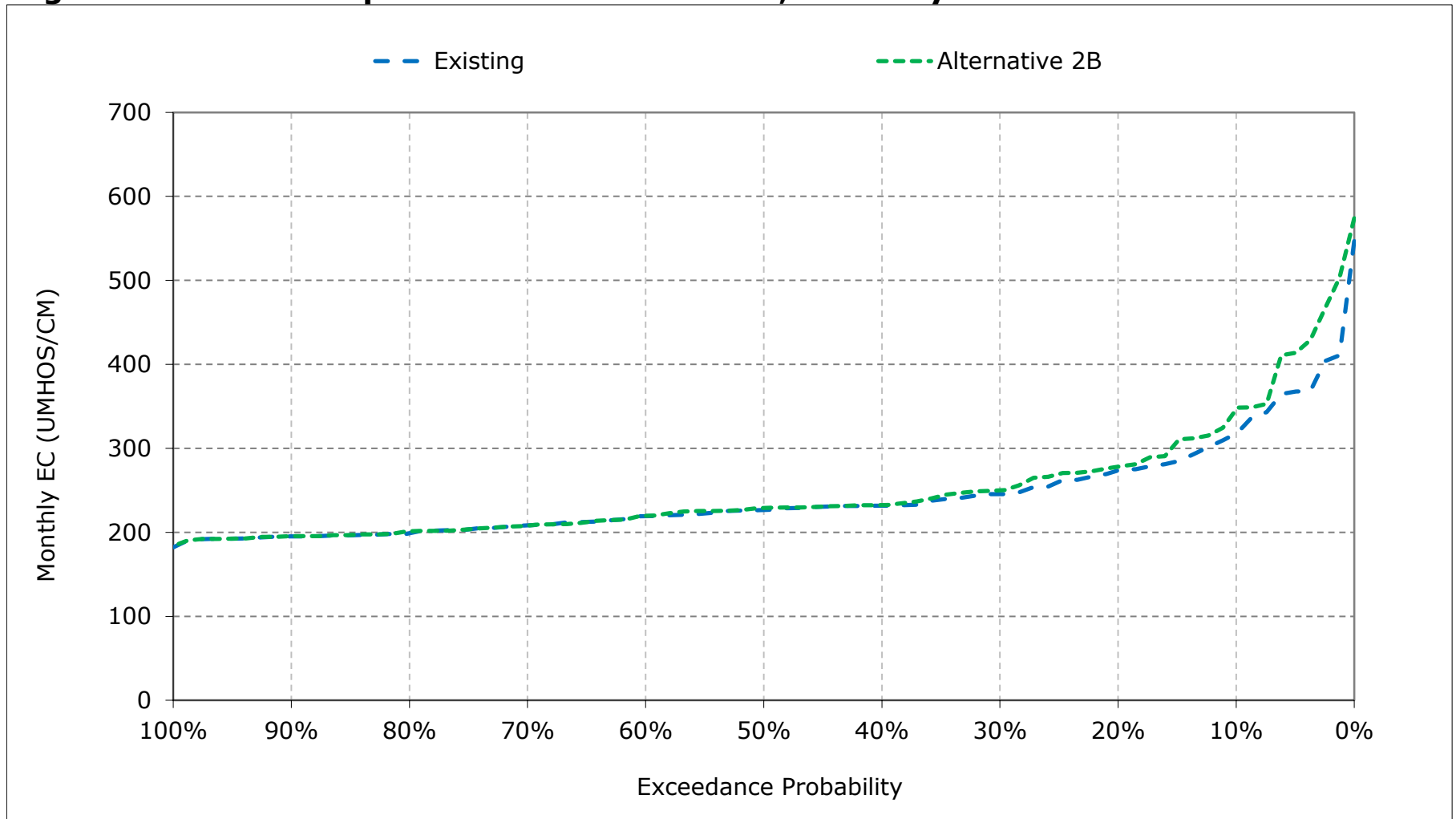
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

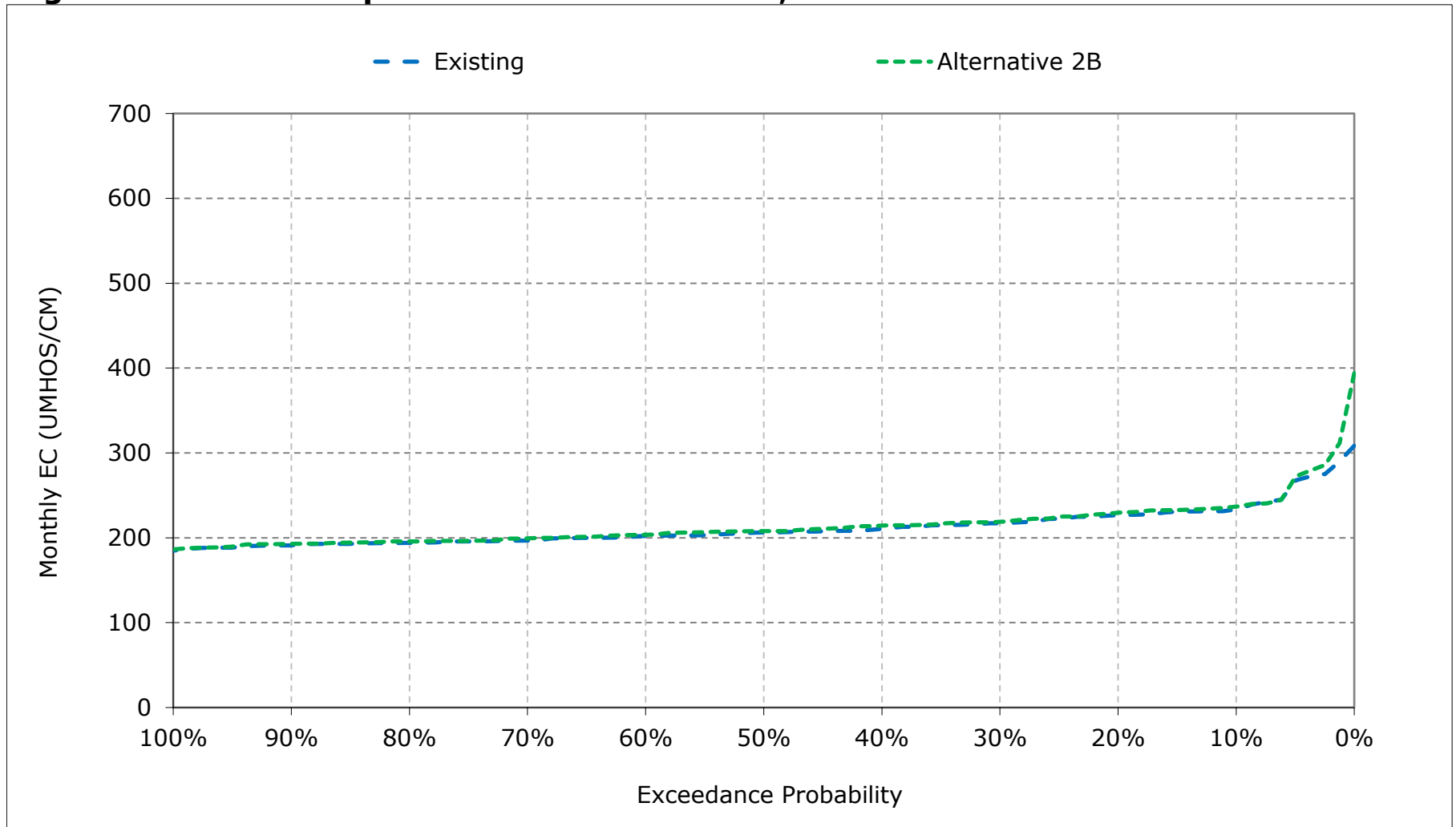
**Figure 13-7. San Joaquin River at San Andreas, January EC**



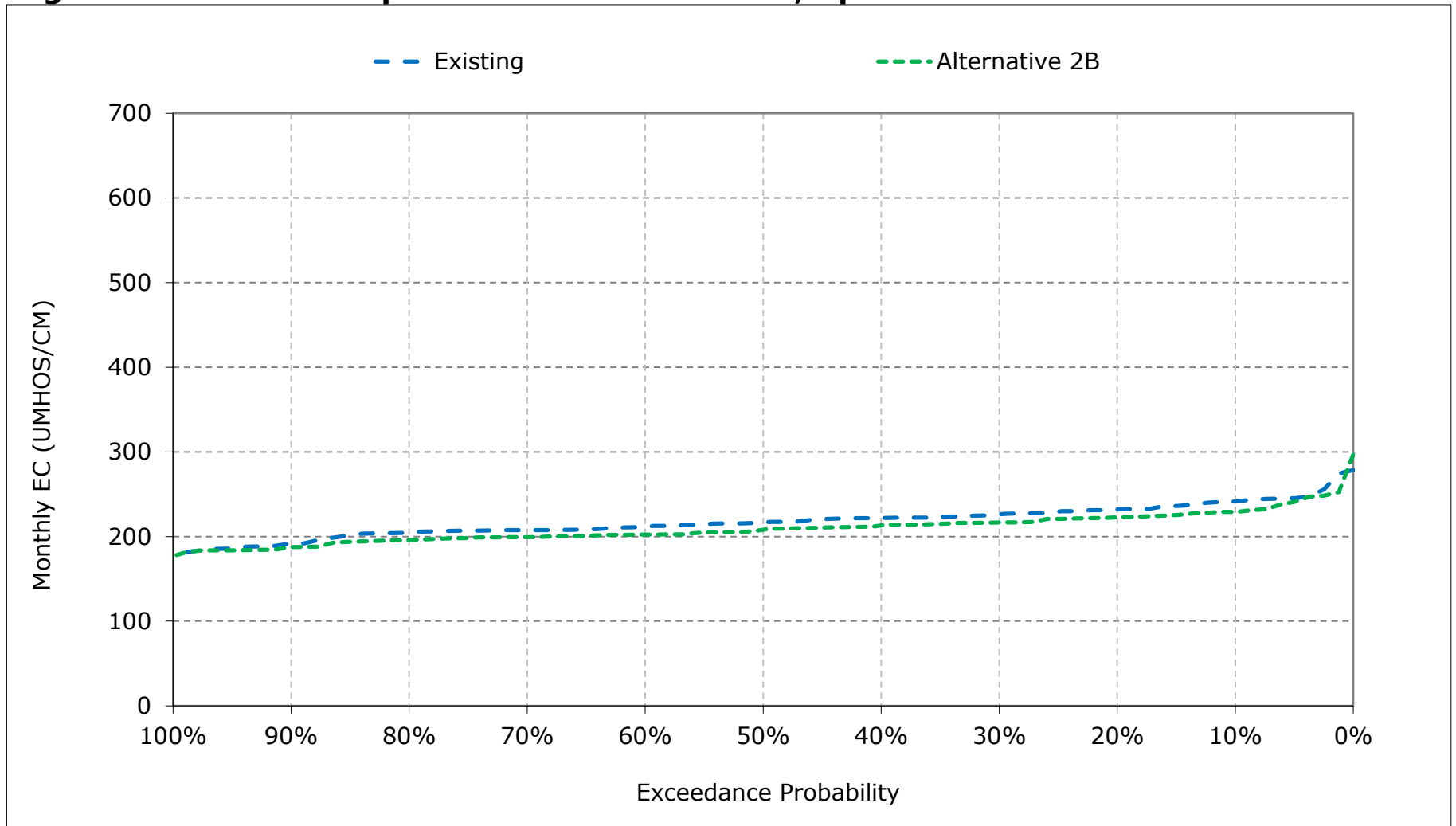
**Figure 13-8. San Joaquin River at San Andreas, February EC**



**Figure 13-9. San Joaquin River at San Andreas, March EC**

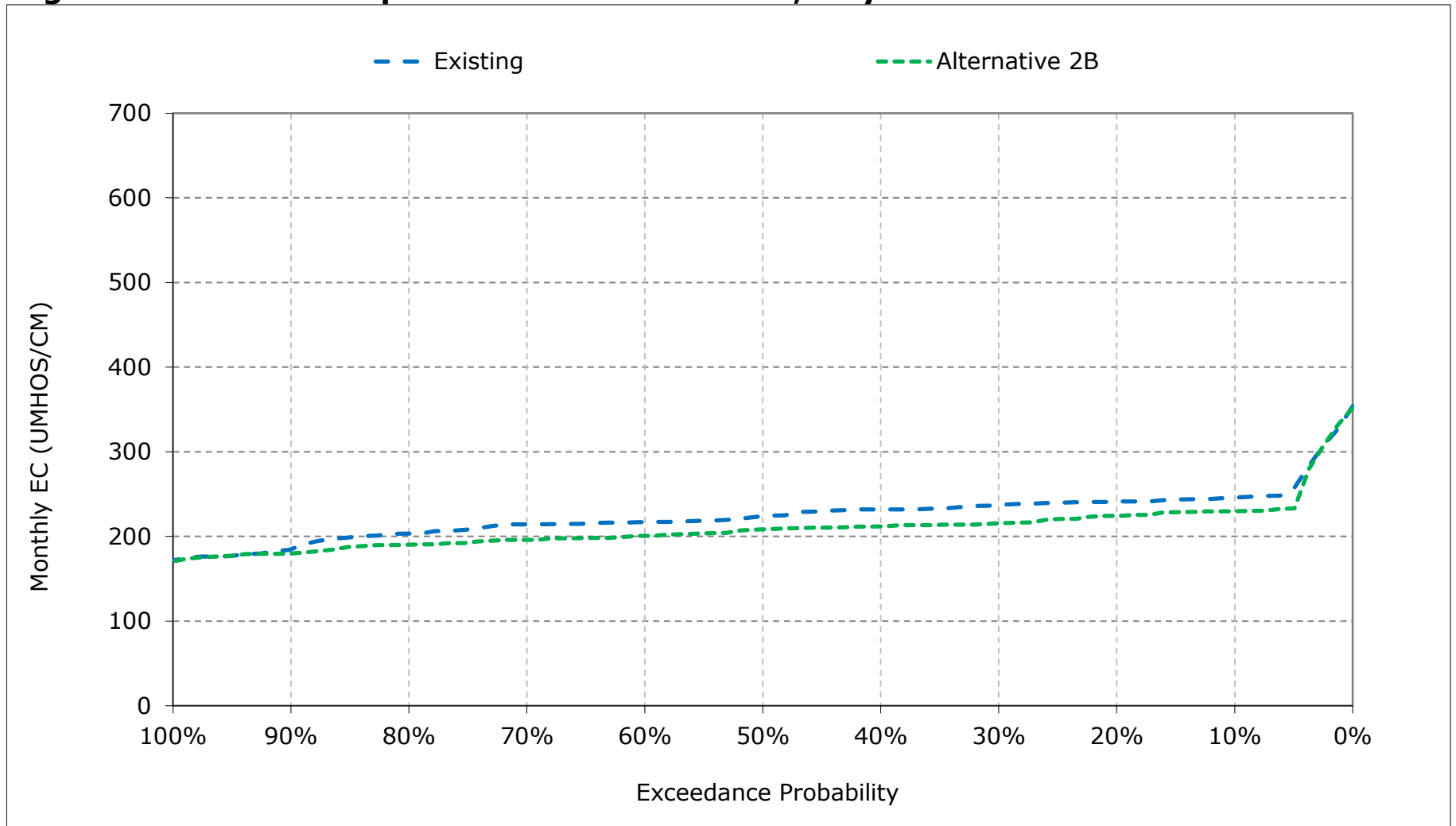


**Figure 13-10. San Joaquin River at San Andreas, April EC**

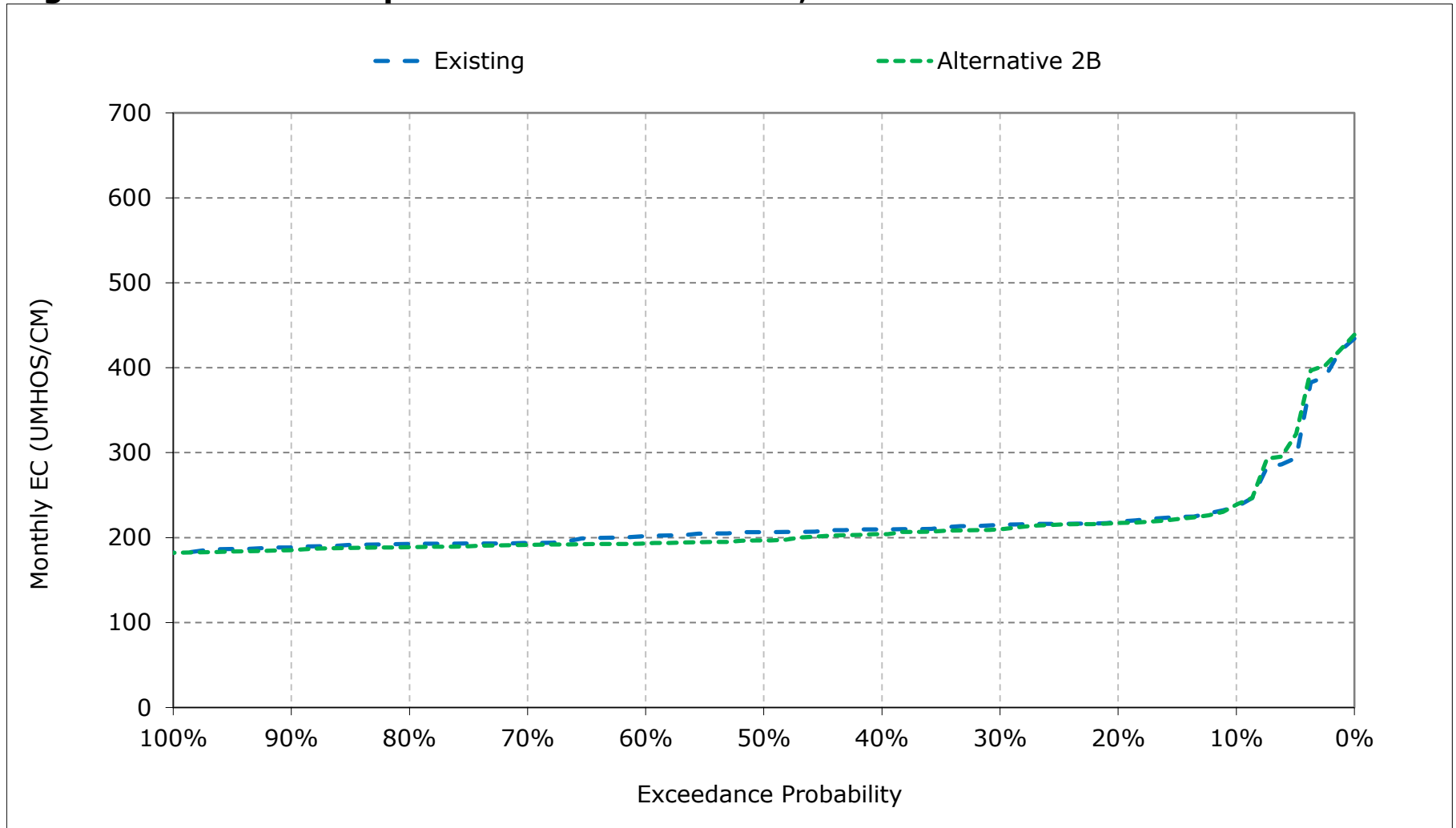




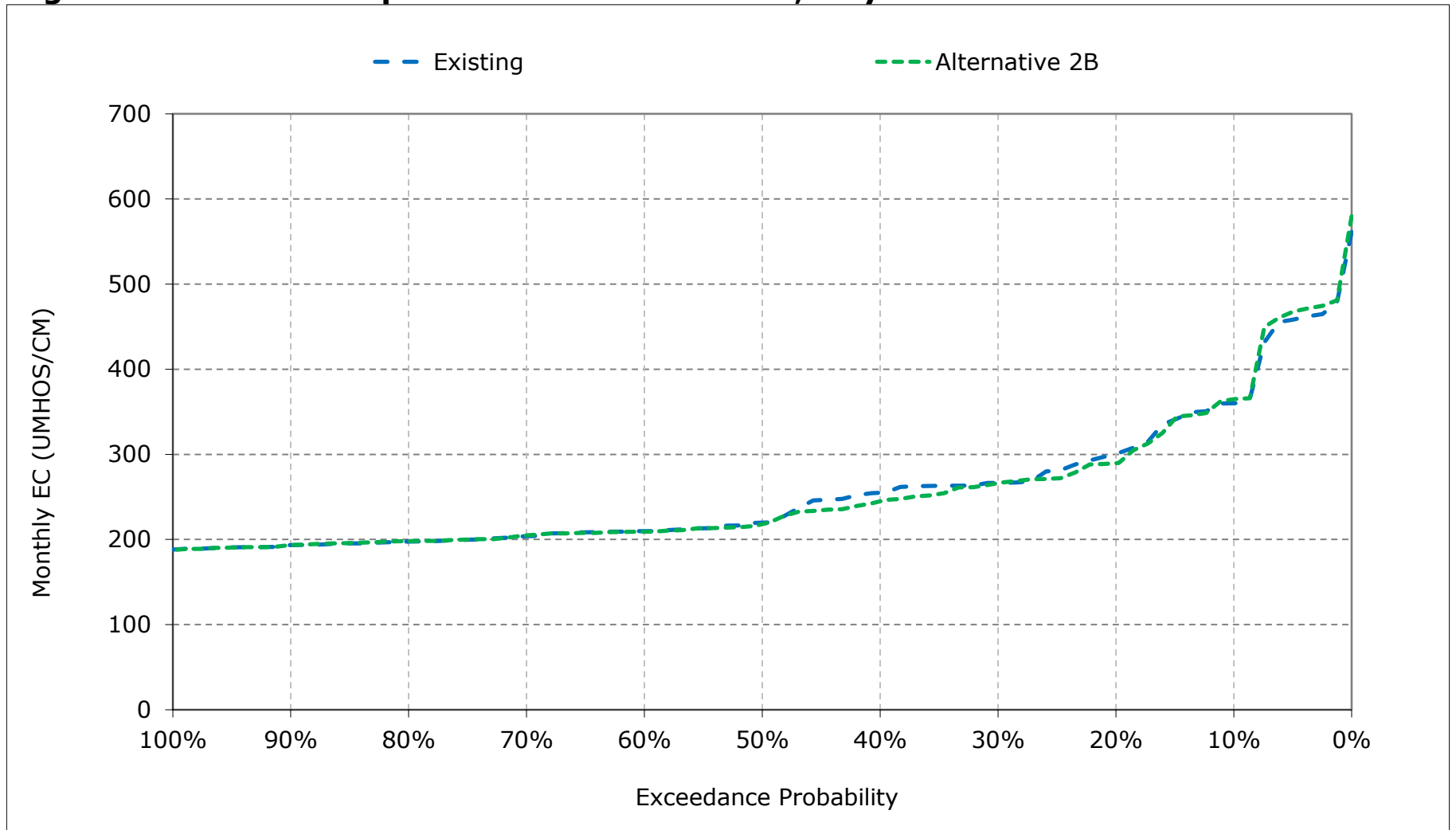
**Figure 13-11. San Joaquin River at San Andreas, May EC**



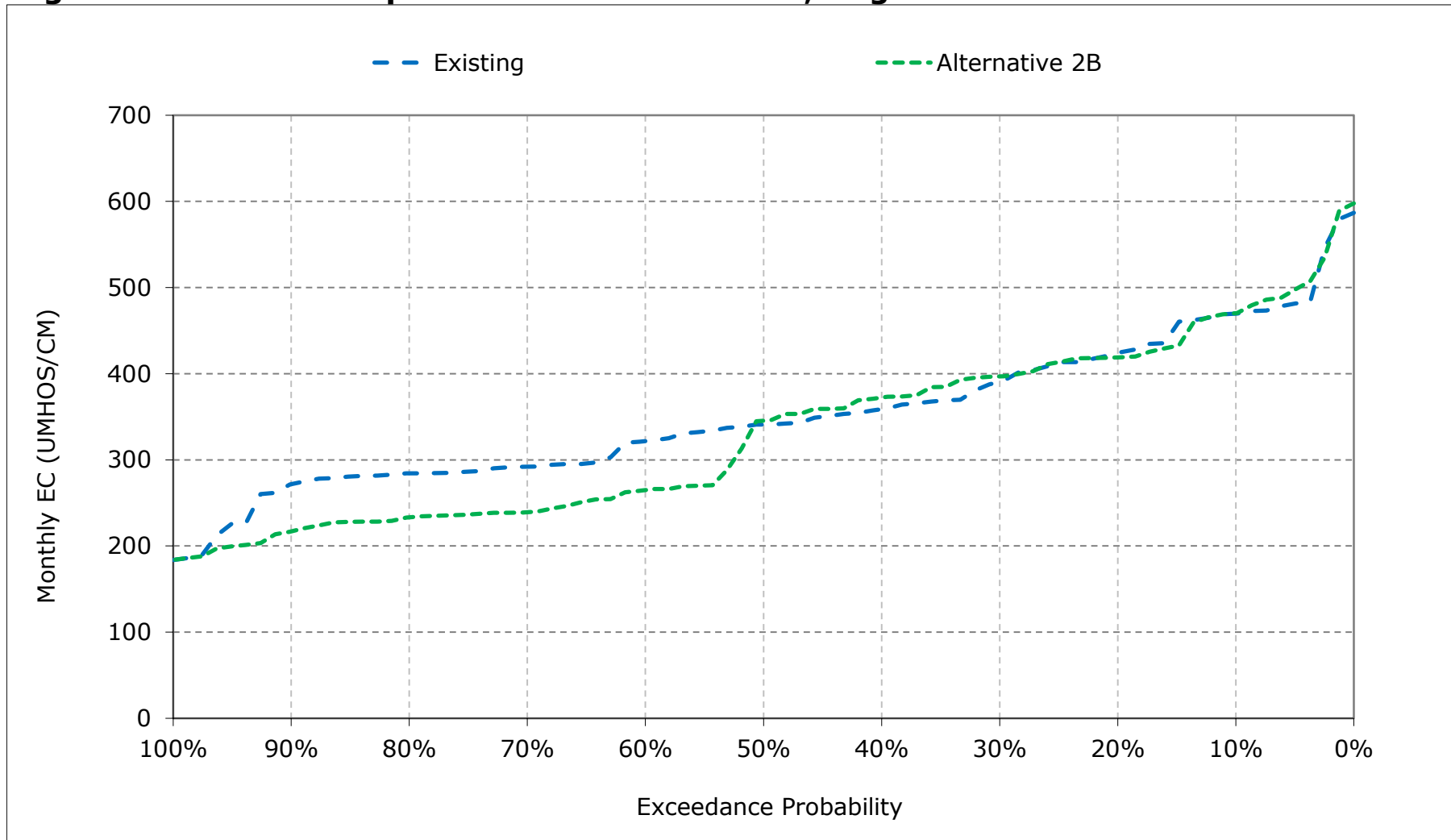
**Figure 13-12. San Joaquin River at San Andreas, June EC**



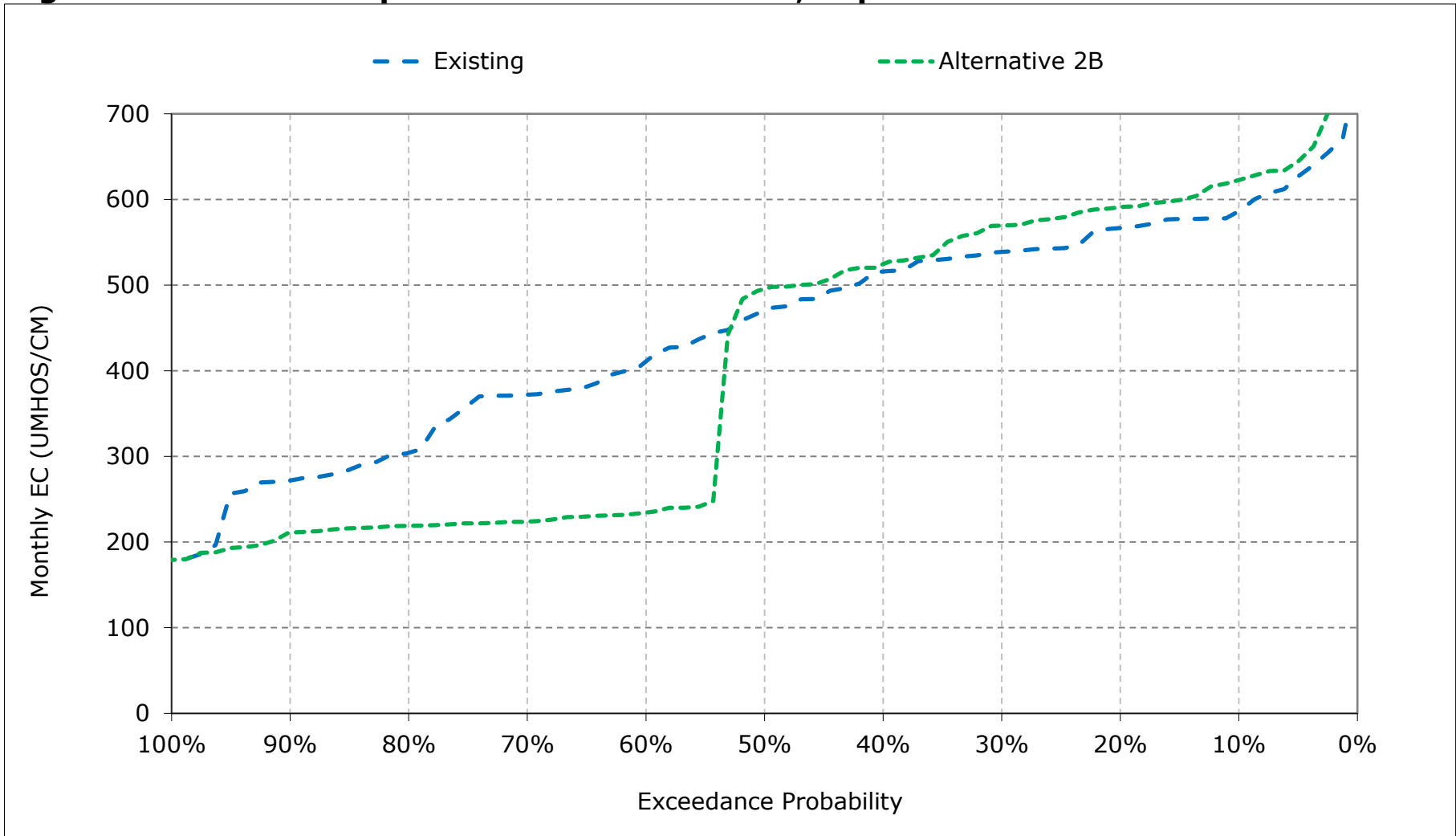
**Figure 13-13. San Joaquin River at San Andreas, July EC**



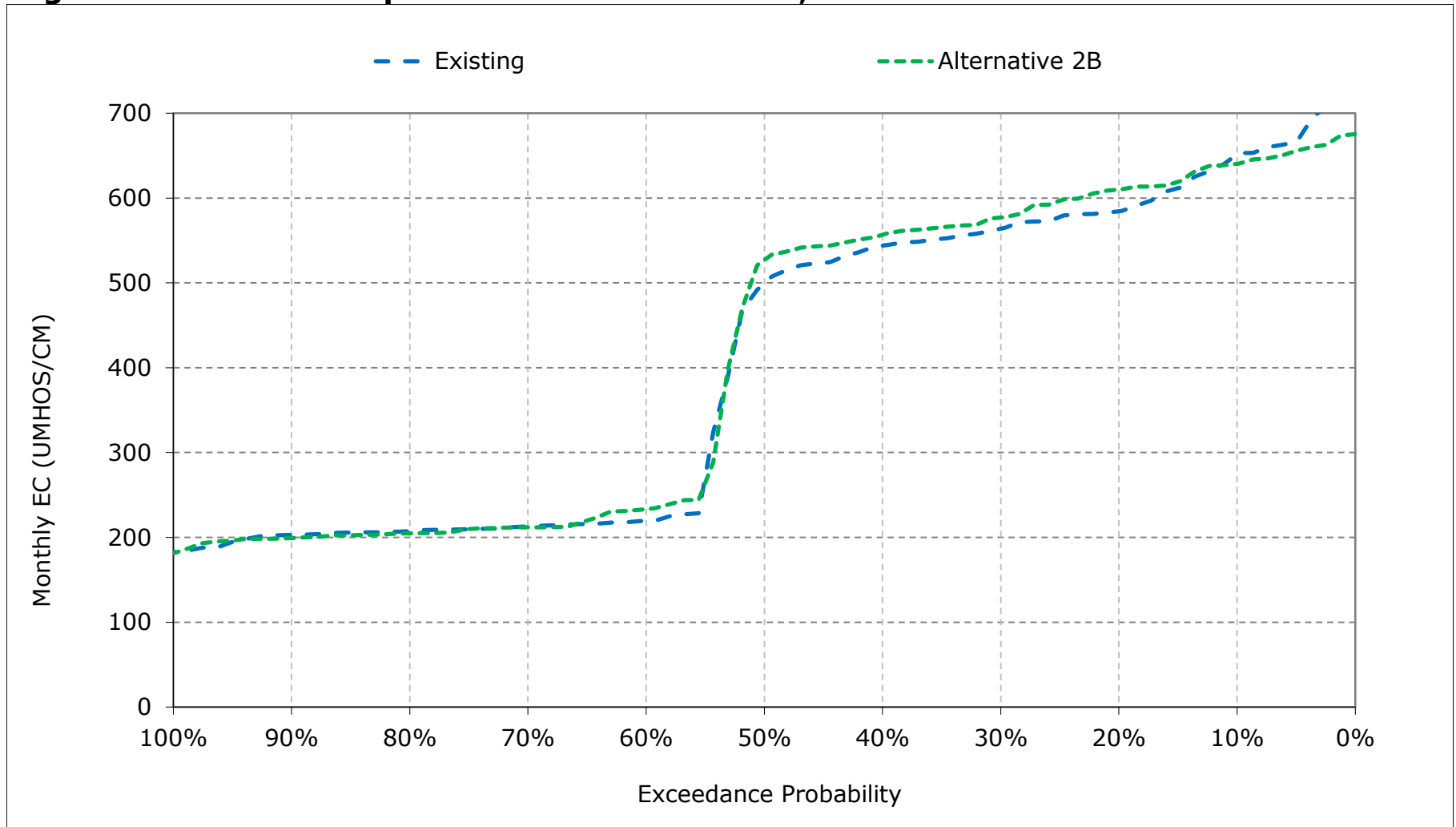
**Figure 13-14. San Joaquin River at San Andreas, August EC**



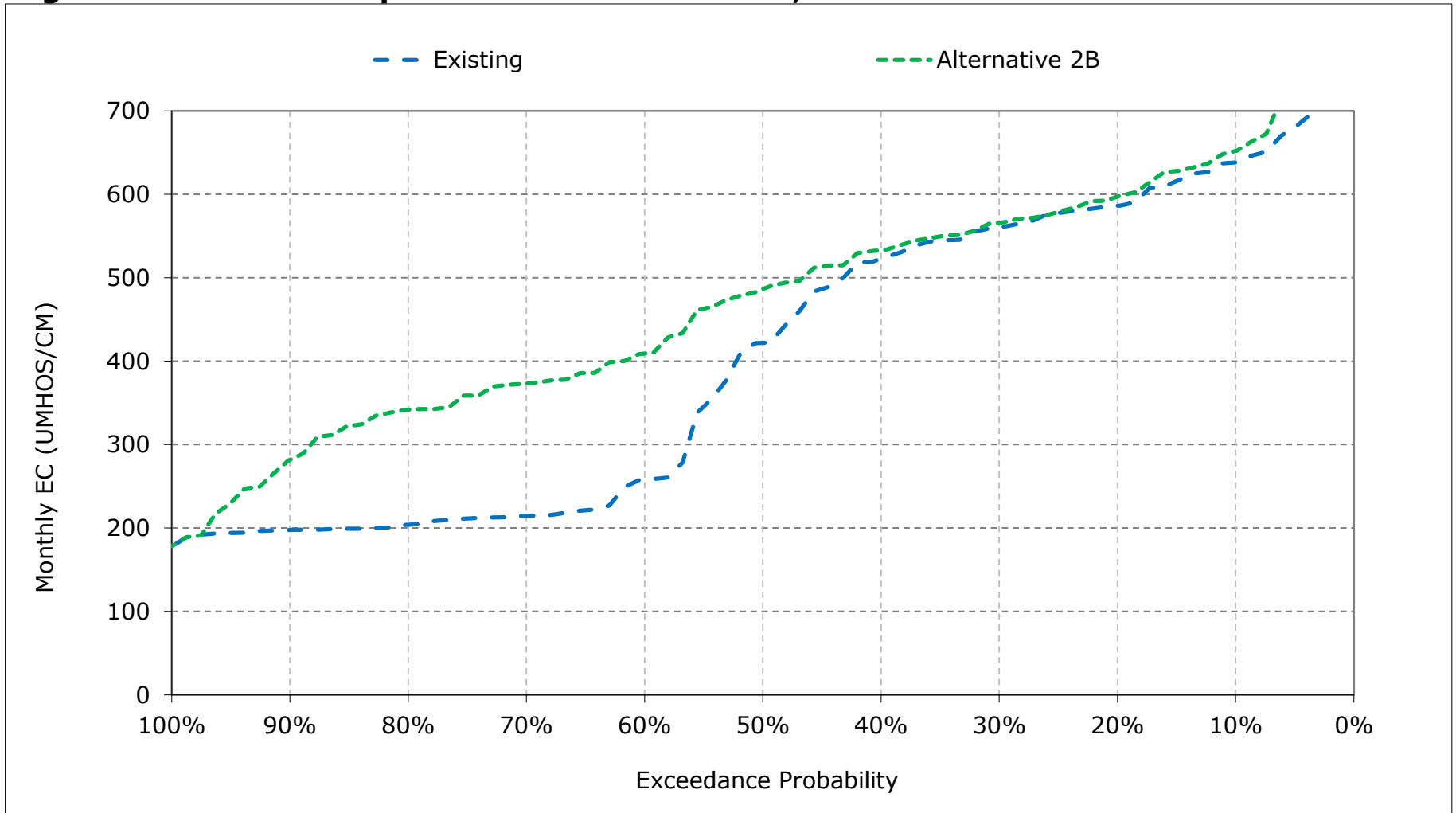
**Figure 13-15. San Joaquin River at San Andreas, September EC**



**Figure 13-16. San Joaquin River at San Andreas, October EC**



**Figure 13-17. San Joaquin River at San Andreas, November EC**



**Figure 13-18. San Joaquin River at San Andreas, December EC**





**Table 14-1. San Joaquin River at Prisoners Point, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	599	595	688	651	443	341	366	352	292	375	473	569
20%	565	550	649	545	396	323	353	336	274	301	407	549
30%	550	524	588	507	382	308	341	328	264	278	379	519
40%	534	484	505	423	355	298	329	322	253	262	359	495
50%	495	450	374	402	335	282	317	316	247	253	338	463
60%	261	275	308	376	315	276	313	307	243	231	314	433
70%	247	242	284	346	287	269	294	300	241	224	287	410
80%	236	231	253	318	278	254	275	283	235	219	280	358
90%	227	224	237	286	265	240	257	226	228	208	271	322
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	410	402	438	438	340	290	313	306	259	271	347	453
<b>Water Year Types<sup>b</sup></b>												
Wet (23%)	394	388	401	362	337	298	261	248	266	237	264	339
Above Normal (24%)	421	418	429	417	348	302	321	314	245	223	318	452
Below Normal (10%)	374	333	344	389	325	293	340	316	233	237	323	438
Dry (16%)	386	365	413	446	310	278	350	338	246	290	396	523
Critical (27%)	441	445	526	536	360	278	320	325	282	347	426	515

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	600	590	733	747	444	355	337	296	288	374	479	627
20%	582	557	695	679	412	335	324	284	267	291	413	585
30%	561	533	672	607	392	315	309	273	251	265	385	538
40%	551	508	647	525	368	302	295	269	239	260	361	491
50%	514	458	626	419	347	291	289	264	230	248	339	443
60%	226	388	573	384	316	283	278	259	224	231	271	263
70%	216	352	443	349	293	272	266	252	222	221	243	252
80%	212	314	387	324	277	262	253	249	218	217	233	243
90%	206	280	290	290	264	244	239	216	211	208	228	234
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	407	445	555	489	349	299	287	262	245	270	331	407
<b>Water Year Types<sup>b</sup></b>												
Wet (23%)	392	428	484	372	334	298	253	234	262	238	228	228
Above Normal (24%)	427	449	506	447	346	307	298	272	225	219	293	373
Below Normal (10%)	348	435	552	521	347	315	324	266	214	232	297	369
Dry (16%)	375	416	579	521	321	293	307	271	225	280	388	537
Critical (27%)	441	478	649	596	383	290	282	270	271	352	433	531

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1	-5	44	96	0	14	-28	-56	-4	-1	5	58
20%	17	7	46	134	15	12	-29	-53	-7	-10	7	36
30%	11	9	83	99	11	7	-32	-55	-13	-12	6	19
40%	16	24	142	102	13	4	-35	-53	-14	-2	2	-5
50%	19	8	252	17	12	9	-29	-52	-18	-4	1	-20
60%	-35	113	265	8	1	7	-34	-47	-19	1	-43	-171
70%	-30	110	159	3	6	4	-28	-48	-20	-3	-44	-158
80%	-24	83	134	6	0	8	-22	-35	-17	-2	-46	-115
90%	-20	56	53	4	-2	5	-19	-10	-17	0	-43	-88
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-3	44	118	51	9	9	-26	-44	-14	-2	-16	-45
<b>Water Year Types<sup>b</sup></b>												
Wet (23%)	-2	40	83	9	-3	0	-8	-14	-4	1	-35	-111
Above Normal (24%)	6	31	78	31	-1	5	-23	-42	-20	-4	-24	-78
Below Normal (10%)	-26	102	208	132	22	22	-15	-50	-19	-5	-27	-69
Dry (16%)	-12	51	166	76	11	16	-43	-67	-21	-11	-8	14
Critical (27%)	0	33	123	60	24	11	-38	-54	-11	5	6	16

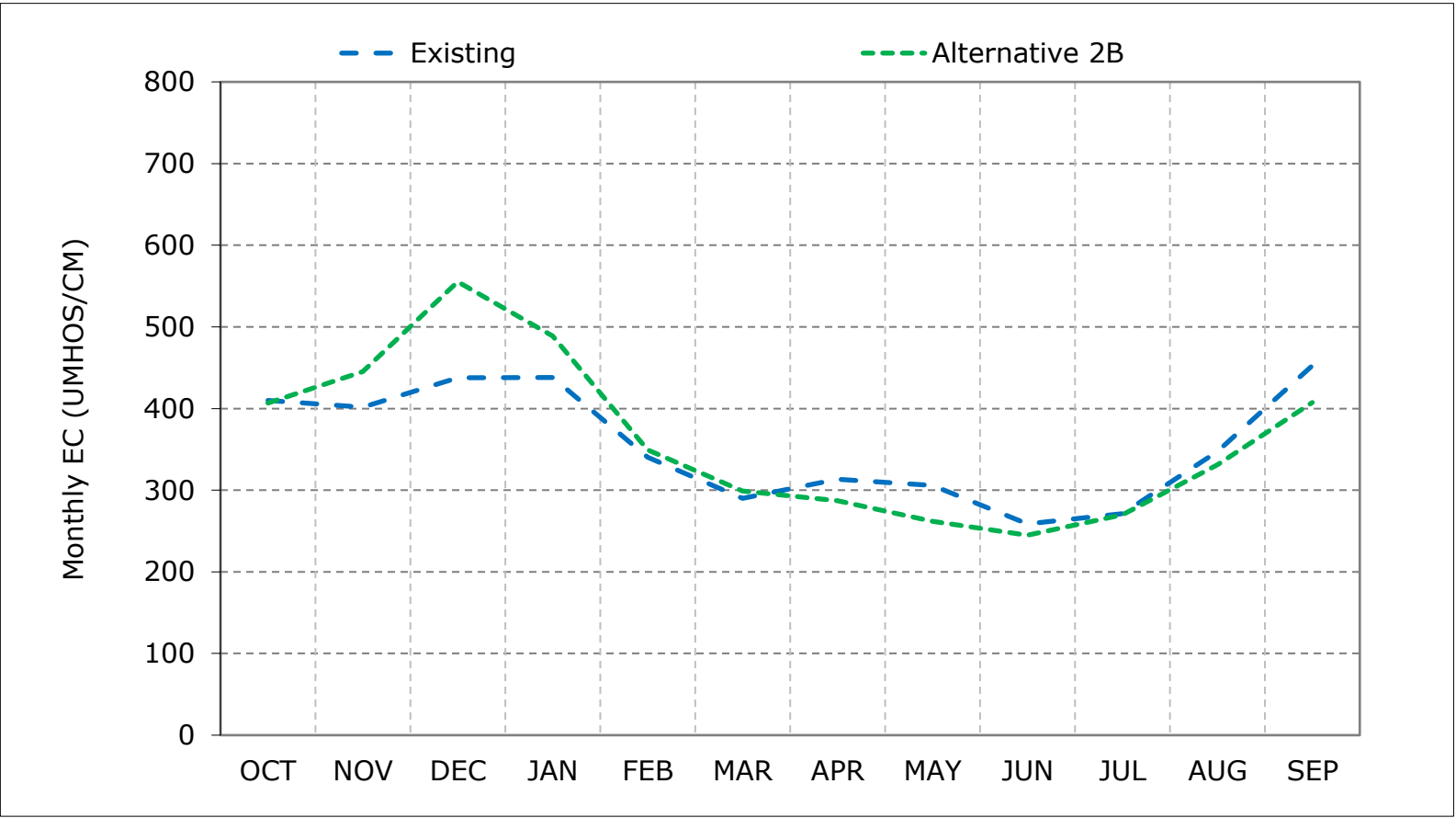
a Based on the 82-year simulation period.

b As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

d Positive differences are highlighted in red color which indicate increase in Salinity (EC).

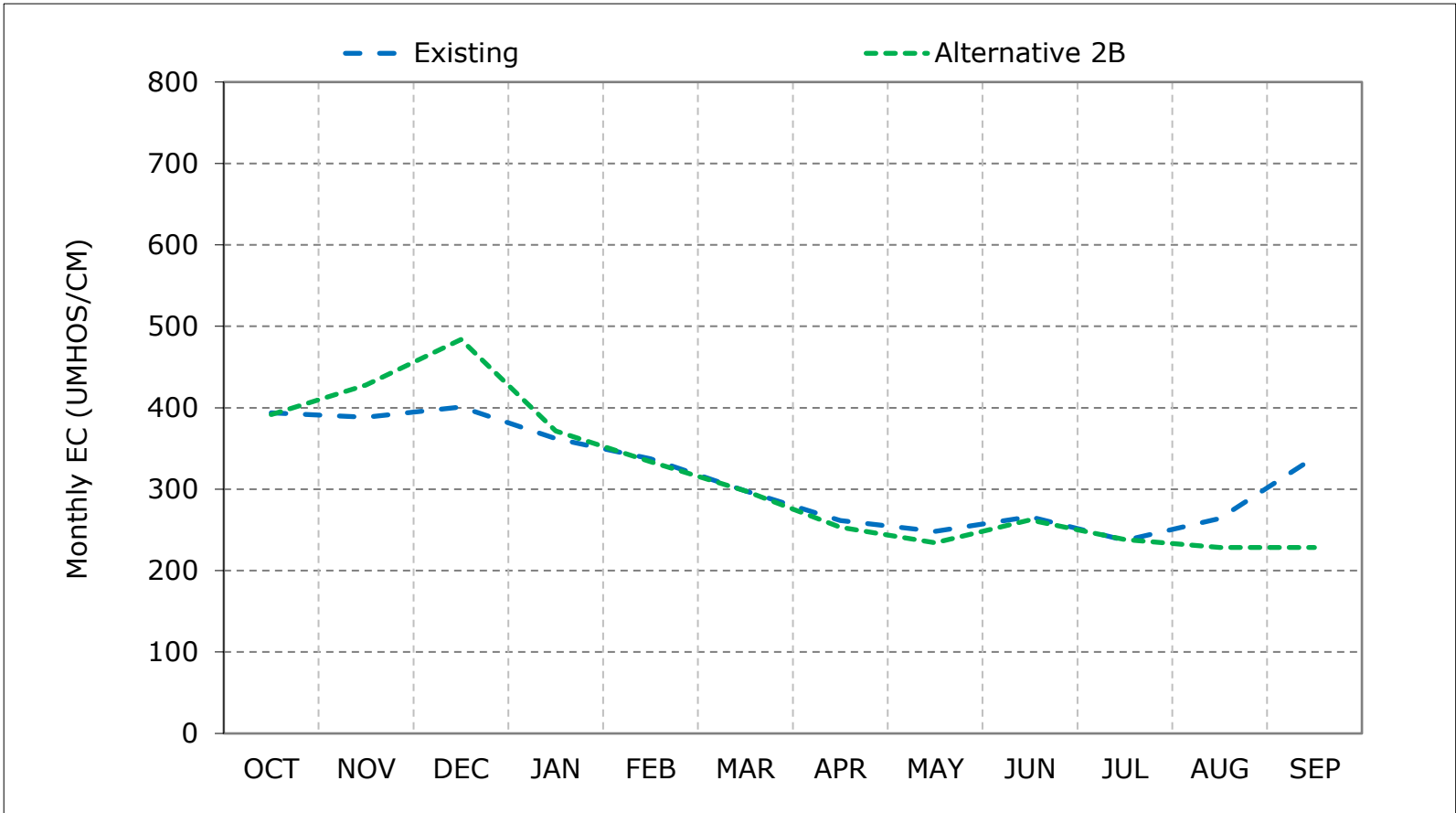
**Figure 14-1. San Joaquin River at Prisoners Point, Long-Term Average EC**



\*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

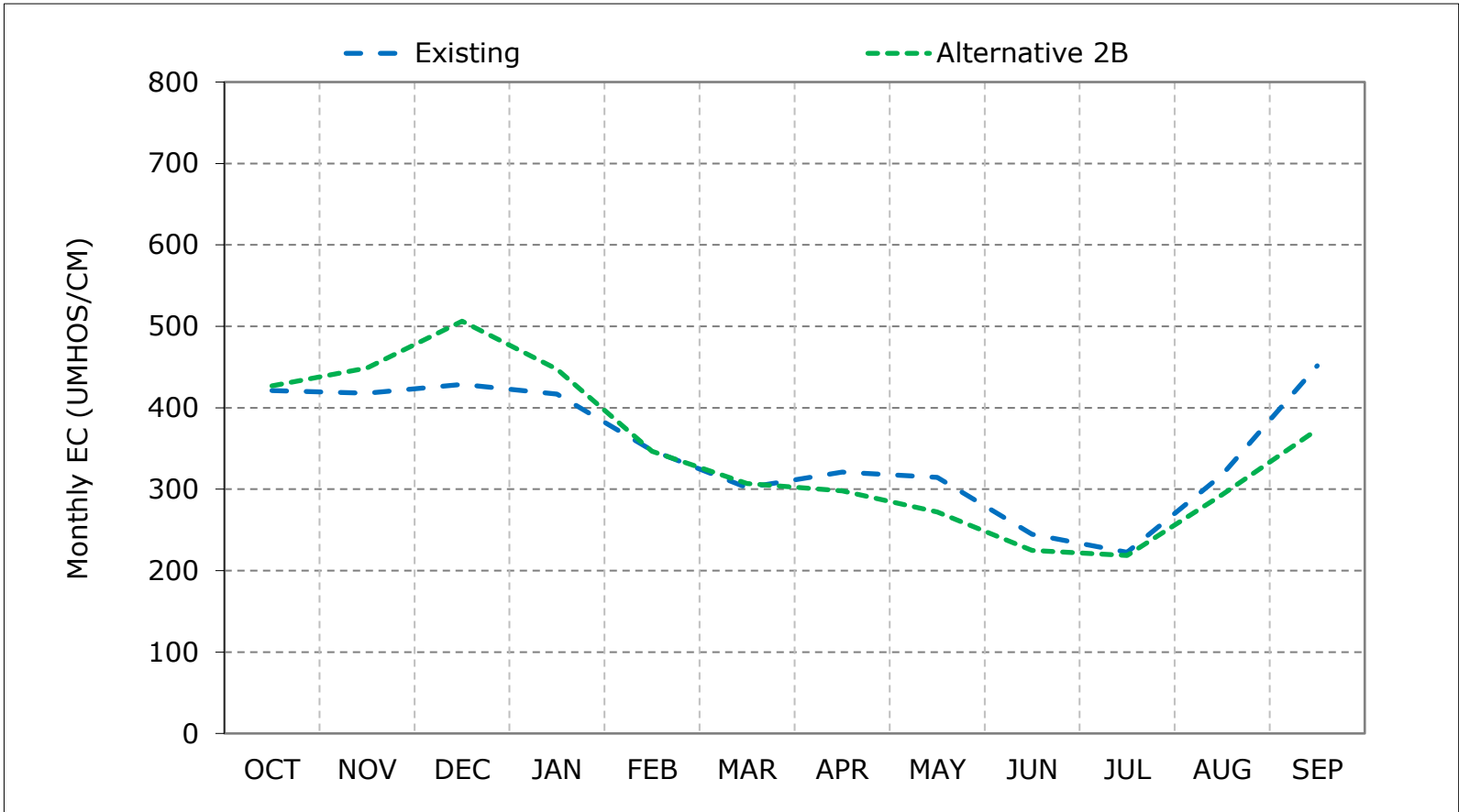
**Figure 14-2. San Joaquin River at Prisoners Point, Wet Year Average EC**



\*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

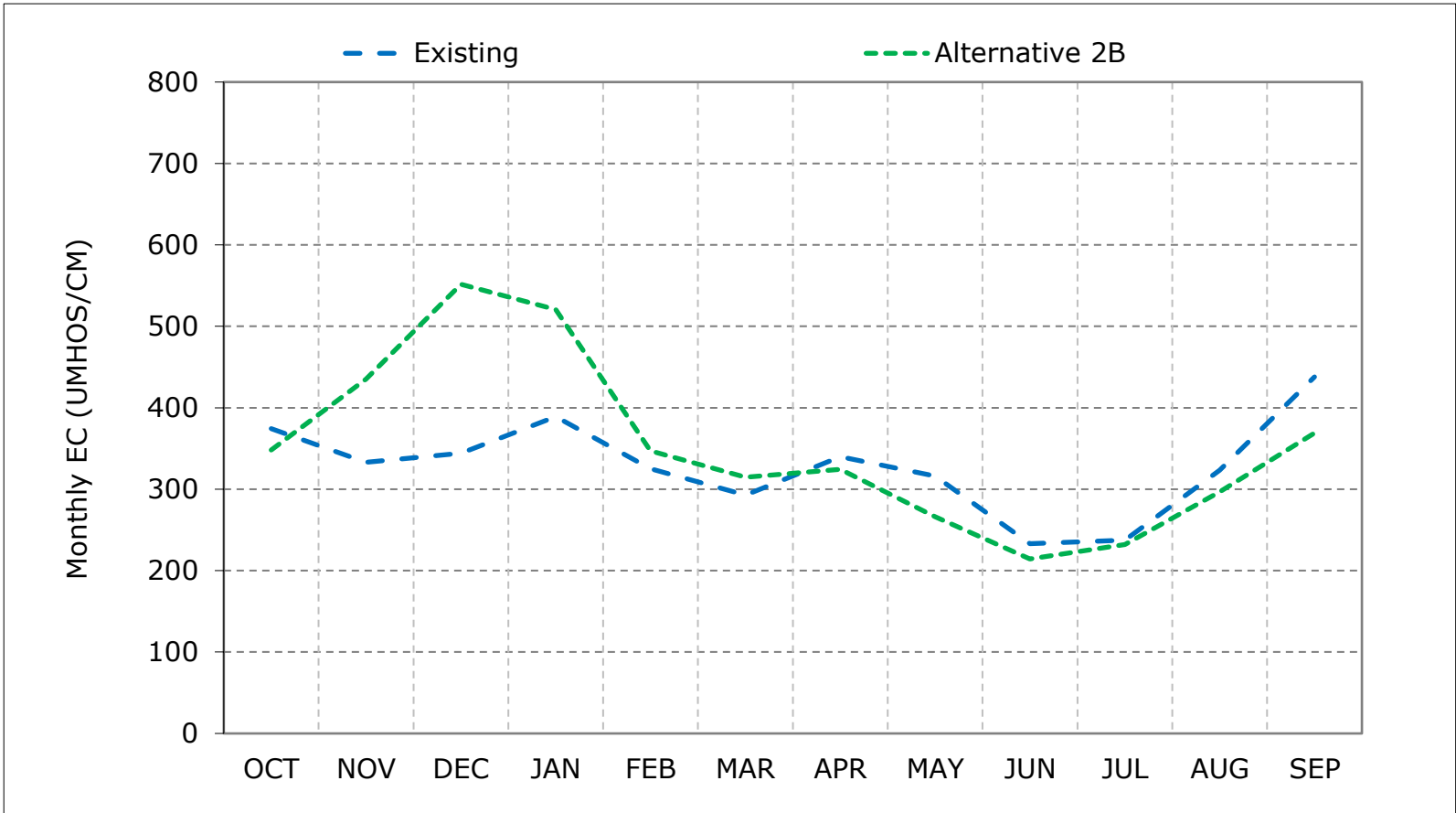
**Figure 14-3. San Joaquin River at Prisoners Point, Above Normal Year Average EC**



\*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

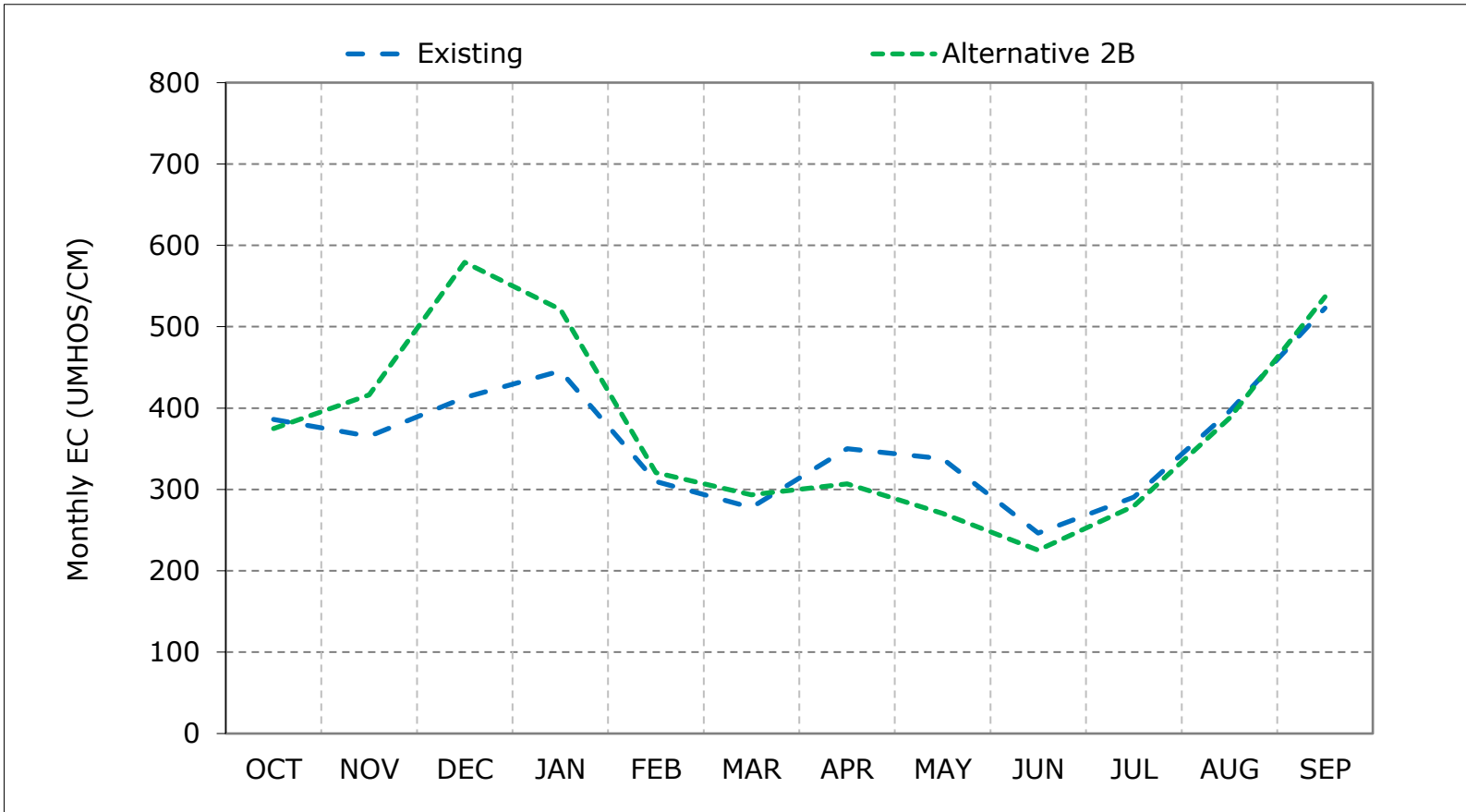
**Figure 14-4. San Joaquin River at Prisoners Point, Below Normal Year Average EC**



\*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

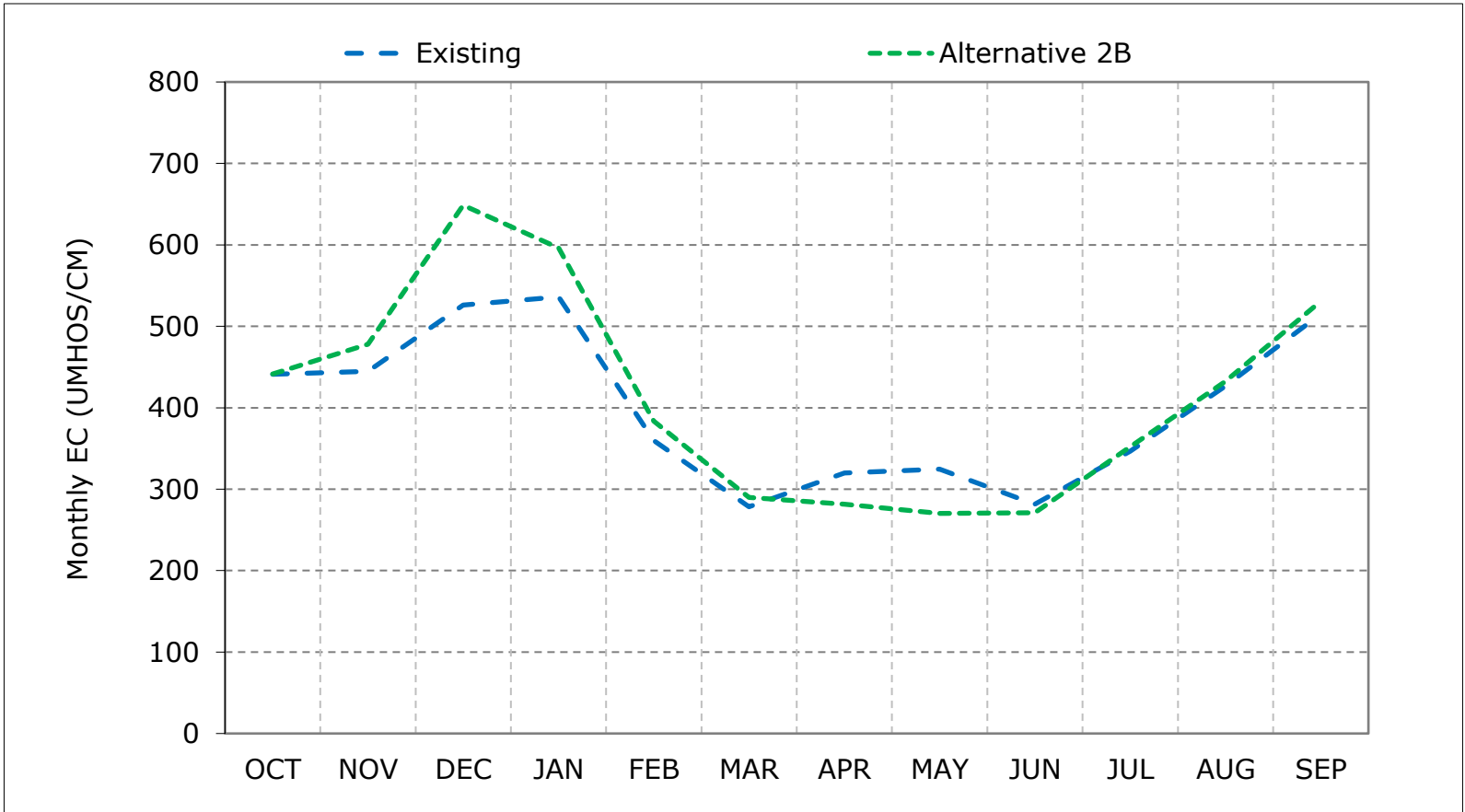
**Figure 14-5. San Joaquin River at Prisoners Point, Dry Year Average EC**



\*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

**Figure 14-6. San Joaquin River at Prisoners Point, Critical Year Average EC**



\*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

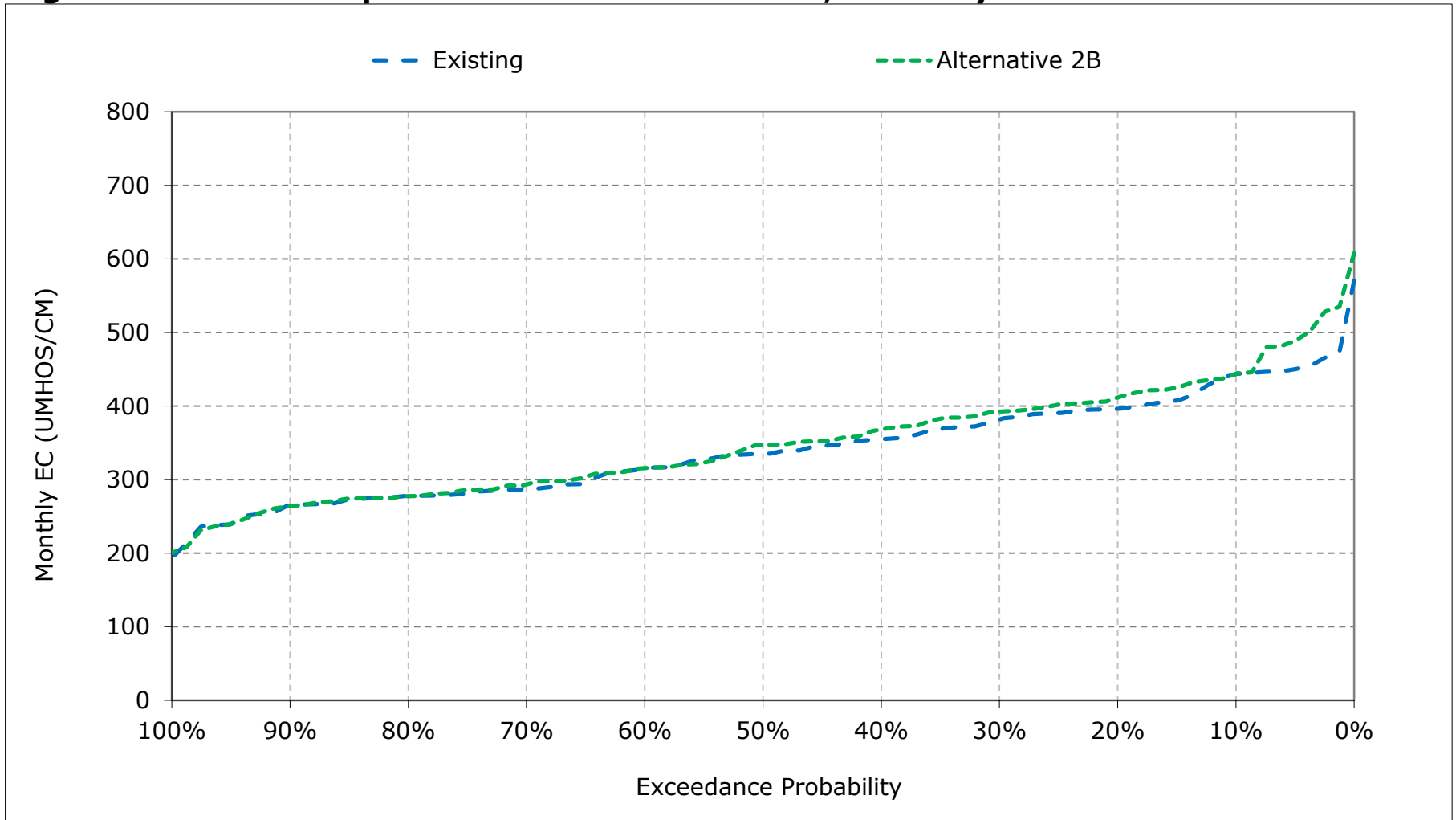
\*These results are displayed with water year - year type sorting.

**Figure 14-7. San Joaquin River at Prisoners Point, January EC**

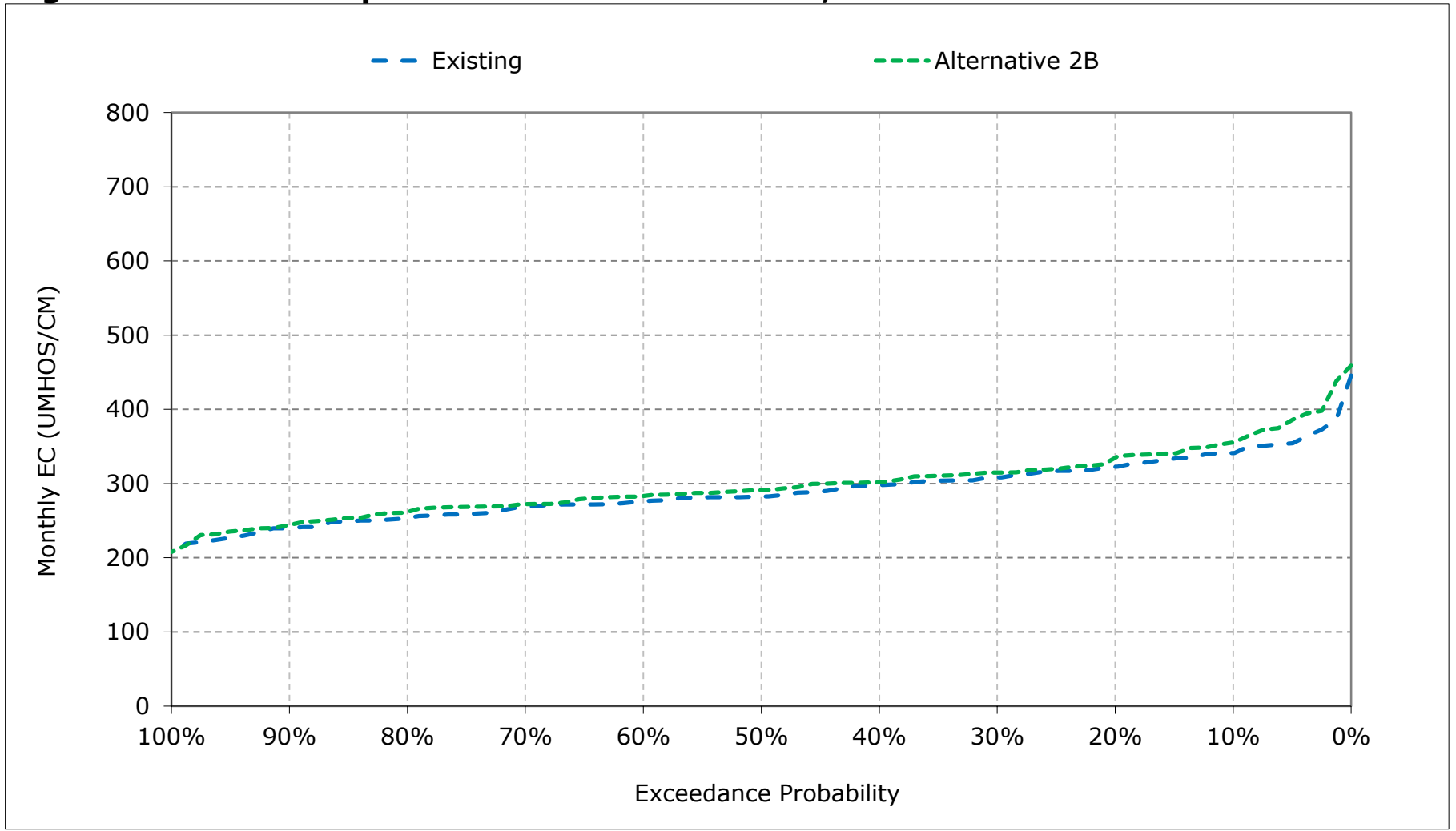




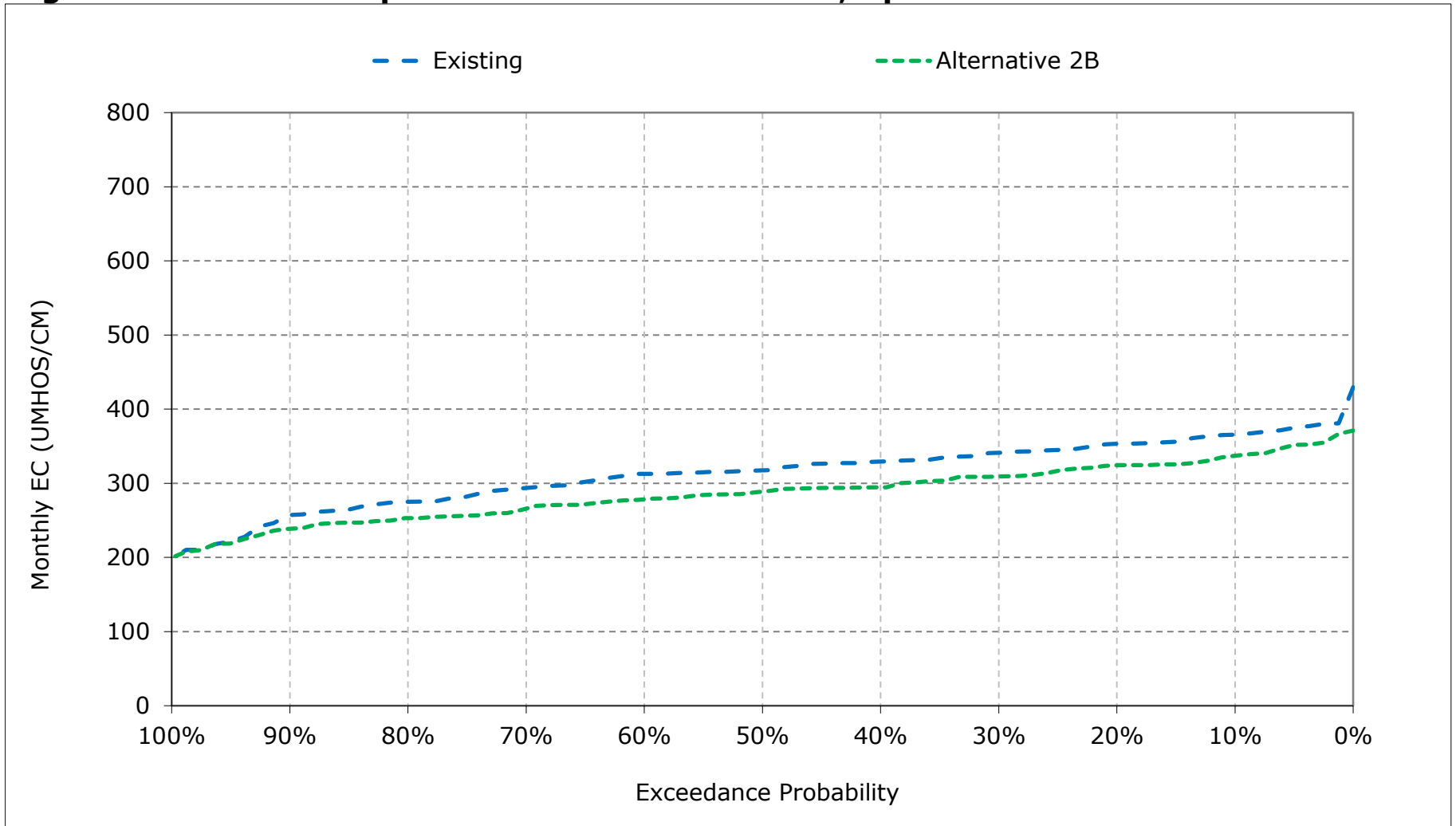
**Figure 14-8. San Joaquin River at Prisoners Point, February EC**



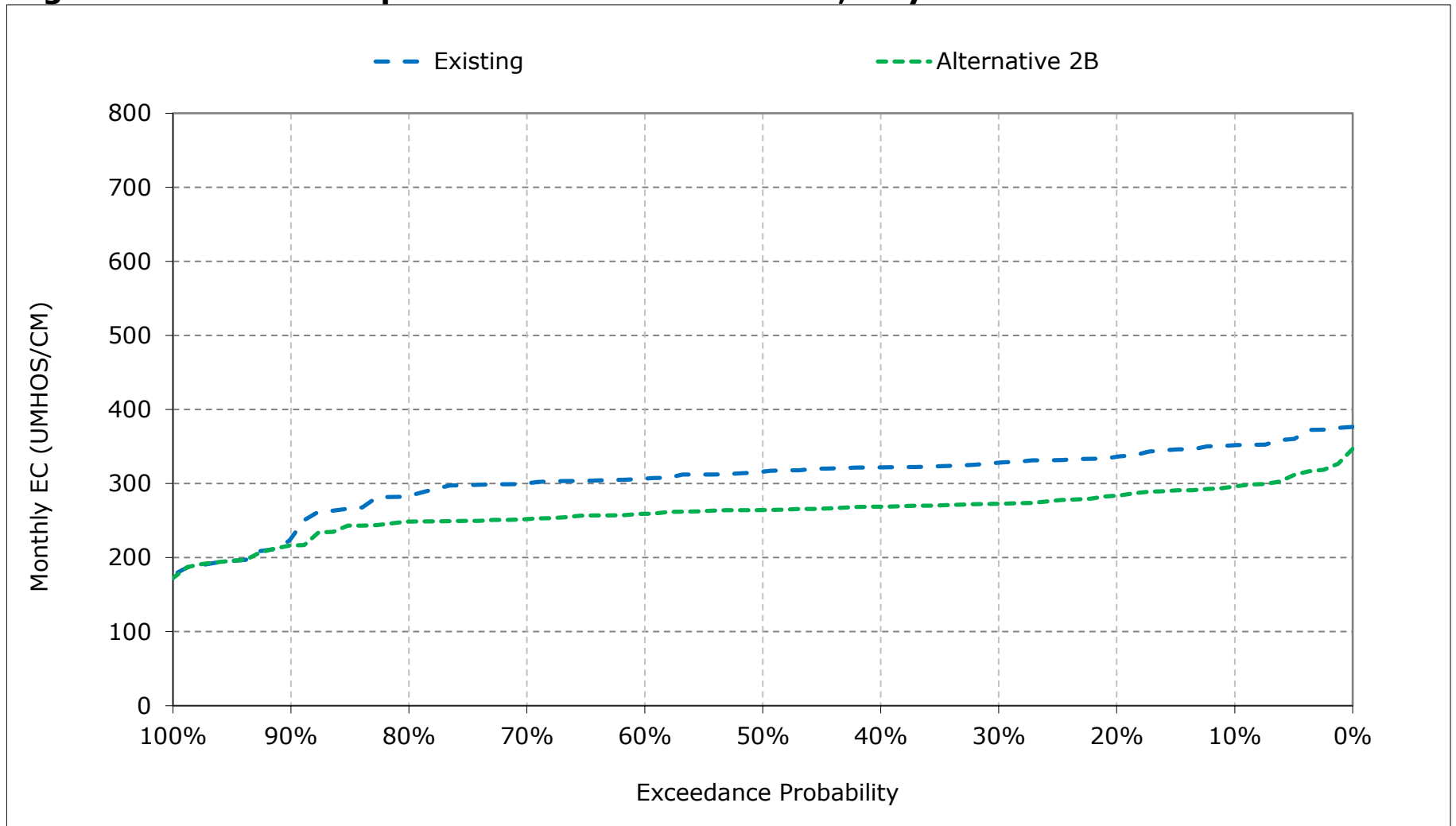
**Figure 14-9. San Joaquin River at Prisoners Point, March EC**



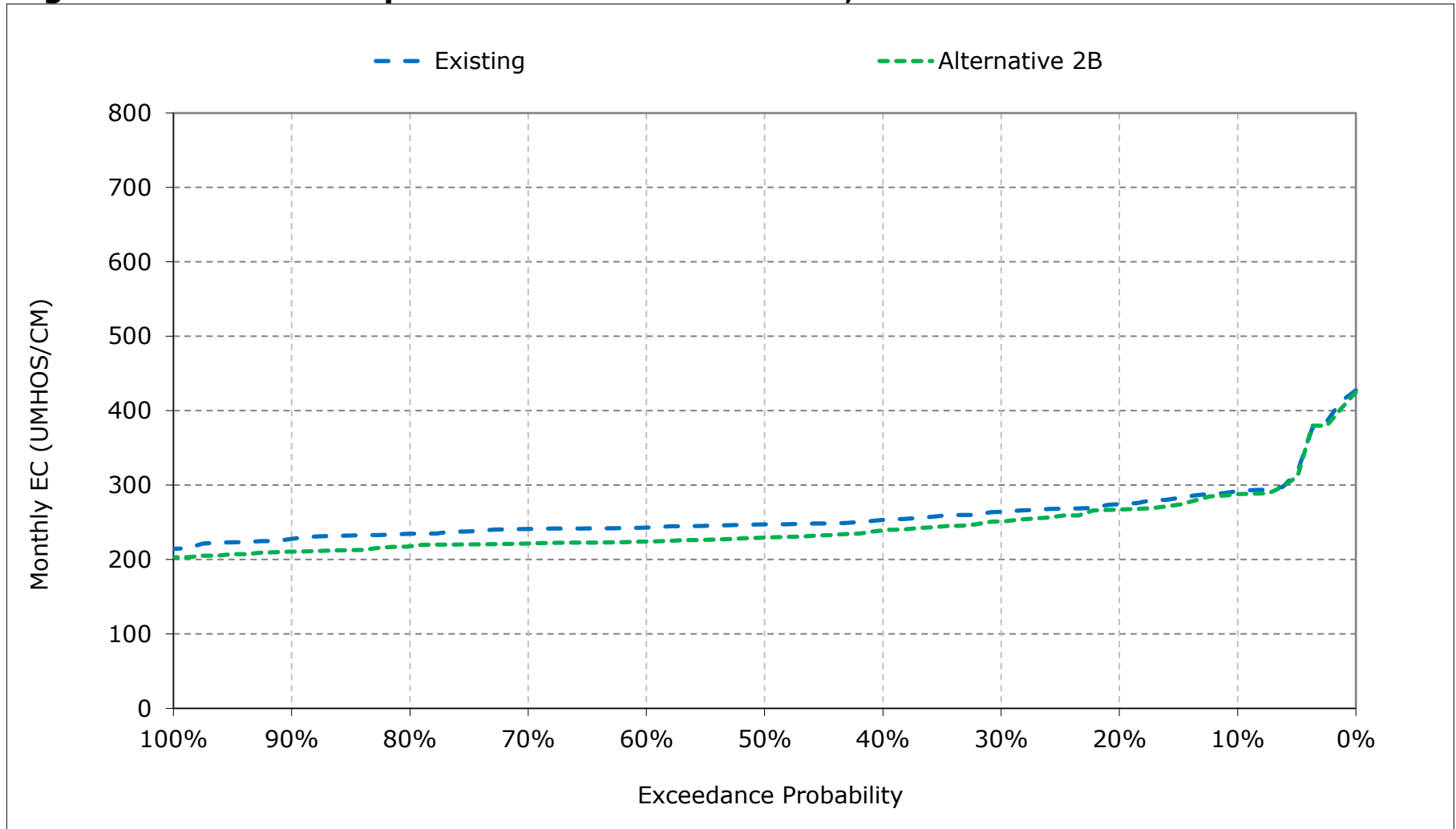
**Figure 14-10. San Joaquin River at Prisoners Point, April EC**



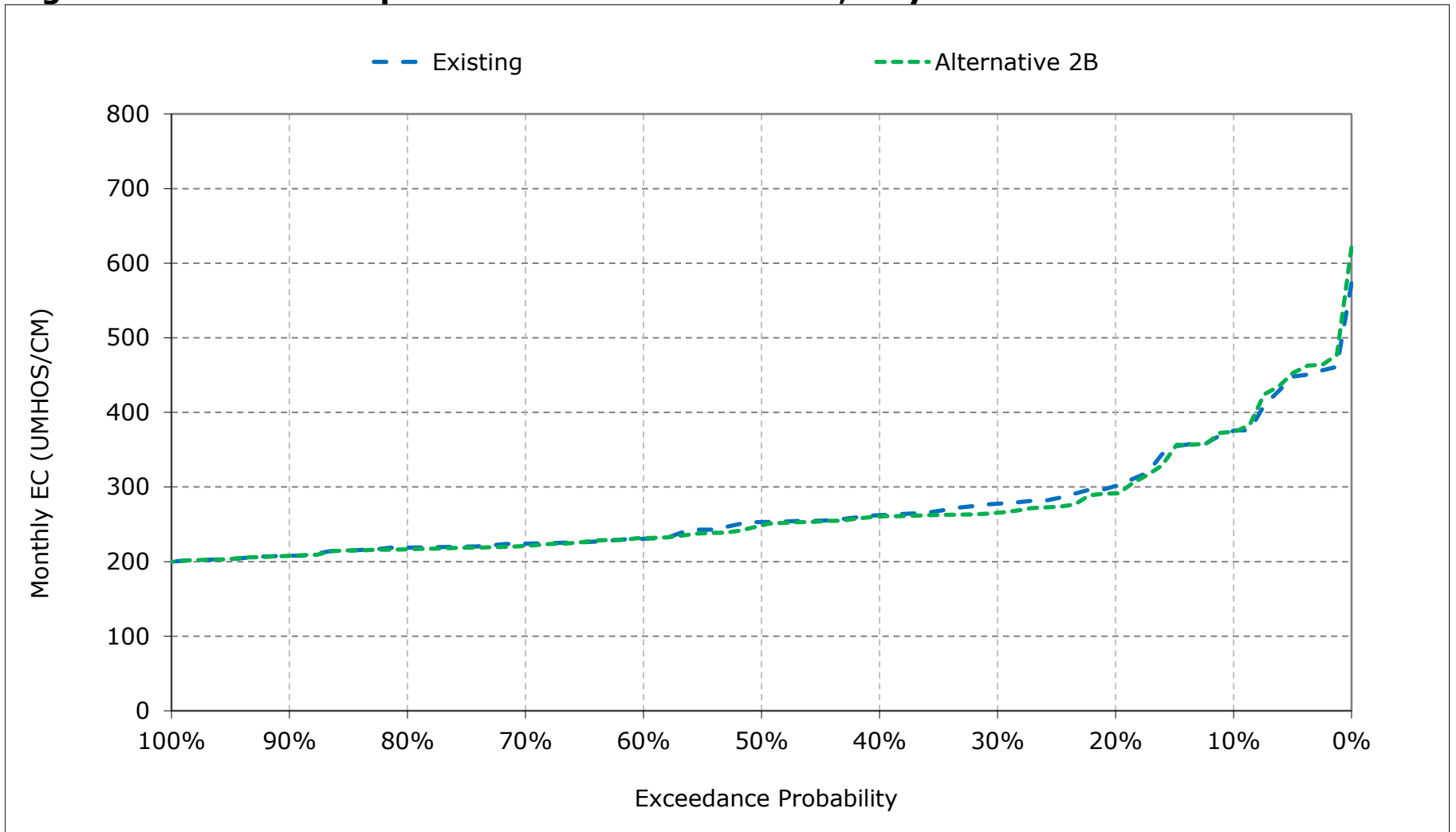
**Figure 14-11. San Joaquin River at Prisoners Point, May EC**



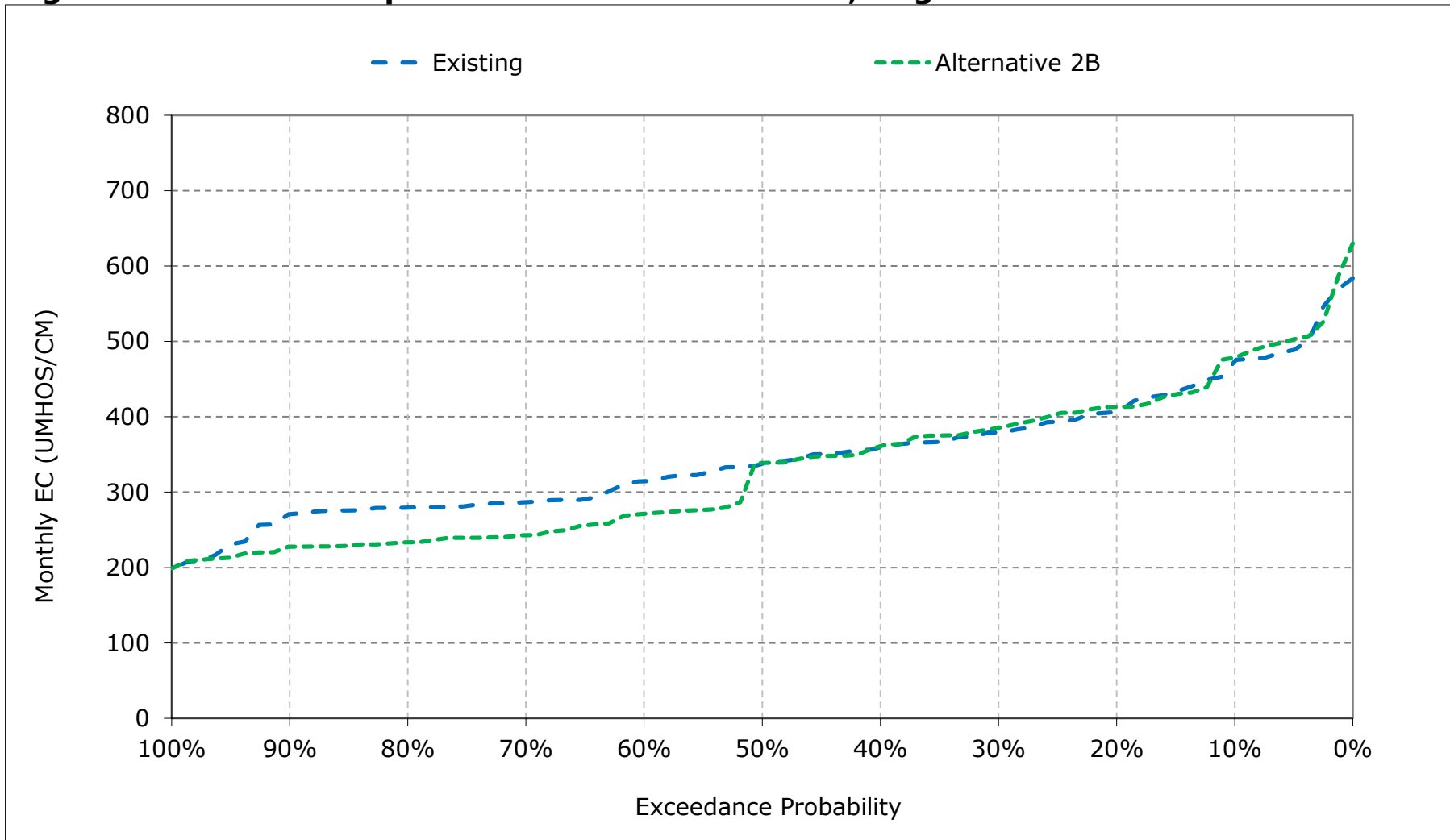
**Figure 14-12. San Joaquin River at Prisoners Point, June EC**



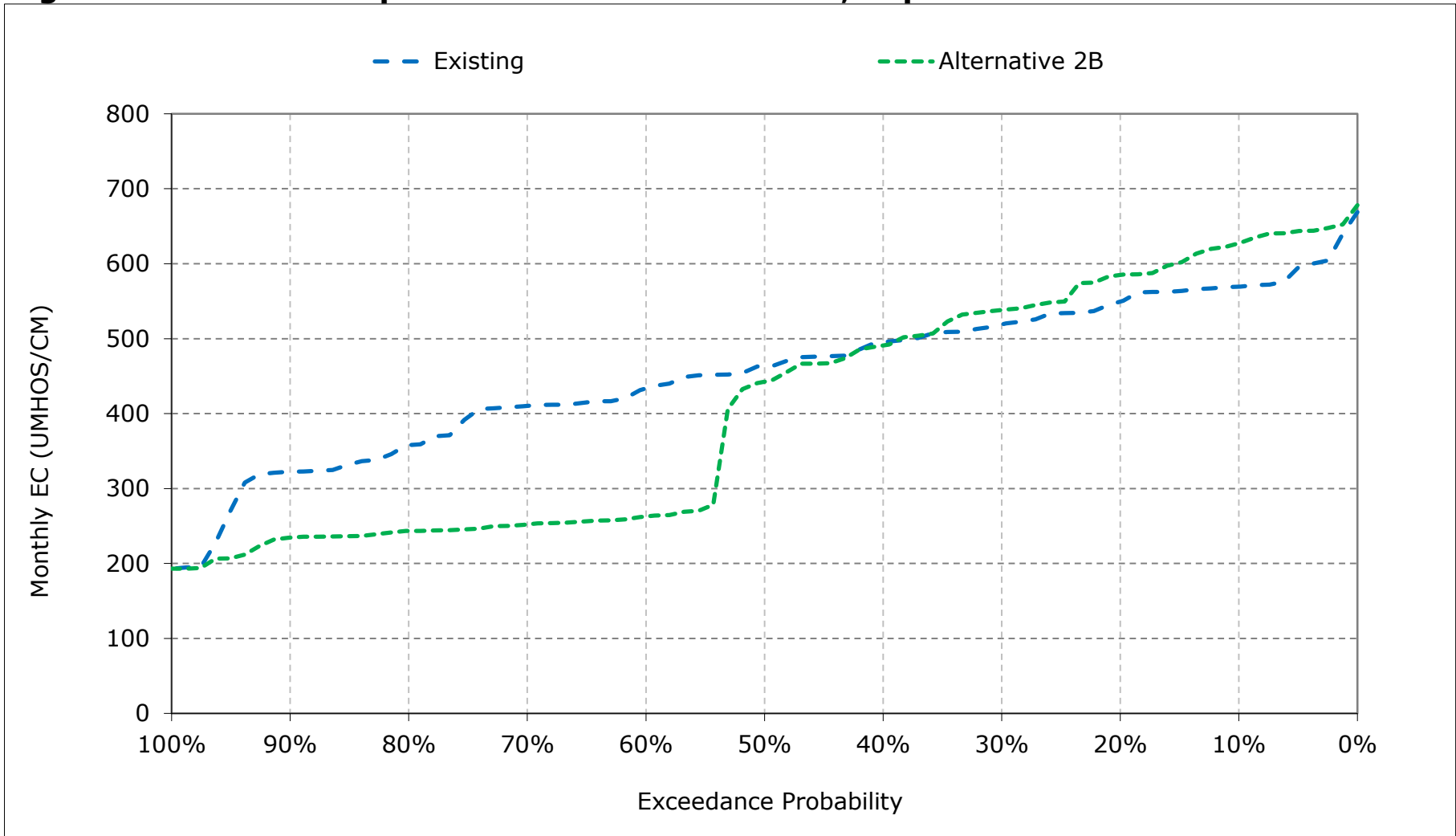
**Figure 14-13. San Joaquin River at Prisoners Point, July EC**



**Figure 14-14. San Joaquin River at Prisoners Point, August EC**

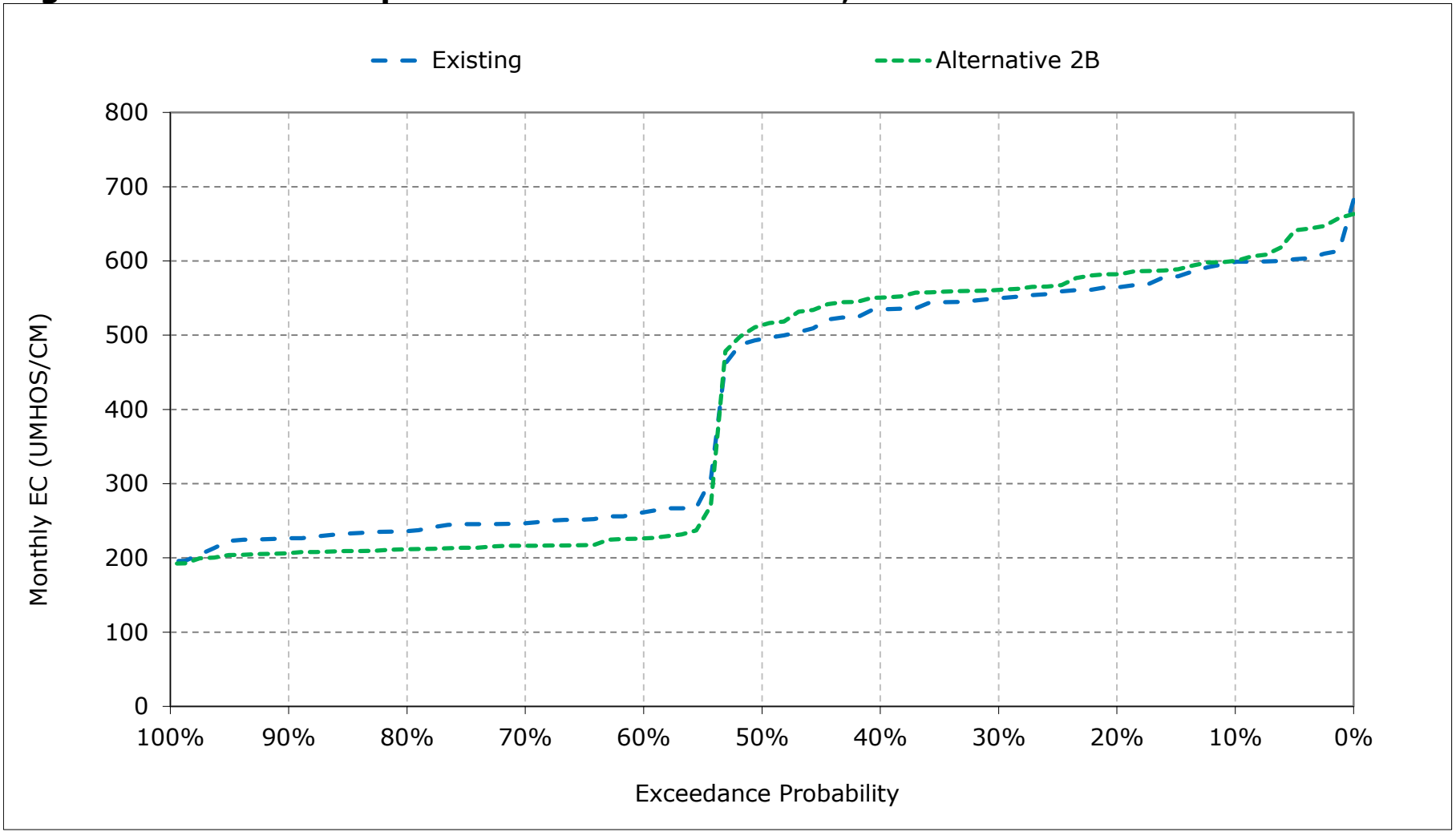


**Figure 14-15. San Joaquin River at Prisoners Point, September EC**

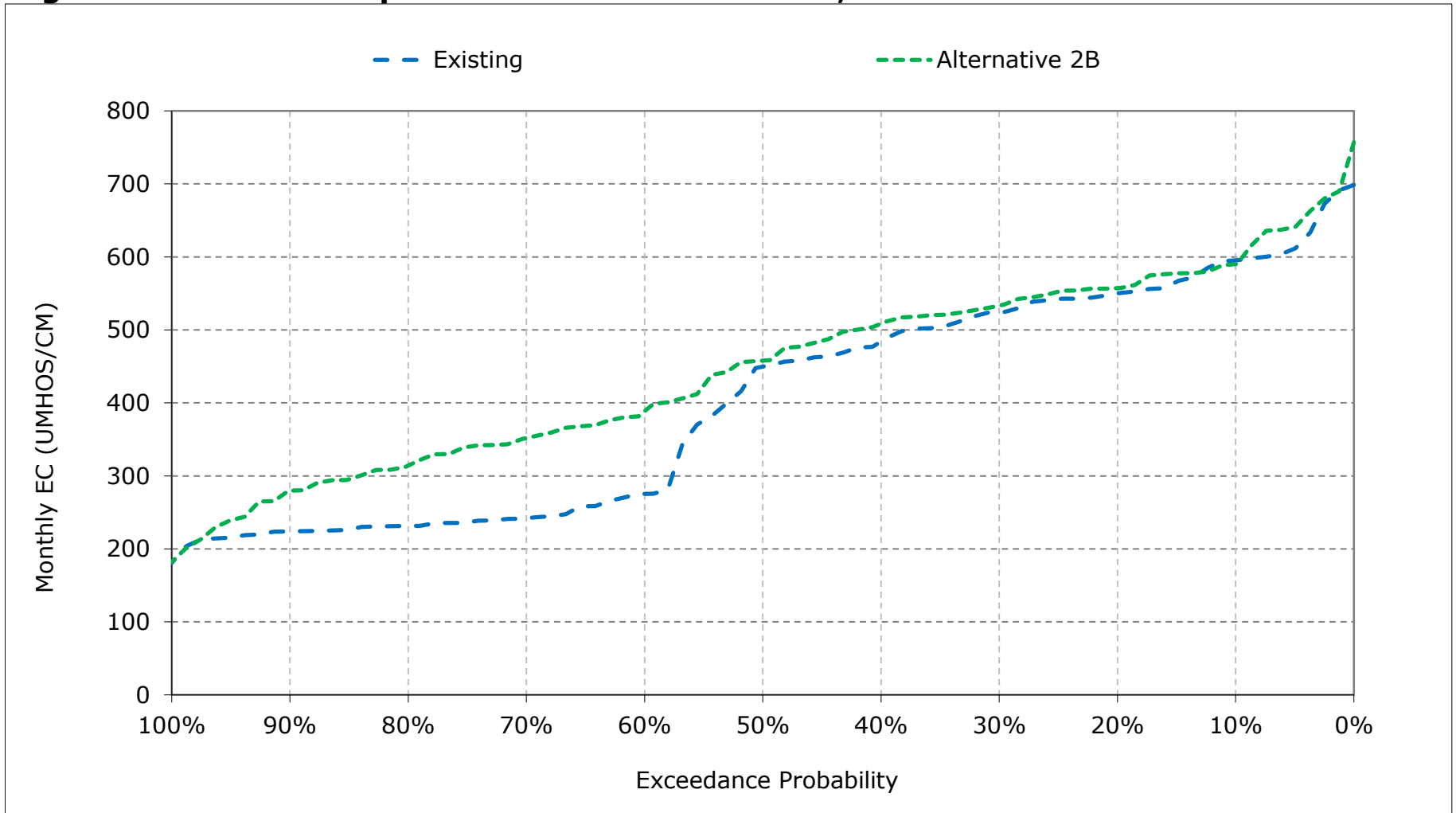




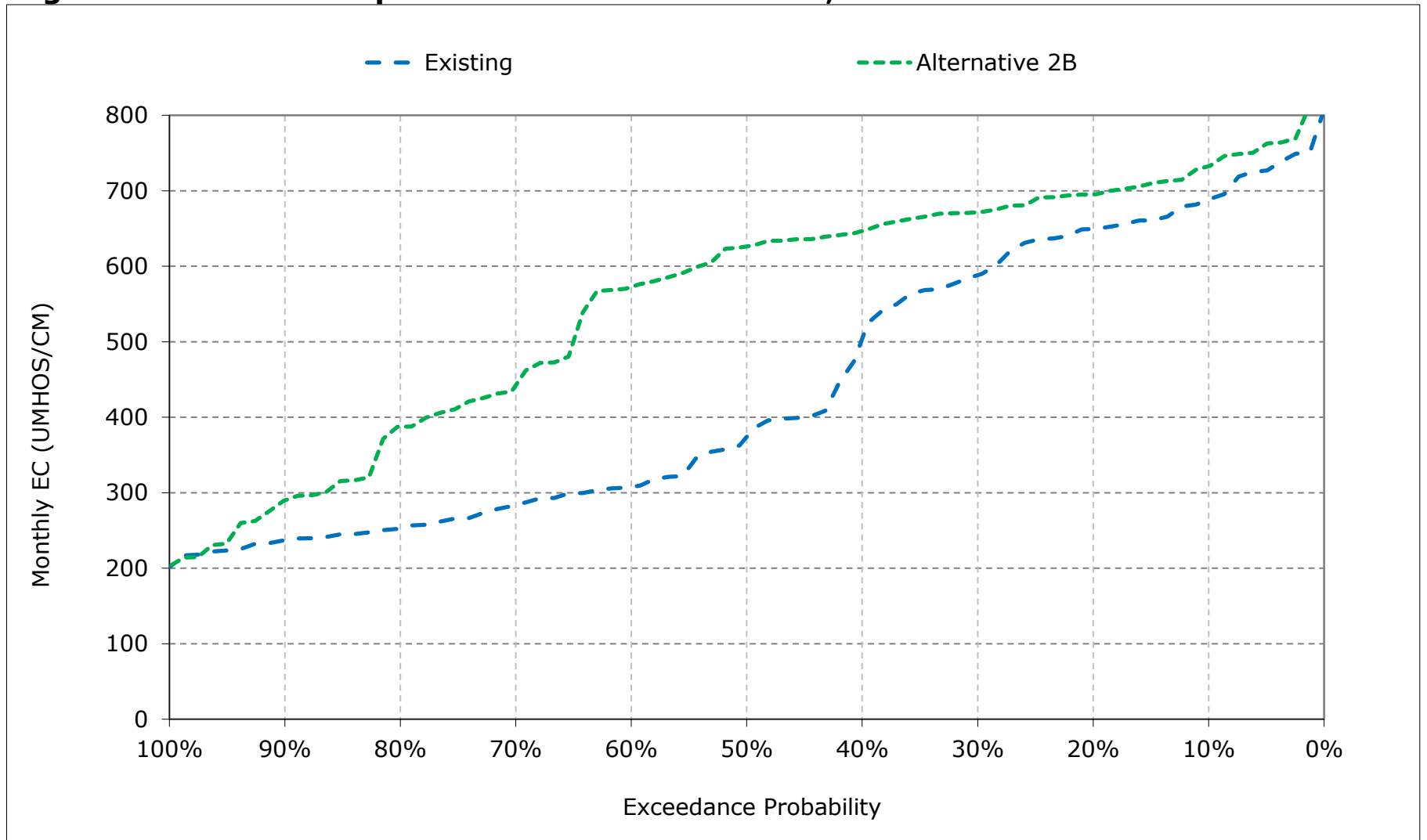
**Figure 14-16. San Joaquin River at Prisoners Point, October EC**



**Figure 14-17. San Joaquin River at Prisoners Point, November EC**



**Figure 14-18. San Joaquin River at Prisoners Point, December EC**



**Table 15-1. Old River at Rock Slough Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	871	839	912	833	508	361	357	375	301	483	645	799
20%	831	768	869	699	418	316	339	352	273	374	544	774
30%	806	729	787	610	394	295	324	325	263	338	495	722
40%	776	673	627	524	360	287	309	314	259	303	471	664
50%	714	588	444	459	341	273	301	308	256	272	432	622
60%	275	310	342	419	306	264	288	298	252	254	397	571
70%	263	251	299	342	289	254	283	293	248	245	357	535
80%	259	236	272	312	275	243	270	282	240	230	344	476
90%	249	223	243	275	262	233	247	247	233	220	324	436
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	555	522	544	517	360	285	302	308	270	319	449	614
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	459	415	371	343	331	285	289	280	243	235	335	492
Above Normal (15%)	618	541	542	485	345	286	321	328	252	244	361	454
Below Normal (17%)	573	549	617	591	338	270	317	335	252	305	470	762
Dry (22%)	560	571	617	566	361	268	296	309	264	389	545	686
Critical (15%)	668	632	729	769	459	330	301	315	373	487	613	755

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	882	825	941	981	529	383	337	297	288	486	657	876
20%	839	772	909	877	477	336	311	281	265	358	556	816
30%	818	735	889	787	409	305	295	277	252	319	510	746
40%	796	705	858	655	379	295	291	268	243	299	473	672
50%	742	630	836	501	351	285	280	262	238	273	436	595
60%	253	512	763	440	318	271	275	257	233	252	334	336
70%	236	447	568	355	298	263	267	253	230	240	289	315
80%	229	403	484	321	277	250	260	247	225	231	274	302
90%	221	341	308	284	263	244	247	237	219	221	250	281
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	554	593	717	591	377	298	287	268	257	317	423	547
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	457	511	525	372	334	296	273	249	232	236	271	283
Above Normal (15%)	619	617	735	575	363	301	296	266	232	241	298	319
Below Normal (17%)	571	623	789	677	344	279	289	270	233	286	489	841
Dry (22%)	551	622	824	699	398	285	285	270	251	385	543	707
Critical (15%)	686	670	870	816	491	343	307	303	373	501	618	764

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	11	-14	29	149	21	21	-20	-78	-14	2	12	76
20%	8	4	40	178	59	20	-28	-71	-8	-15	12	42
30%	12	6	102	177	15	10	-29	-48	-11	-19	16	24
40%	20	32	231	131	19	9	-19	-46	-16	-4	2	8
50%	28	42	391	41	10	12	-21	-46	-18	1	4	-26
60%	-22	202	421	20	11	7	-13	-41	-19	-2	-63	-235
70%	-28	195	269	14	9	9	-15	-40	-17	-5	-67	-220
80%	-30	166	212	9	3	7	-10	-35	-15	1	-70	-175
90%	-27	118	64	9	0	11	0	-10	-14	0	-75	-155
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-1	71	173	73	17	13	-15	-40	-13	-2	-26	-67
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	-2	95	154	29	3	11	-16	-31	-11	0	-64	-209
Above Normal (15%)	0	76	193	90	18	14	-25	-62	-20	-3	-64	-134
Below Normal (17%)	-2	75	172	86	6	9	-28	-66	-19	-19	19	79
Dry (22%)	-9	51	207	134	37	17	-11	-39	-13	-5	-2	20
Critical (15%)	17	39	141	47	32	14	7	-11	0	14	5	9

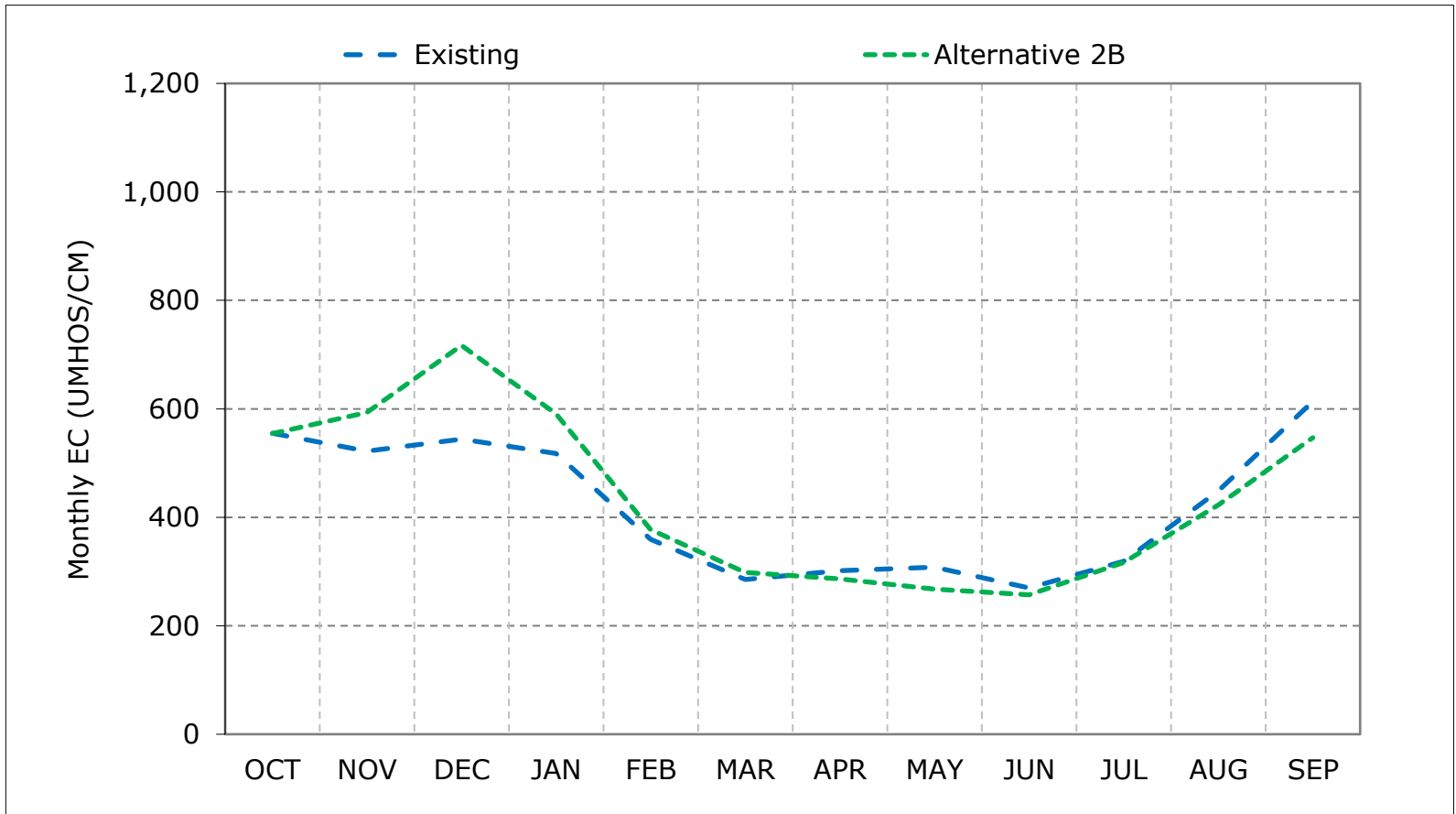
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

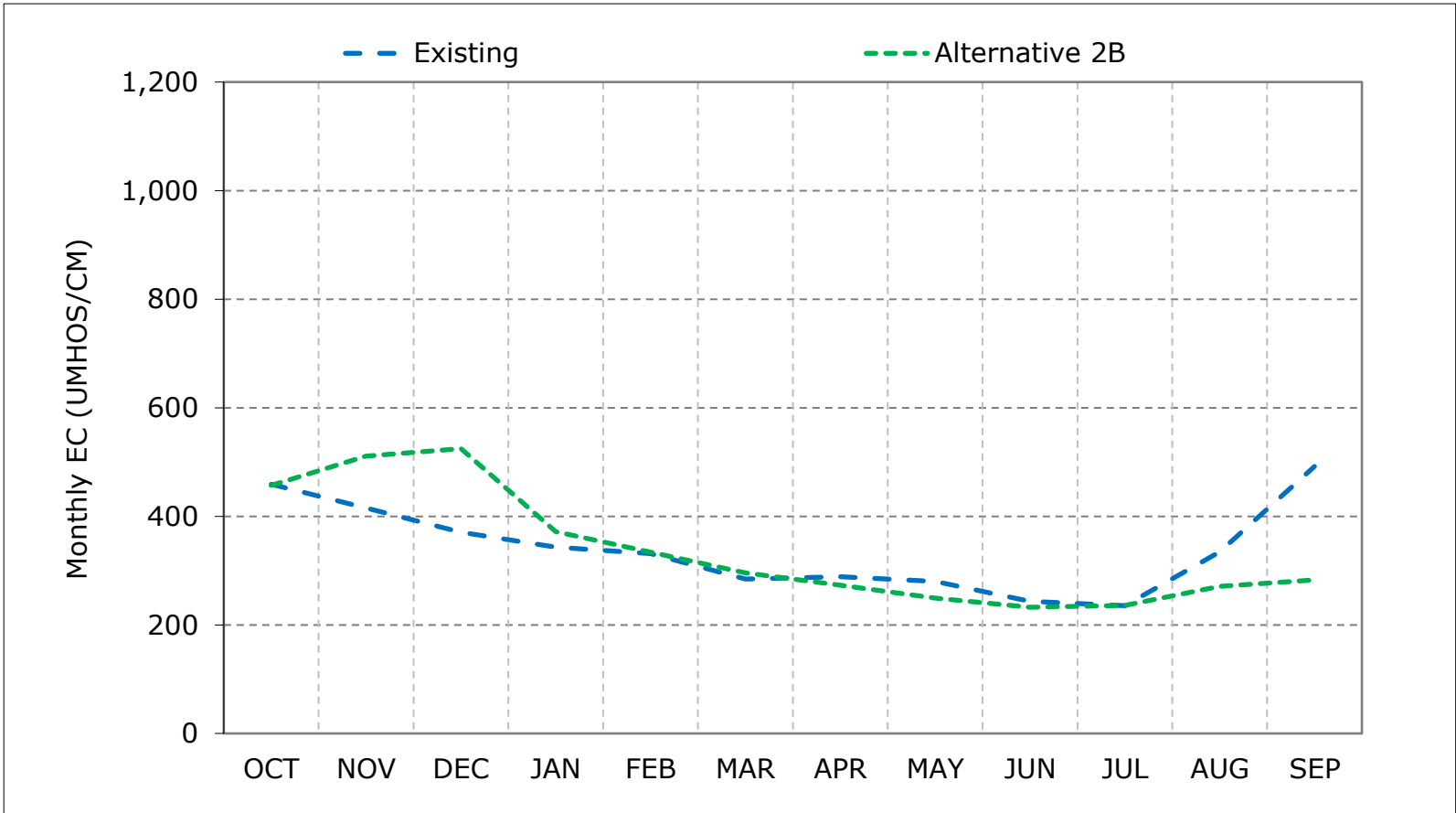
**Figure 15-1. Old River at Rock Slough Salinity, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

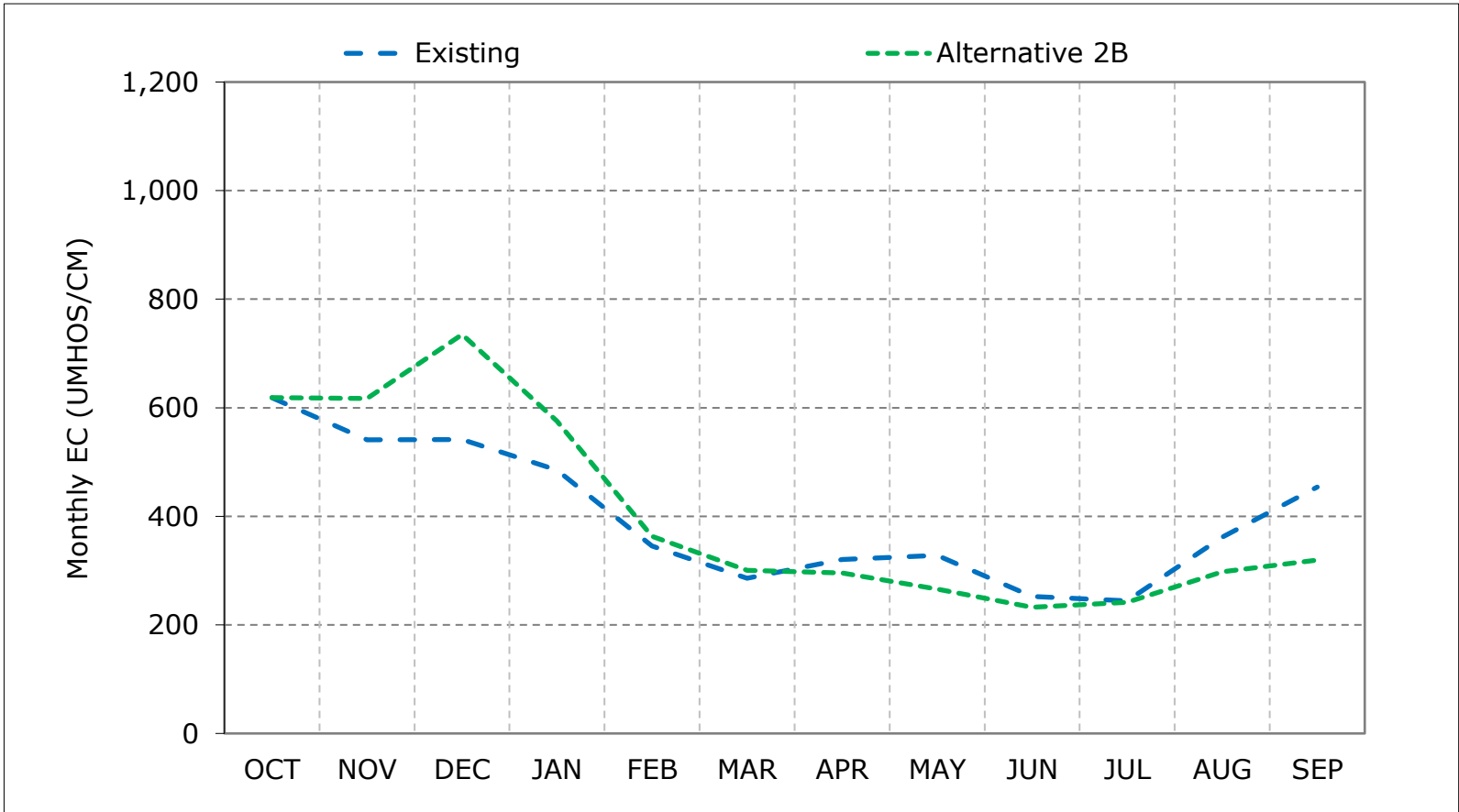
**Figure 15-2. Old River at Rock Slough Salinity, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

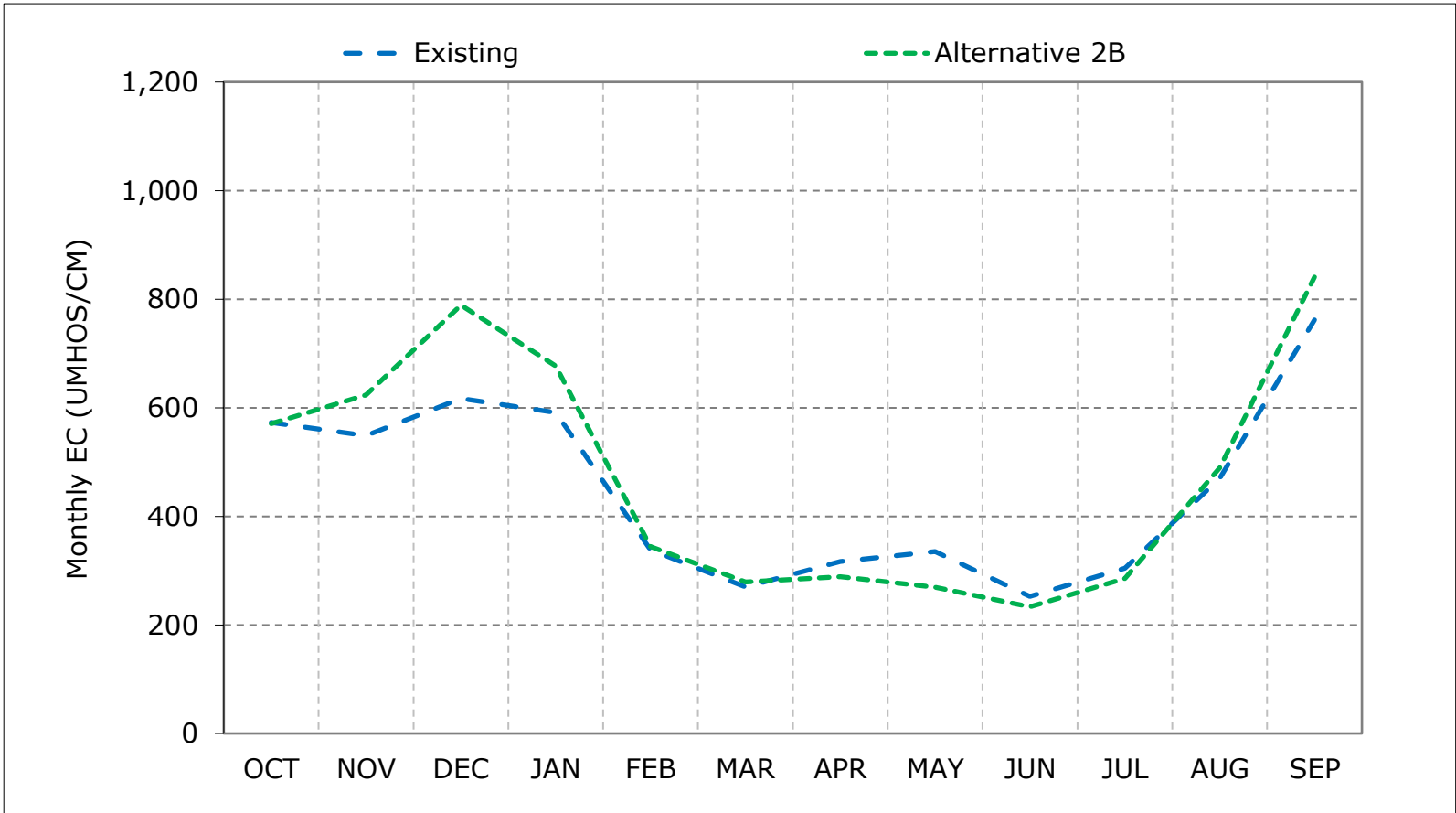
**Figure 15-3. Old River at Rock Slough Salinity, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 15-4. Old River at Rock Slough Salinity, Below Normal Year Average EC**

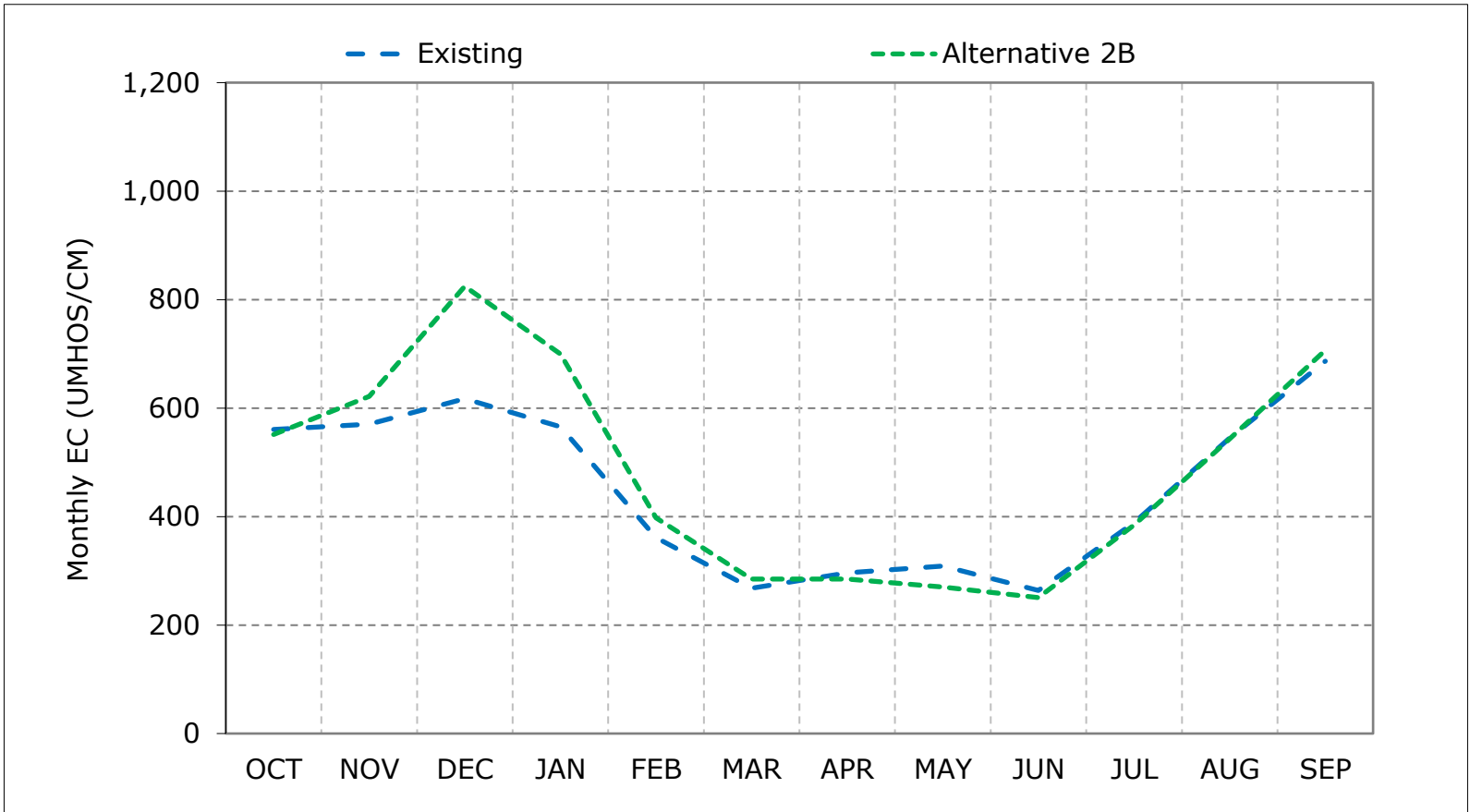


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



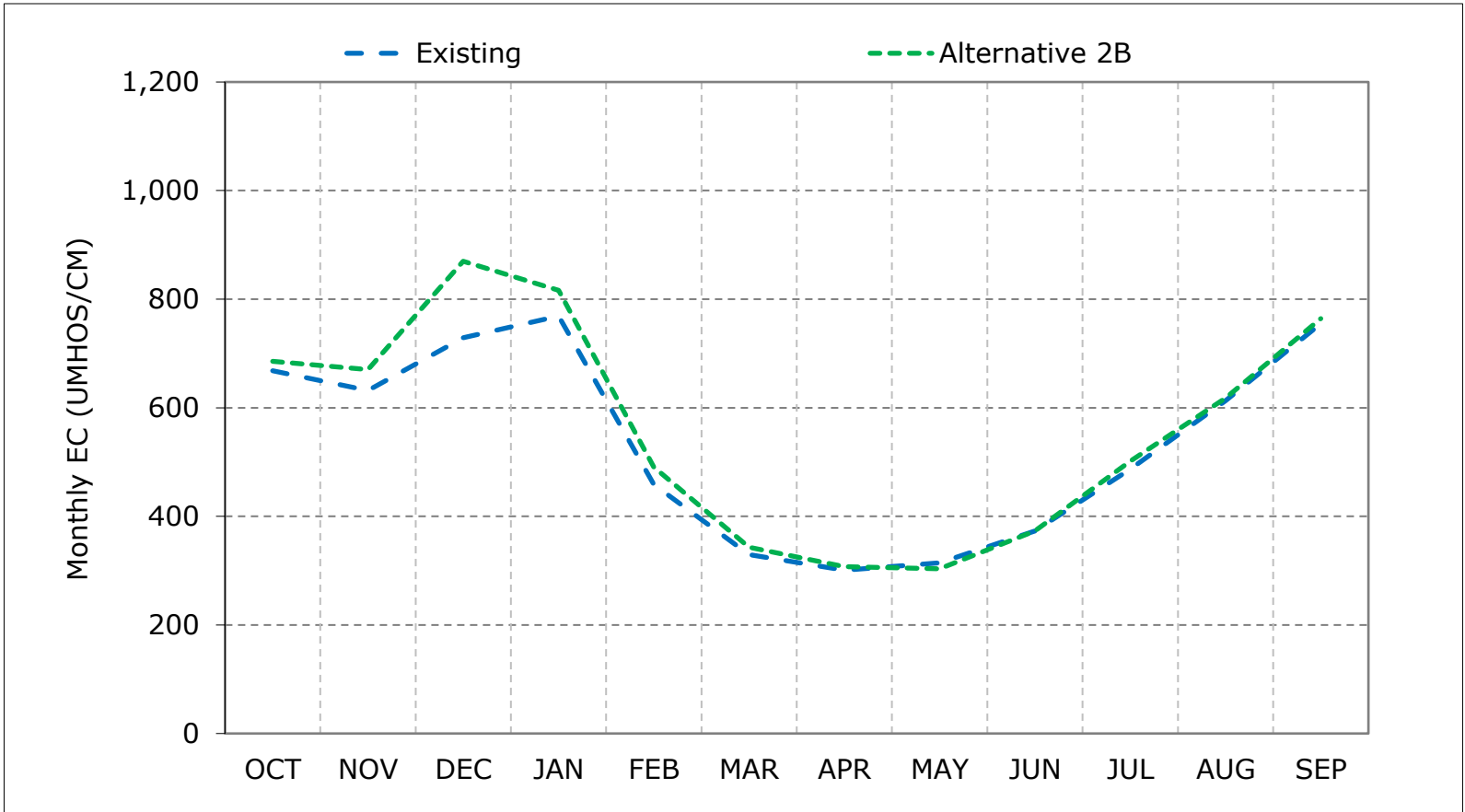
**Figure 15-5. Old River at Rock Slough Salinity, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 15-6. Old River at Rock Slough Salinity, Critical Year Average EC**



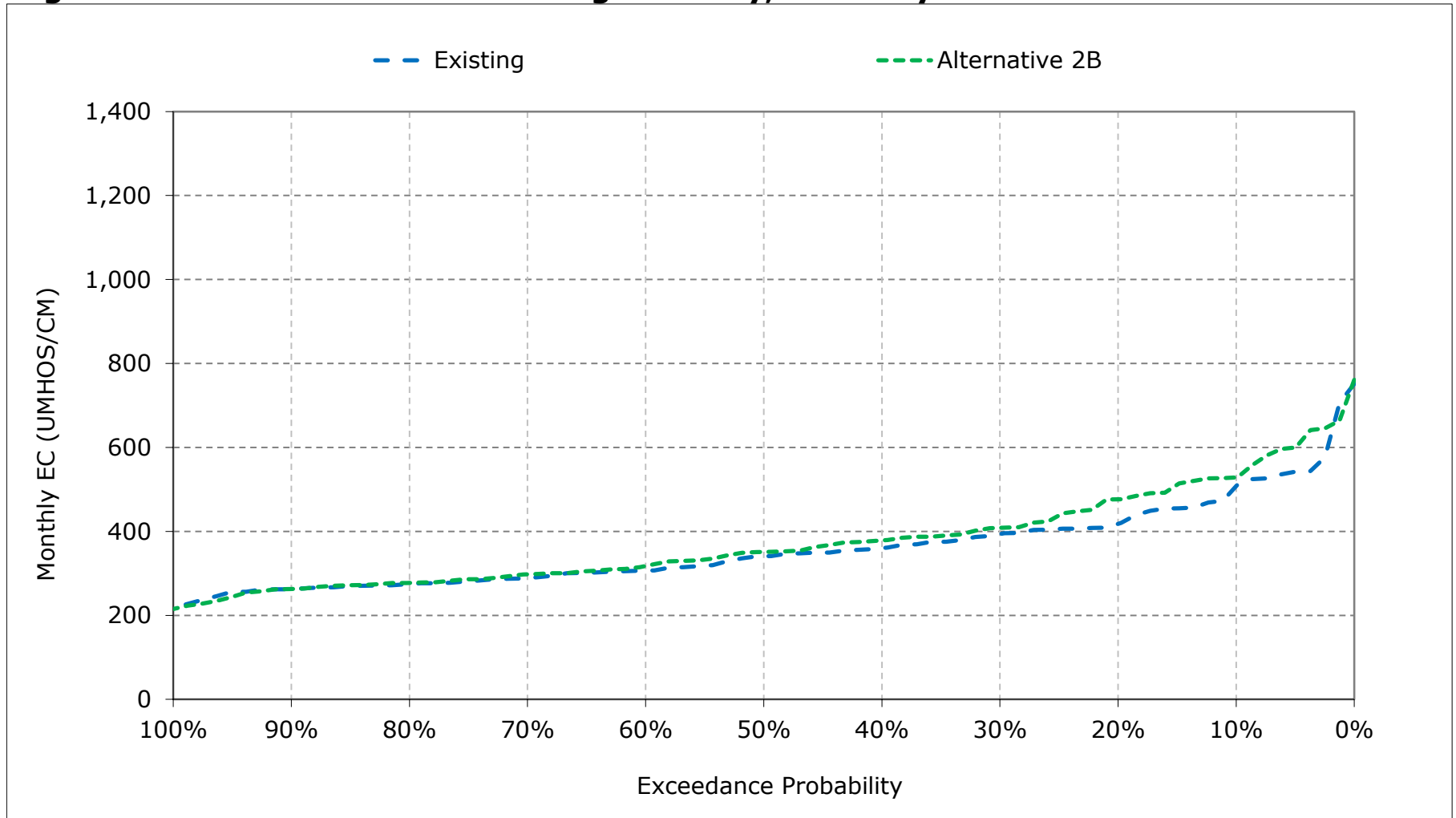
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

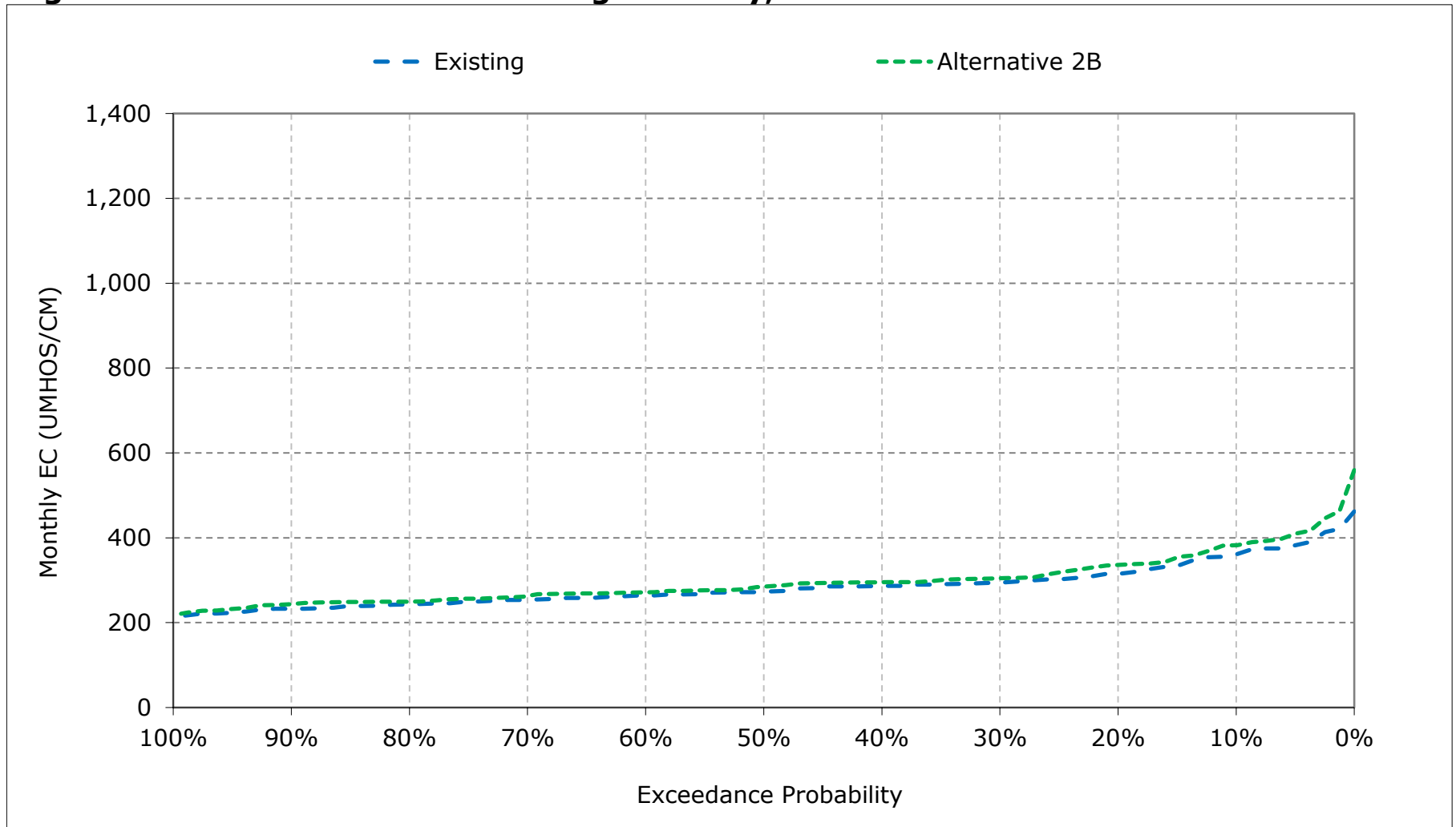
**Figure 15-7. Old River at Rock Slough Salinity, January EC**



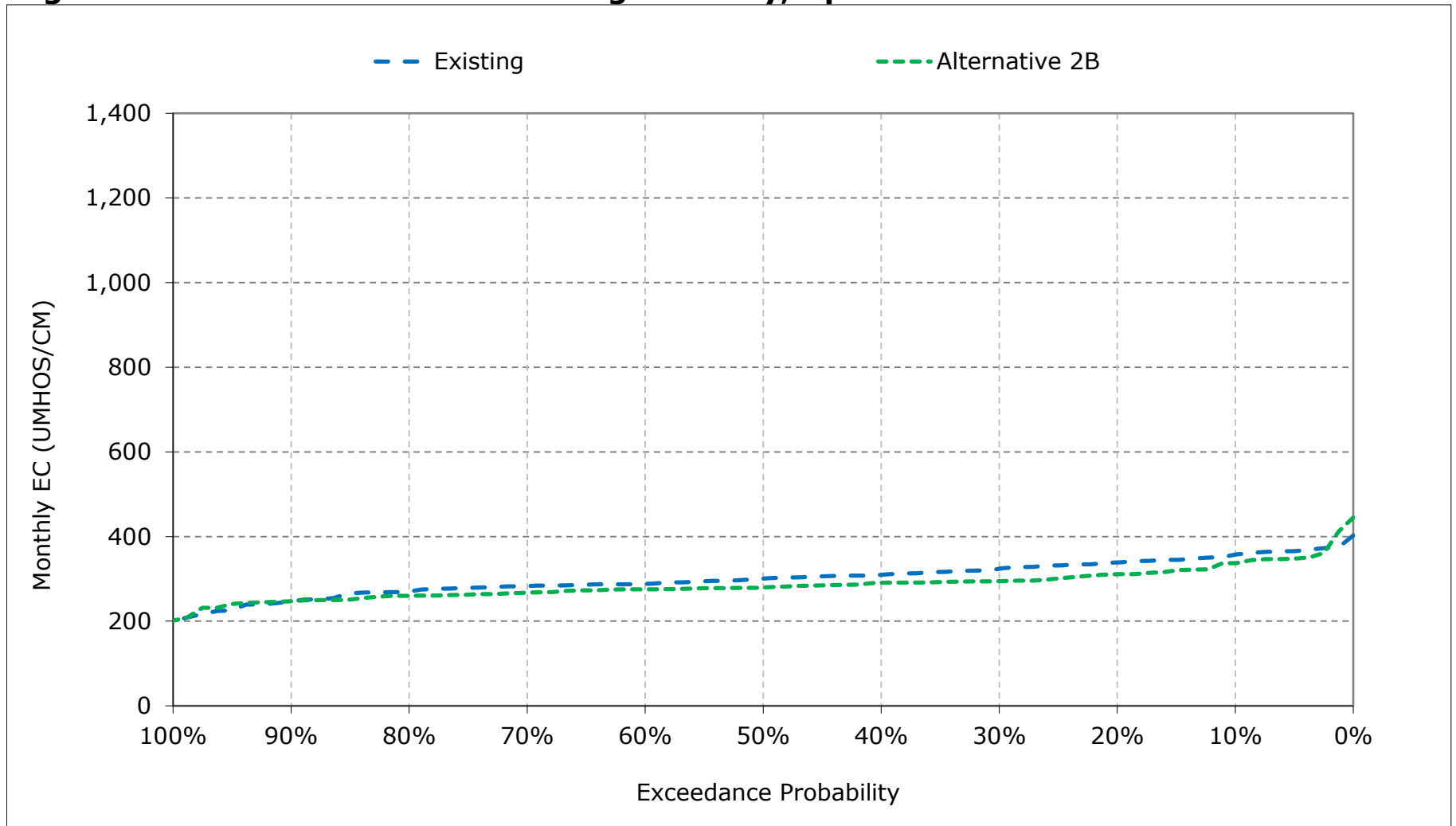
**Figure 15-8. Old River at Rock Slough Salinity, February EC**



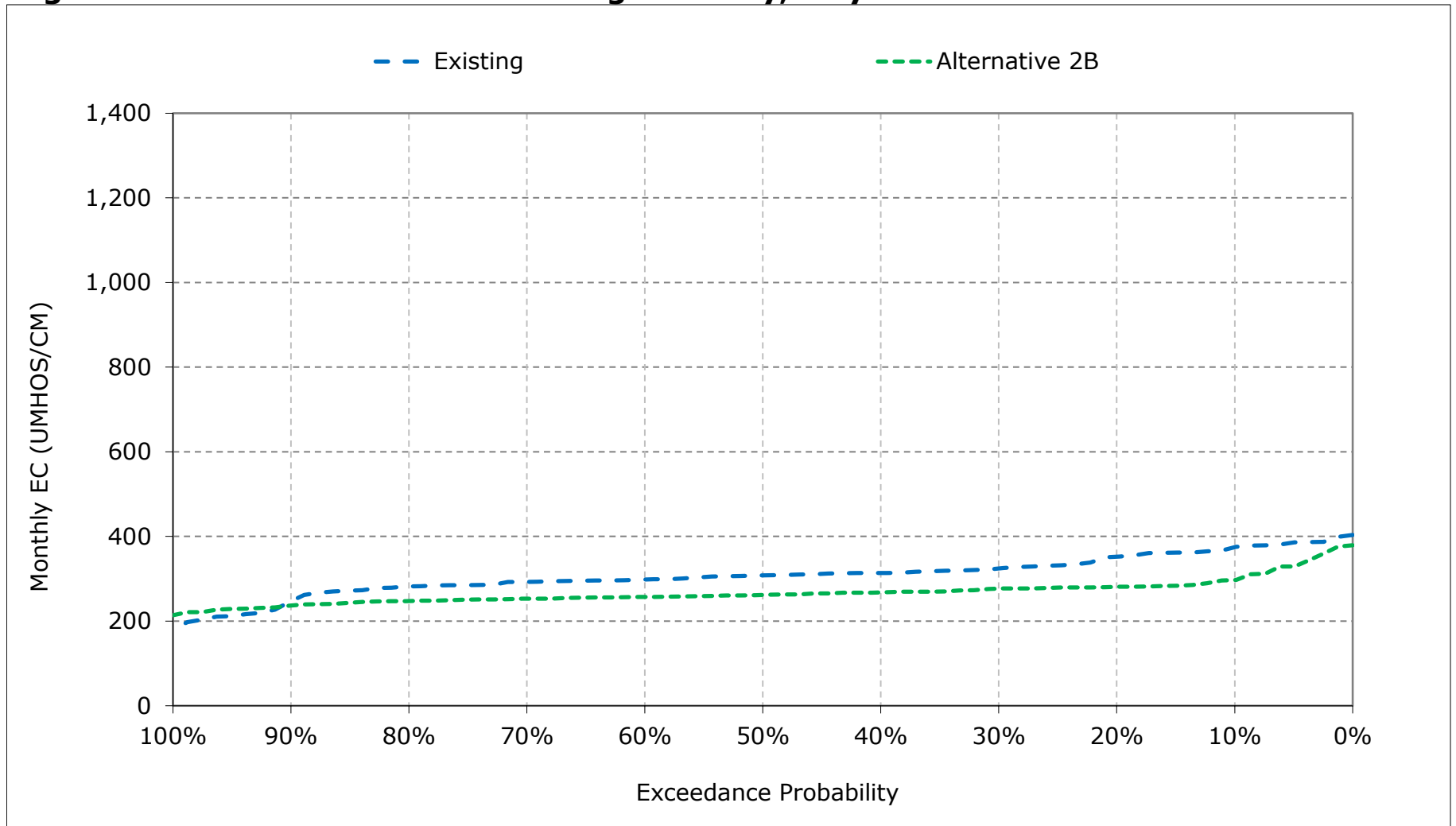
**Figure 15-9. Old River at Rock Slough Salinity, March EC**



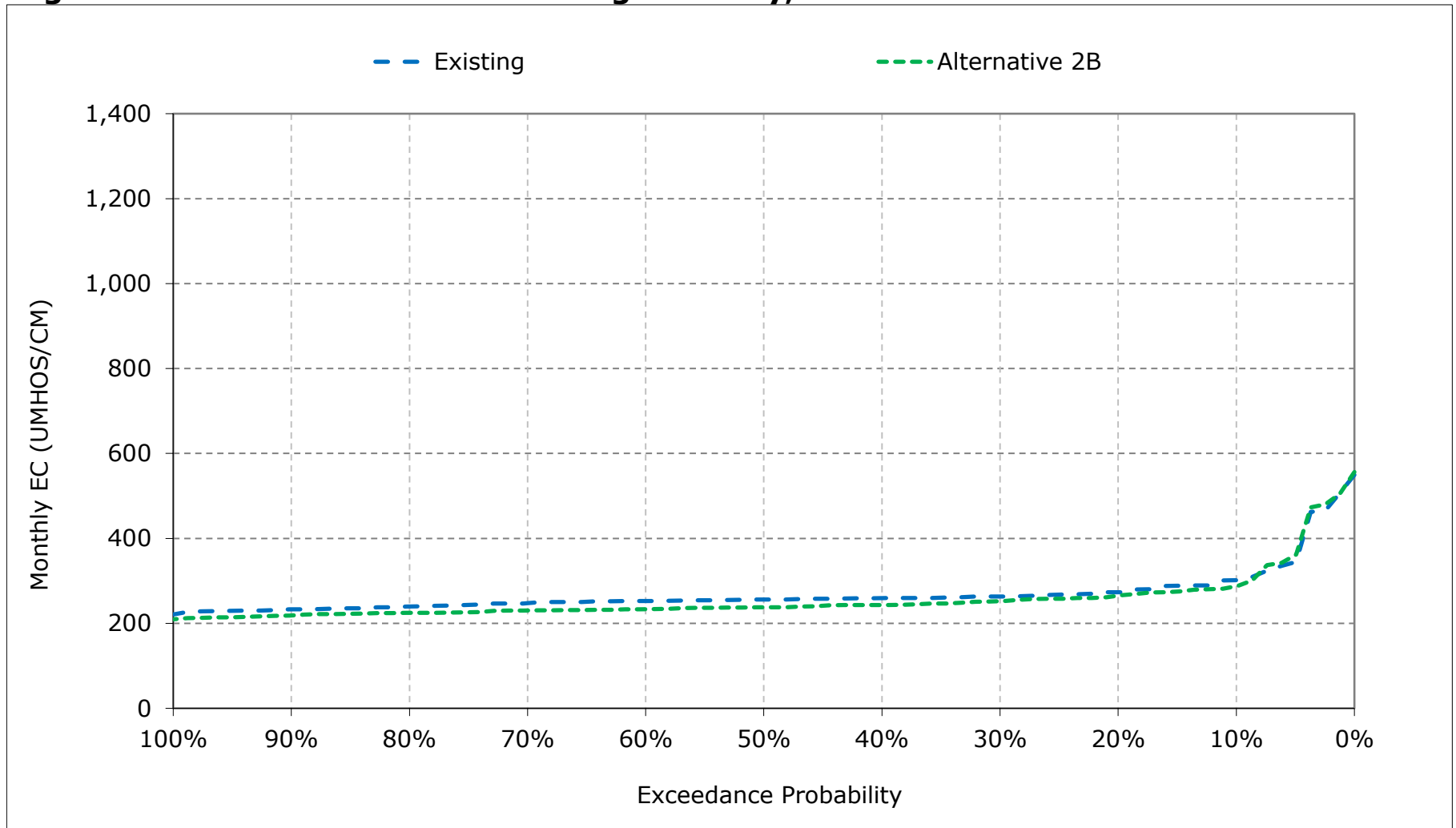
**Figure 15-10. Old River at Rock Slough Salinity, April EC**



**Figure 15-11. Old River at Rock Slough Salinity, May EC**

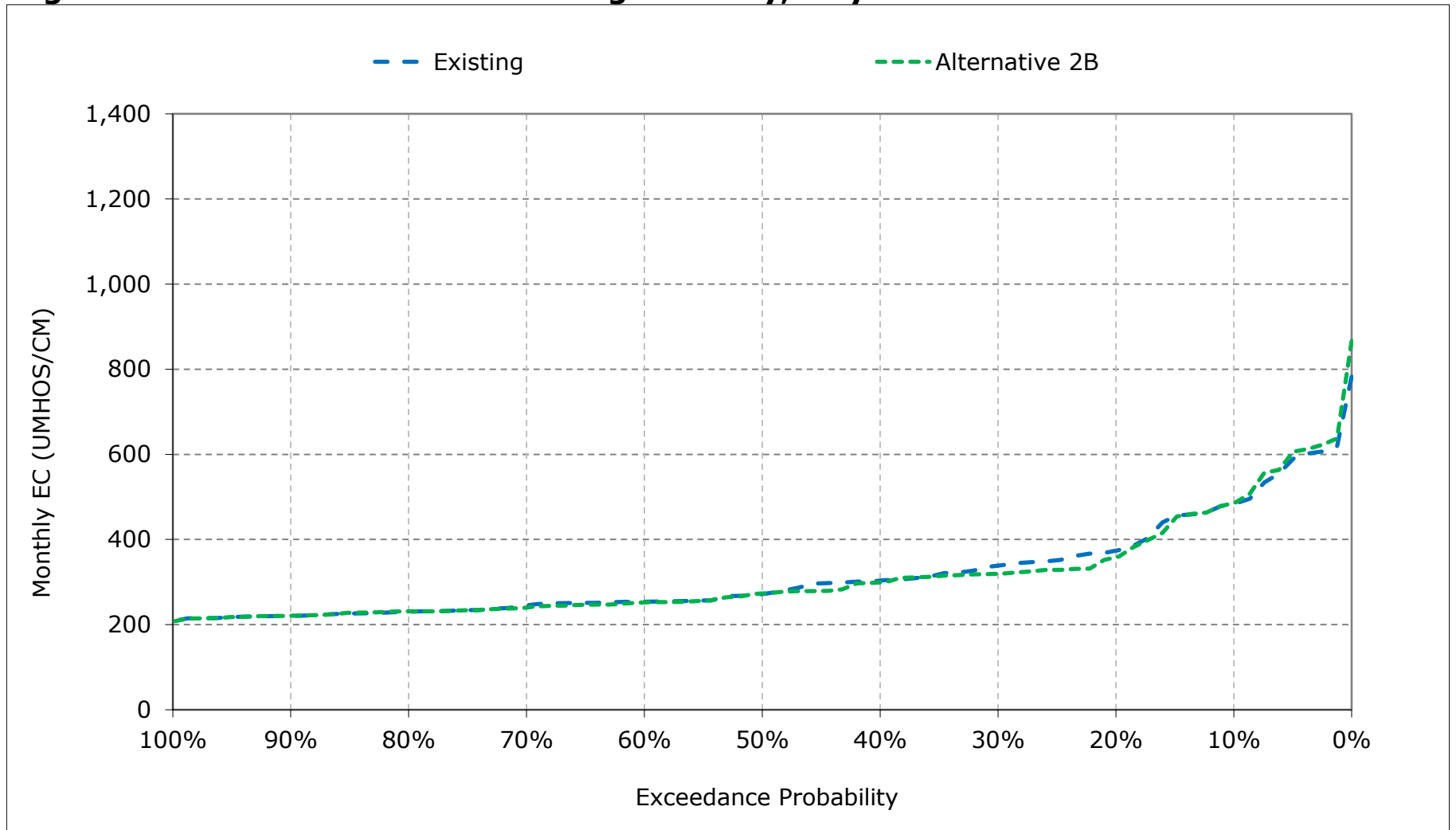


**Figure 15-12. Old River at Rock Slough Salinity, June EC**

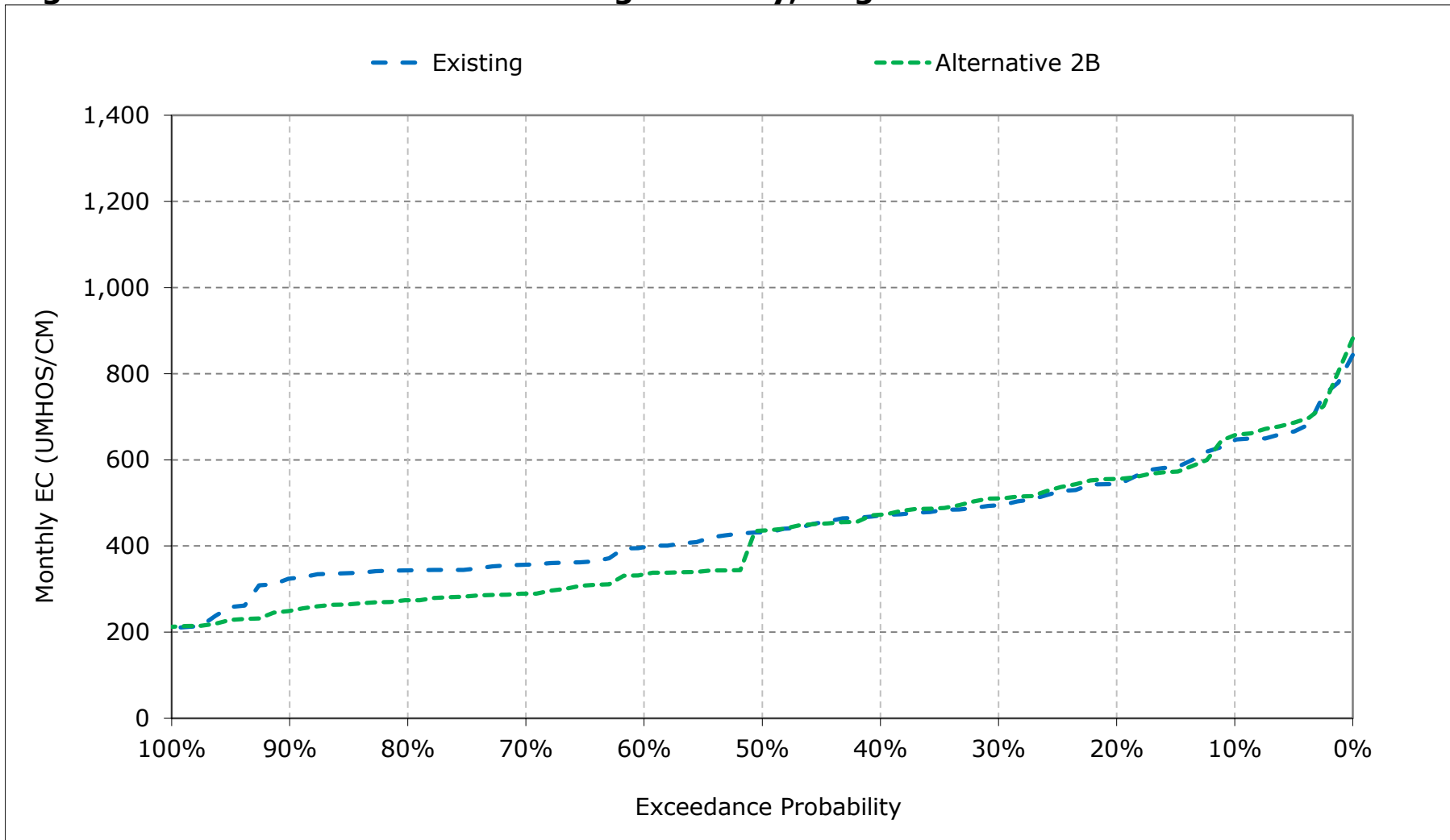




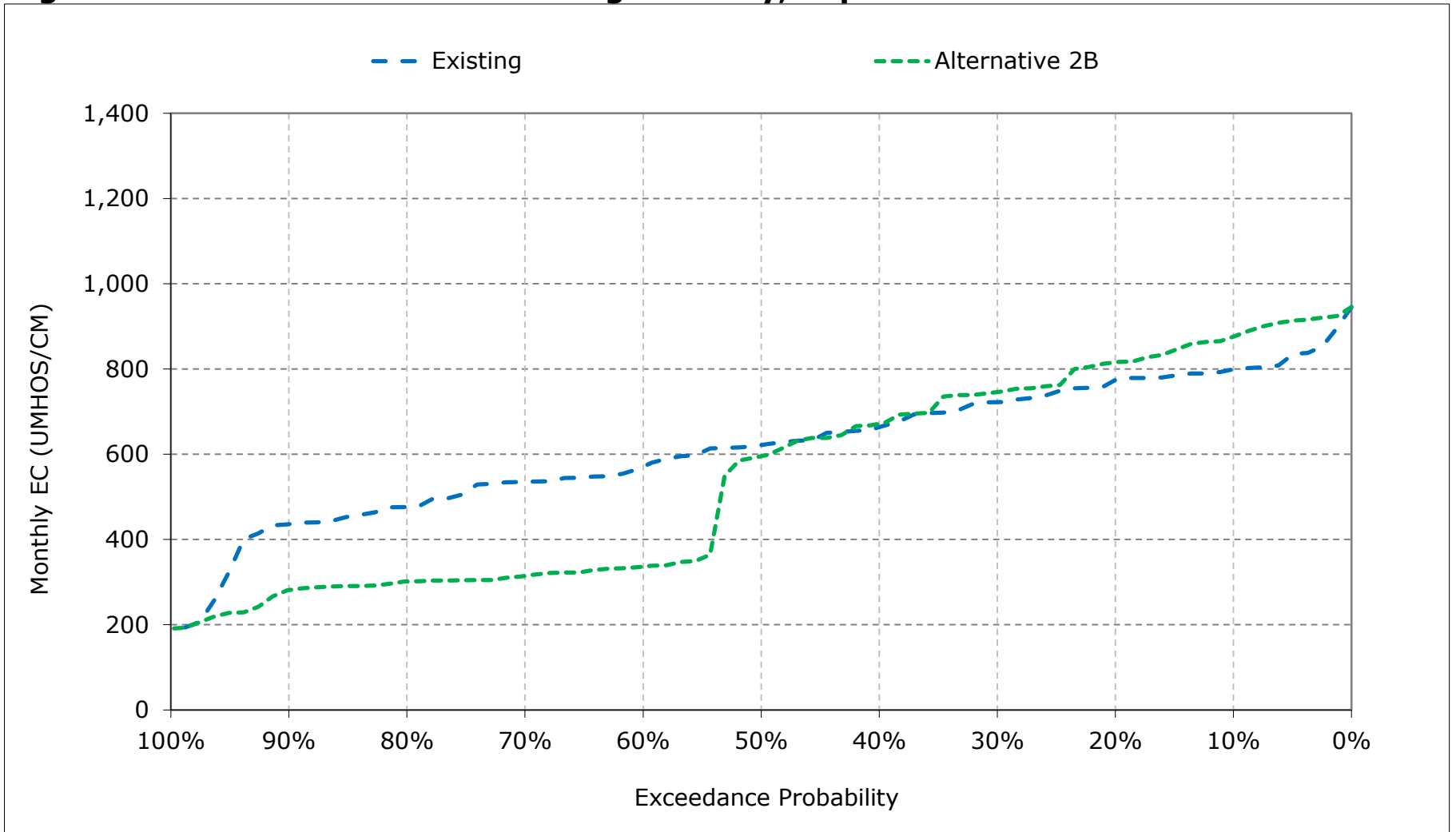
**Figure 15-13. Old River at Rock Slough Salinity, July EC**



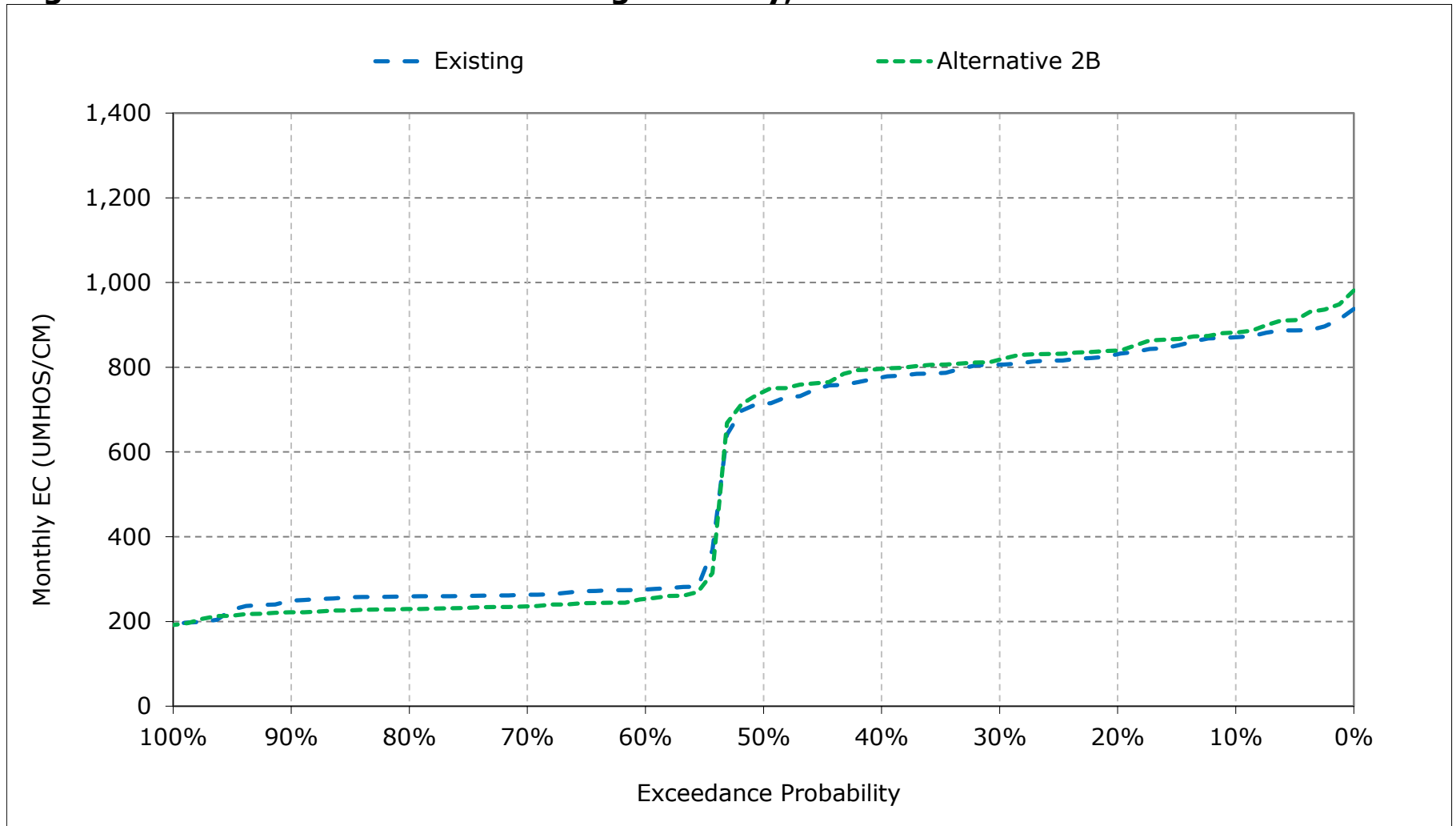
**Figure 15-14. Old River at Rock Slough Salinity, August EC**



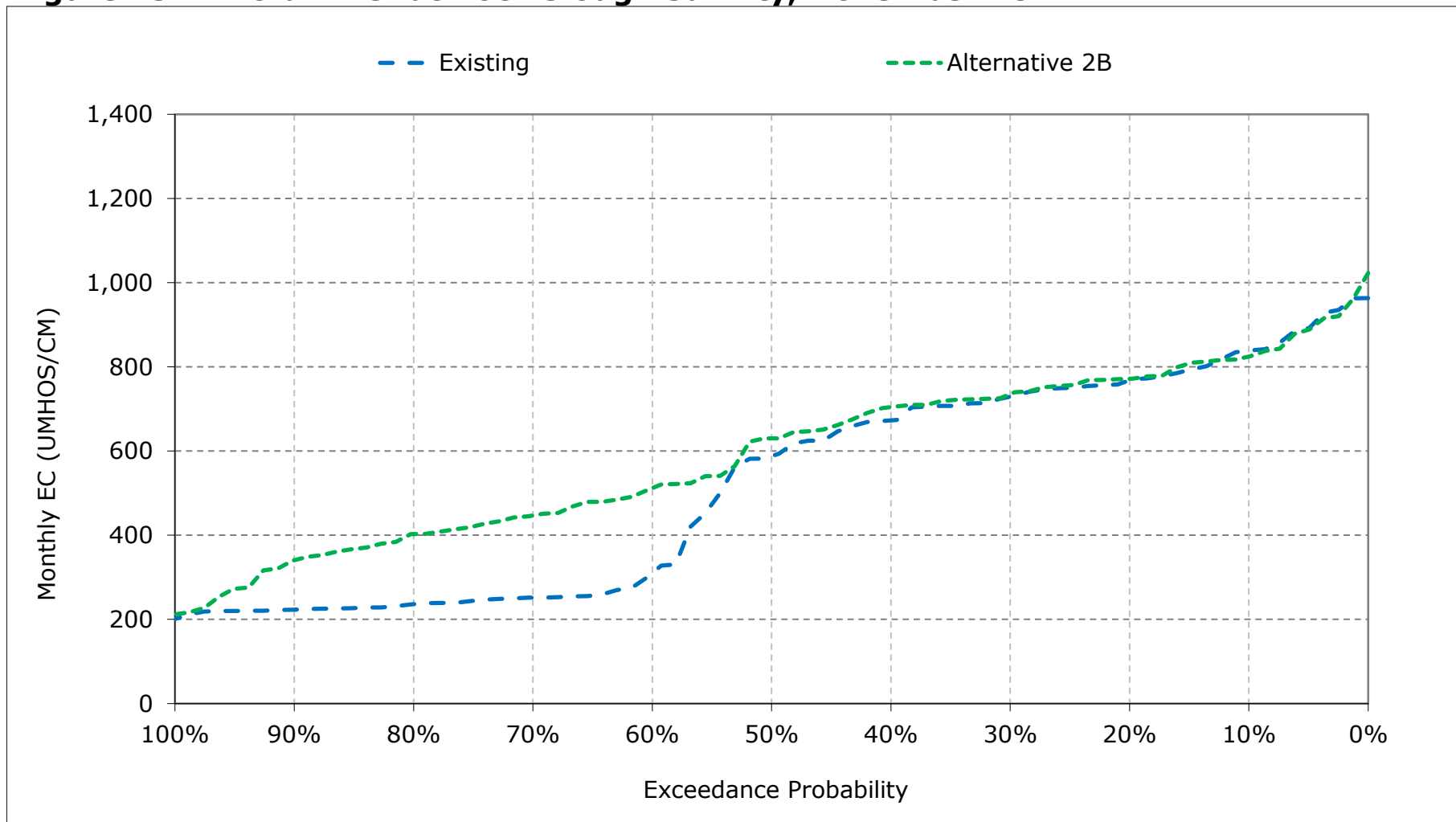
**Figure 15-15. Old River at Rock Slough Salinity, September EC**



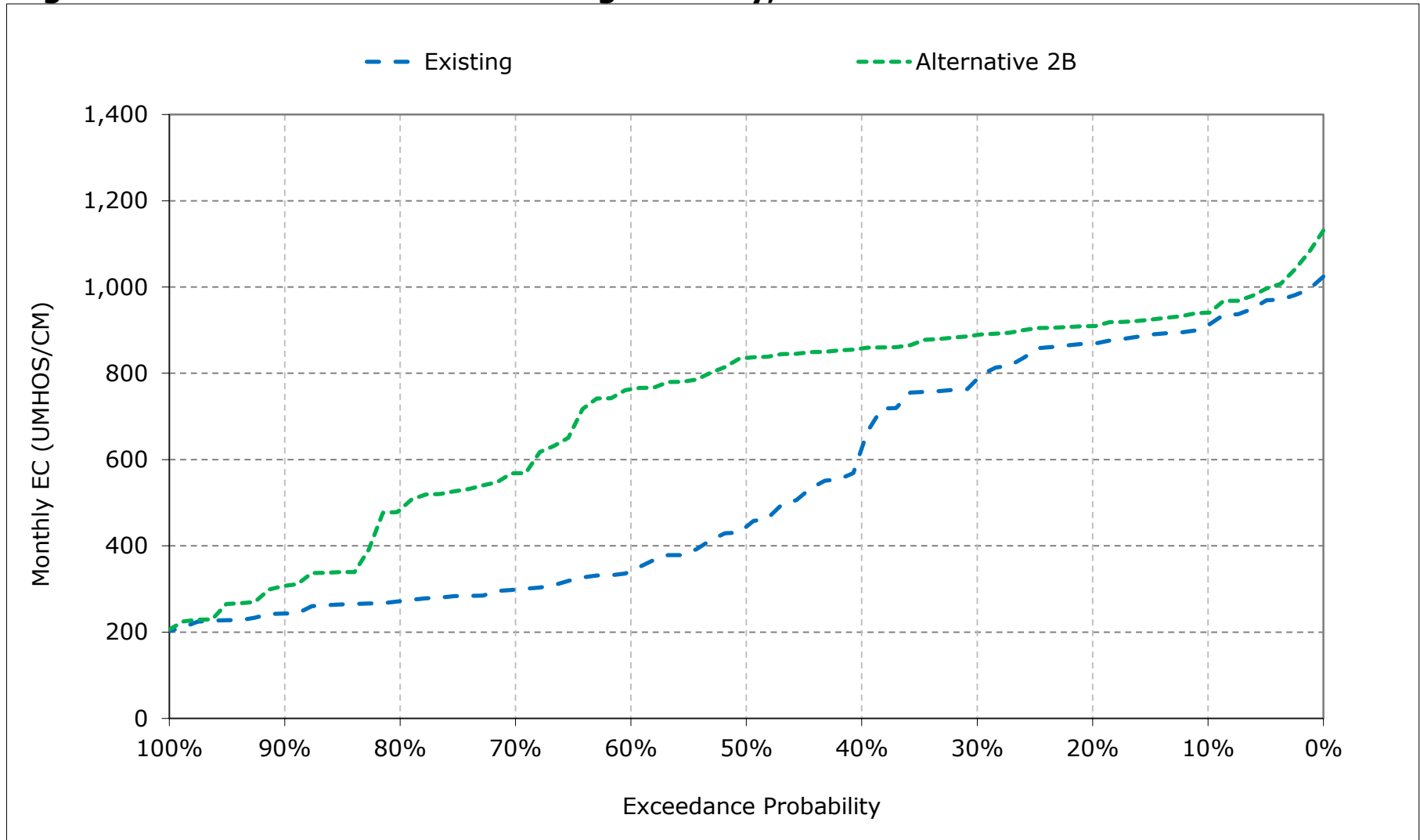
**Figure 15-16. Old River at Rock Slough Salinity, October EC**



**Figure 15-17. Old River at Rock Slough Salinity, November EC**



**Figure 15-18. Old River at Rock Slough Salinity, December EC**



**Table 16-1. Banks Pumping Plant South Delta Exports Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	667	668	727	769	621	518	467	469	430	401	532	593
20%	641	604	685	726	567	454	433	442	384	367	435	566
30%	625	592	660	604	520	432	407	427	370	322	393	545
40%	599	570	603	561	503	409	390	414	364	315	380	530
50%	572	549	441	516	461	392	377	397	354	310	351	496
60%	357	336	371	491	443	380	360	385	347	300	328	472
70%	336	311	329	455	418	361	346	360	341	282	311	456
80%	314	301	305	418	398	336	310	334	325	274	304	427
90%	296	294	294	384	346	311	267	230	294	266	293	401
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	486	469	499	555	477	401	372	381	358	323	376	490
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	433	403	409	434	393	337	299	300	312	282	303	437
Above Normal (15%)	528	500	500	554	494	396	362	374	348	285	310	412
Below Normal (17%)	500	478	533	618	483	404	384	398	354	298	382	565
Dry (22%)	484	489	540	582	510	434	420	433	377	341	445	518
Critical (15%)	546	545	589	706	586	487	458	462	447	451	488	555

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	701	656	738	896	676	525	480	459	406	406	536	630
20%	662	617	707	849	617	487	451	435	355	358	433	588
30%	642	593	691	763	561	457	435	416	338	321	394	548
40%	605	580	670	720	517	427	411	405	332	310	369	498
50%	581	550	646	601	492	404	397	394	326	301	353	462
60%	278	388	620	535	442	390	372	369	319	292	301	328
70%	274	368	583	488	419	367	344	349	313	279	286	317
80%	269	338	494	432	389	335	317	322	306	267	281	304
90%	263	309	345	399	337	321	271	256	288	260	276	294
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	471	486	604	630	492	413	385	375	336	318	365	441
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	412	428	510	470	389	342	302	295	299	281	281	294
Above Normal (15%)	513	522	620	653	511	415	376	361	321	279	287	317
Below Normal (17%)	480	498	630	702	495	414	403	391	324	286	386	611
Dry (22%)	465	495	658	702	546	458	446	431	345	336	439	525
Critical (15%)	557	550	679	763	609	494	465	461	431	449	490	560

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	34	-13	11	127	55	6	13	-10	-24	5	3	38
20%	20	12	22	123	50	32	18	-8	-29	-8	-2	21
30%	17	1	31	160	41	25	28	-11	-32	-1	1	3
40%	6	10	67	159	14	18	21	-10	-32	-5	-10	-31
50%	9	1	205	85	31	12	20	-3	-28	-9	3	-34
60%	-79	52	249	44	-1	9	13	-16	-28	-8	-27	-144
70%	-62	57	255	33	0	6	-2	-11	-28	-2	-25	-139
80%	-45	37	189	13	-10	-2	7	-13	-19	-6	-23	-123
90%	-33	15	51	14	-9	11	4	26	-5	-6	-17	-107
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-15	17	105	75	14	12	13	-5	-22	-4	-11	-49
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	-21	25	101	36	-4	5	3	-5	-12	-1	-22	-143
Above Normal (15%)	-16	22	119	99	17	19	14	-13	-27	-6	-22	-96
Below Normal (17%)	-19	20	97	84	12	11	19	-7	-30	-12	5	46
Dry (22%)	-19	7	118	121	36	24	27	-2	-32	-5	-6	7
Critical (15%)	11	5	89	57	23	6	7	-1	-16	-2	2	5

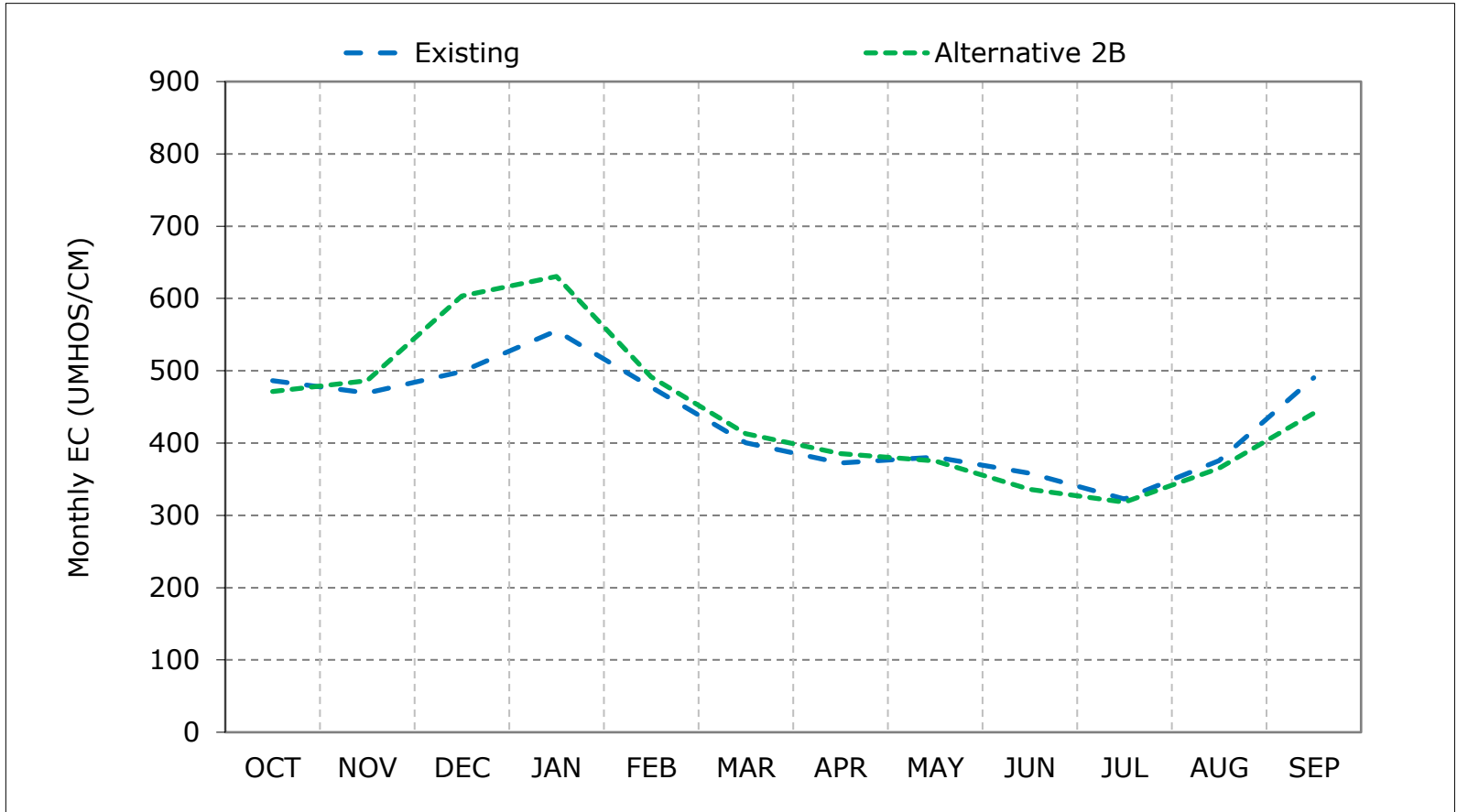
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

**Figure 16-1. Banks Pumping Plant South Delta Exports Salinity, Long-Term Average**

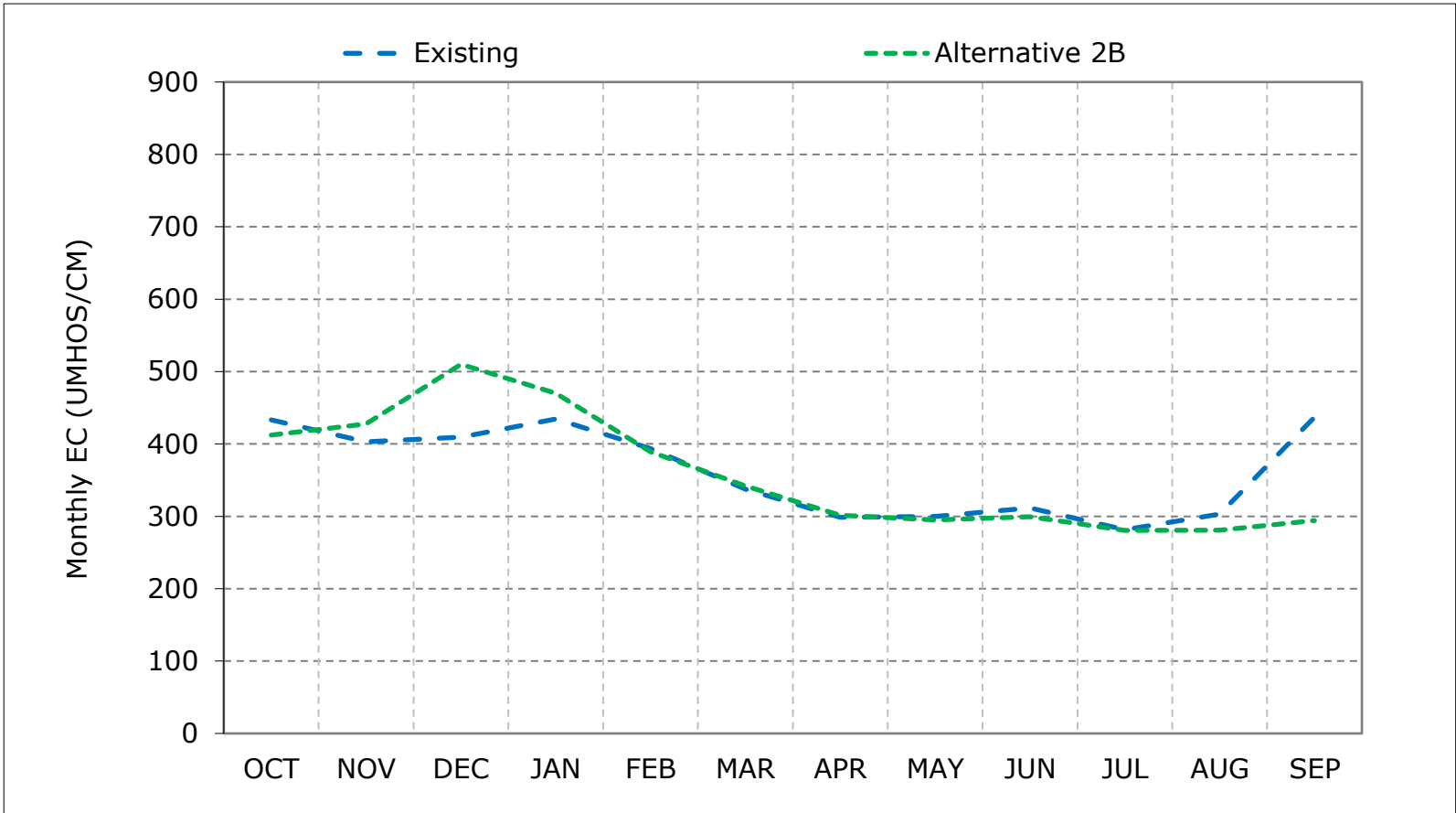


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



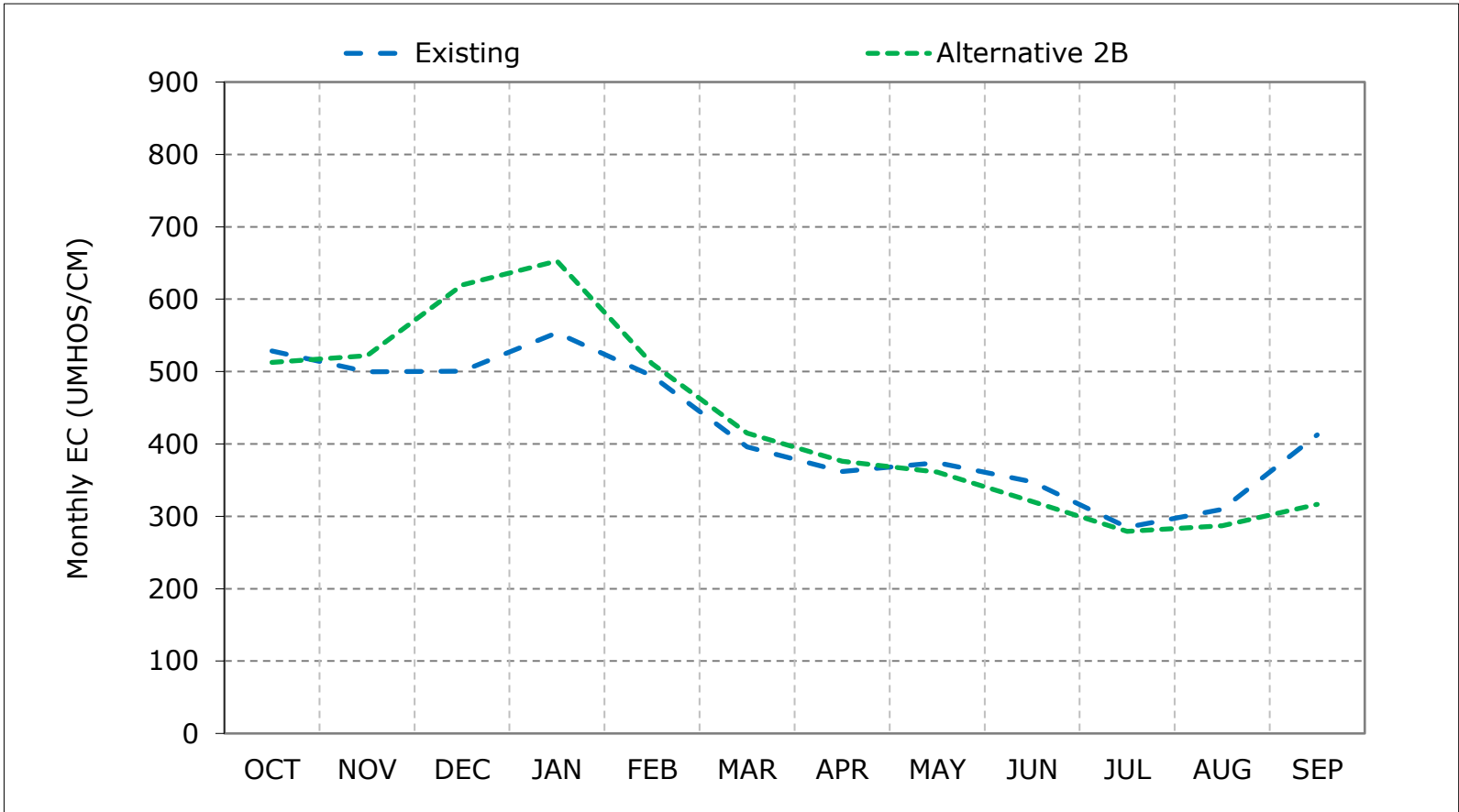
**Figure 16-2. Banks Pumping Plant South Delta Exports Salinity, Wet Year Average**



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

\*These results are displayed with water year - year type sorting.

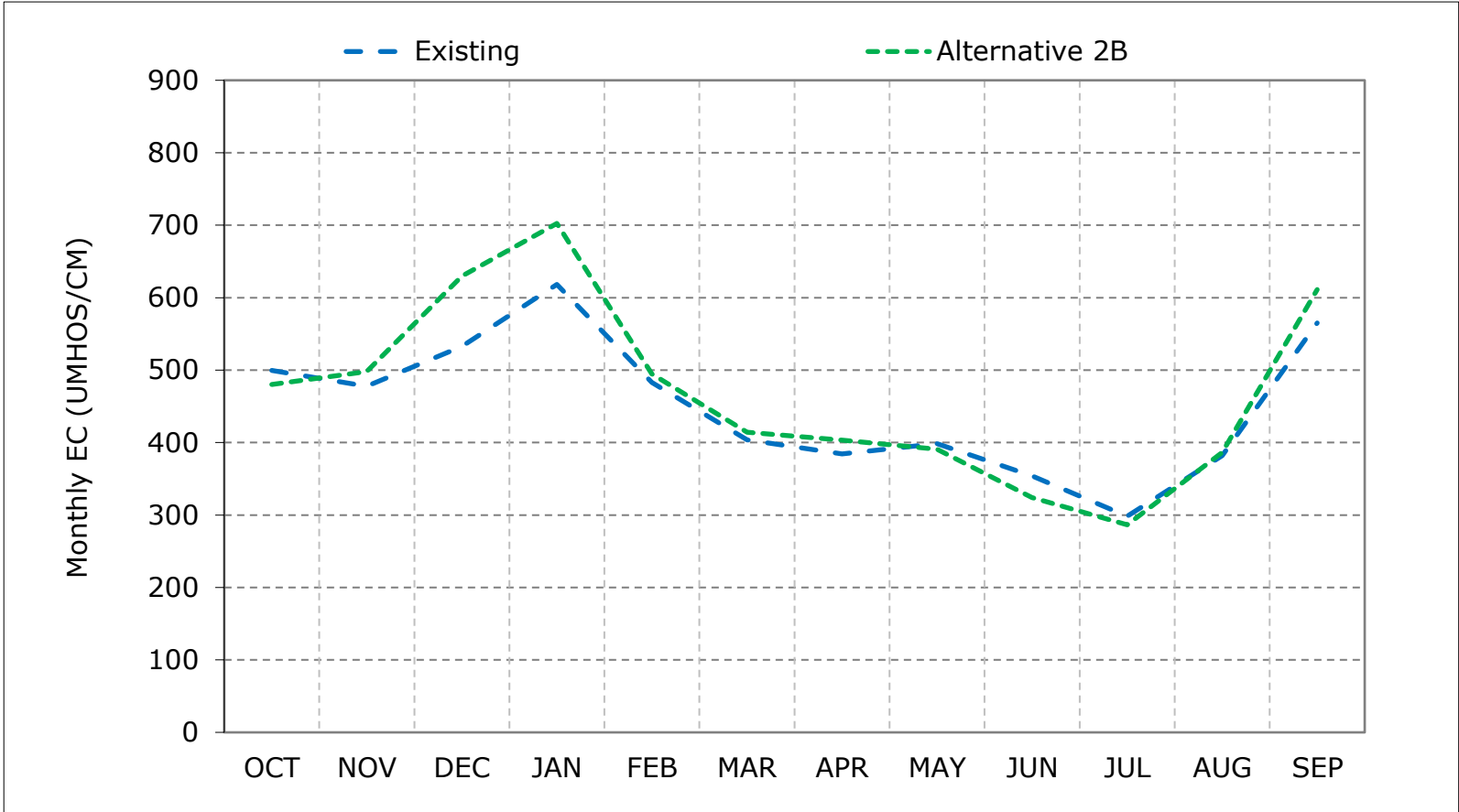
**Figure 16-3. Banks Pumping Plant South Delta Exports Salinity, Above Normal Year Average**



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

\*These results are displayed with water year - year type sorting.

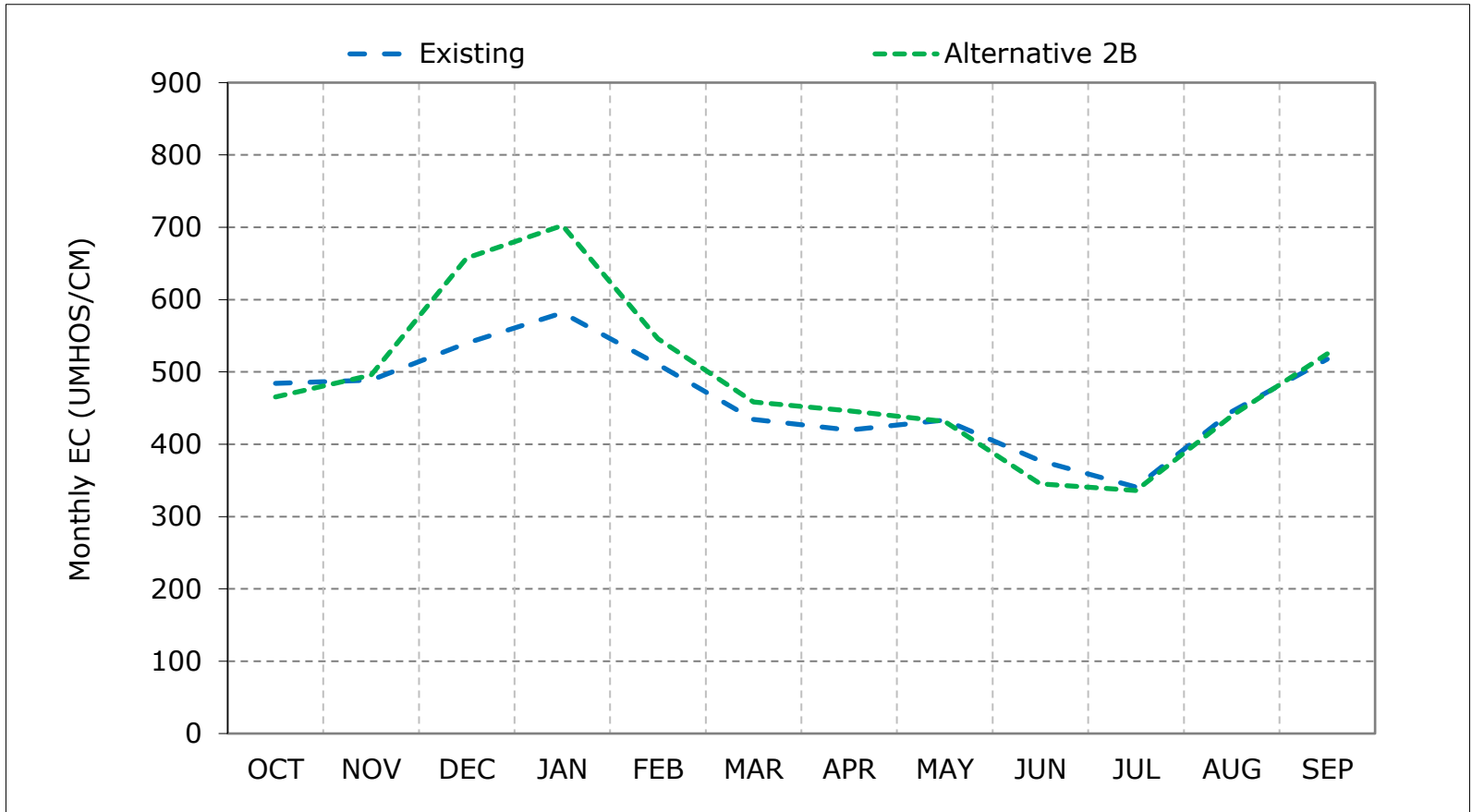
**Figure 16-4. Banks Pumping Plant South Delta Exports Salinity, Below Normal Year Average**



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

\*These results are displayed with water year - year type sorting.

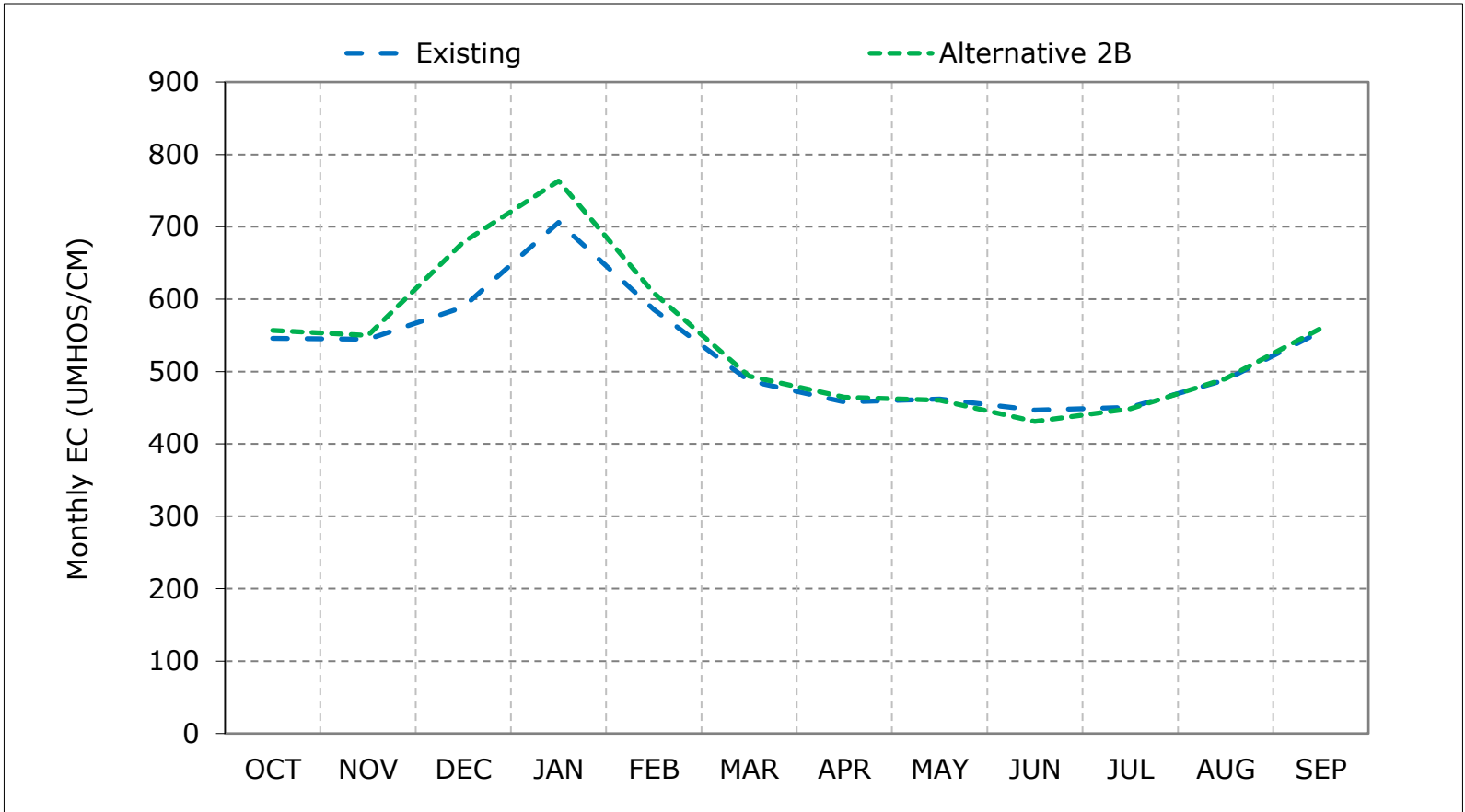
**Figure 16-5. Banks Pumping Plant South Delta Exports Salinity, Dry Year Average**



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

\*These results are displayed with water year - year type sorting.

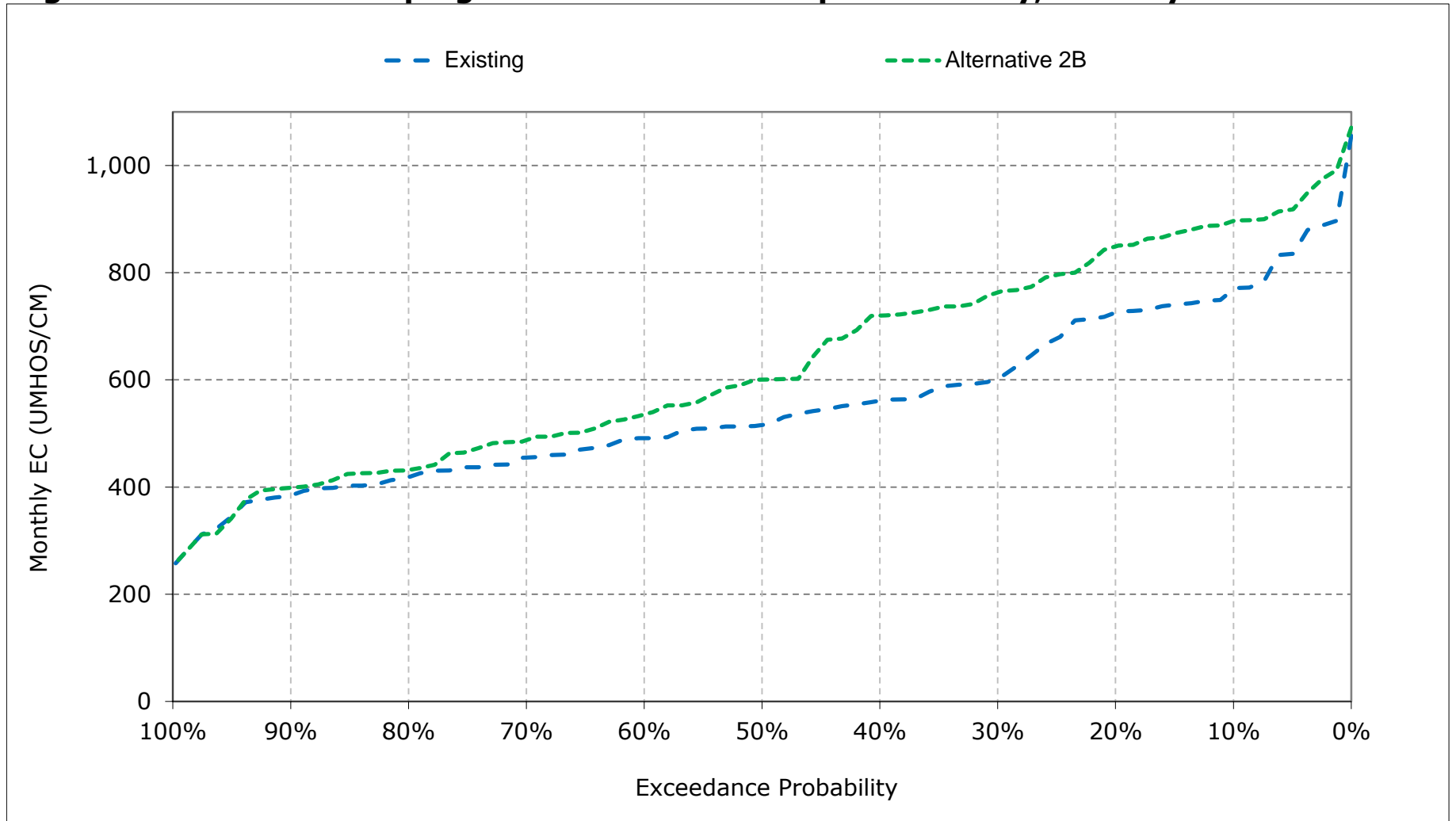
**Figure 16-6. Banks Pumping Plant South Delta Exports Salinity, Critical Year Average EC**



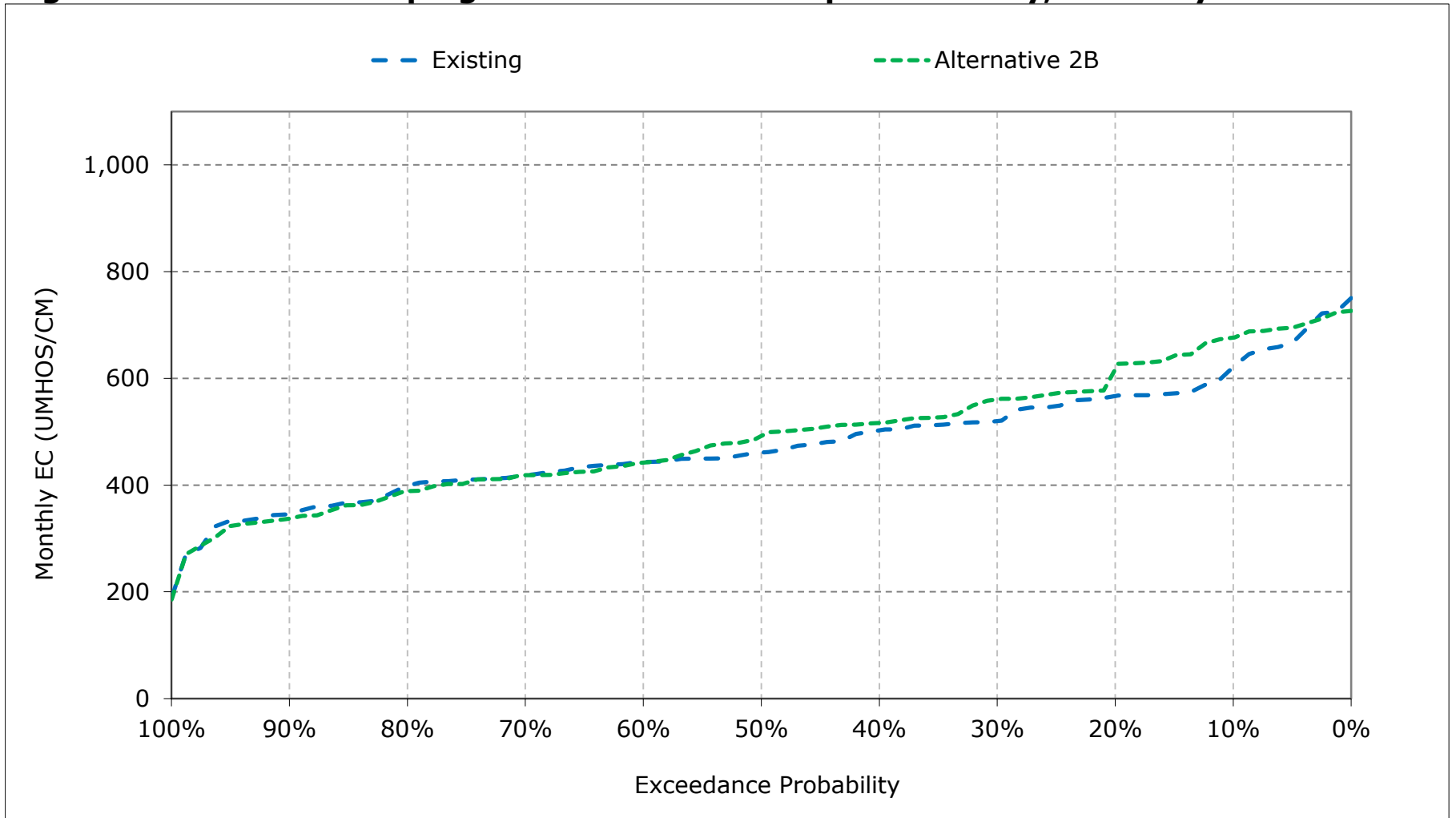
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

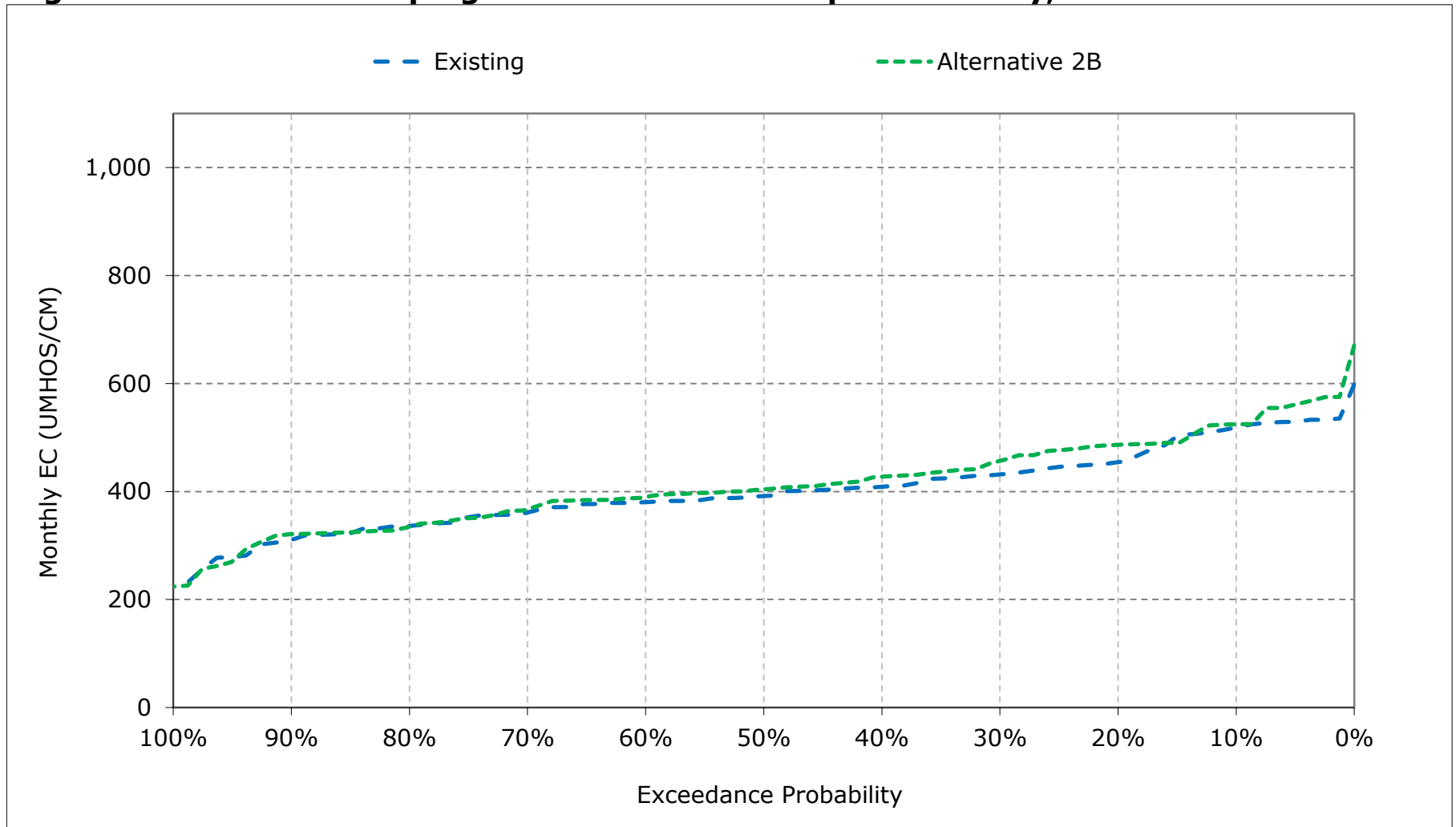
**Figure 16-7. Banks Pumping Plant South Delta Exports Salinity, January EC**



**Figure 16-8. Banks Pumping Plant South Delta Exports Salinity, February EC**

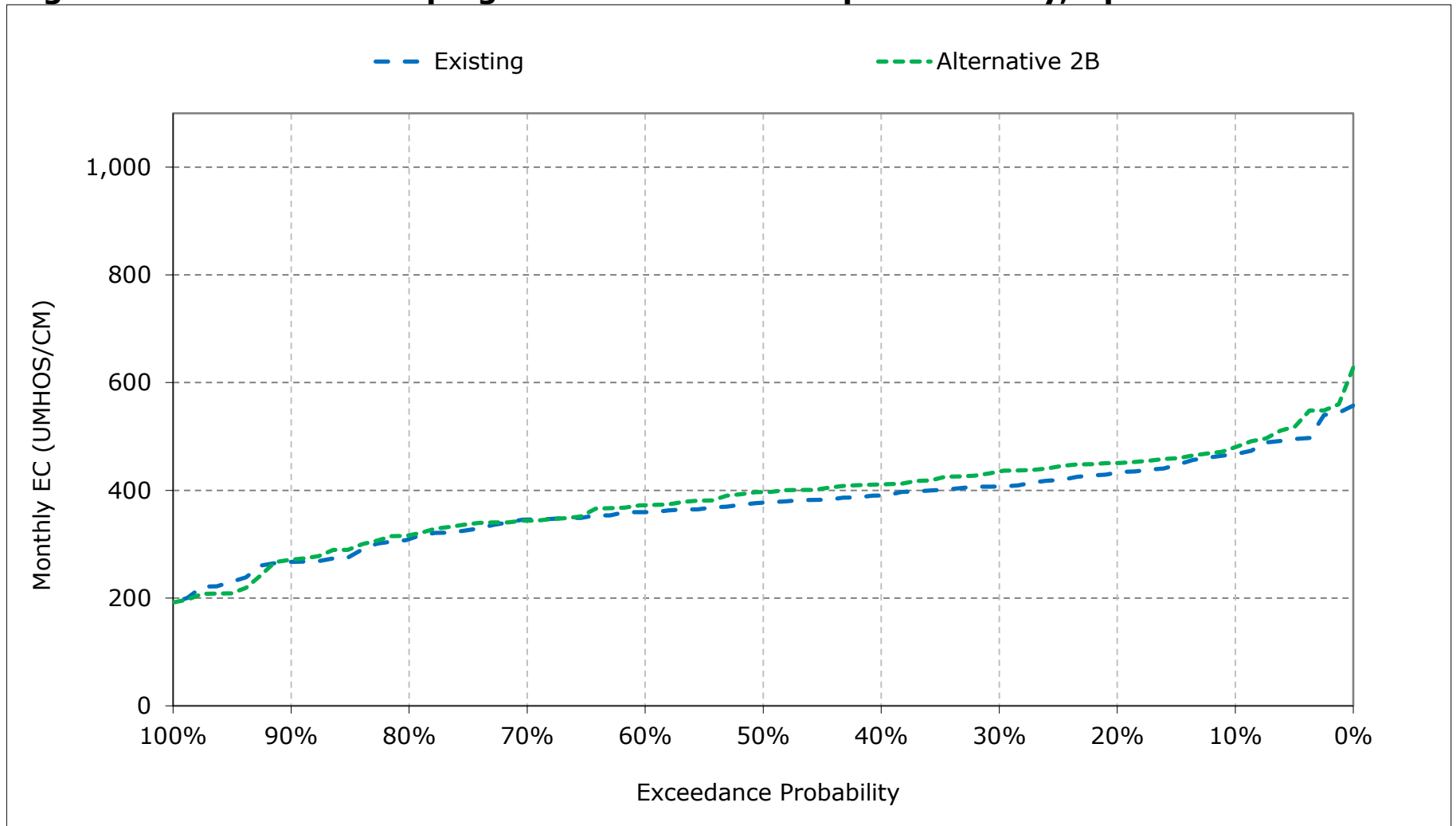


**Figure 16-9. Banks Pumping Plant South Delta Exports Salinity, March EC**

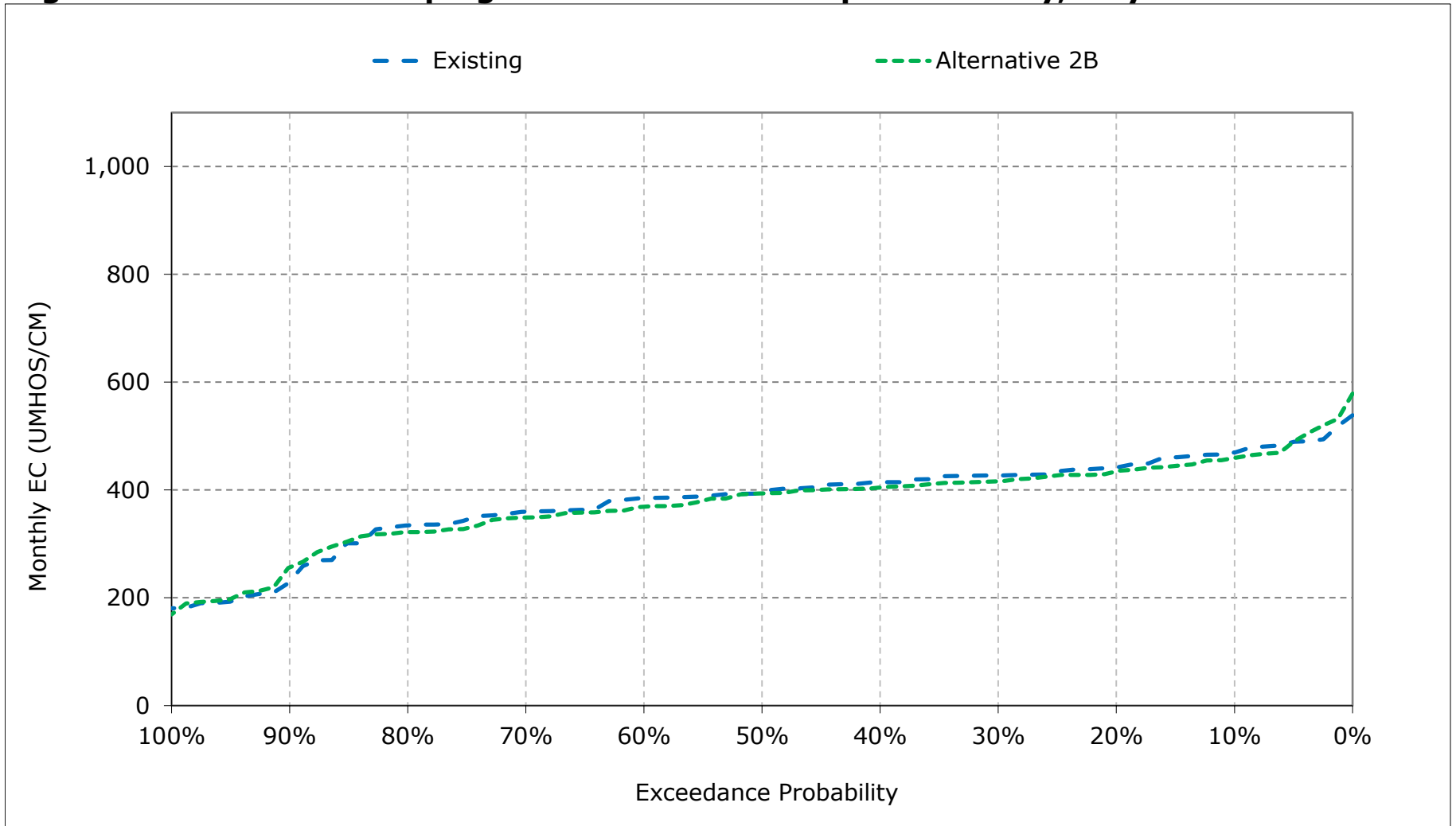




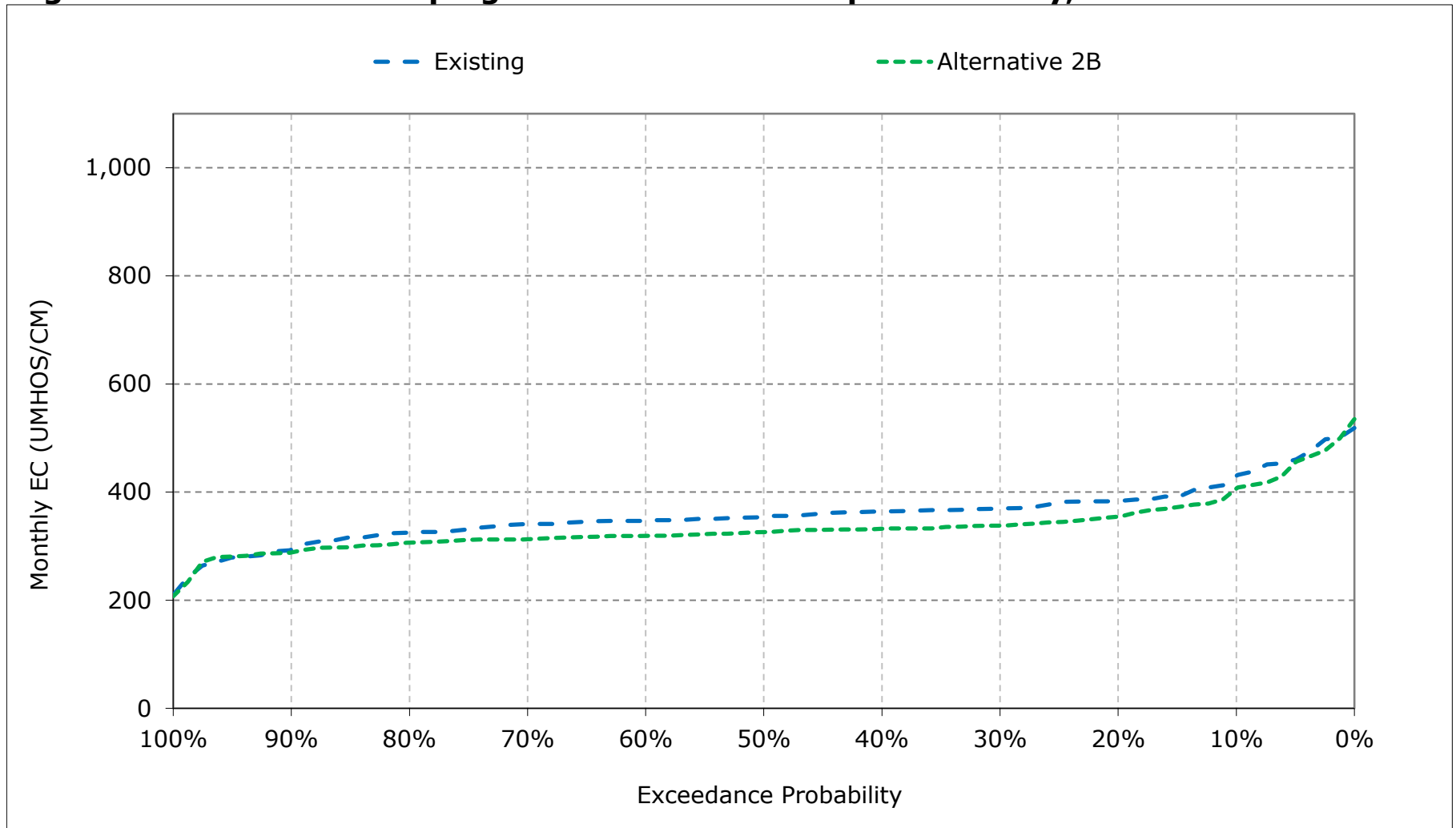
**Figure 16-10. Banks Pumping Plant South Delta Exports Salinity, April EC**



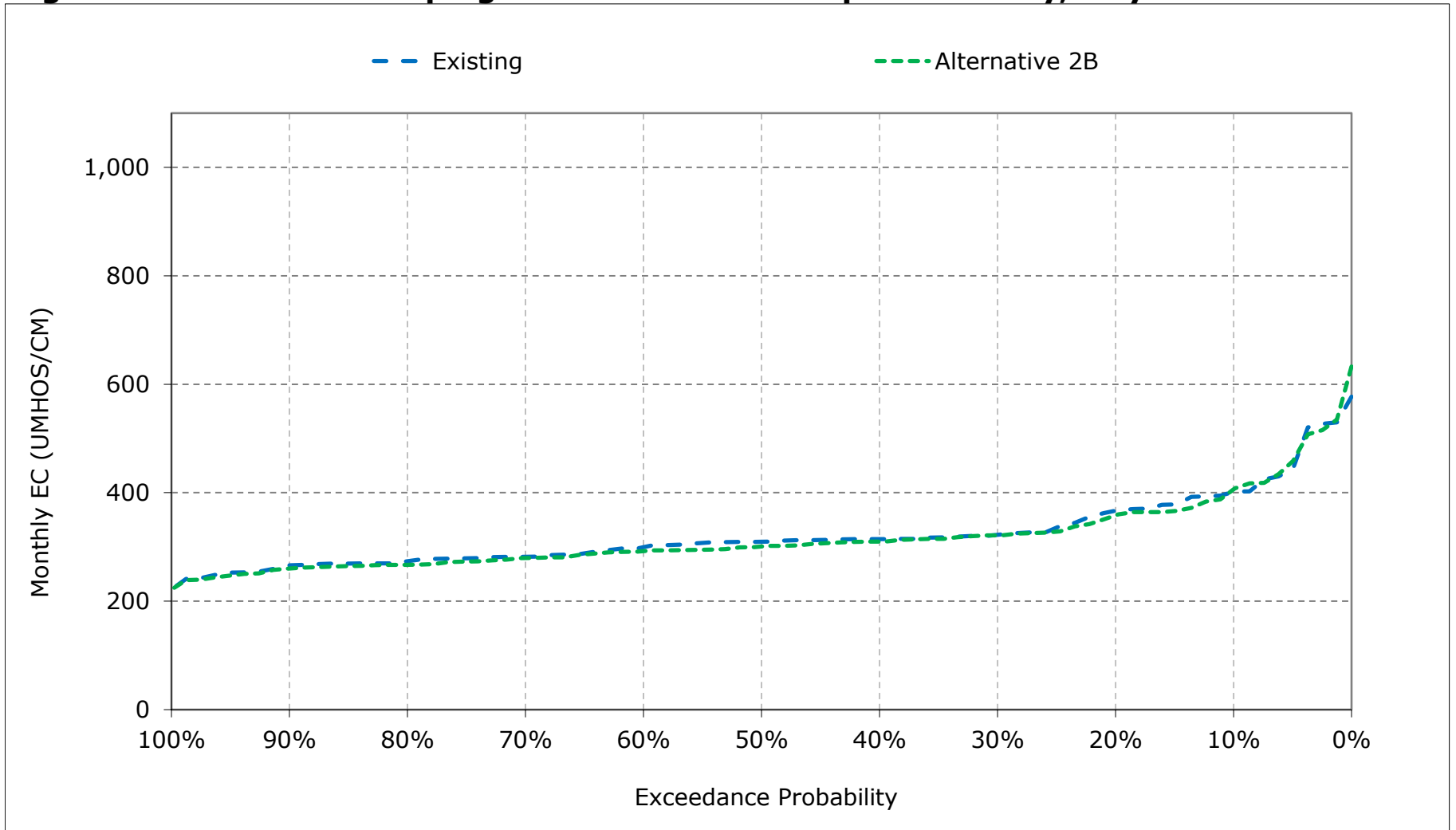
**Figure 16-11. Banks Pumping Plant South Delta Exports Salinity, May EC**



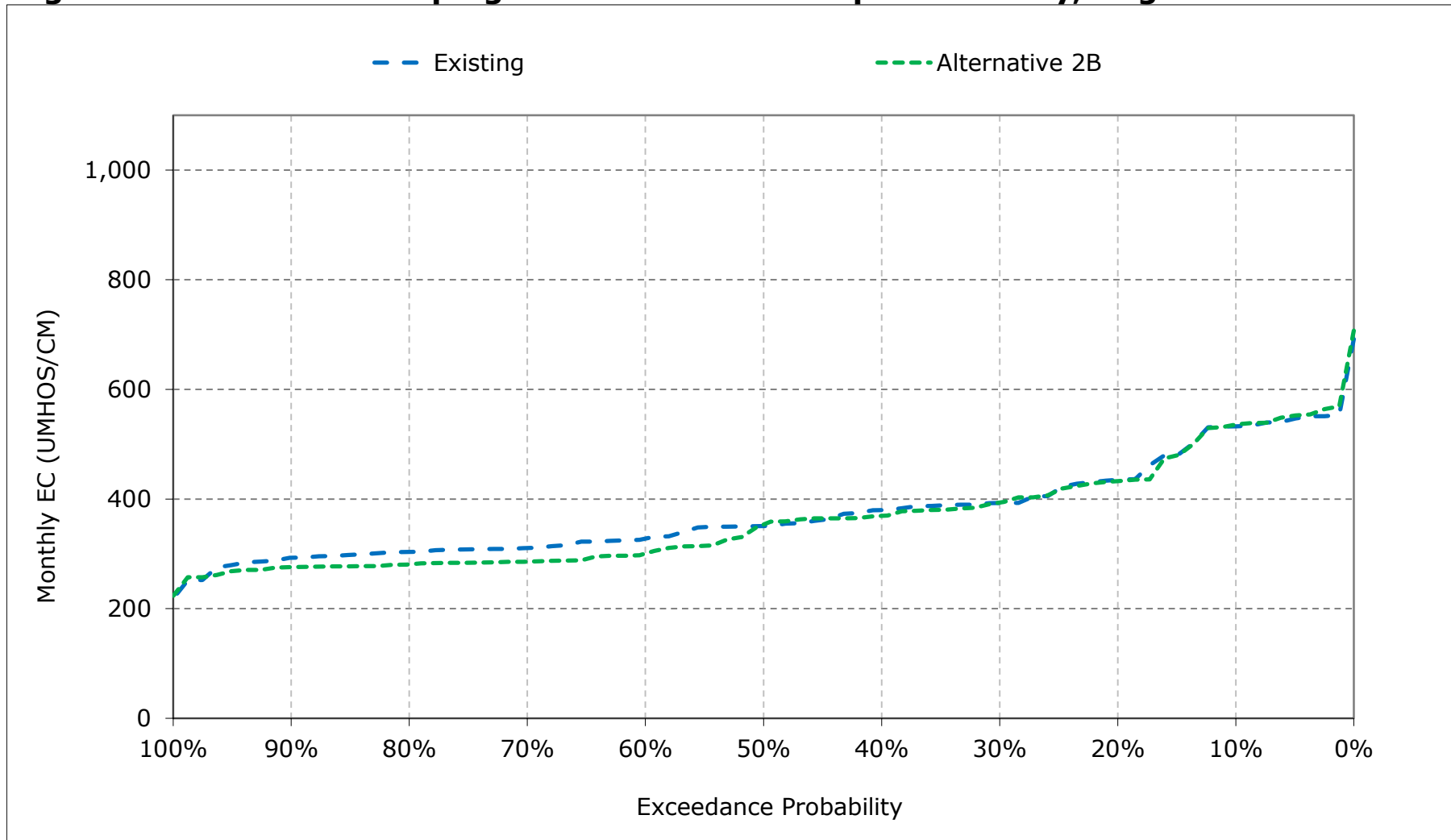
**Figure 16-12. Banks Pumping Plant South Delta Exports Salinity, June EC**



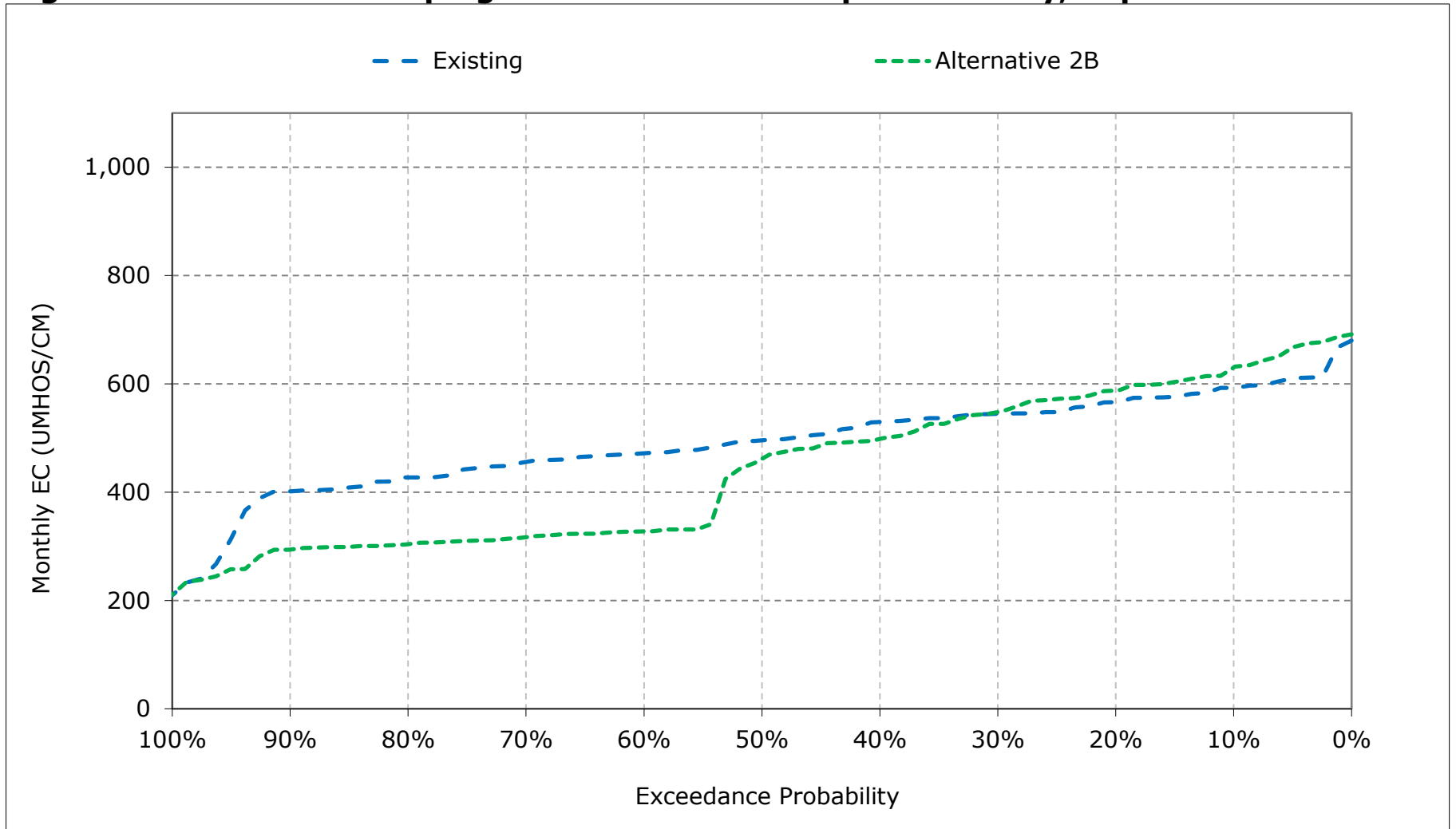
**Figure 16-13. Banks Pumping Plant South Delta Exports Salinity, July EC**



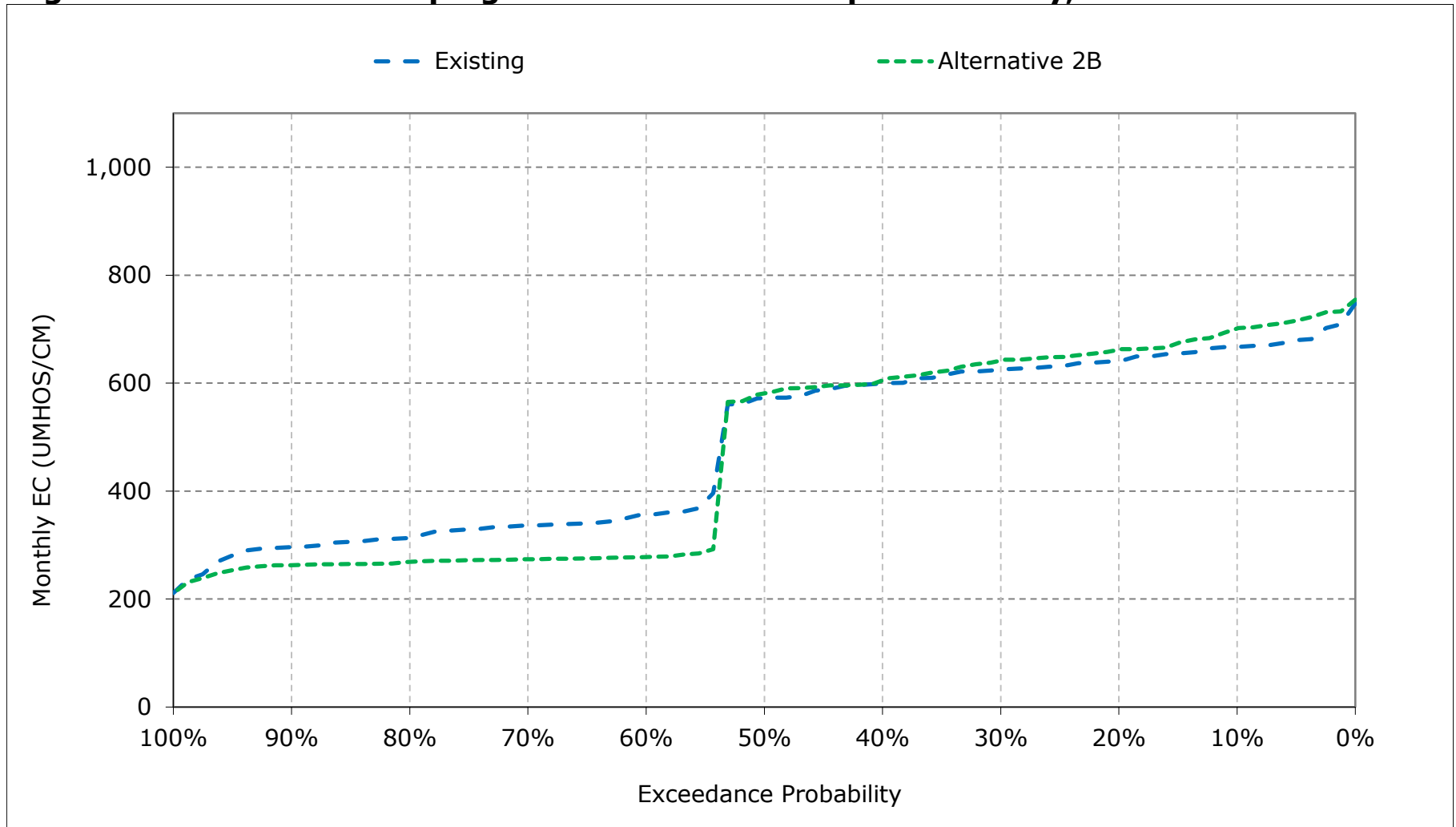
**Figure 16-14. Banks Pumping Plant South Delta Exports Salinity, August EC**



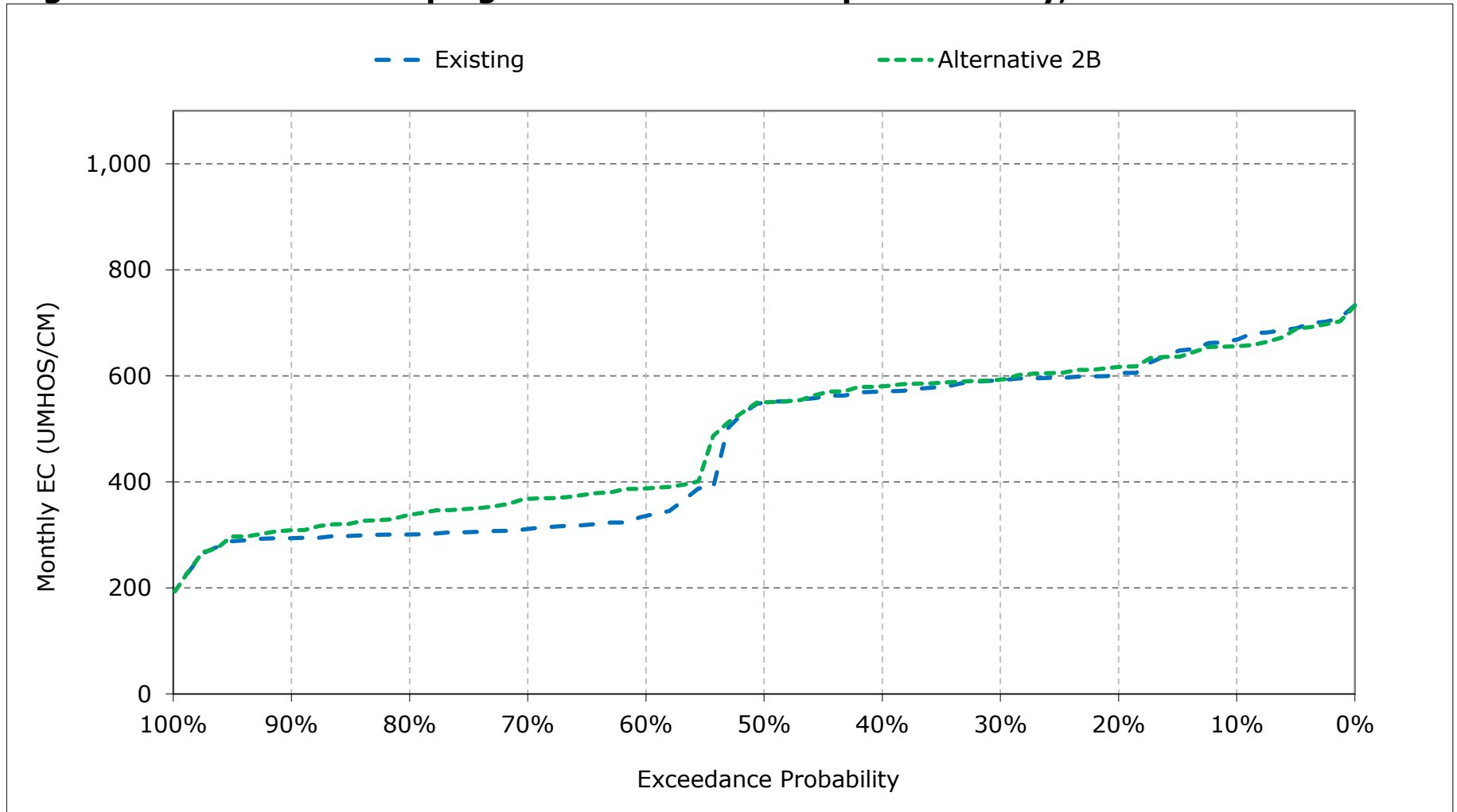
**Figure 16-15. Banks Pumping Plant South Delta Exports Salinity, September EC**



**Figure 16-16. Banks Pumping Plant South Delta Exports Salinity, October EC**

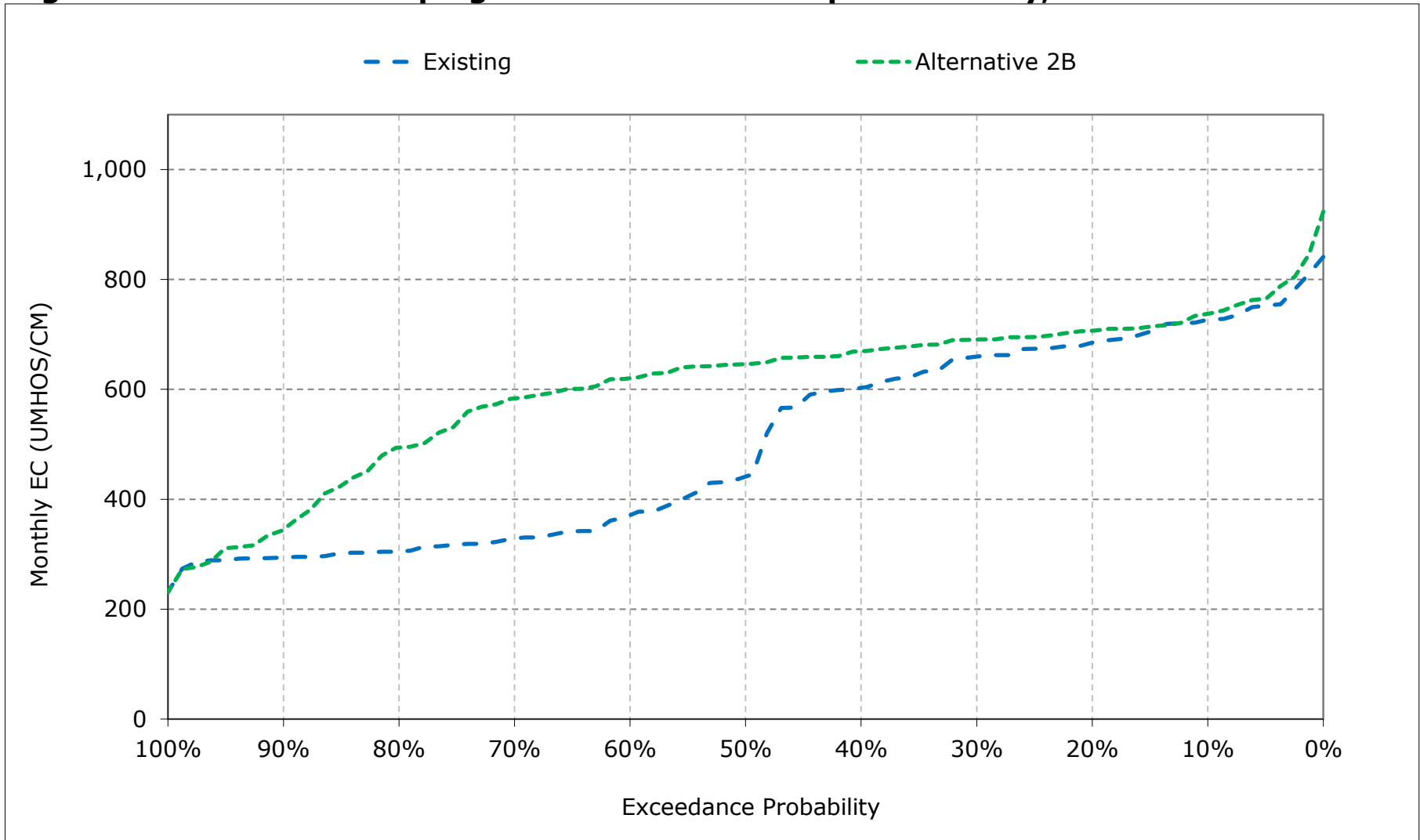


**Figure 16-17. Banks Pumping Plant South Delta Exports Salinity, November EC**





**Figure 16-18. Banks Pumping Plant South Delta Exports Salinity, December EC**



**Table 17-1. Jones Pumping Plant South Delta Exports Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	652	661	764	777	681	619	511	463	409	413	537	597
20%	633	604	726	752	660	591	487	445	384	385	464	580
30%	618	593	699	674	617	552	459	431	377	377	425	556
40%	596	572	654	643	592	530	437	420	370	365	413	546
50%	566	548	543	613	569	490	403	392	366	345	392	516
60%	372	405	497	580	523	415	375	376	360	338	369	484
70%	358	359	453	547	470	362	341	363	354	323	347	456
80%	343	339	433	522	399	323	304	333	342	309	338	434
90%	330	329	426	427	331	299	251	226	329	291	329	403
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	492	489	577	614	534	472	393	380	368	355	404	501
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	440	430	502	503	406	343	295	299	343	324	330	436
Above Normal (15%)	531	508	575	615	544	413	377	375	366	330	347	422
Below Normal (17%)	502	500	599	653	523	464	409	399	363	340	416	571
Dry (22%)	494	509	610	651	627	566	458	433	367	369	471	537
Critical (15%)	548	556	663	750	679	680	505	458	433	447	504	585

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	657	651	767	844	733	661	583	507	389	410	542	631
20%	625	619	742	812	680	607	522	477	367	383	456	601
30%	609	598	726	761	635	579	481	441	352	376	426	566
40%	589	583	704	730	604	541	422	393	347	355	414	532
50%	573	556	696	661	563	508	388	372	338	337	394	502
60%	344	440	678	614	523	442	359	357	336	327	337	366
70%	331	419	630	553	459	365	339	351	327	316	321	356
80%	325	393	547	521	398	326	304	321	319	305	316	341
90%	321	359	466	427	336	296	246	221	306	288	300	326
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	481	509	652	655	541	489	406	382	345	352	394	466
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	431	460	567	519	400	350	287	288	332	322	308	327
Above Normal (15%)	516	536	668	670	548	417	354	349	341	326	323	356
Below Normal (17%)	483	518	672	699	524	484	399	378	336	332	421	608
Dry (22%)	486	521	698	724	645	600	485	454	334	362	467	545
Critical (15%)	547	562	731	783	701	701	607	516	407	450	510	591

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	6	-10	3	67	52	42	73	44	-20	-2	5	34
20%	-9	15	16	61	20	16	36	32	-17	-2	-8	21
30%	-9	5	27	87	18	27	22	10	-25	-1	2	10
40%	-7	10	49	88	12	11	-15	-27	-23	-10	1	-14
50%	6	9	153	48	-5	18	-15	-20	-27	-8	3	-14
60%	-29	35	181	34	0	27	-16	-19	-24	-11	-33	-119
70%	-27	60	177	6	-11	3	-2	-12	-28	-7	-26	-99
80%	-19	54	114	0	-1	4	-1	-12	-24	-4	-22	-93
90%	-9	30	40	0	5	-3	-5	-4	-23	-3	-29	-77
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-10	20	76	42	6	17	13	2	-23	-4	-10	-36
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	-9	30	64	16	-5	7	-9	-12	-10	-1	-23	-109
Above Normal (15%)	-15	29	93	55	3	3	-23	-26	-25	-4	-24	-67
Below Normal (17%)	-19	18	73	47	1	20	-10	-21	-27	-8	5	36
Dry (22%)	-8	12	88	72	18	35	28	21	-33	-7	-4	8
Critical (15%)	-1	7	68	33	22	21	102	58	-26	3	6	5

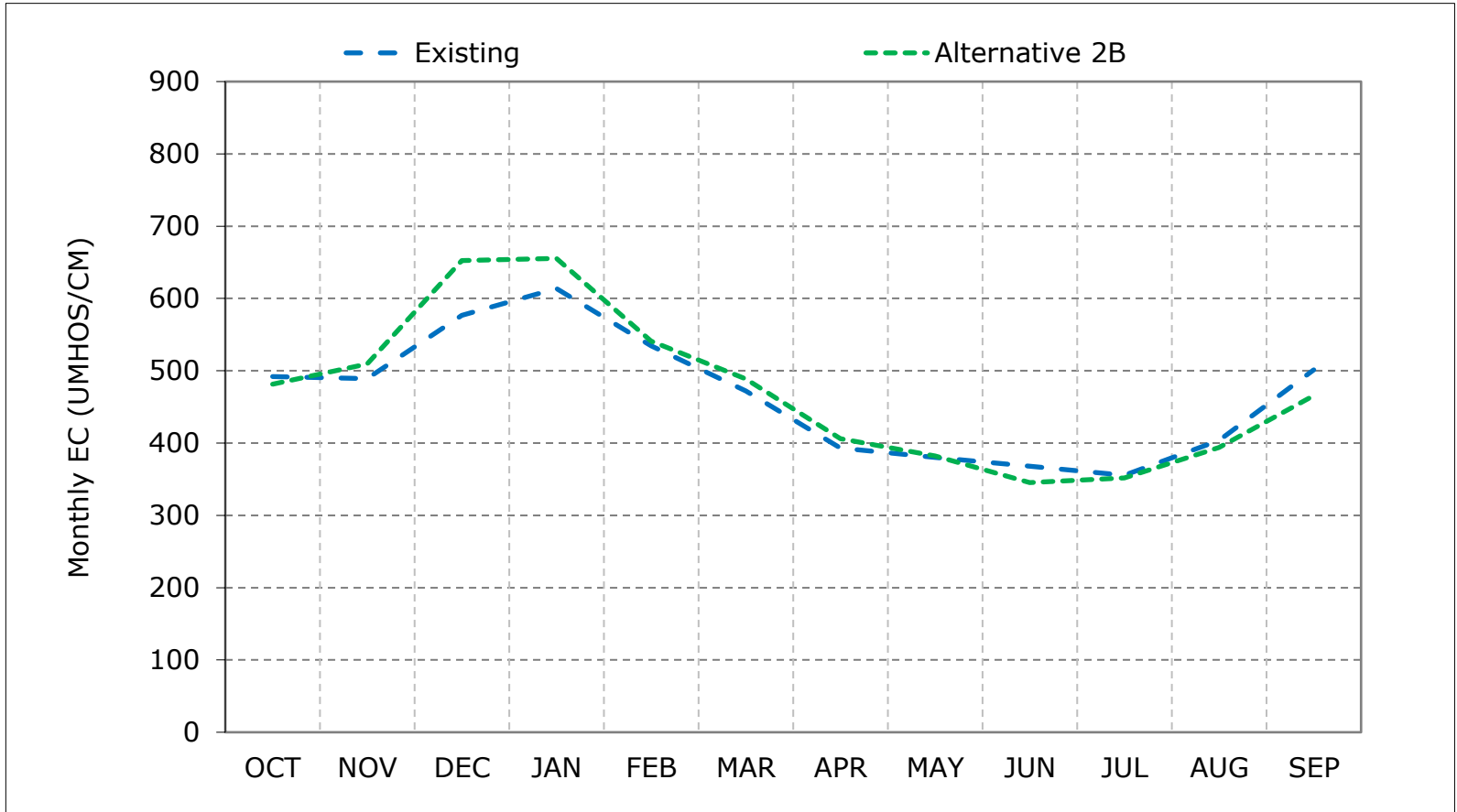
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

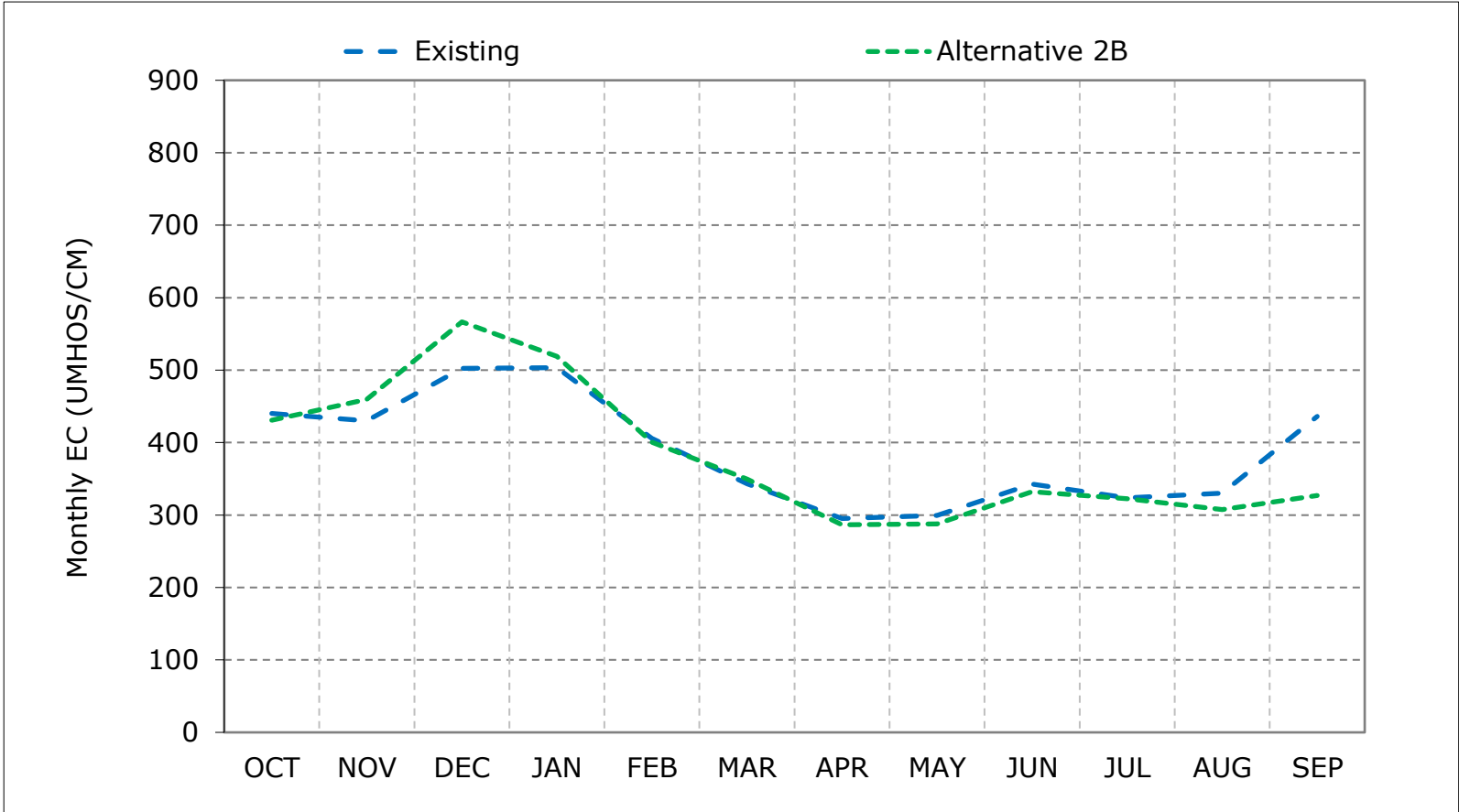
**Figure 17-1. Jones Pumping Plant South Delta Exports Salinity, Long-Term Average**



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

\*These results are displayed with water year - year type sorting.

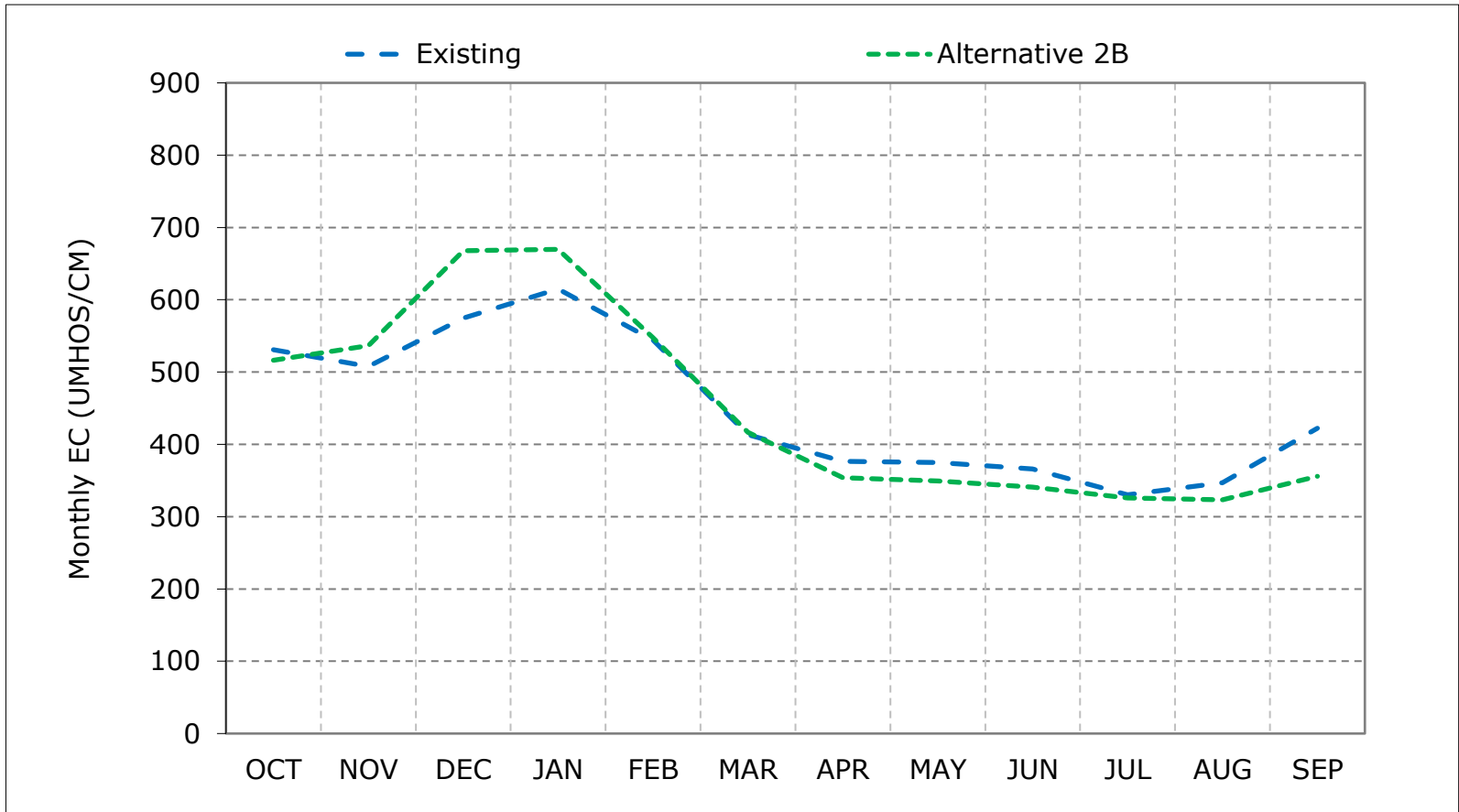
**Figure 17-2. Jones Pumping Plant South Delta Exports Salinity, Wet Year Average**



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

\*These results are displayed with water year - year type sorting.

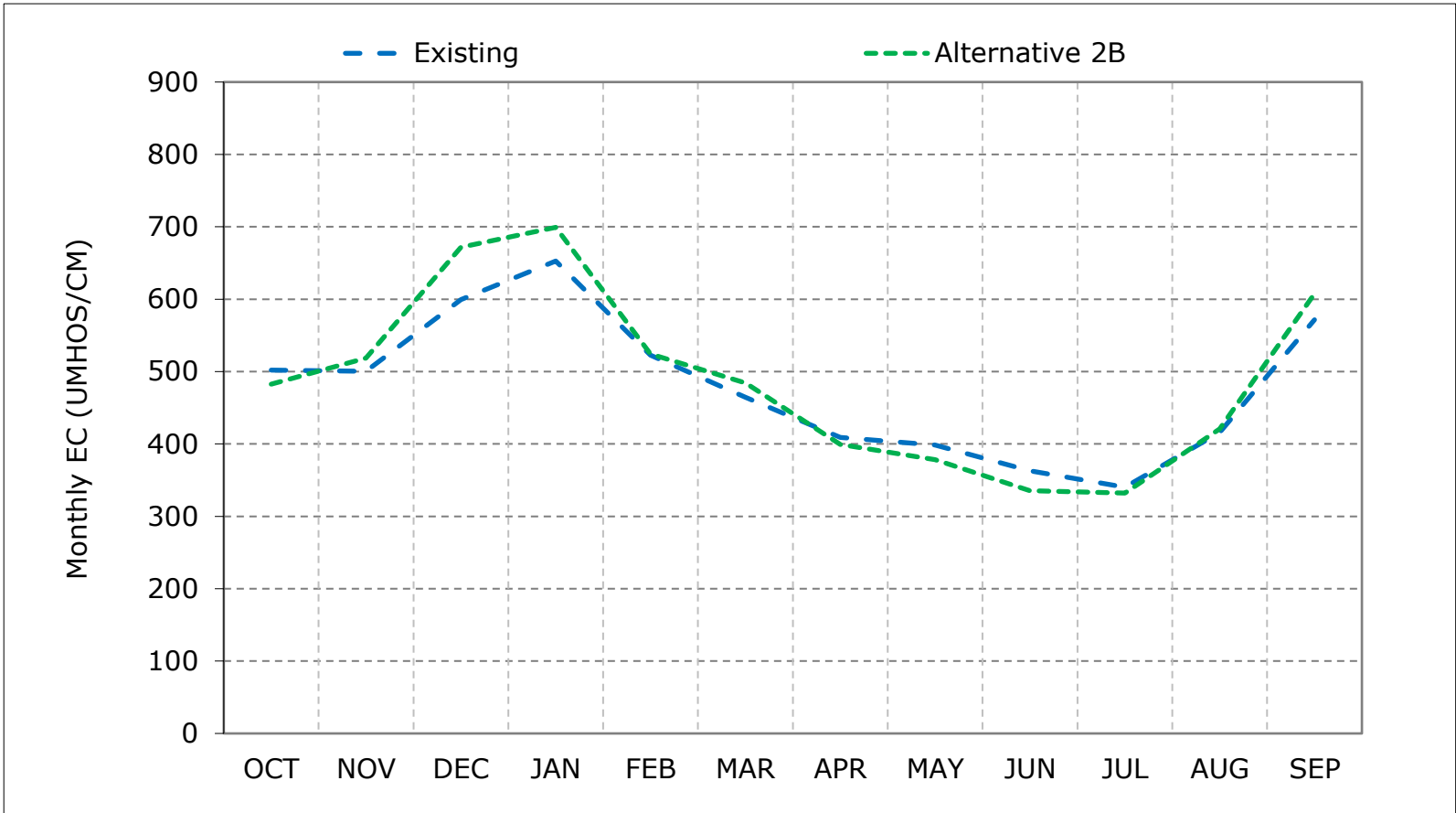
**Figure 17-3. Jones Pumping Plant South Delta Exports Salinity, Above Normal Year Average**



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

\*These results are displayed with water year - year type sorting.

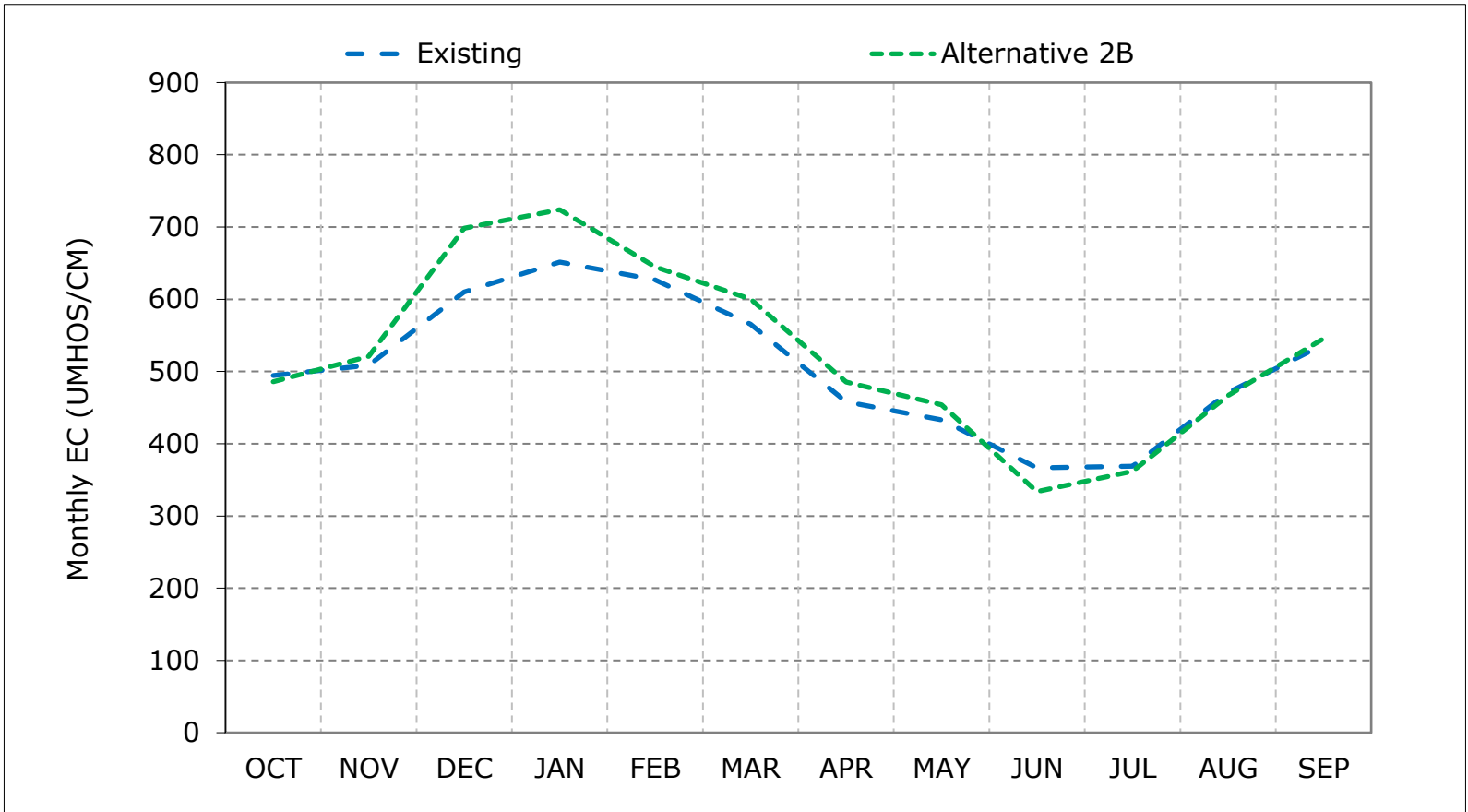
**Figure 17-4. Jones Pumping Plant South Delta Exports Salinity, Below Normal Year Average**



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

\*These results are displayed with water year - year type sorting.

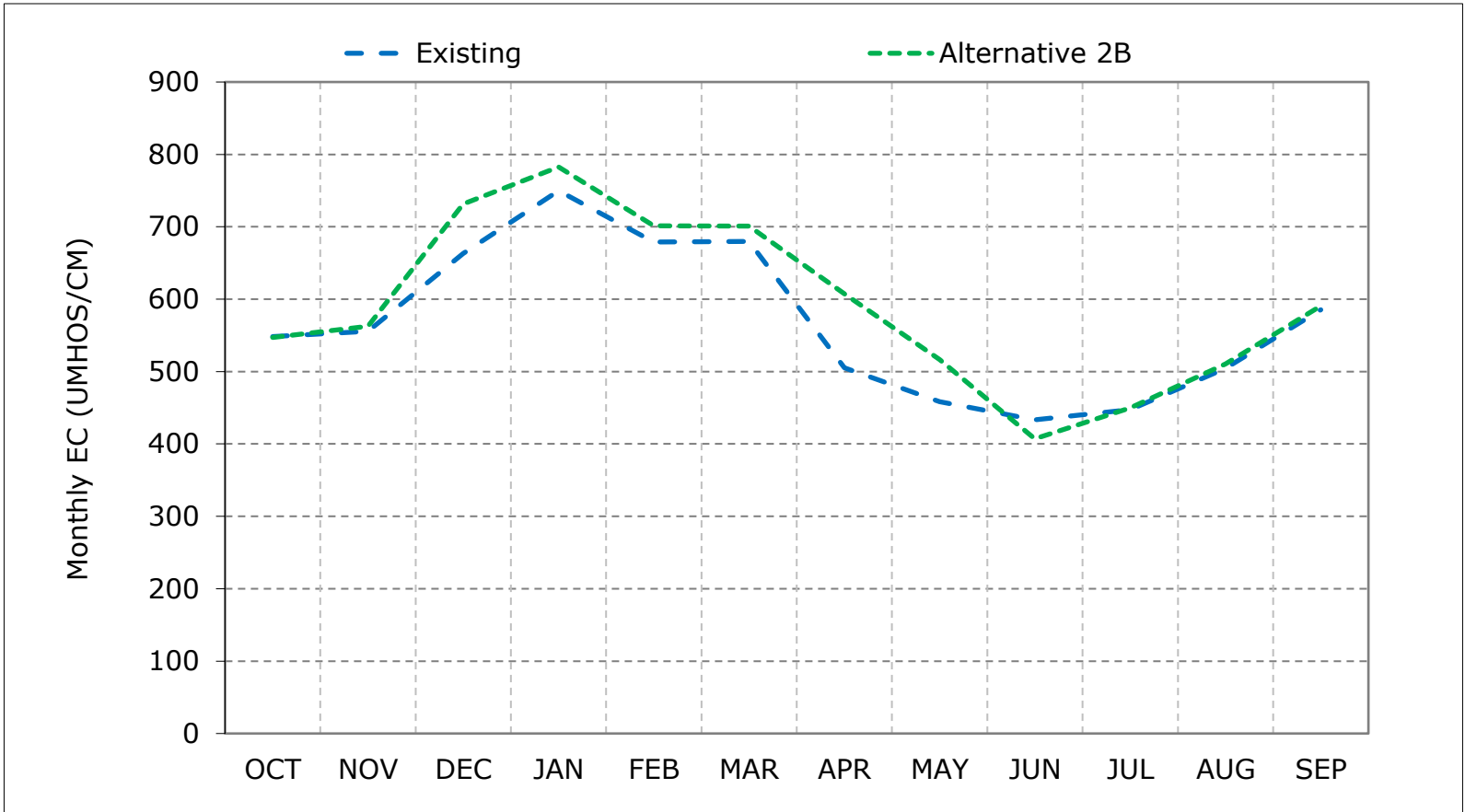
**Figure 17-5. Jones Pumping Plant South Delta Exports Salinity, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 17-6. Jones Pumping Plant South Delta Exports Salinity, Critical Year Average EC**



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

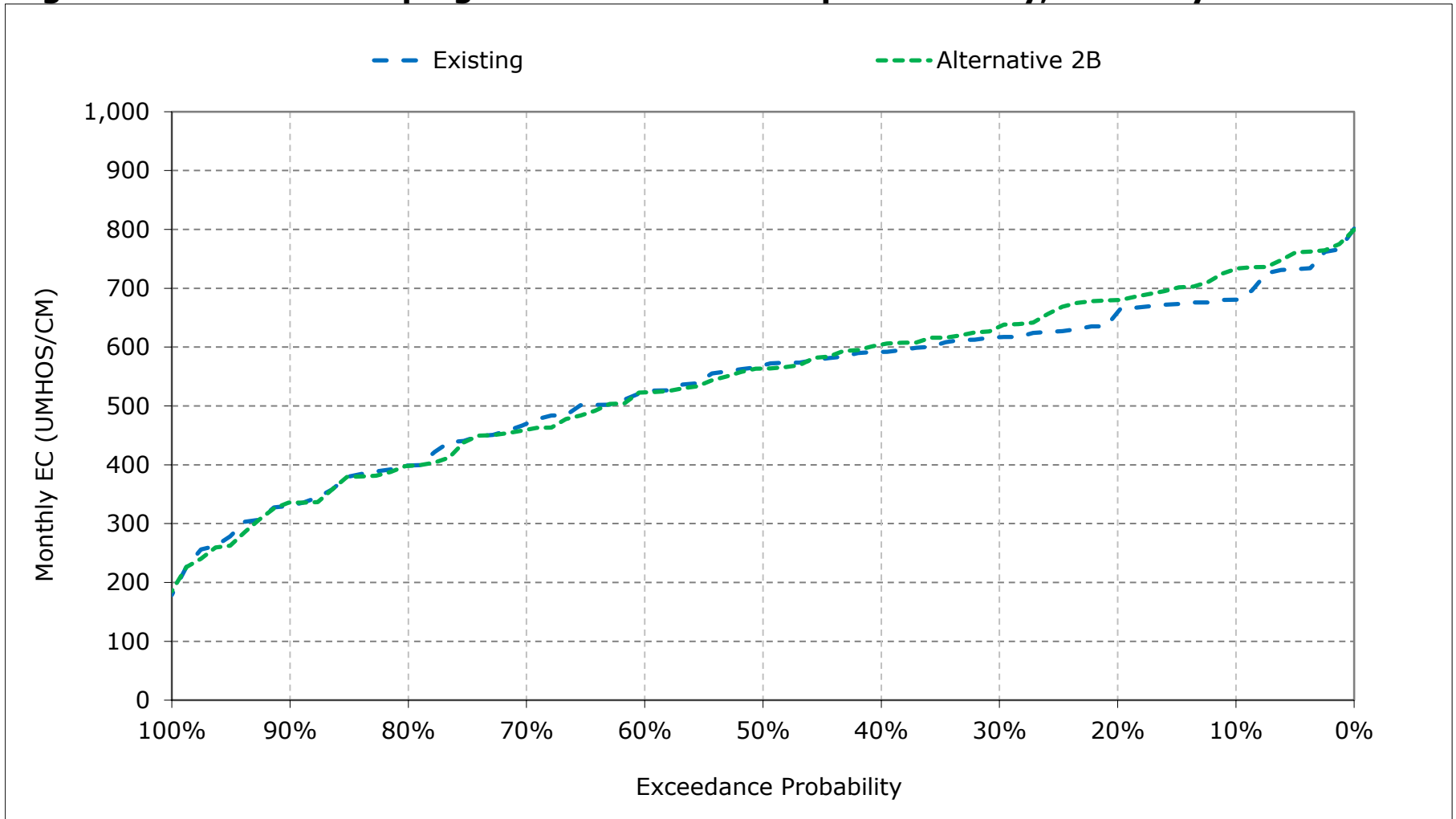
\*These results are displayed with water year - year type sorting.



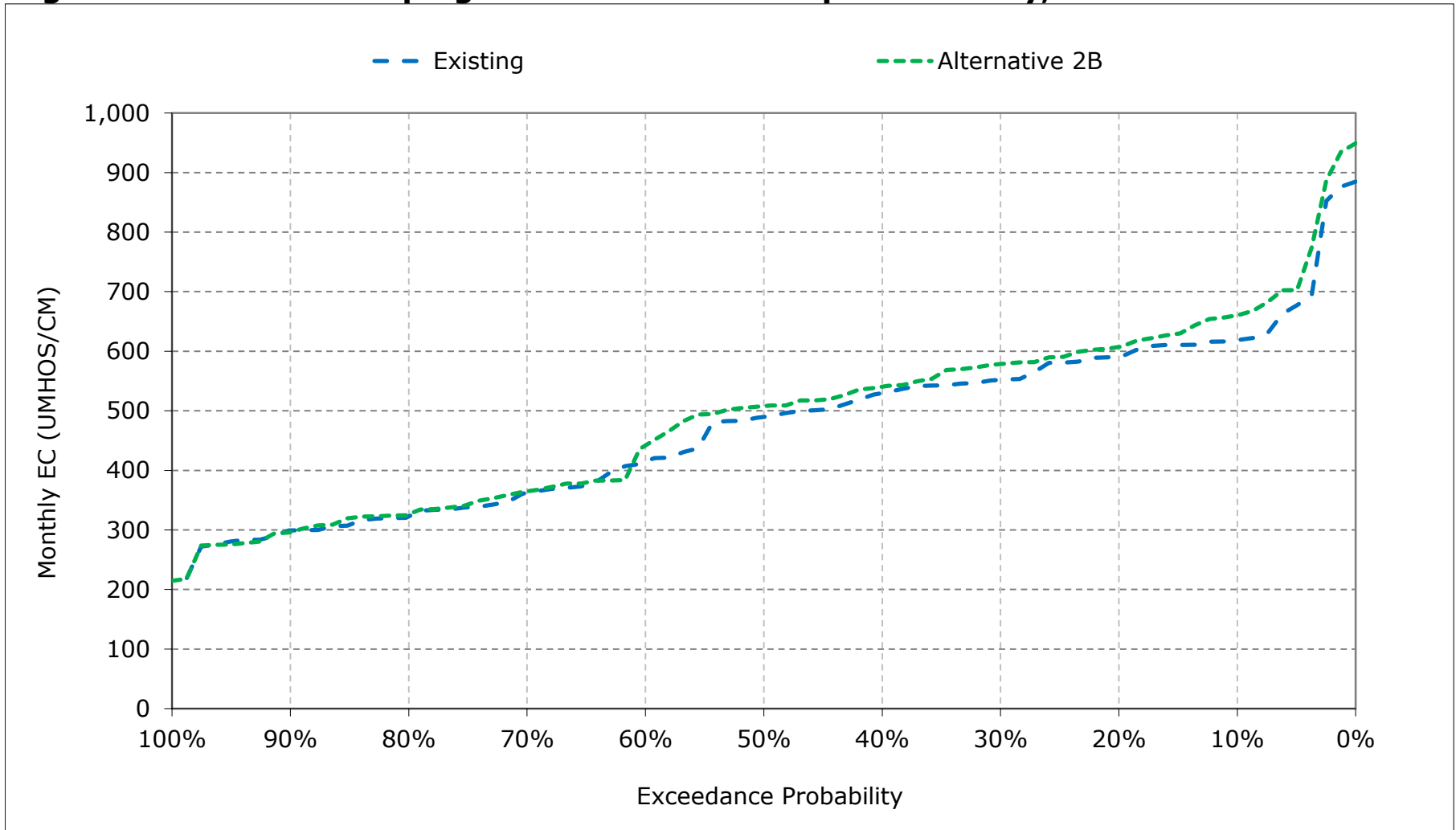
**Figure 17-7. Jones Pumping Plant South Delta Exports Salinity, January EC**



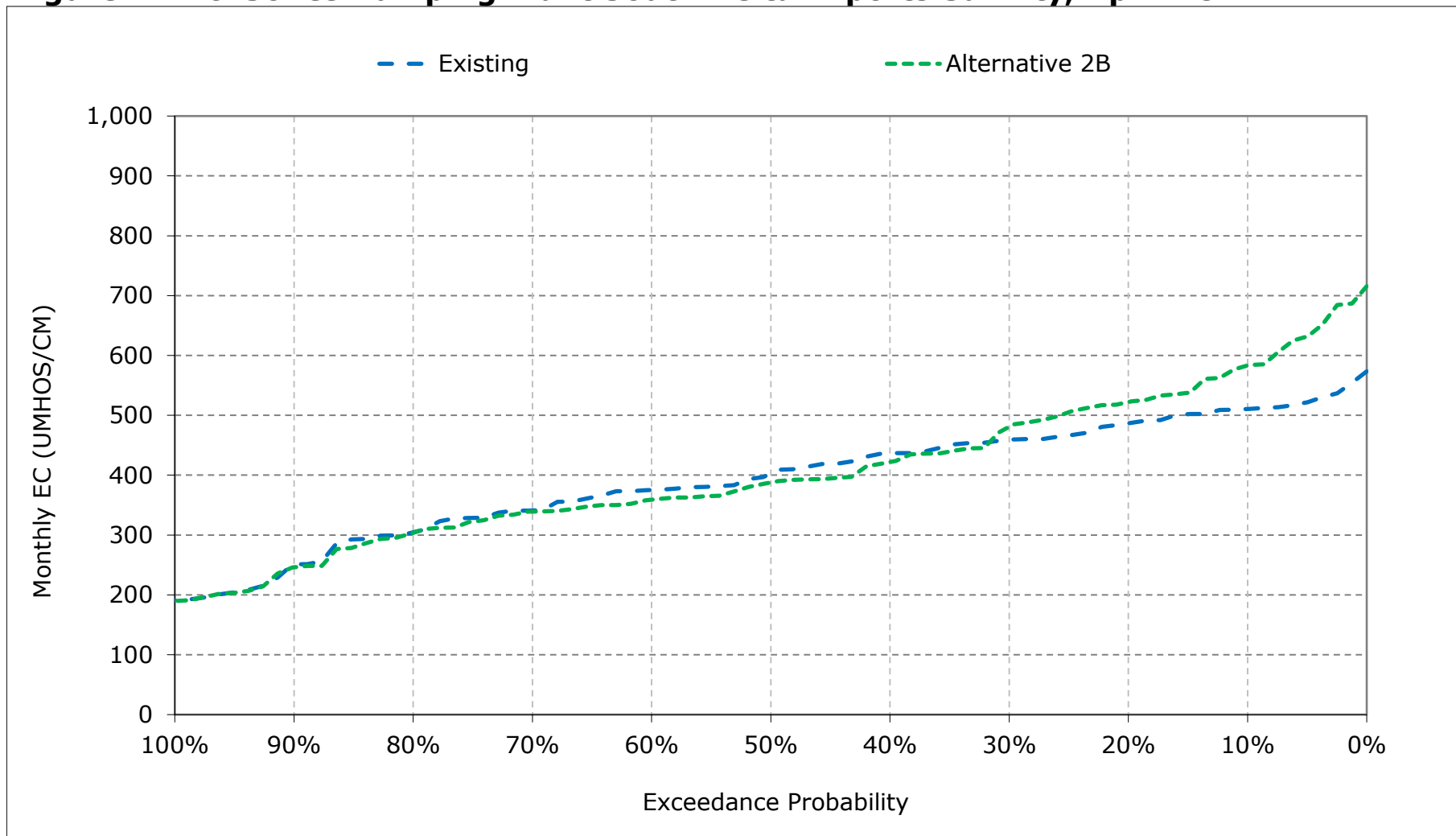
**Figure 17-8. Jones Pumping Plant South Delta Exports Salinity, February EC**



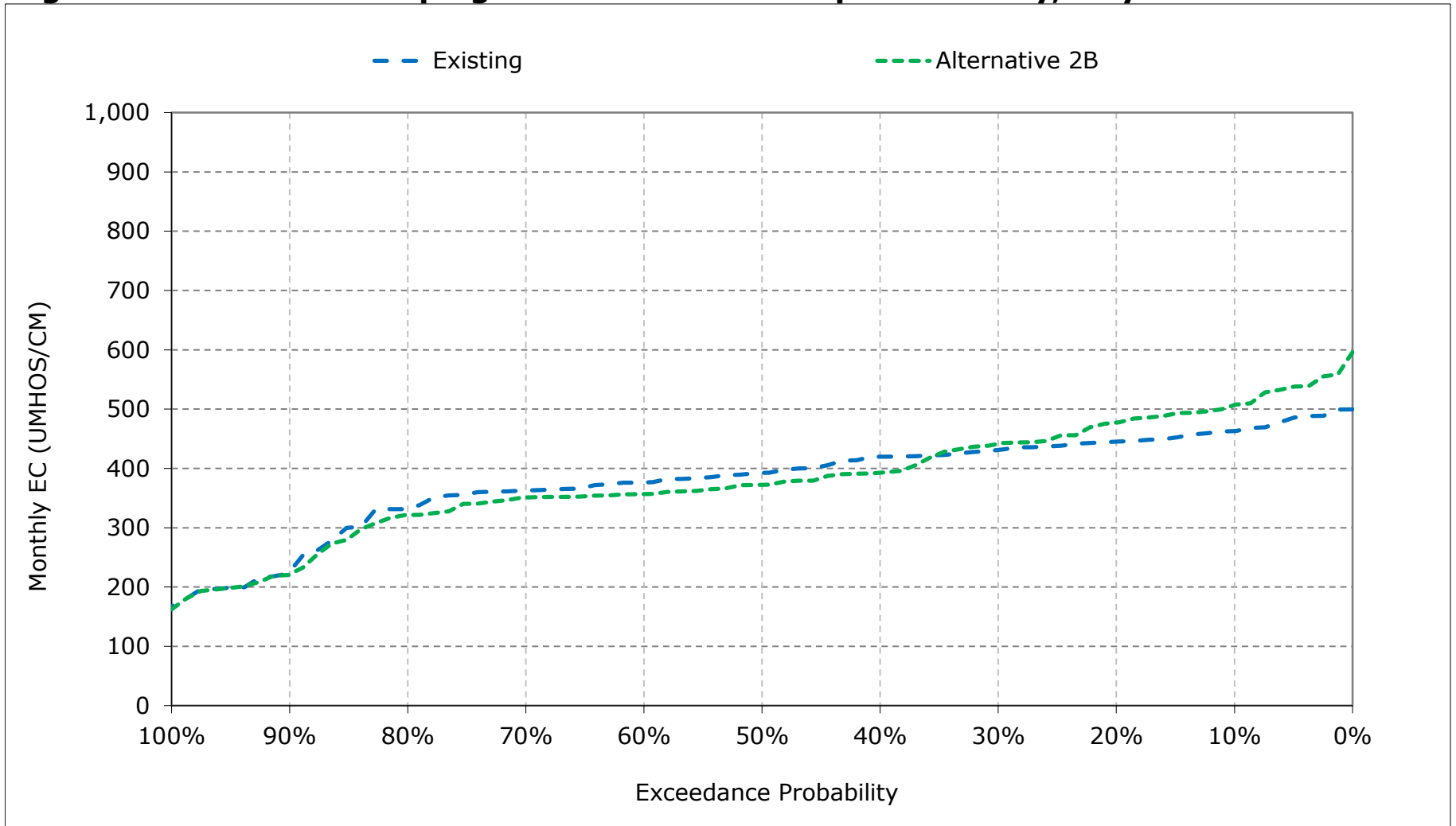
**Figure 17-9. Jones Pumping Plant South Delta Exports Salinity, March EC**



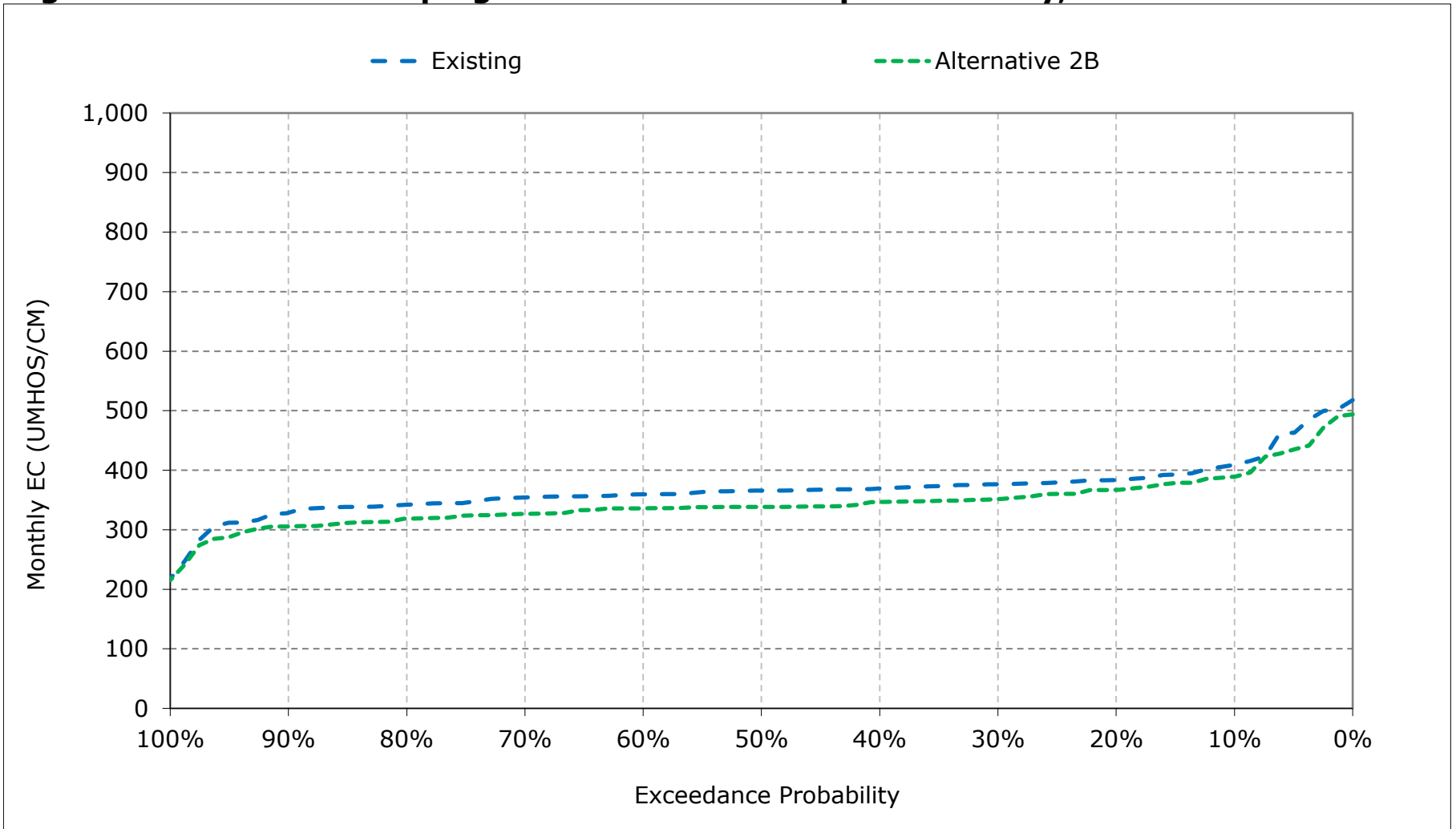
**Figure 17-10. Jones Pumping Plant South Delta Exports Salinity, April EC**



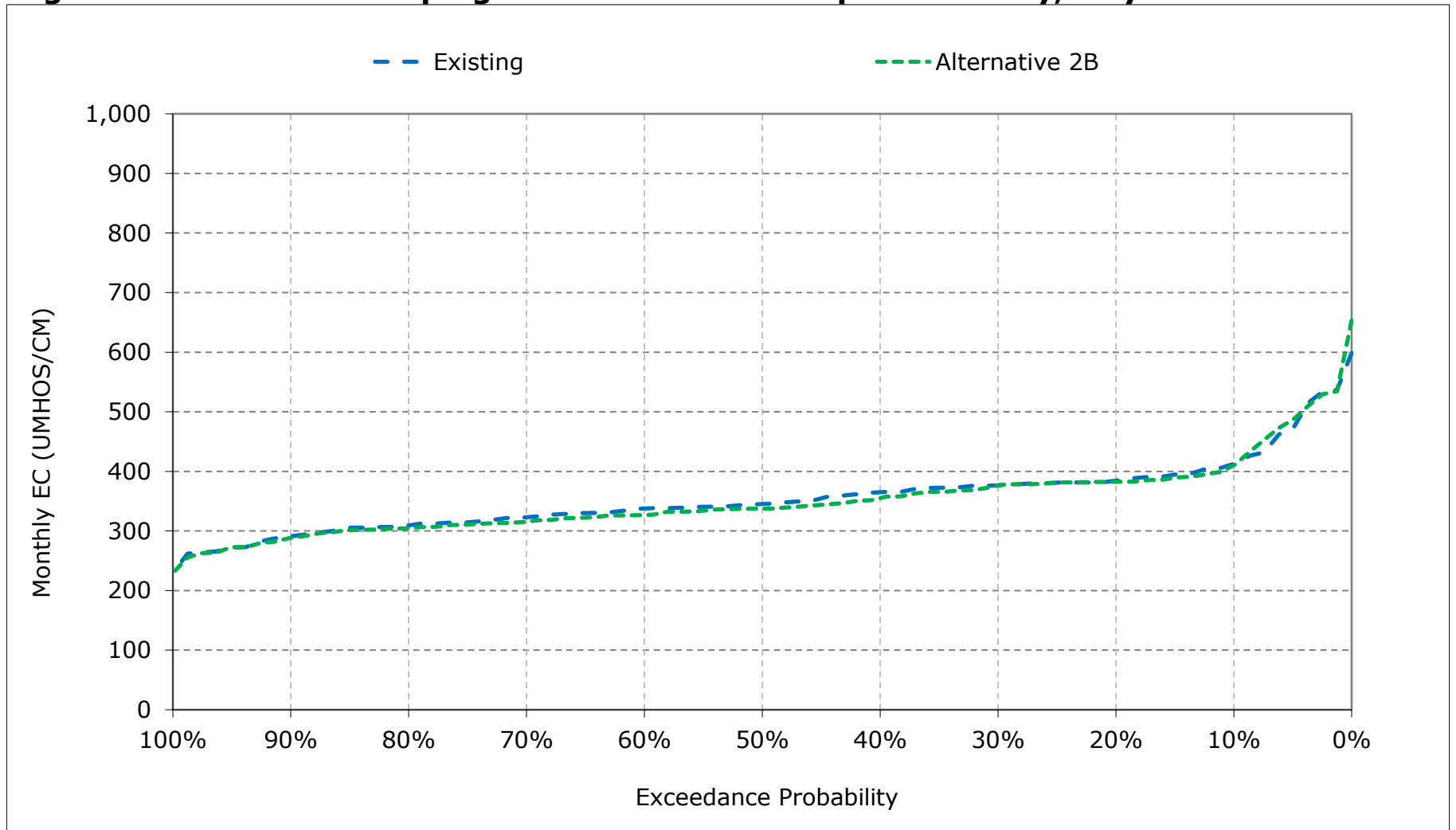
**Figure 17-11. Jones Pumping Plant South Delta Exports Salinity, May EC**



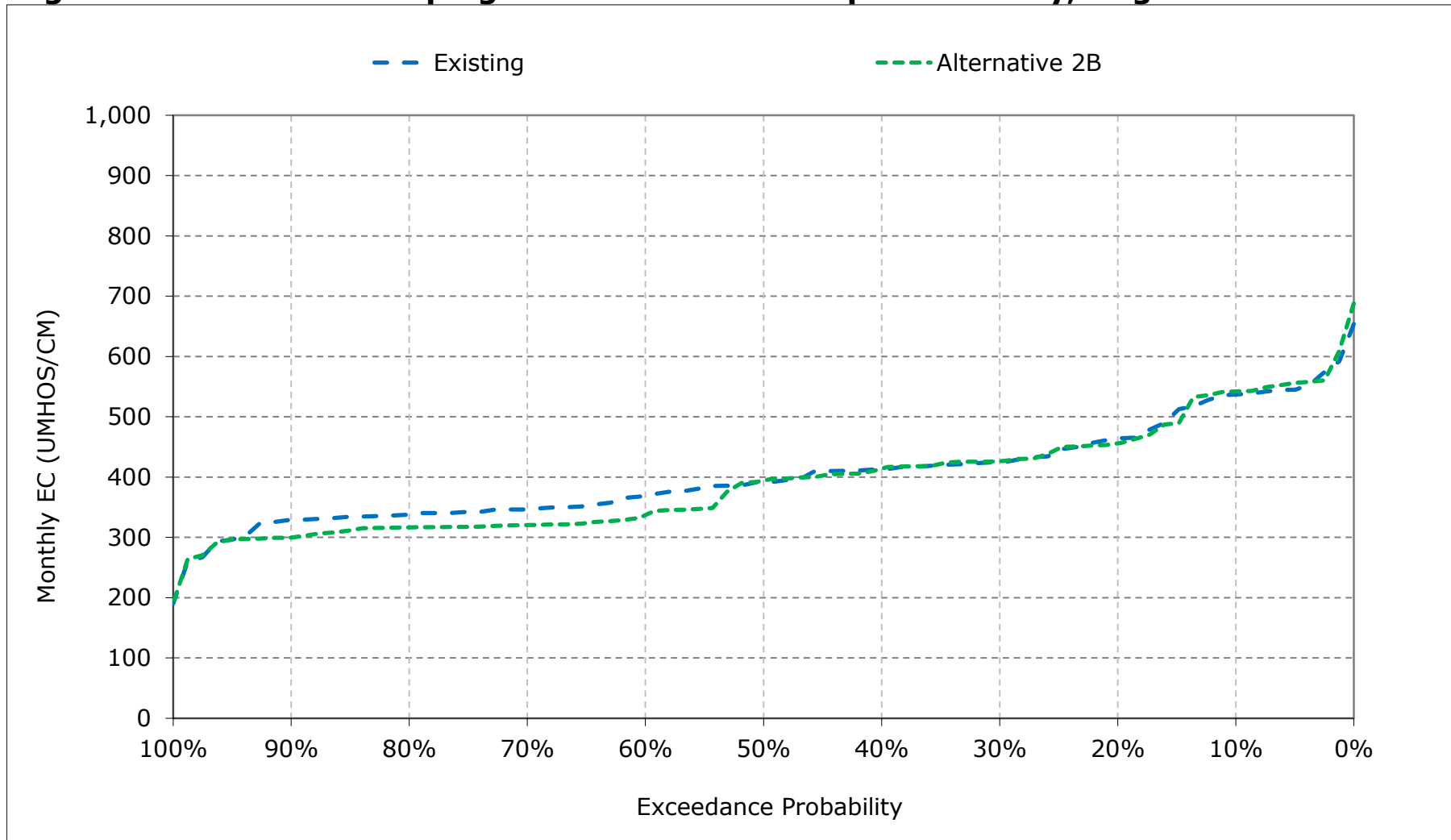
**Figure 17-12. Jones Pumping Plant South Delta Exports Salinity, June EC**



**Figure 17-13. Jones Pumping Plant South Delta Exports Salinity, July EC**

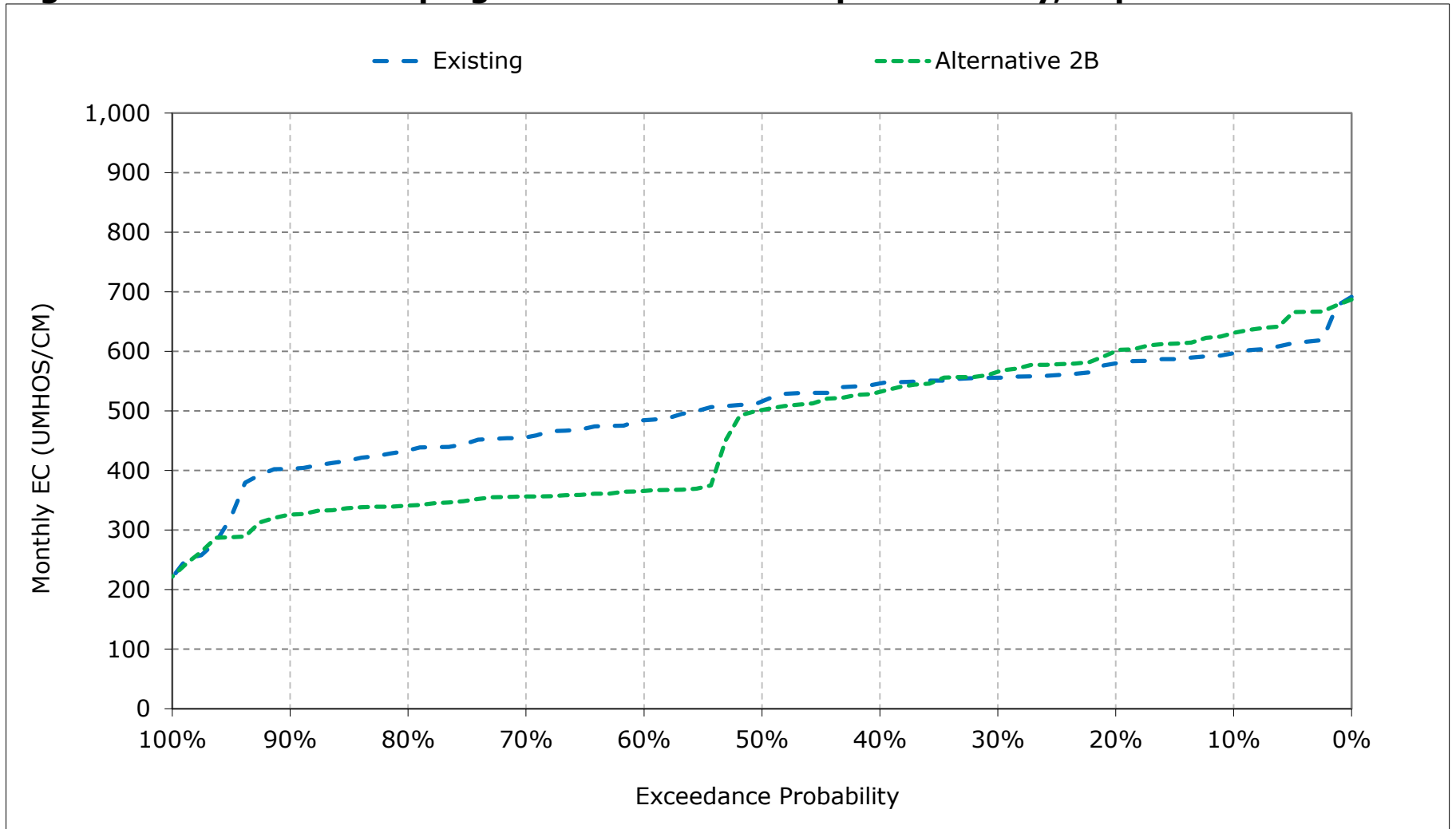


**Figure 17-14. Jones Pumping Plant South Delta Exports Salinity, August EC**

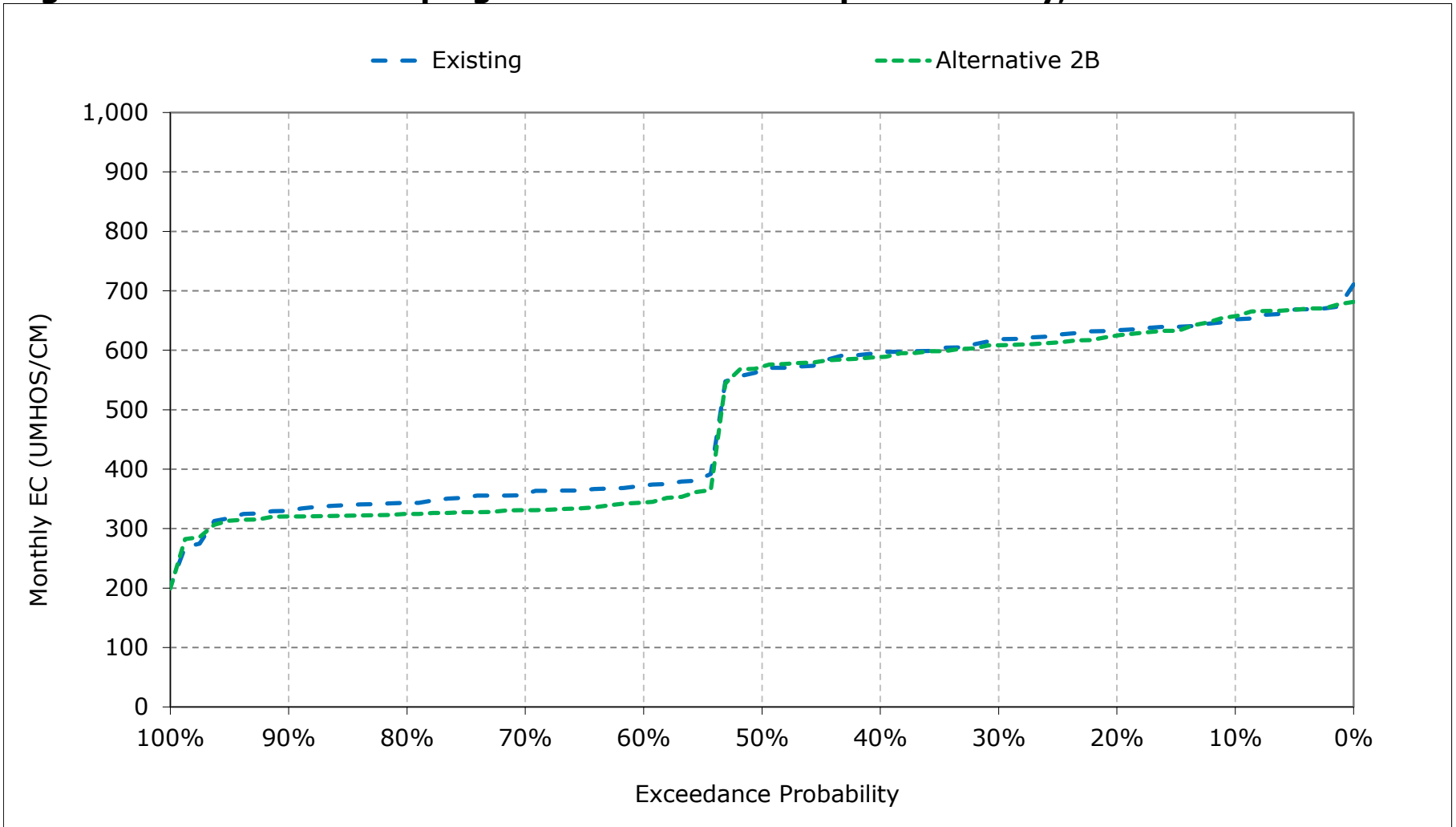




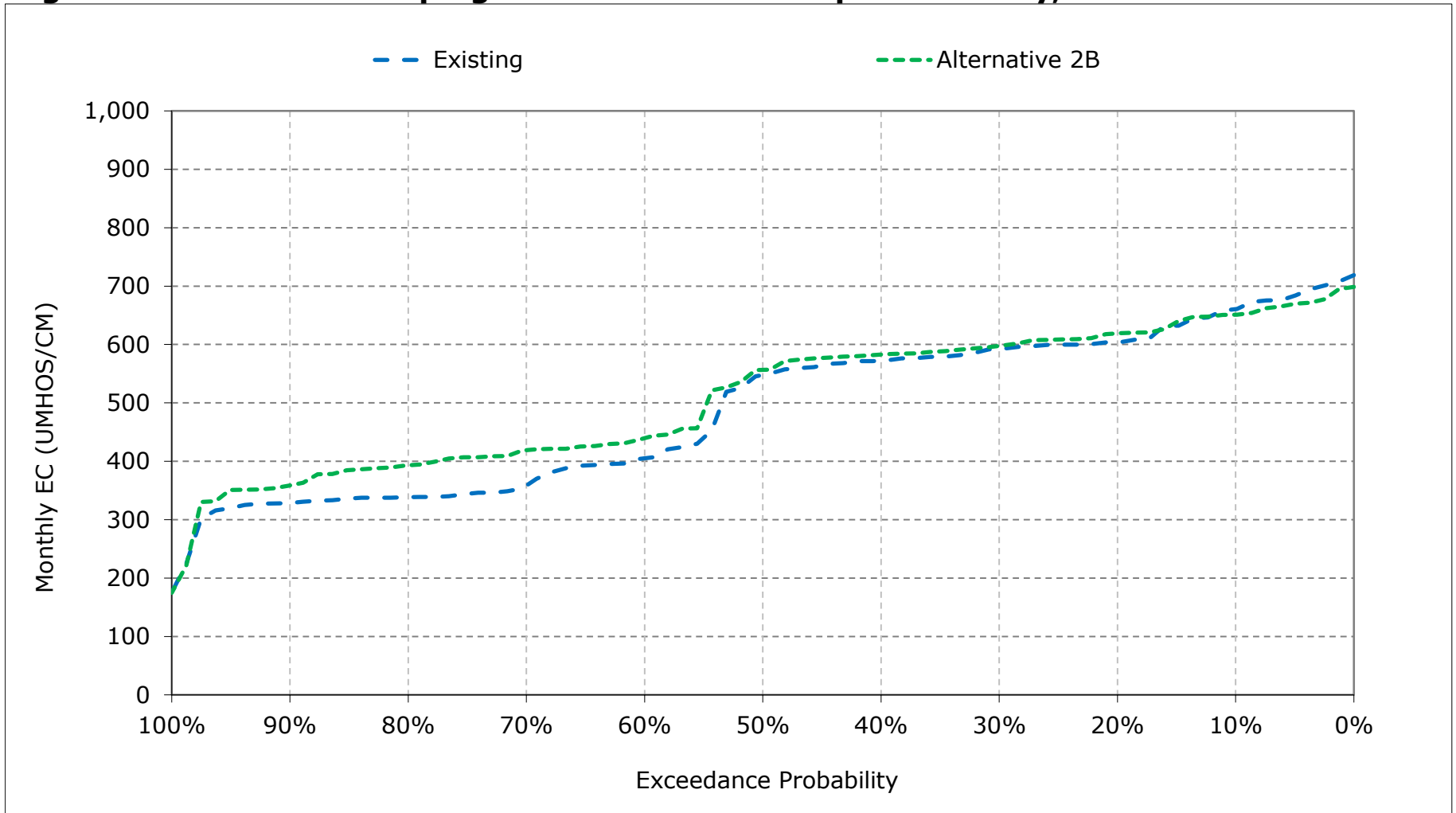
**Figure 17-15. Jones Pumping Plant South Delta Exports Salinity, September EC**



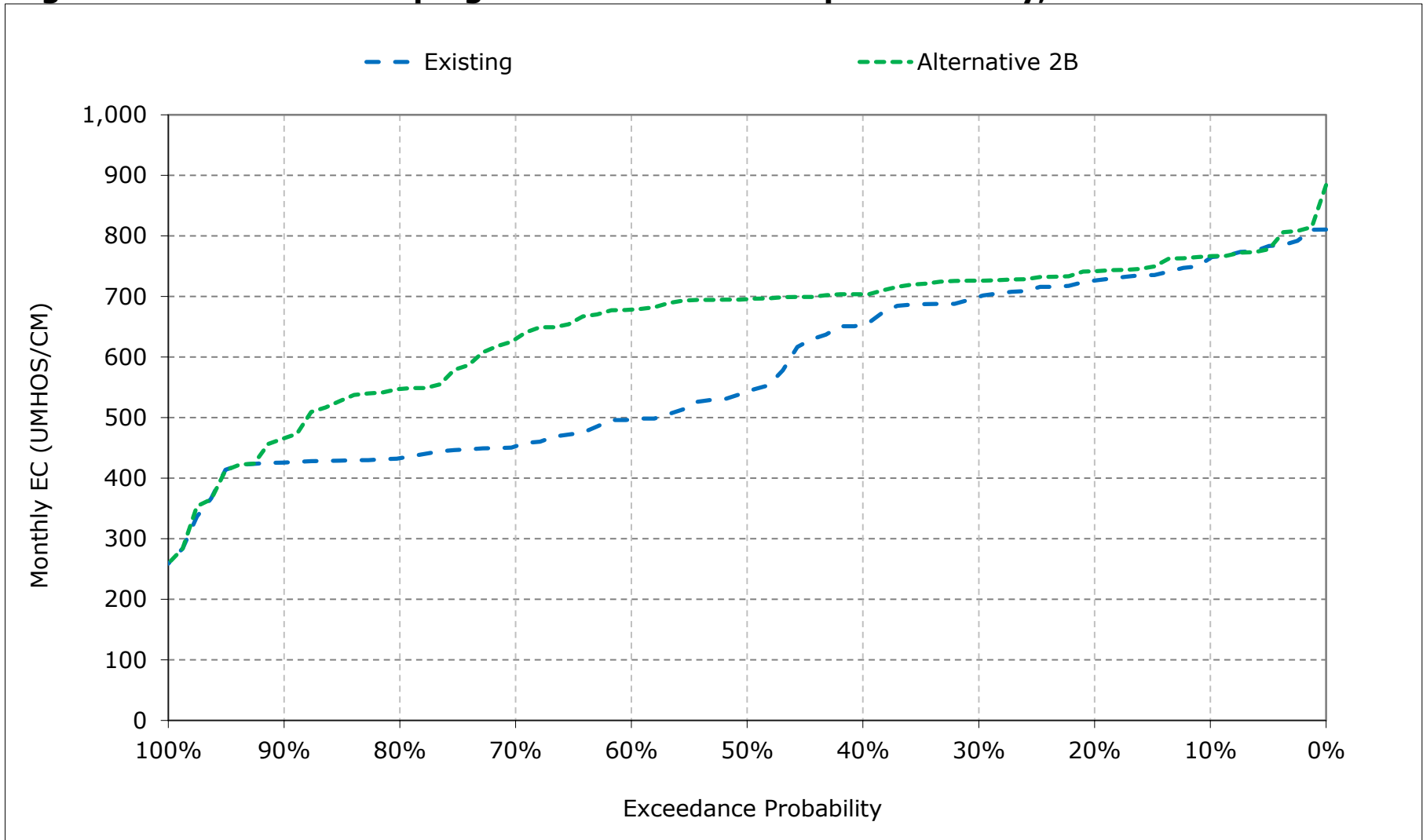
**Figure 17-16. Jones Pumping Plant South Delta Exports Salinity, October EC**



**Figure 17-17. Jones Pumping Plant South Delta Exports Salinity, November EC**



**Figure 17-18. Jones Pumping Plant South Delta Exports Salinity, December EC**



**Table 18-1. Old River at Highway 4, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	753	741	807	782	558	435	417	418	360	425	570	689
20%	725	677	768	719	512	406	401	402	327	352	482	660
30%	710	650	722	612	487	370	380	391	315	332	442	624
40%	678	620	613	561	458	359	374	385	310	315	423	590
50%	634	580	424	518	421	347	363	377	307	290	387	559
60%	319	322	368	471	387	338	351	367	303	275	364	516
70%	303	286	313	429	366	324	336	354	297	268	330	496
80%	292	273	286	373	348	314	299	331	286	261	320	448
90%	278	266	280	351	327	288	246	220	273	252	309	418
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	516	492	519	552	435	356	350	357	315	321	408	547
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	444	410	395	417	389	331	288	293	283	265	317	464
Above Normal (15%)	566	513	517	540	450	351	352	363	303	266	333	433
Below Normal (17%)	533	510	570	612	422	346	364	381	304	301	422	656
Dry (22%)	518	525	575	581	443	359	390	394	316	362	492	596
Critical (15%)	599	580	649	741	523	419	409	407	408	457	541	644

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	774	730	824	943	613	485	433	391	338	429	581	747
20%	740	684	797	866	542	421	411	358	307	347	489	696
30%	715	649	782	771	500	394	395	351	293	323	448	638
40%	687	629	759	688	468	378	373	345	288	307	419	583
50%	650	581	734	570	432	366	364	338	282	282	394	531
60%	265	440	681	504	410	348	354	327	277	273	319	331
70%	258	400	580	444	373	337	340	317	273	262	288	318
80%	250	367	510	405	352	323	322	309	265	260	277	303
90%	247	323	327	362	328	301	283	277	259	251	265	290
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	506	532	658	624	449	374	361	333	295	318	392	490
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	431	467	521	450	390	345	305	288	271	265	277	290
Above Normal (15%)	556	560	674	633	456	375	361	325	278	262	292	319
Below Normal (17%)	520	553	704	696	429	365	371	337	277	286	433	718
Dry (22%)	502	550	737	704	476	386	398	360	290	358	489	610
Critical (15%)	609	597	763	788	551	426	415	394	389	465	546	651

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	20	-11	16	161	54	50	15	-27	-22	3	11	58
20%	15	8	29	147	30	15	10	-44	-20	-5	7	37
30%	5	-1	60	159	13	24	15	-40	-22	-9	6	14
40%	8	9	146	127	10	19	-1	-40	-23	-8	-4	-8
50%	16	1	309	52	11	20	2	-39	-25	-8	7	-28
60%	-54	118	313	33	23	10	3	-40	-26	-2	-45	-185
70%	-45	114	267	15	7	13	4	-37	-25	-7	-42	-178
80%	-41	94	225	32	3	9	23	-22	-20	-1	-42	-145
90%	-31	56	48	11	1	12	37	57	-13	-1	-44	-129
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-10	40	138	72	13	18	11	-24	-20	-3	-17	-57
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	-13	57	127	33	0	13	17	-4	-12	0	-41	-174
Above Normal (15%)	-9	46	156	93	6	24	9	-38	-25	-4	-41	-114
Below Normal (17%)	-13	43	133	84	6	19	7	-43	-26	-15	11	62
Dry (22%)	-16	25	162	124	33	27	8	-34	-27	-4	-3	14
Critical (15%)	10	17	114	46	28	7	6	-12	-19	8	5	7

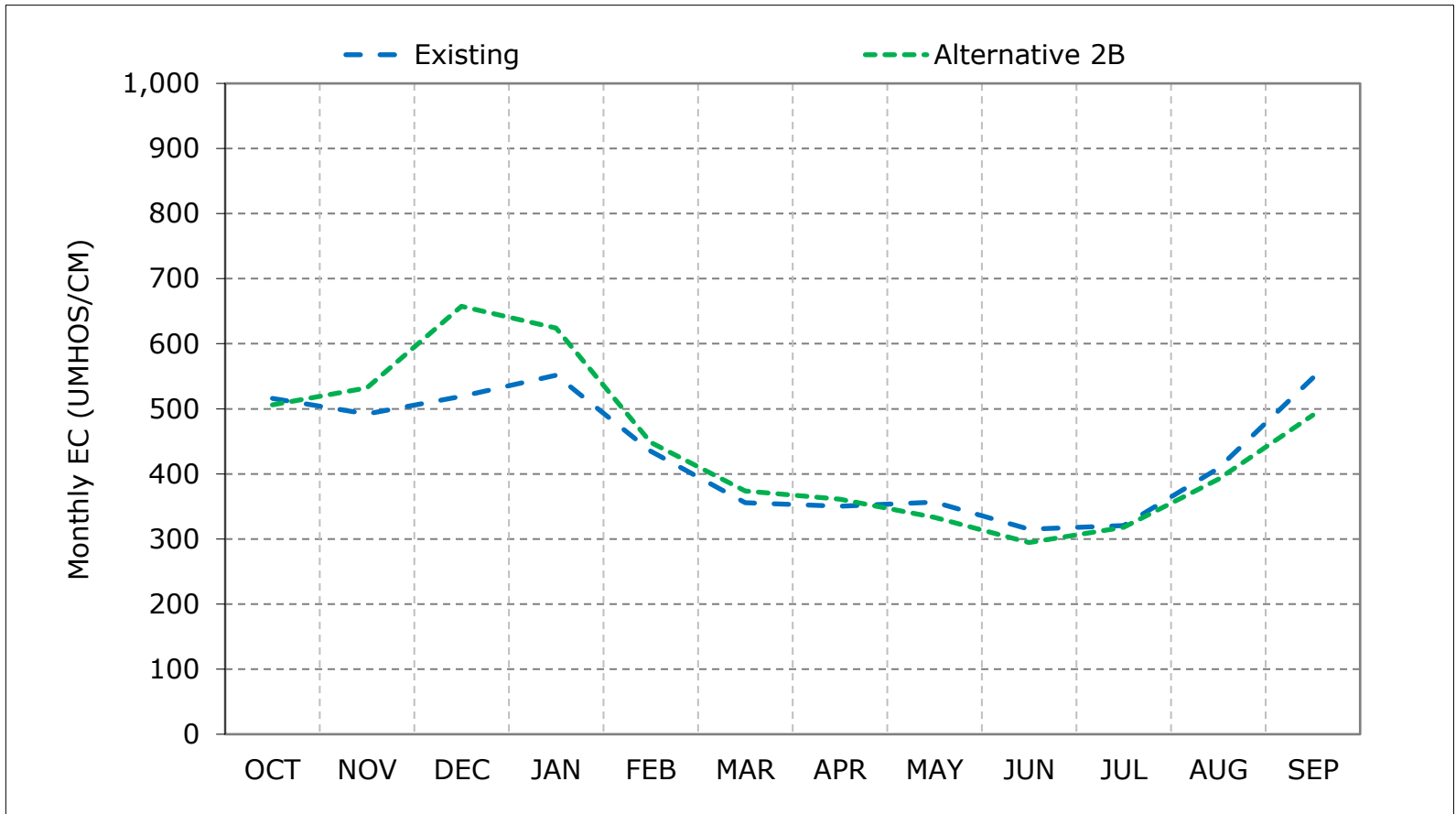
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highlighted in red color which indicate increase in Salinity (EC).

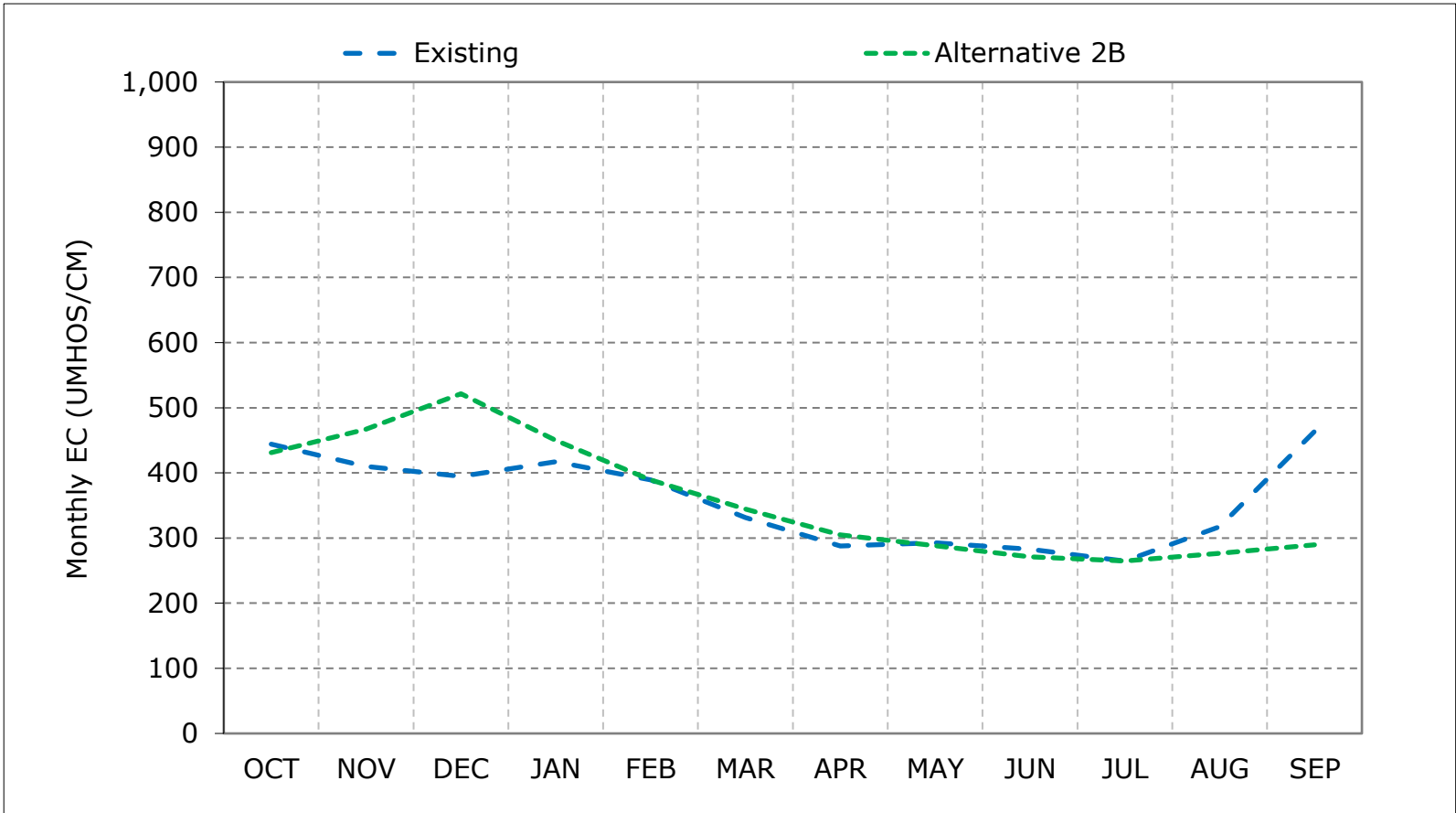
**Figure 18-1. Old River at Highway 4, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

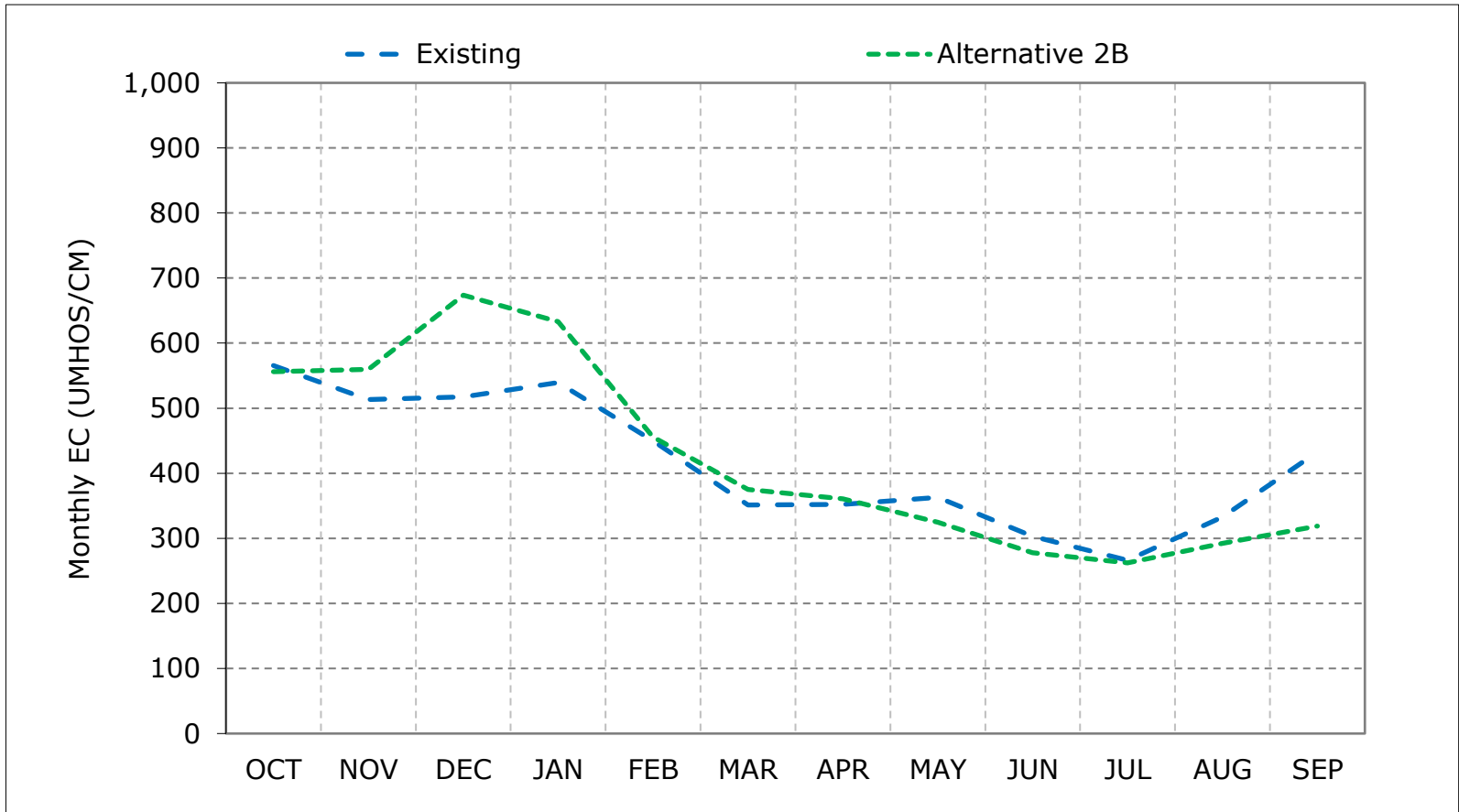
**Figure 18-2. Old River at Highway 4, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 18-3. Old River at Highway 4, Above Normal Year Average EC**

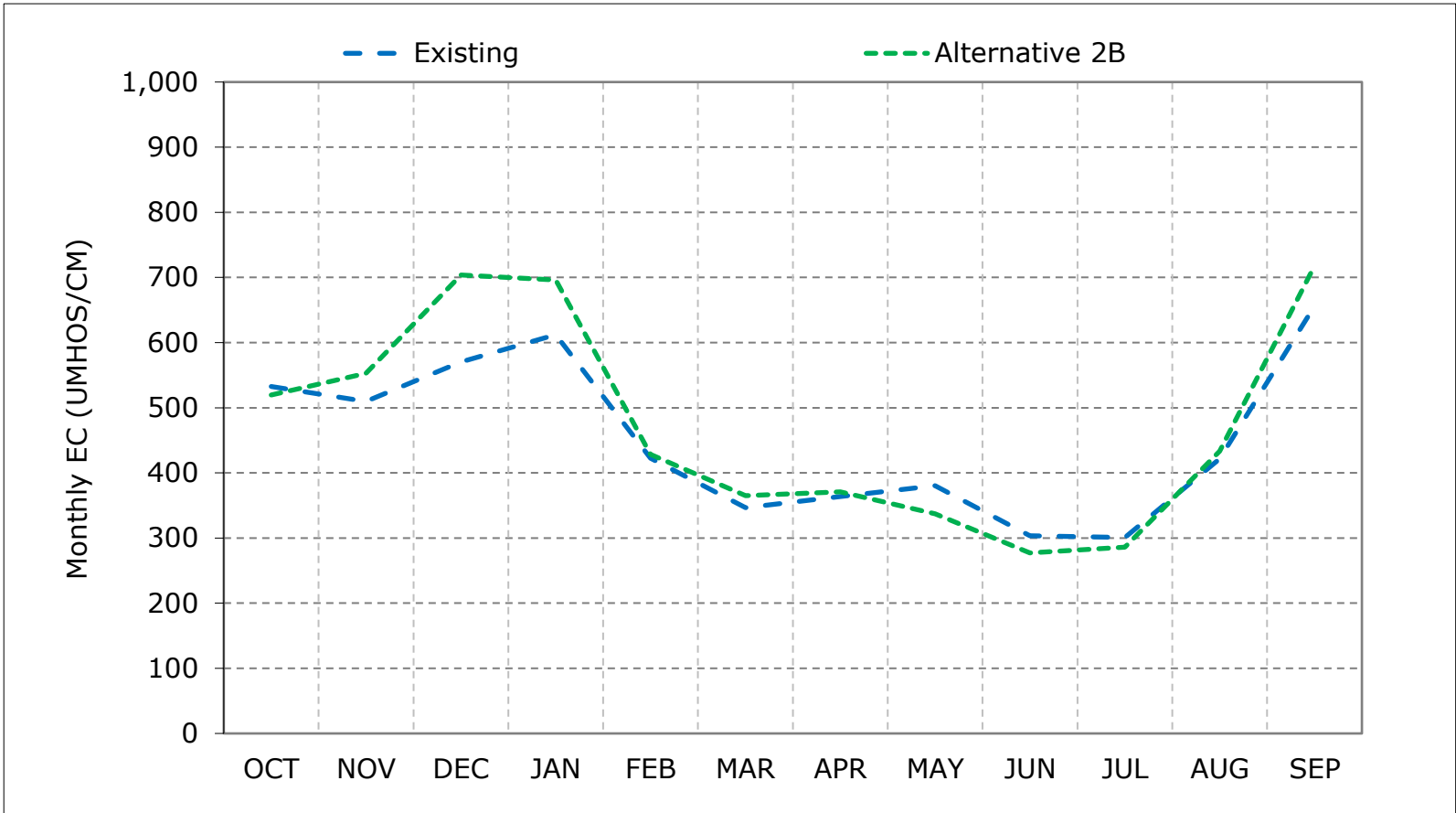


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



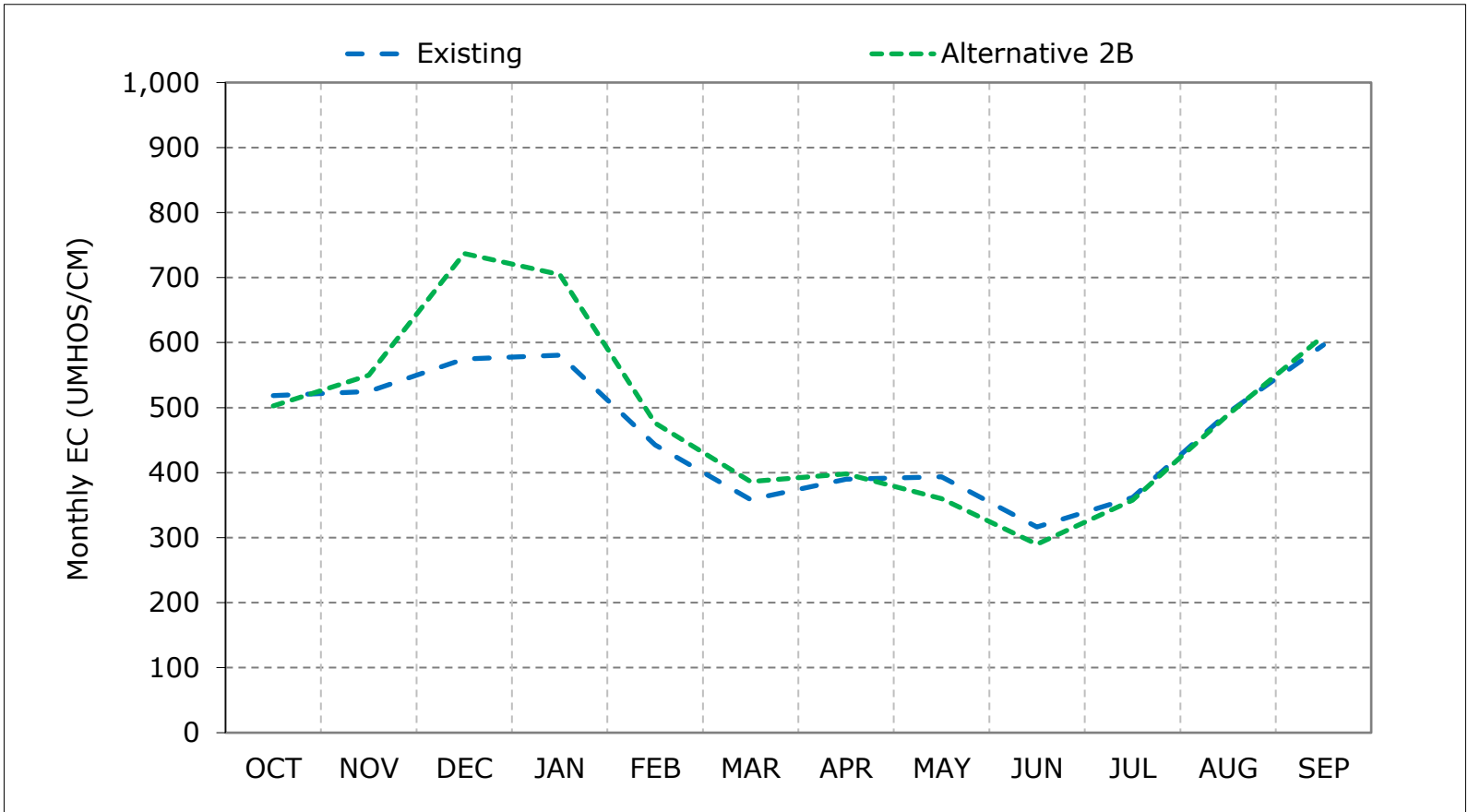
**Figure 18-4. Old River at Highway 4, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

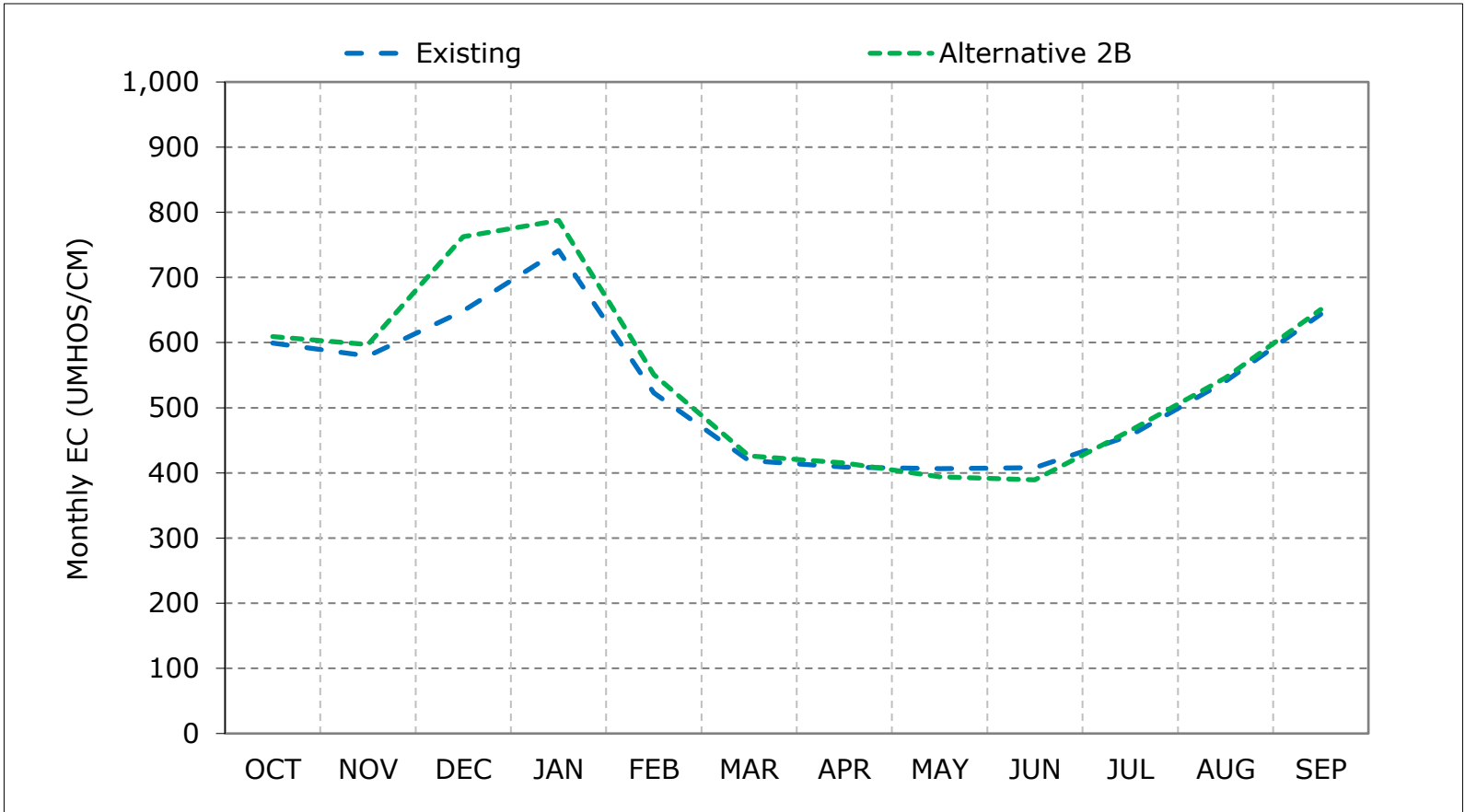
**Figure 18-5. Old River at Highway 4, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

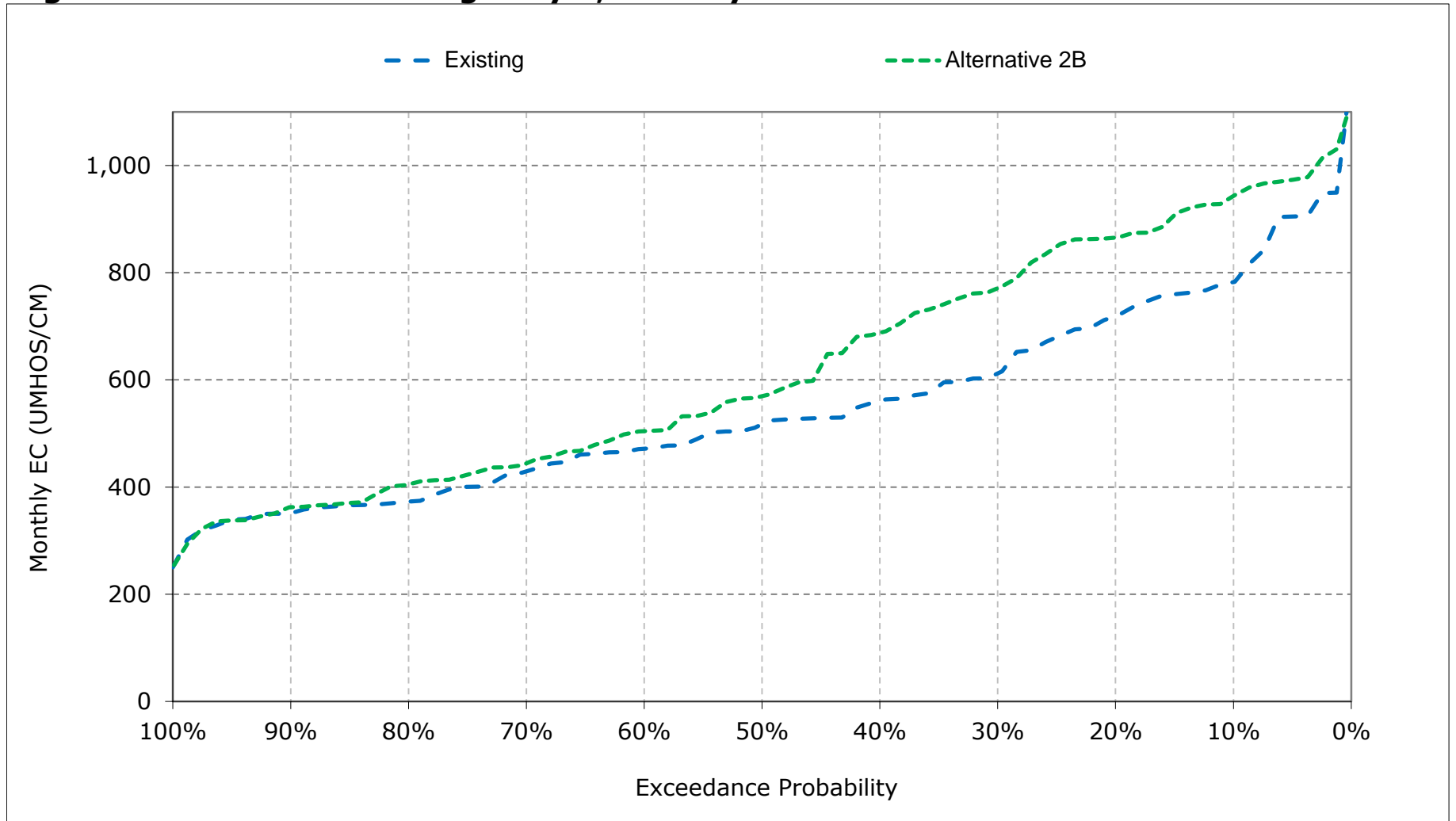
**Figure 18-6. Old River at Highway 4, Critical Year Average EC**



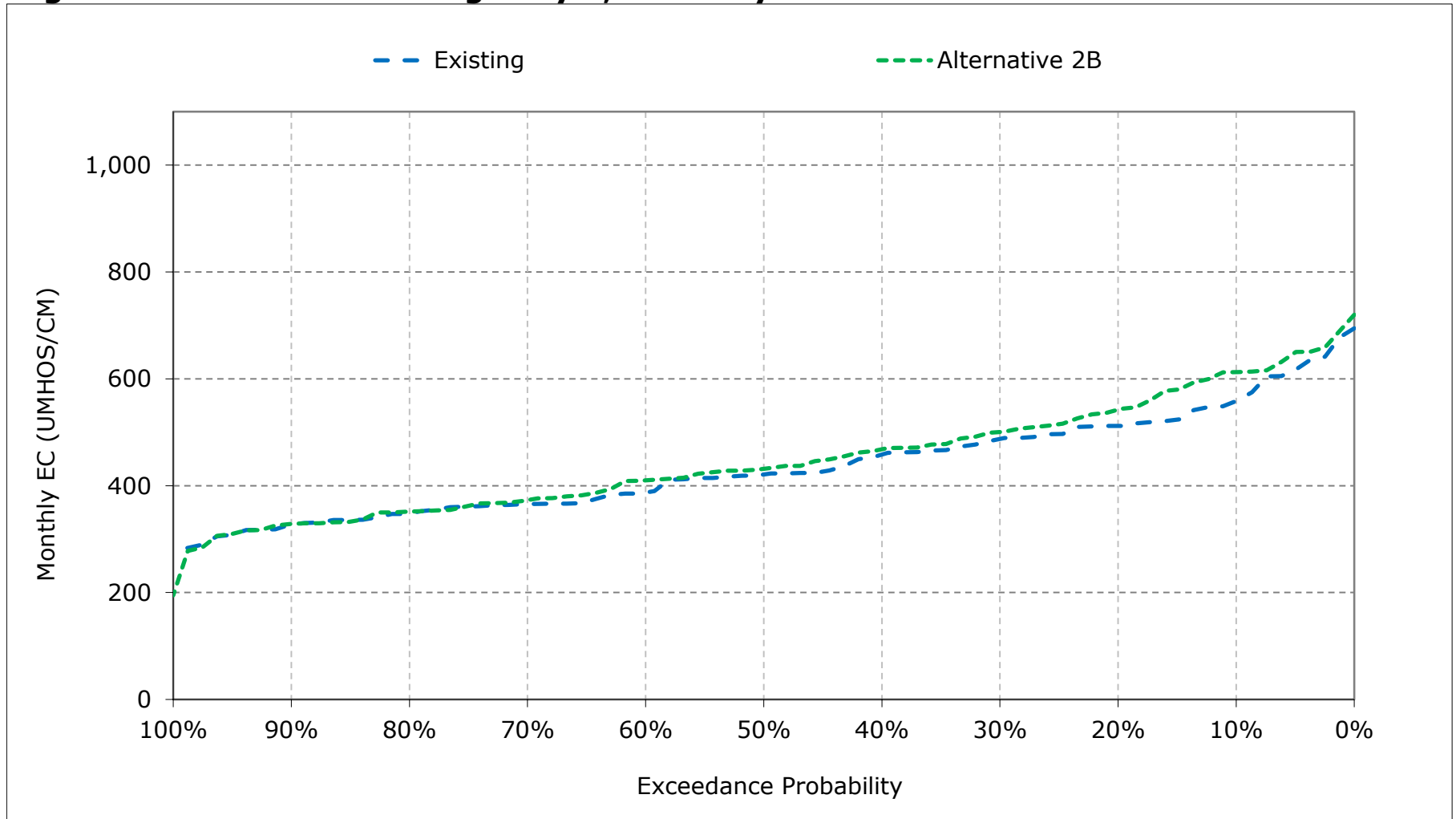
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

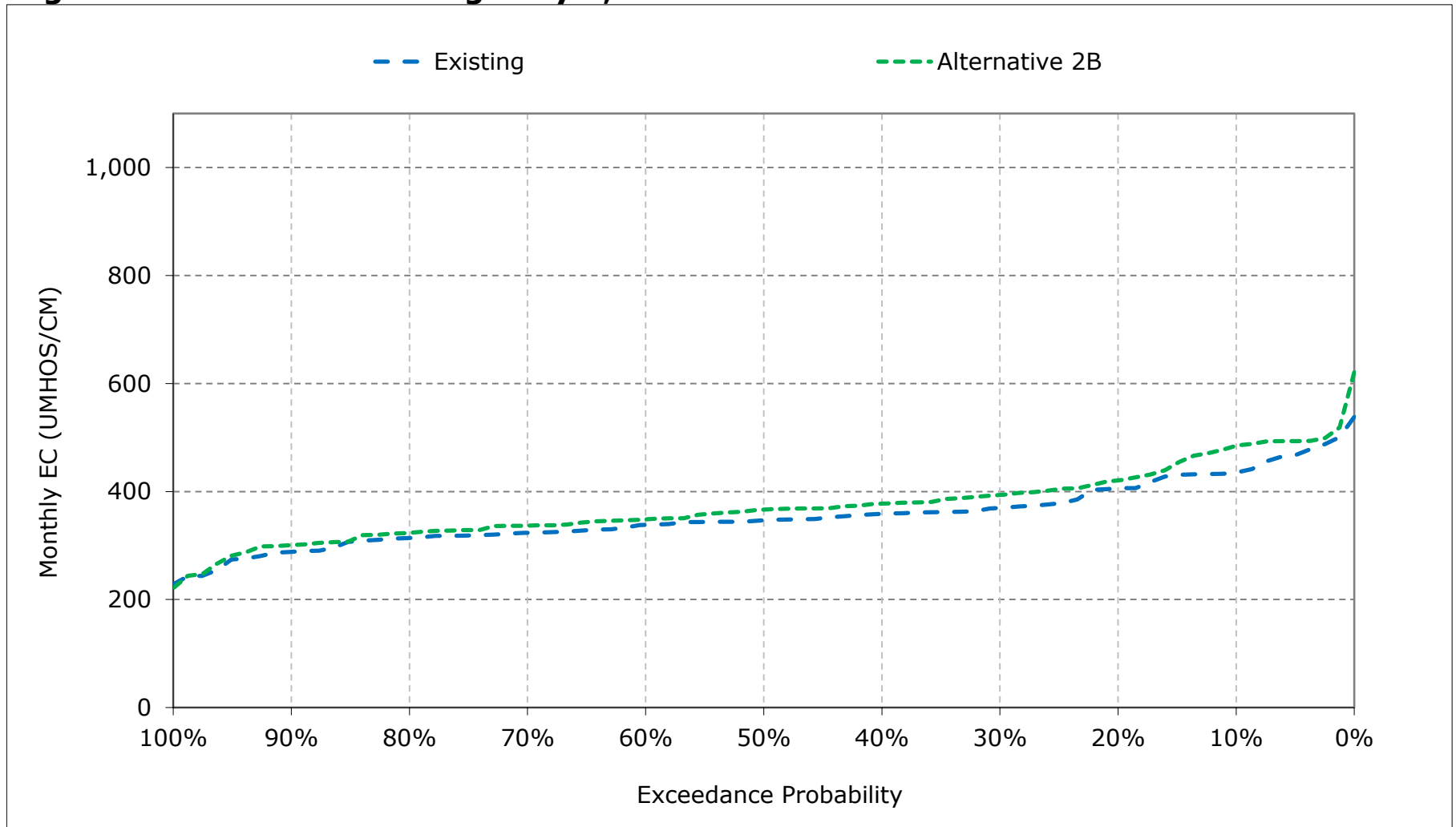
**Figure 18-7. Old River at Highway 4, January EC**



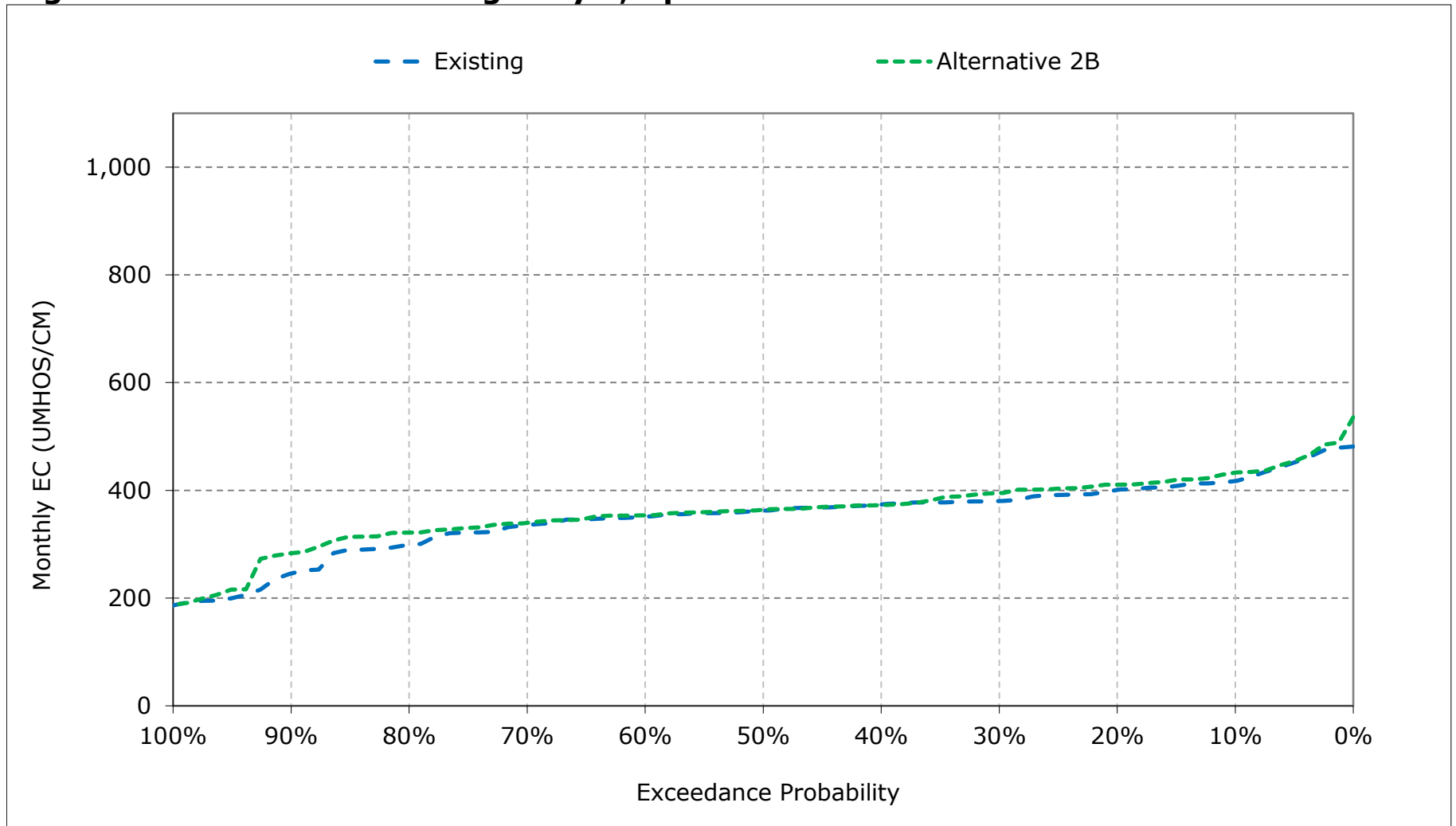
**Figure 18-8. Old River at Highway 4, February EC**



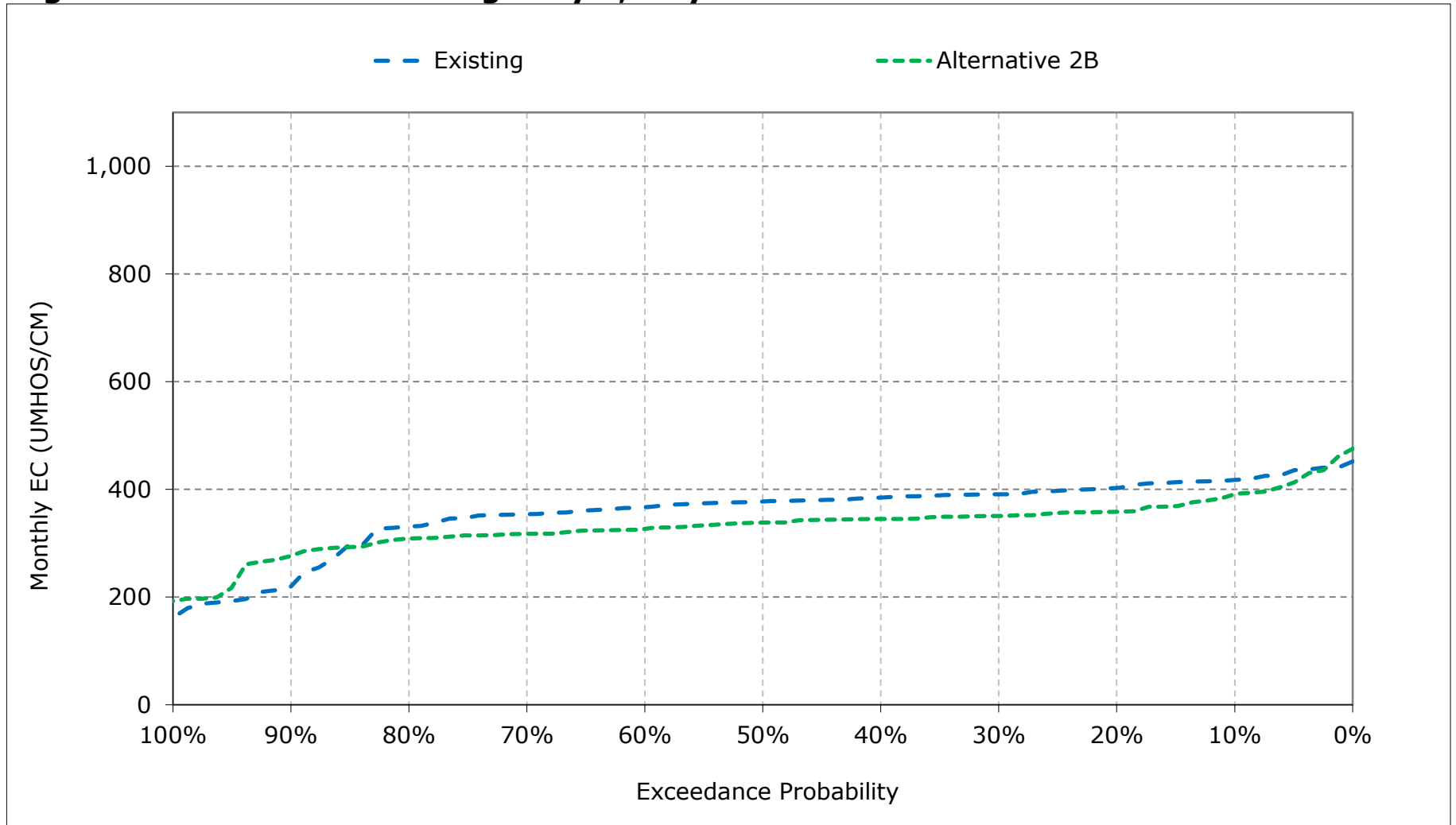
**Figure 18-9. Old River at Highway 4, March EC**



**Figure 18-10. Old River at Highway 4, April EC**

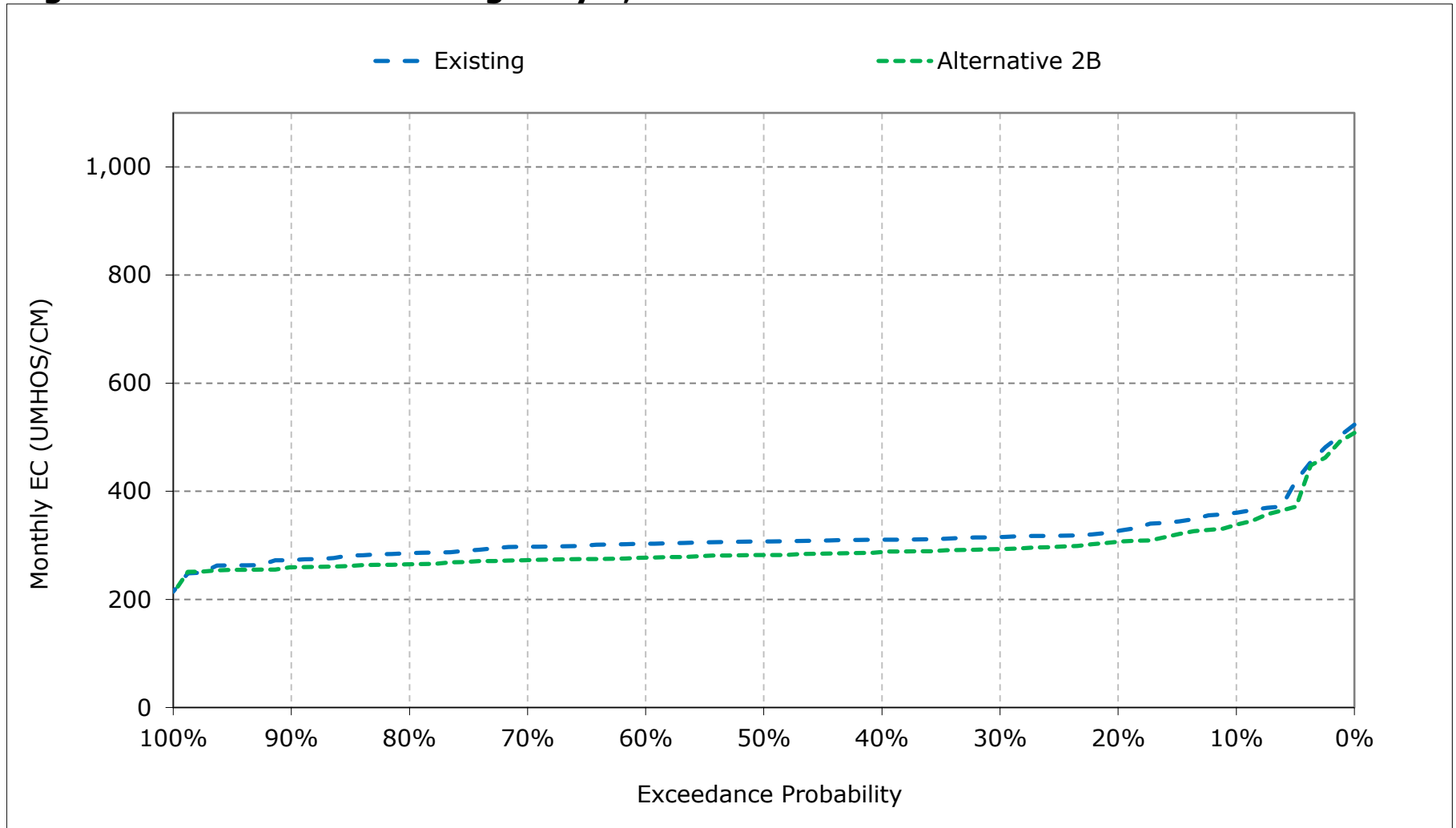


**Figure 18-11. Old River at Highway 4, May EC**

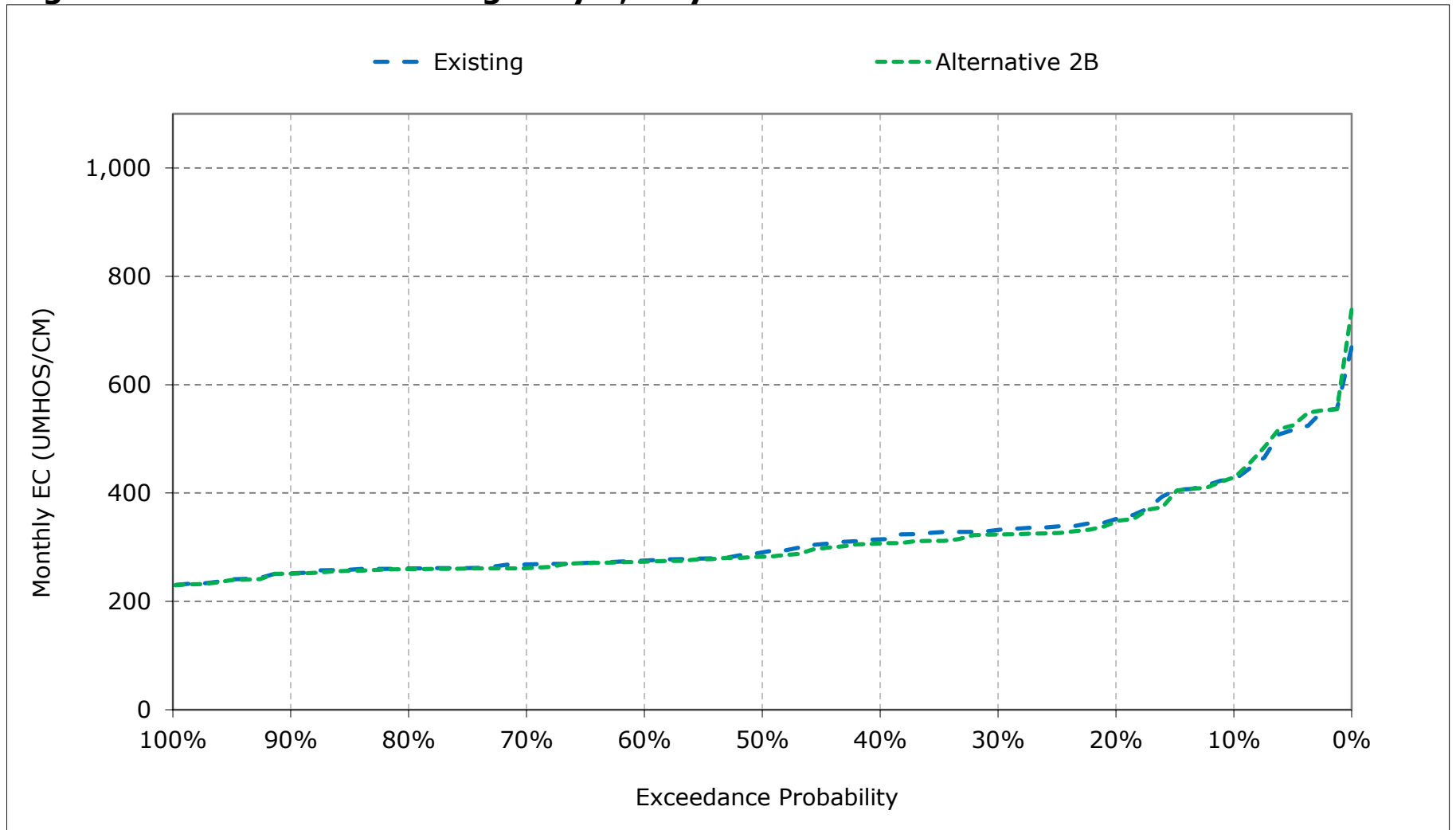




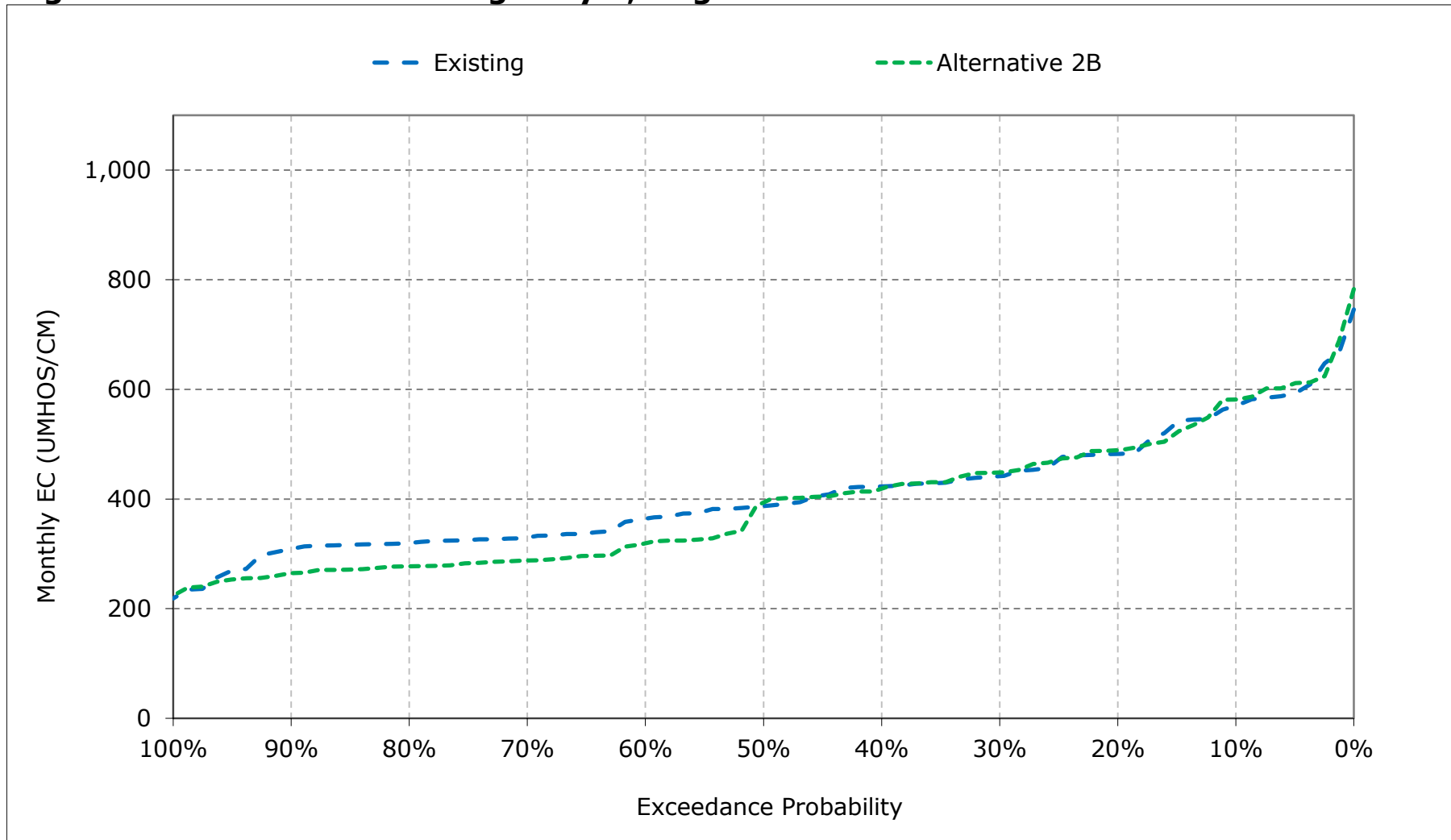
**Figure 18-12. Old River at Highway 4, June EC**



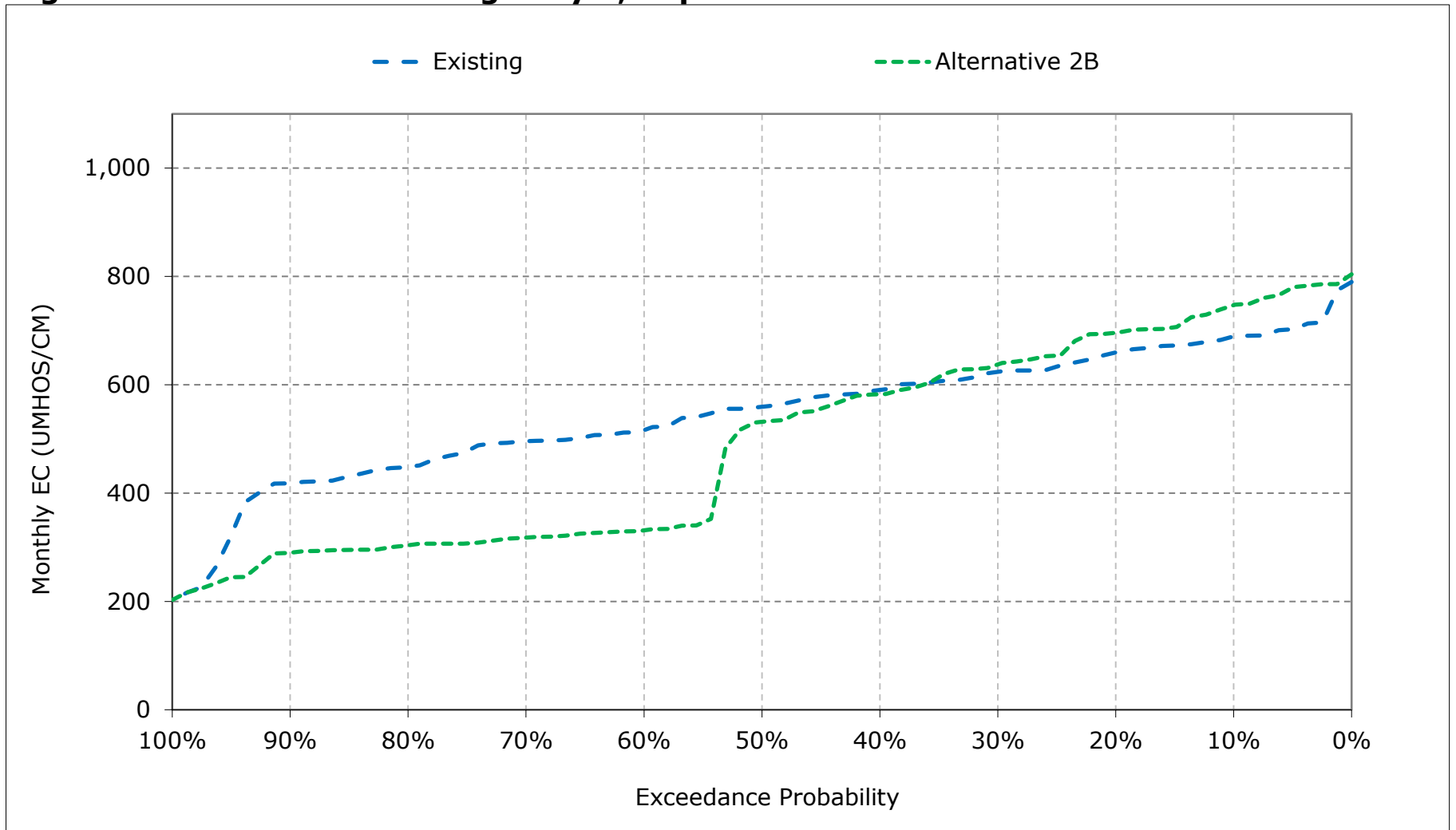
**Figure 18-13. Old River at Highway 4, July EC**



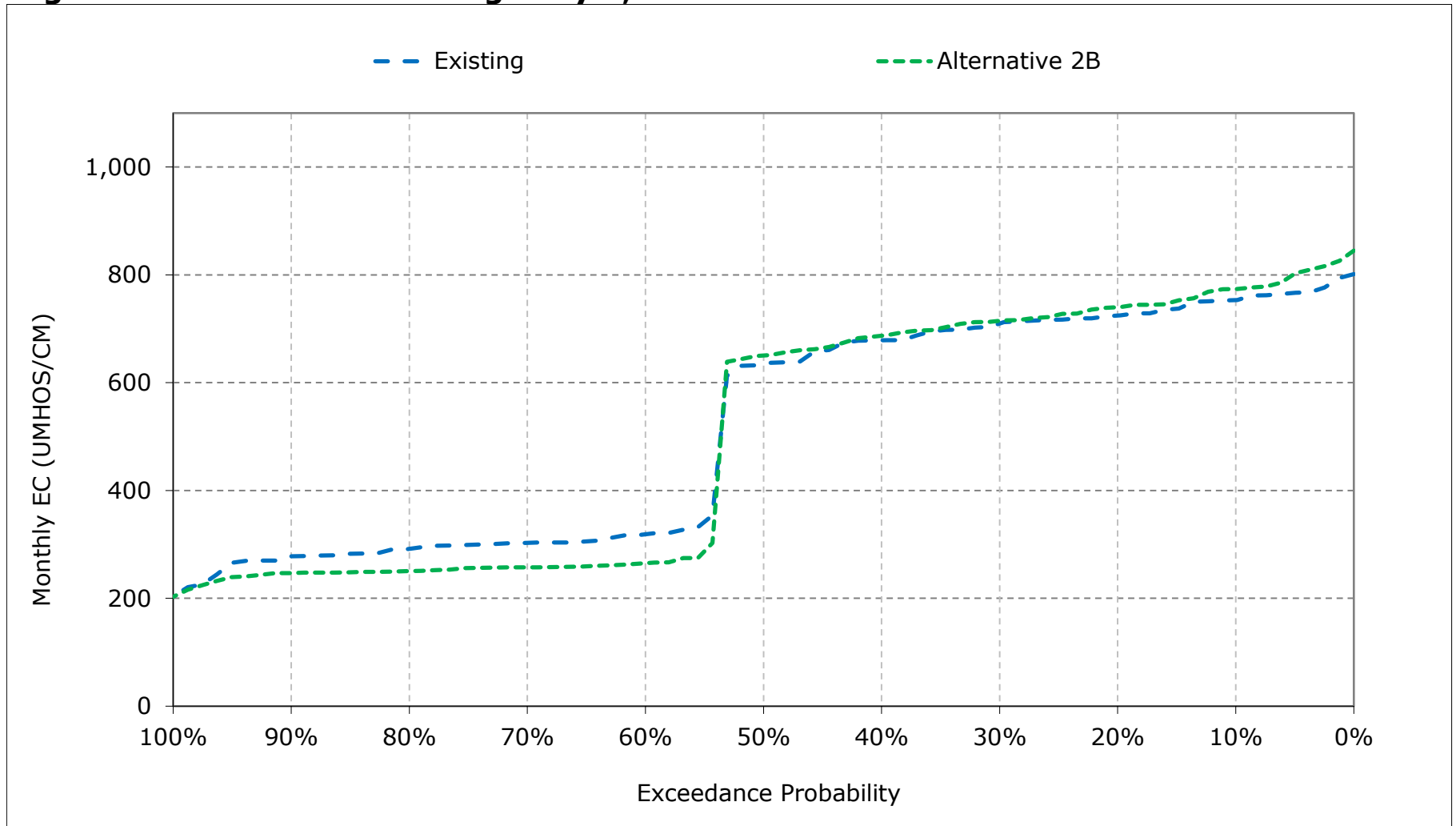
**Figure 18-14. Old River at Highway 4, August EC**



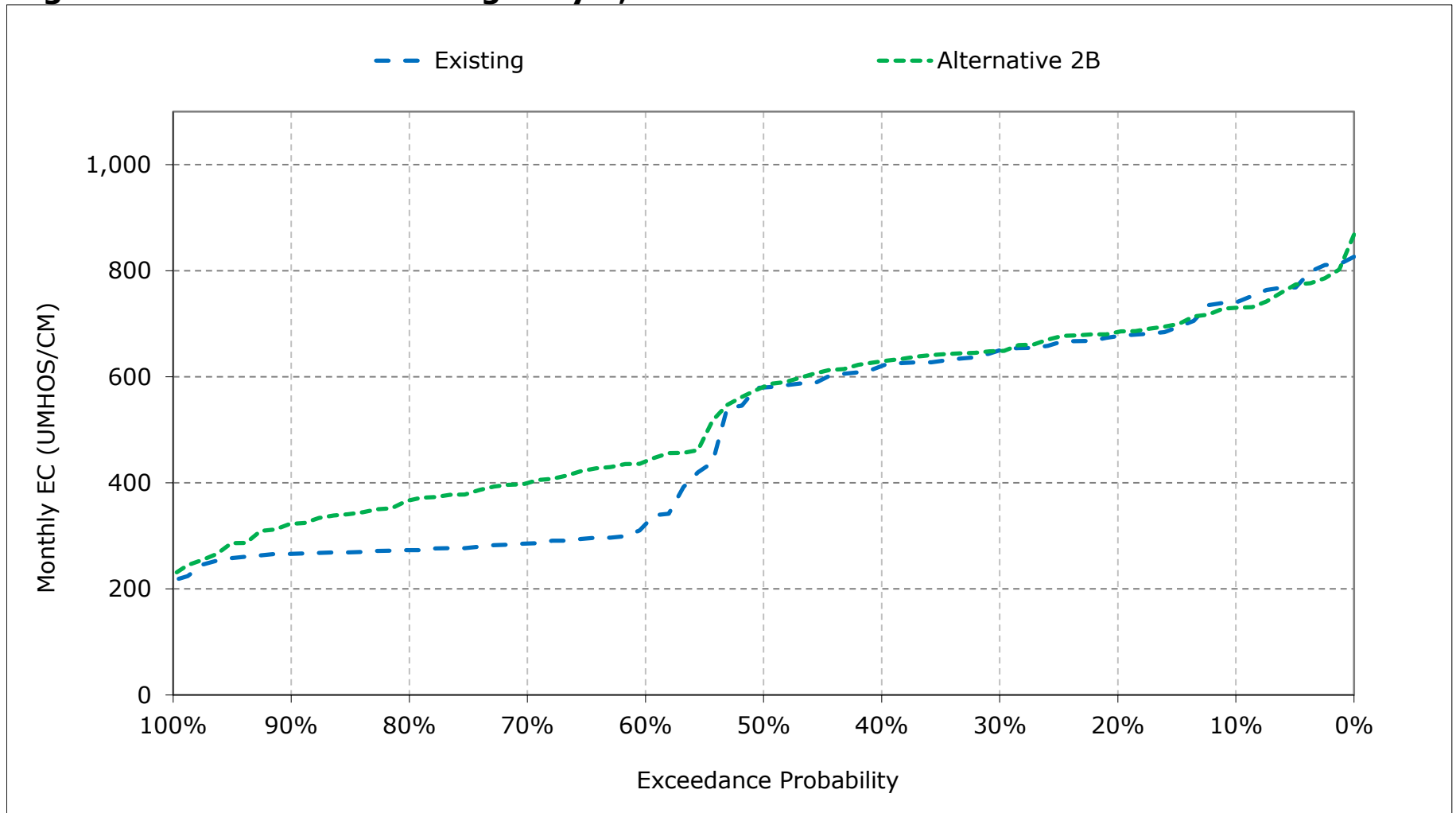
**Figure 18-15. Old River at Highway 4, September EC**



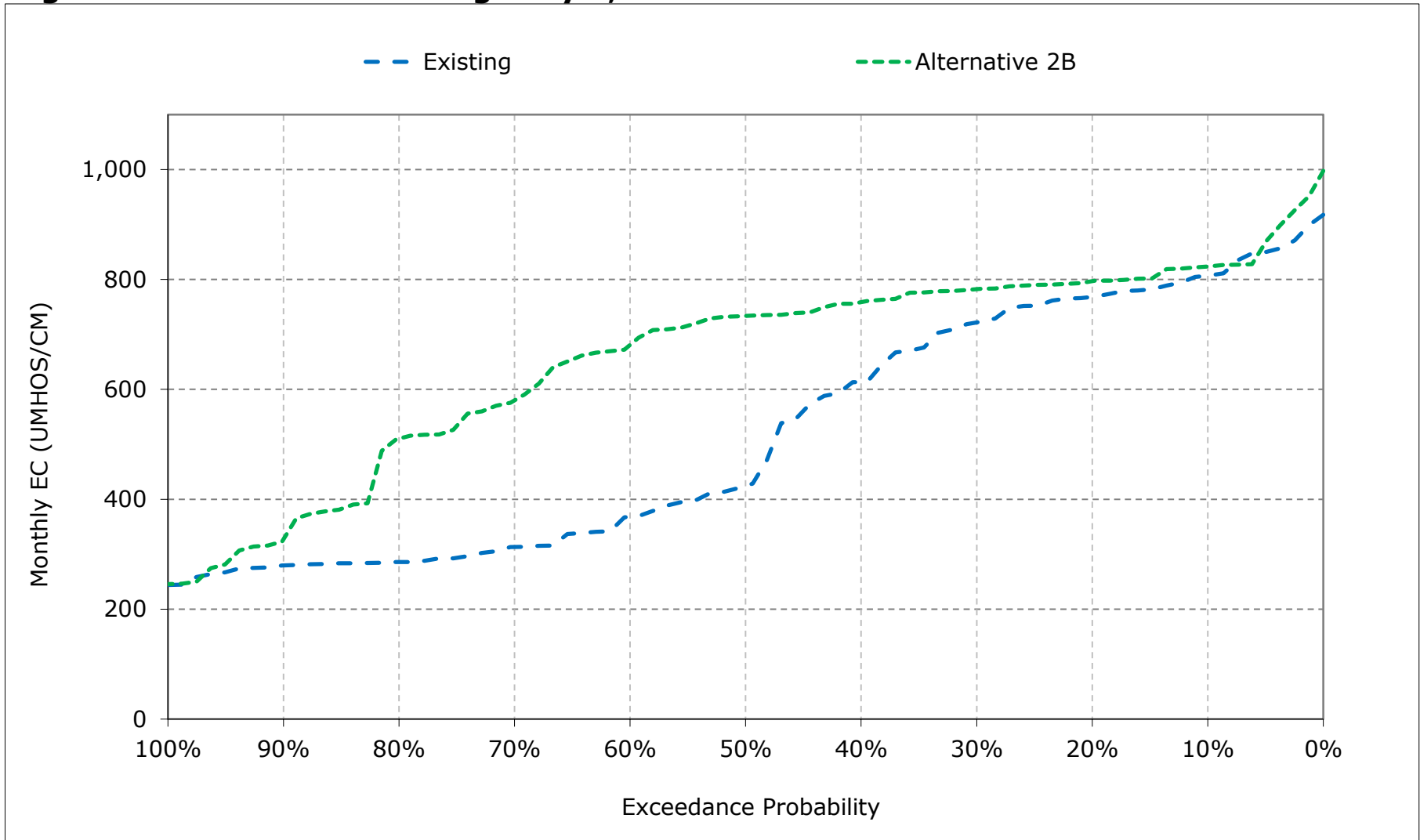
**Figure 18-16. Old River at Highway 4, October EC**



**Figure 18-17. Old River at Highway 4, November EC**



**Figure 18-18. Old River at Highway 4, December EC**



**Table 19-1. Victoria Canal Salinity, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	512	528	585	672	620	535	496	471	426	368	427	458
20%	490	483	556	646	576	497	470	453	386	356	378	446
30%	477	467	538	583	550	481	450	438	375	327	350	439
40%	467	453	514	553	537	464	430	420	369	310	330	427
50%	446	431	436	526	503	440	410	389	363	298	308	412
60%	368	359	377	502	482	419	369	374	358	289	301	394
70%	354	348	337	481	469	395	333	359	348	280	293	386
80%	333	341	318	448	432	347	302	327	336	271	284	355
90%	320	330	295	427	368	323	246	215	322	258	270	338
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	418	414	443	541	501	433	387	379	365	311	330	401
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	388	377	400	477	428	362	292	293	330	303	285	374
Above Normal (15%)	440	433	440	544	528	427	375	370	360	295	281	344
Below Normal (17%)	421	414	455	572	513	447	402	398	360	282	321	425
Dry (22%)	420	424	463	549	535	488	462	438	376	301	380	418
Critical (15%)	451	463	498	628	568	492	471	466	432	391	416	465

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	527	523	603	754	650	555	502	436	374	368	432	468
20%	497	501	565	724	604	509	470	408	354	355	367	450
30%	487	467	553	672	576	490	451	396	341	322	348	440
40%	475	449	532	646	534	470	437	378	335	305	331	422
50%	462	437	516	569	512	446	418	367	331	295	306	398
60%	302	335	498	552	486	424	384	356	327	283	298	301
70%	295	324	470	516	465	384	352	346	321	273	291	295
80%	287	313	432	477	432	359	320	327	312	262	277	288
90%	282	303	356	435	366	328	280	257	299	256	265	282
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	400	404	500	593	510	439	397	360	334	307	328	371
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	364	367	450	501	428	366	312	295	318	302	281	283
Above Normal (15%)	423	426	512	616	543	434	383	350	332	289	276	292
Below Normal (17%)	399	403	504	628	514	453	422	373	327	275	322	452
Dry (22%)	403	413	529	632	554	503	475	408	332	297	377	422
Critical (15%)	454	451	548	673	584	490	447	426	385	388	417	468

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	16	-5	18	82	30	20	6	-36	-51	0	5	11
20%	7	18	9	78	29	12	1	-45	-33	-1	-11	4
30%	9	-1	14	89	26	9	2	-42	-34	-5	-3	1
40%	8	-4	18	93	-3	6	7	-42	-34	-5	1	-5
50%	16	6	80	43	9	5	8	-22	-32	-2	-2	-14
60%	-67	-24	121	50	4	4	15	-18	-31	-5	-2	-93
70%	-59	-25	133	35	-3	-11	19	-13	-27	-7	-2	-92
80%	-46	-28	114	28	1	12	18	0	-24	-9	-7	-67
90%	-38	-27	62	8	-3	6	34	42	-22	-3	-5	-56
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	-17	-10	57	52	9	6	10	-19	-30	-4	-2	-31
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	-24	-10	51	23	0	4	20	2	-12	-1	-4	-90
Above Normal (15%)	-18	-6	72	72	14	8	8	-20	-28	-6	-5	-53
Below Normal (17%)	-22	-10	49	56	1	6	20	-25	-33	-7	1	26
Dry (22%)	-17	-11	66	83	19	15	13	-30	-44	-3	-3	4
Critical (15%)	3	-12	50	46	16	-1	-23	-40	-47	-3	1	3

a Based on the 82-year simulation period.

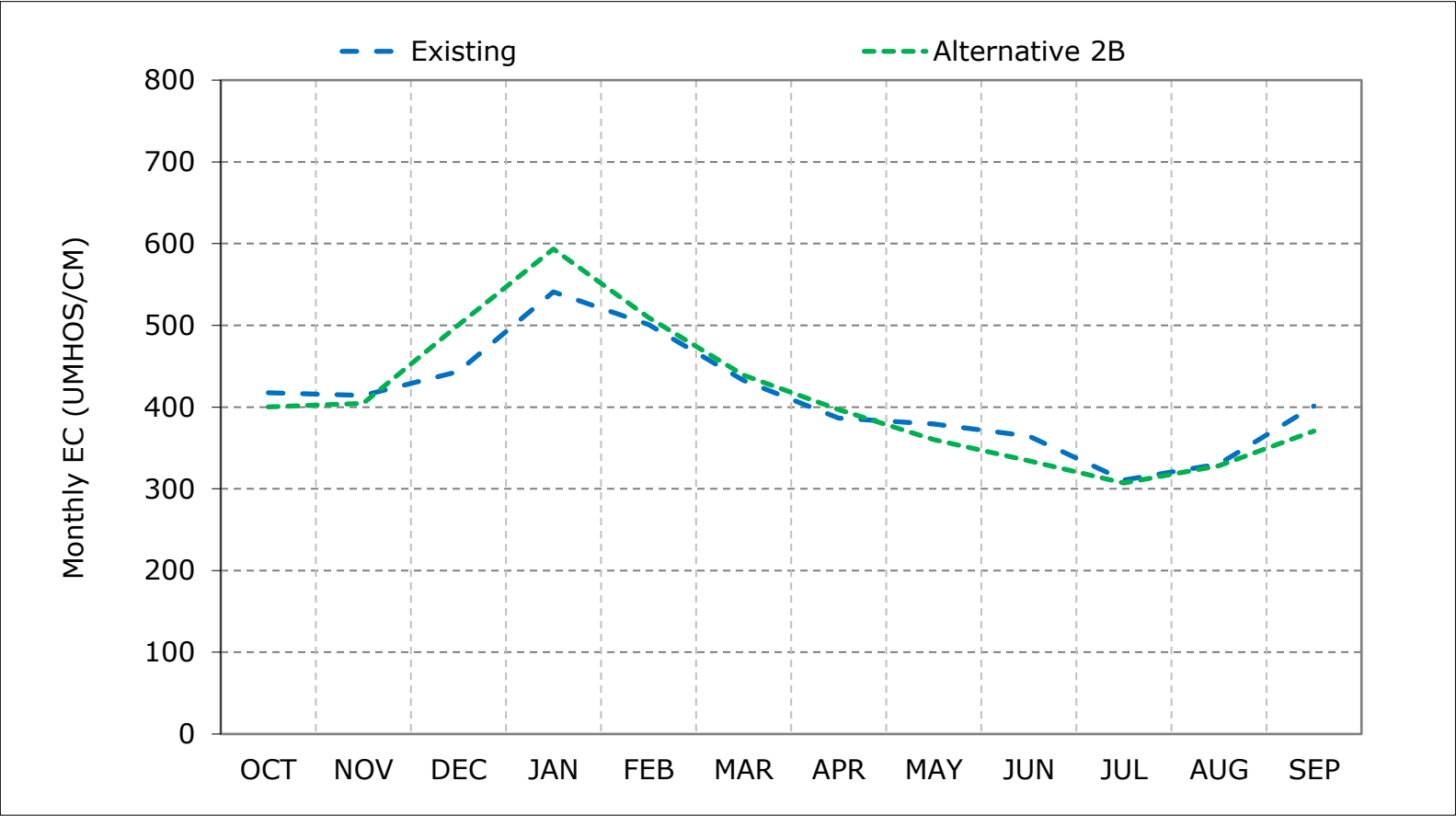
b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

d Positive differences are highted in red color which indicate increase in Salinity (EC).

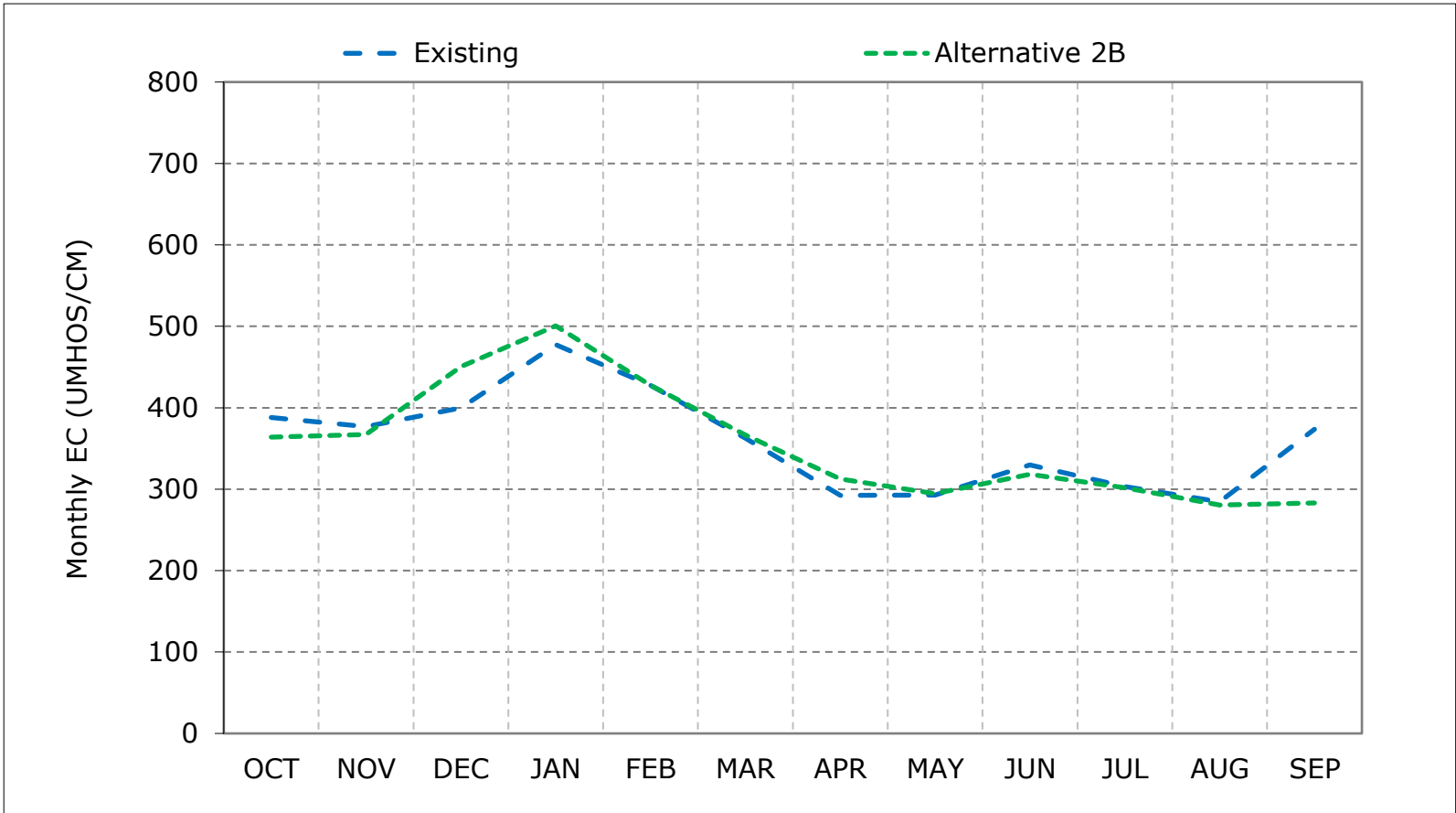


**Figure 19-1. Victoria Canal Salinity, Long-Term Average EC**



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

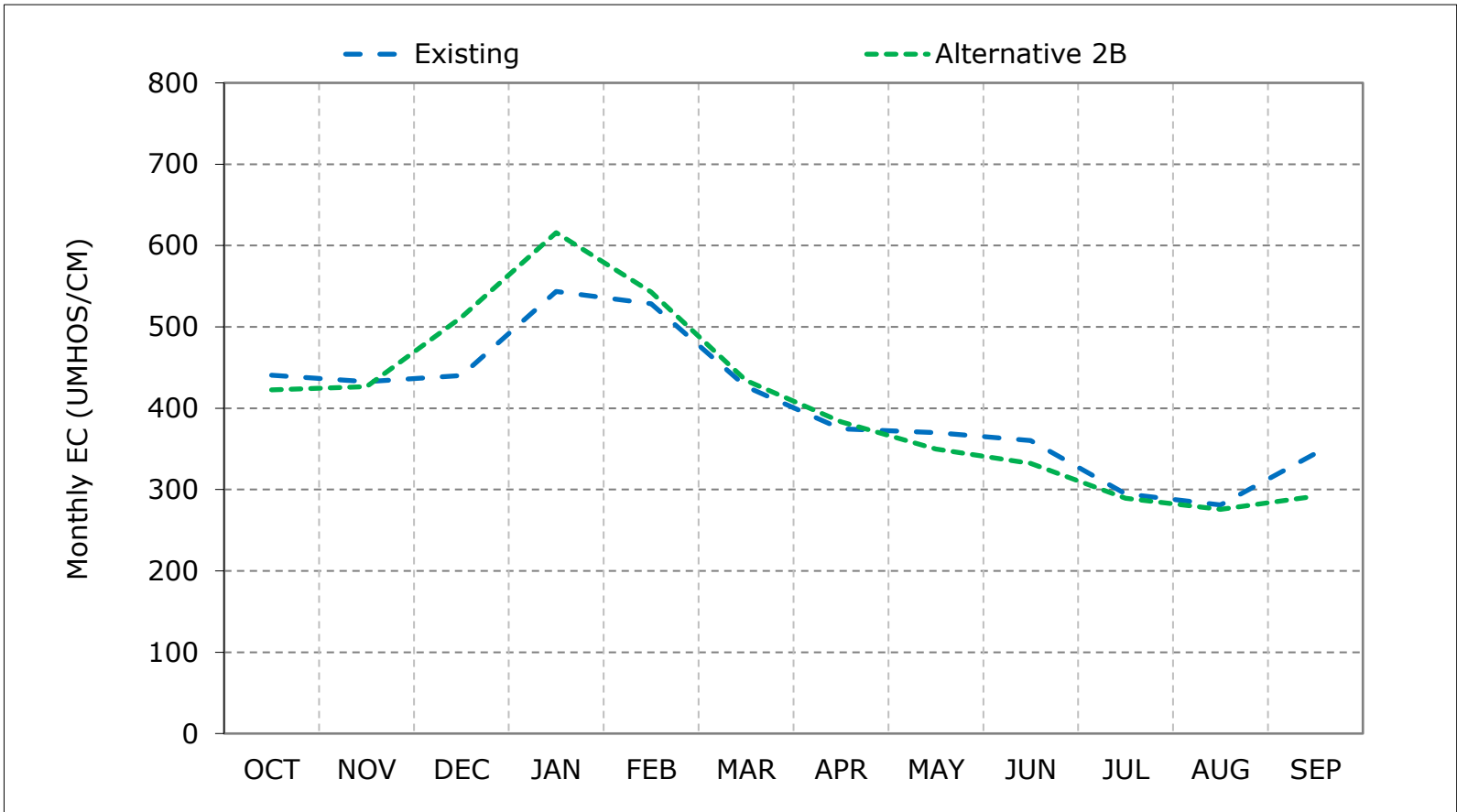
**Figure 19-2. Victoria Canal Salinity, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

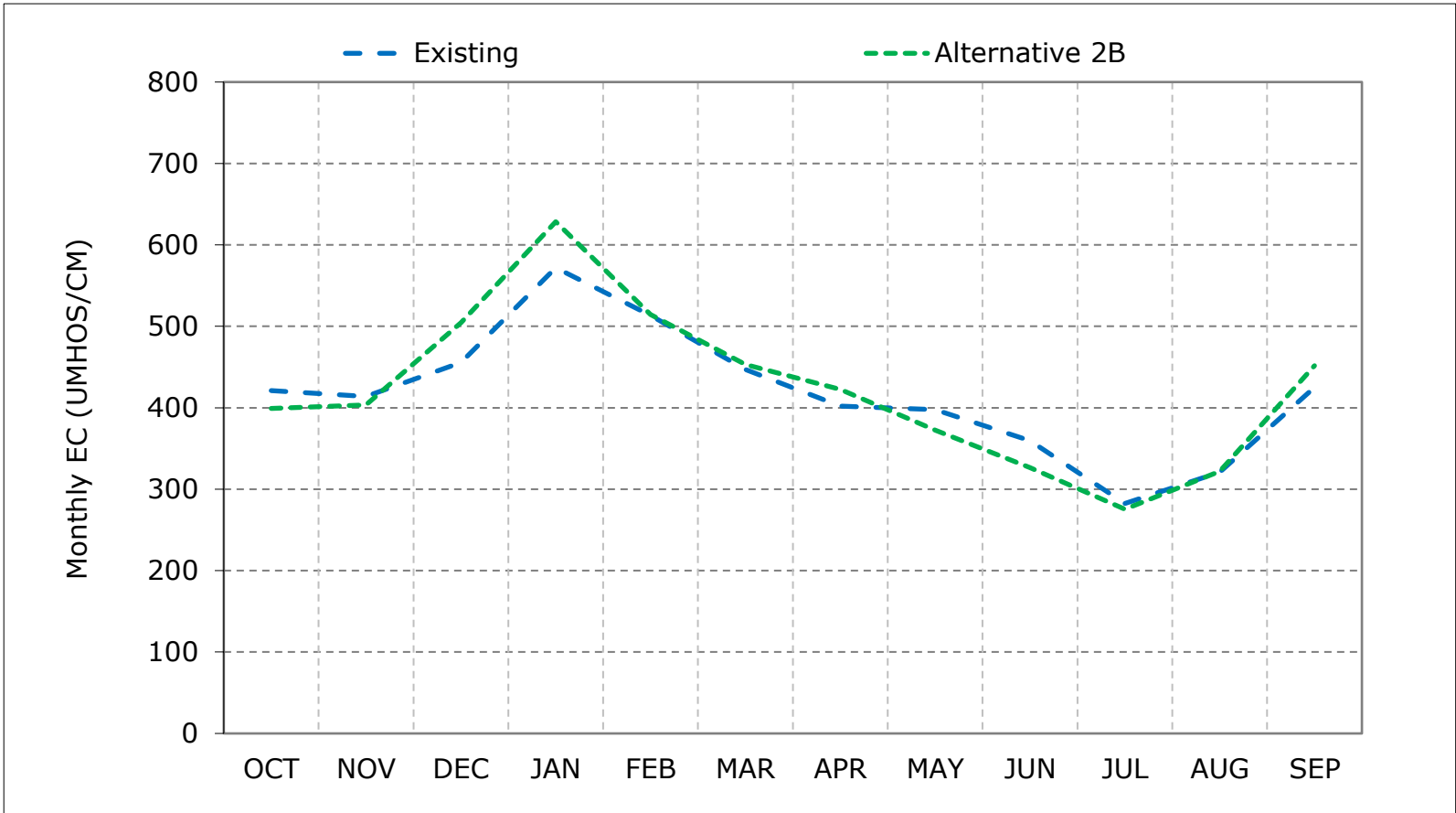
**Figure 19-3. Victoria Canal Salinity, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

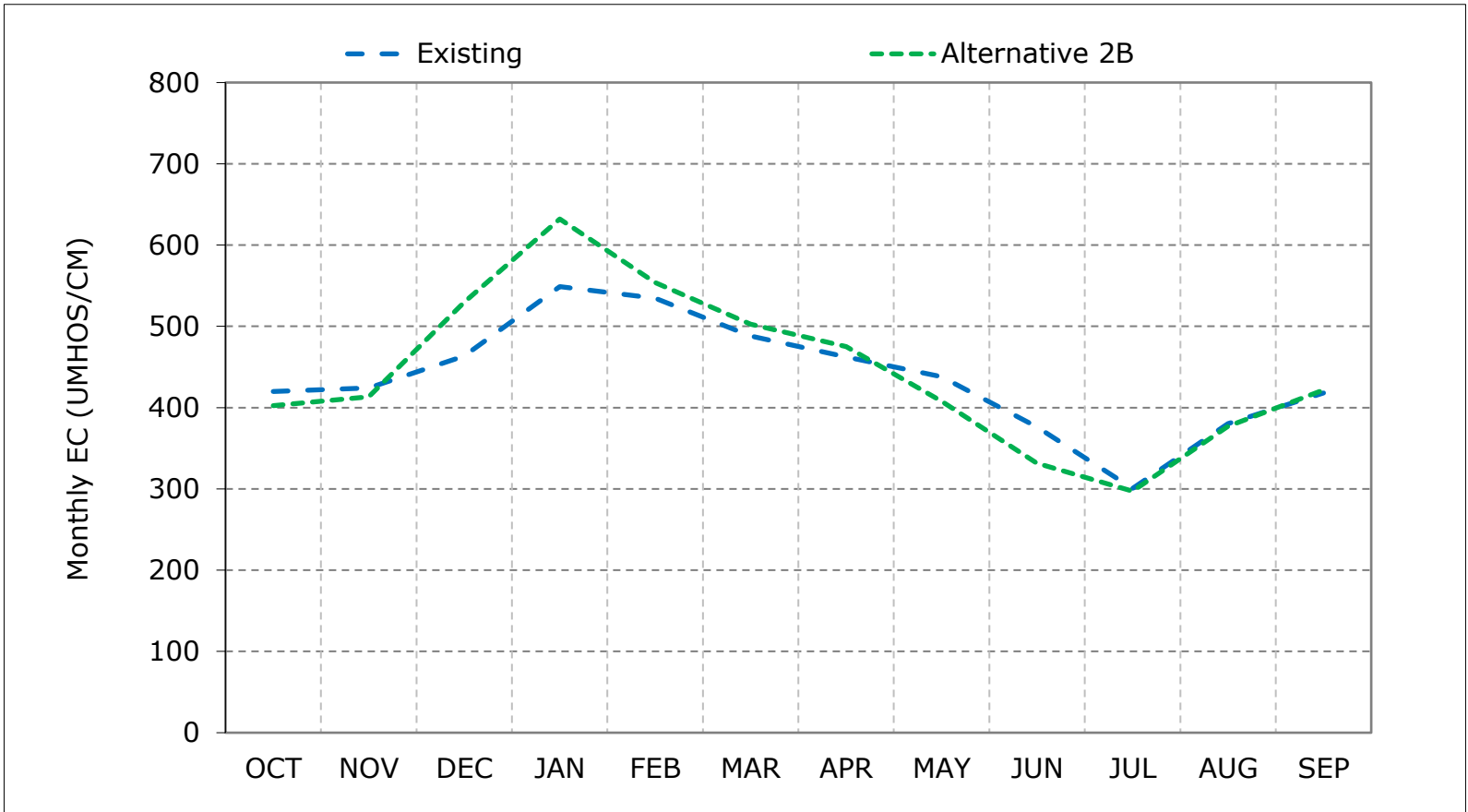
**Figure 19-4. Victoria Canal Salinity, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

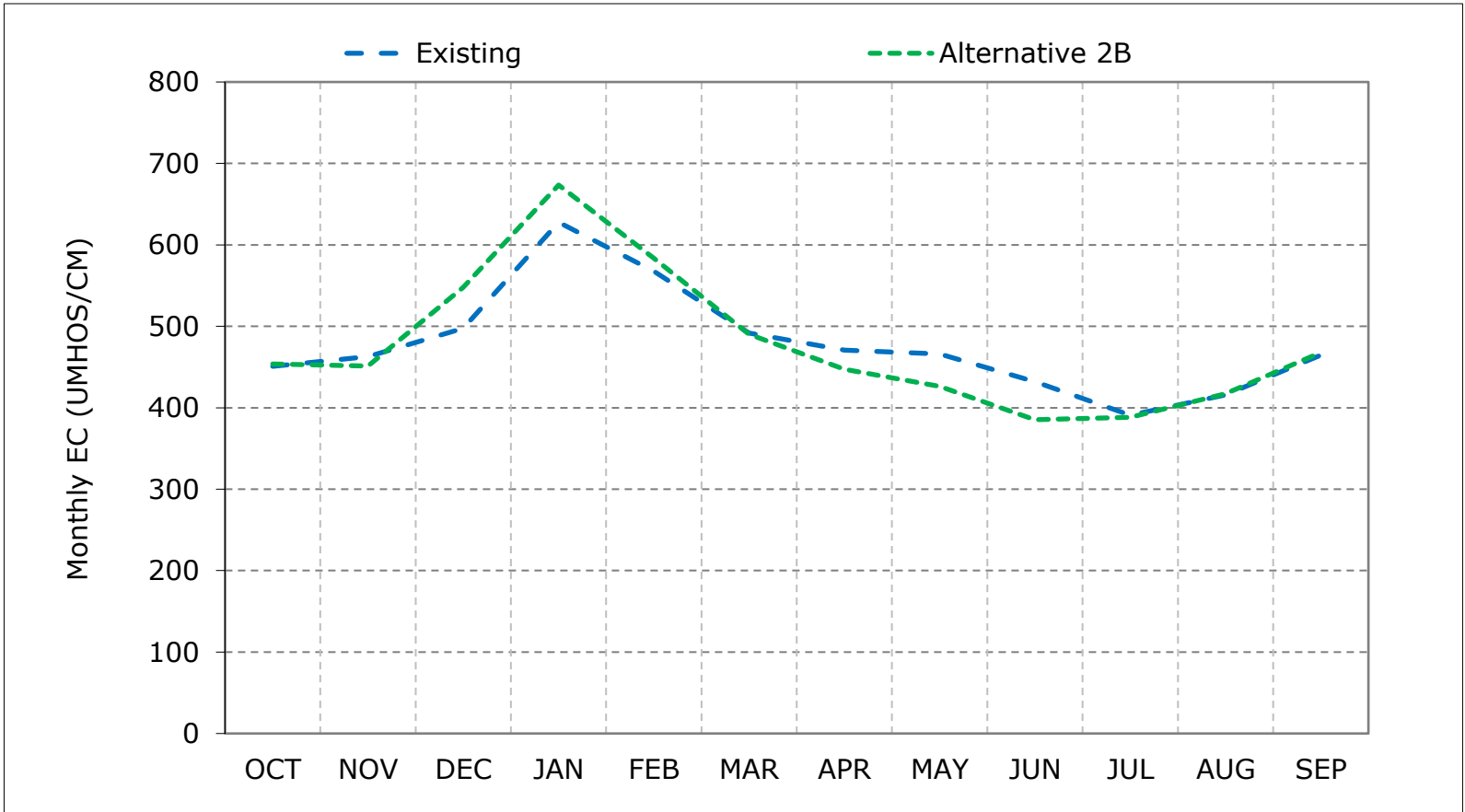
**Figure 19-5. Victoria Canal Salinity, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

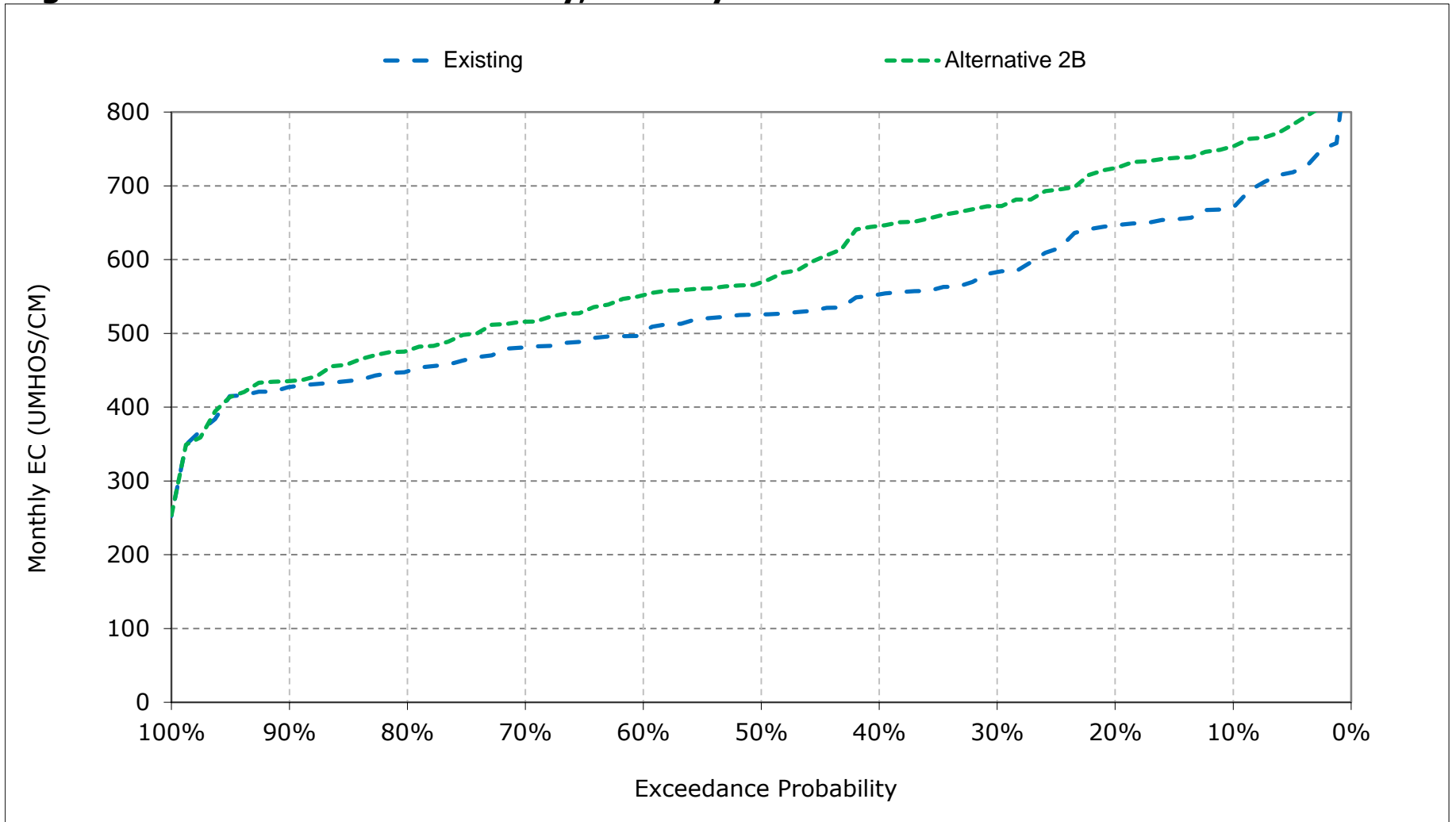
**Figure 19-6. Victoria Canal Salinity, Critical Year Average EC**



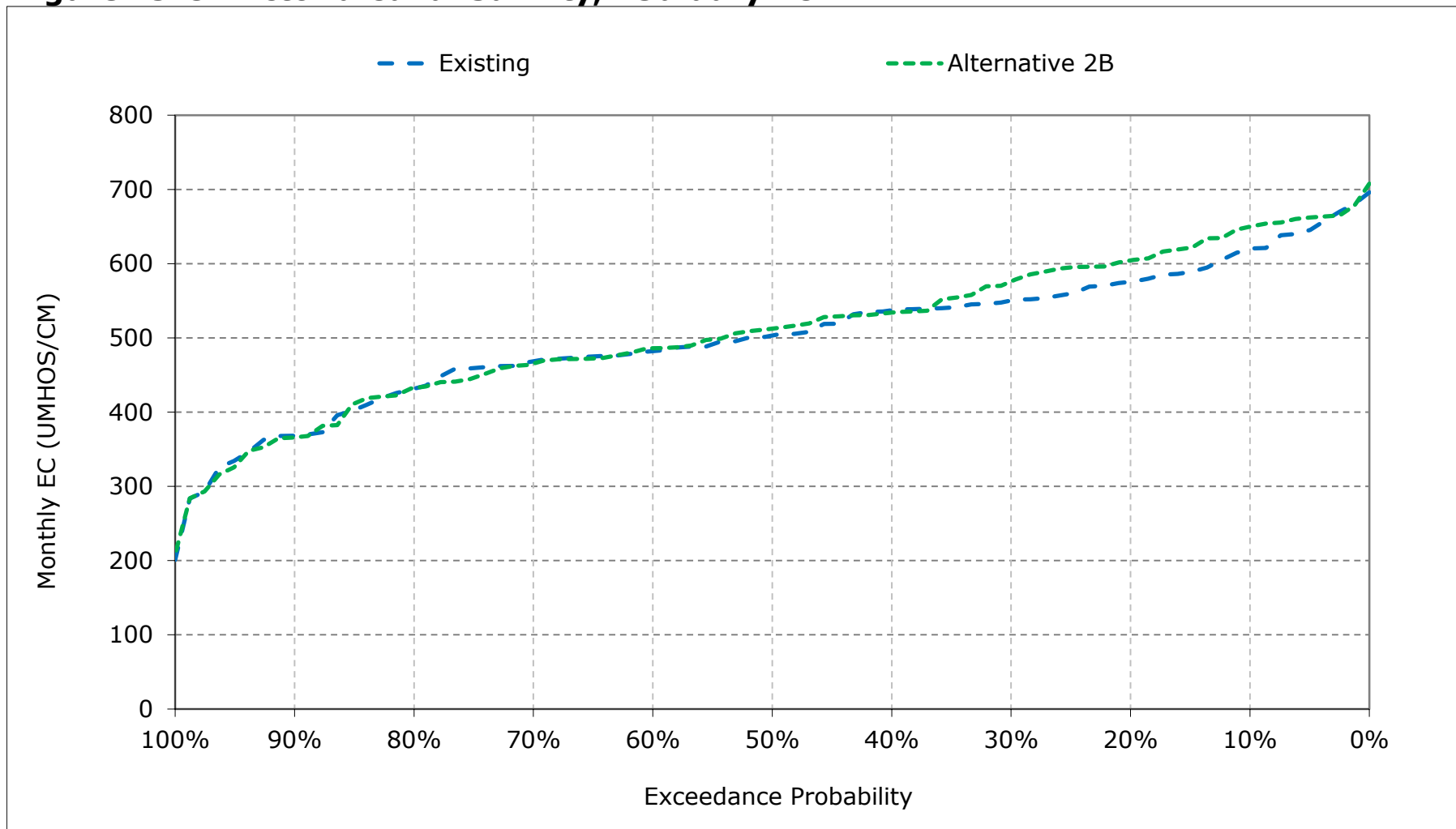
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

**Figure 19-7. Victoria Canal Salinity, January EC**

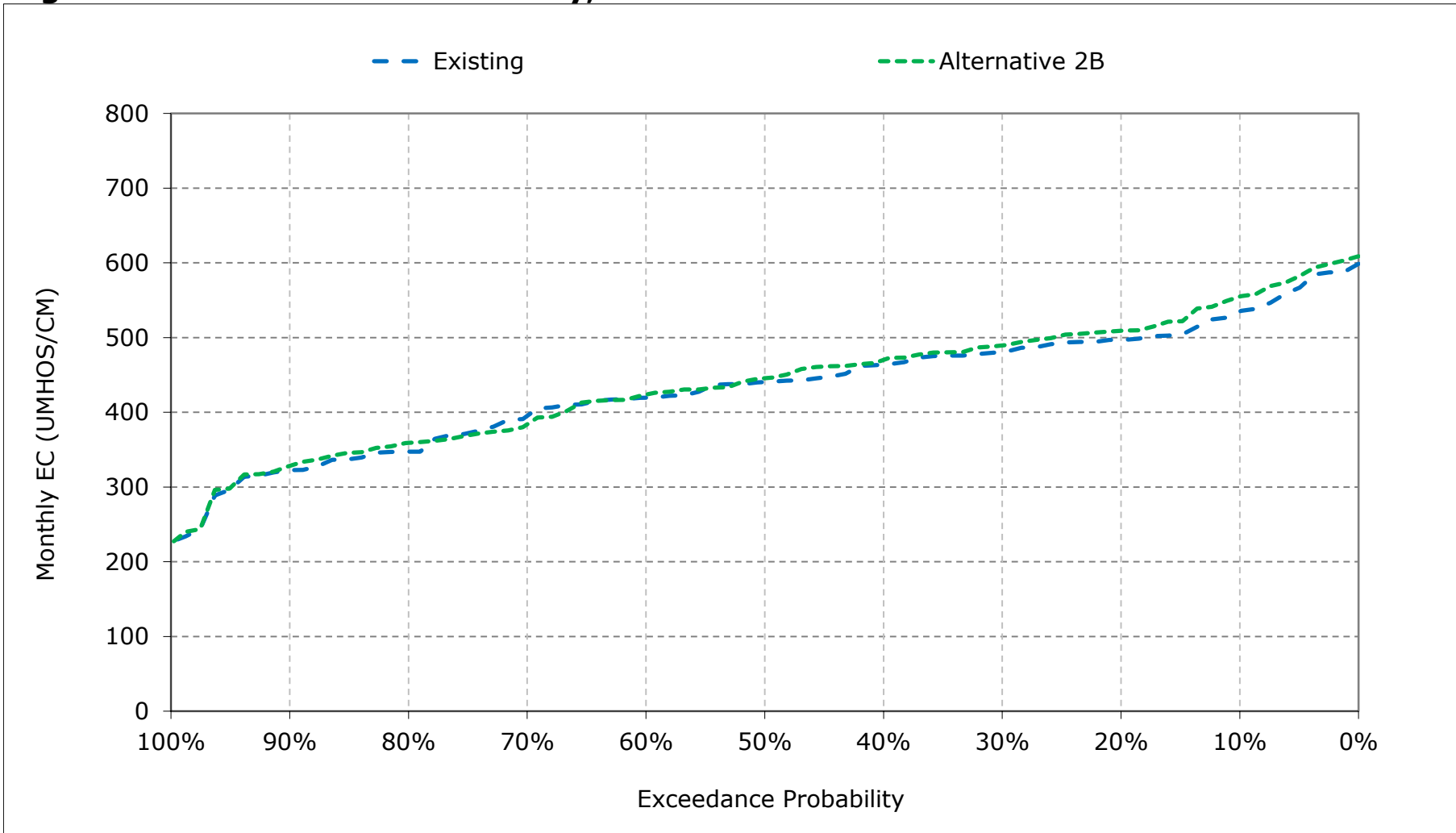


**Figure 19-8. Victoria Canal Salinity, February EC**

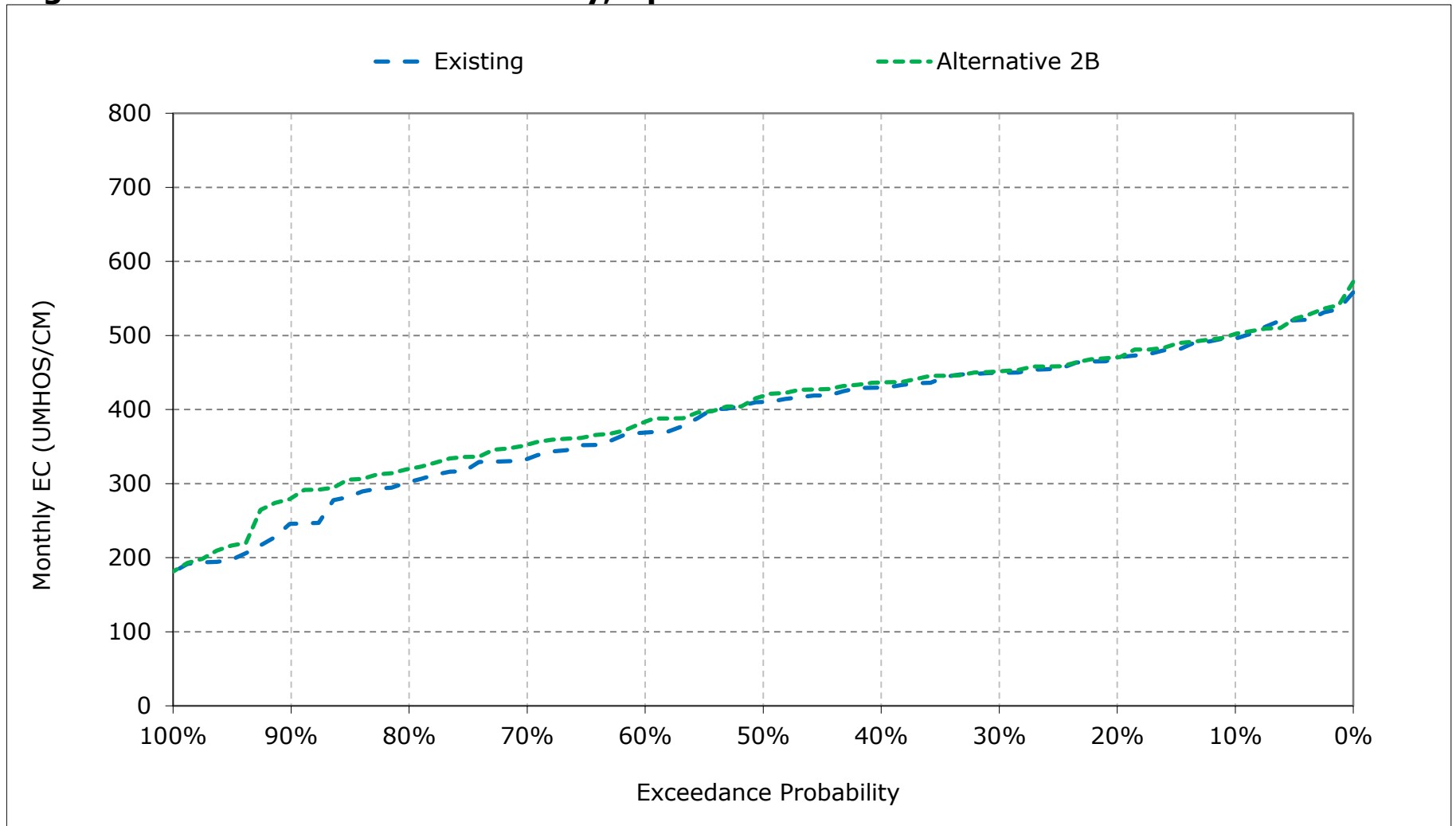




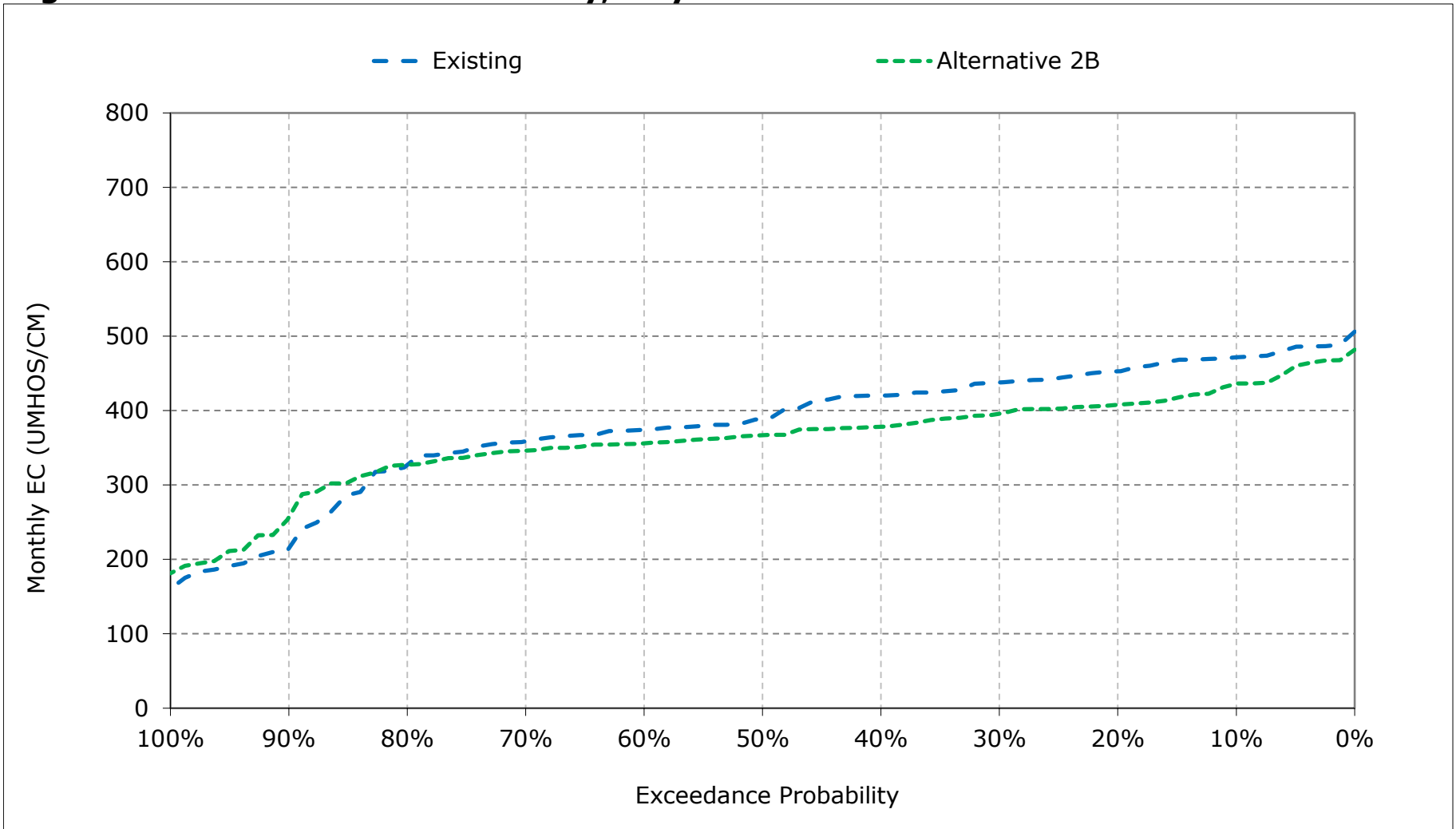
**Figure 19-9. Victoria Canal Salinity, March EC**



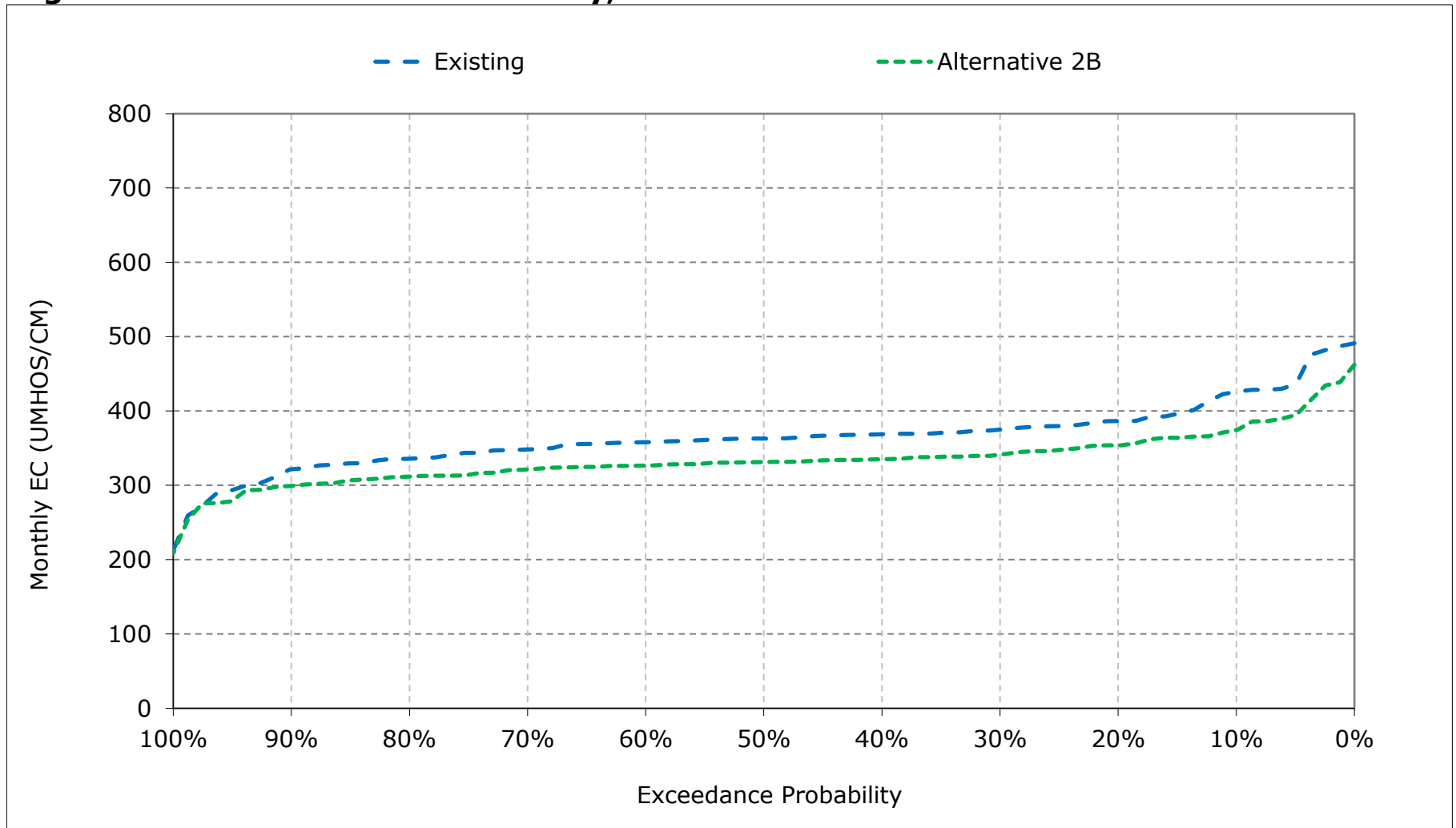
**Figure 19-10. Victoria Canal Salinity, April EC**



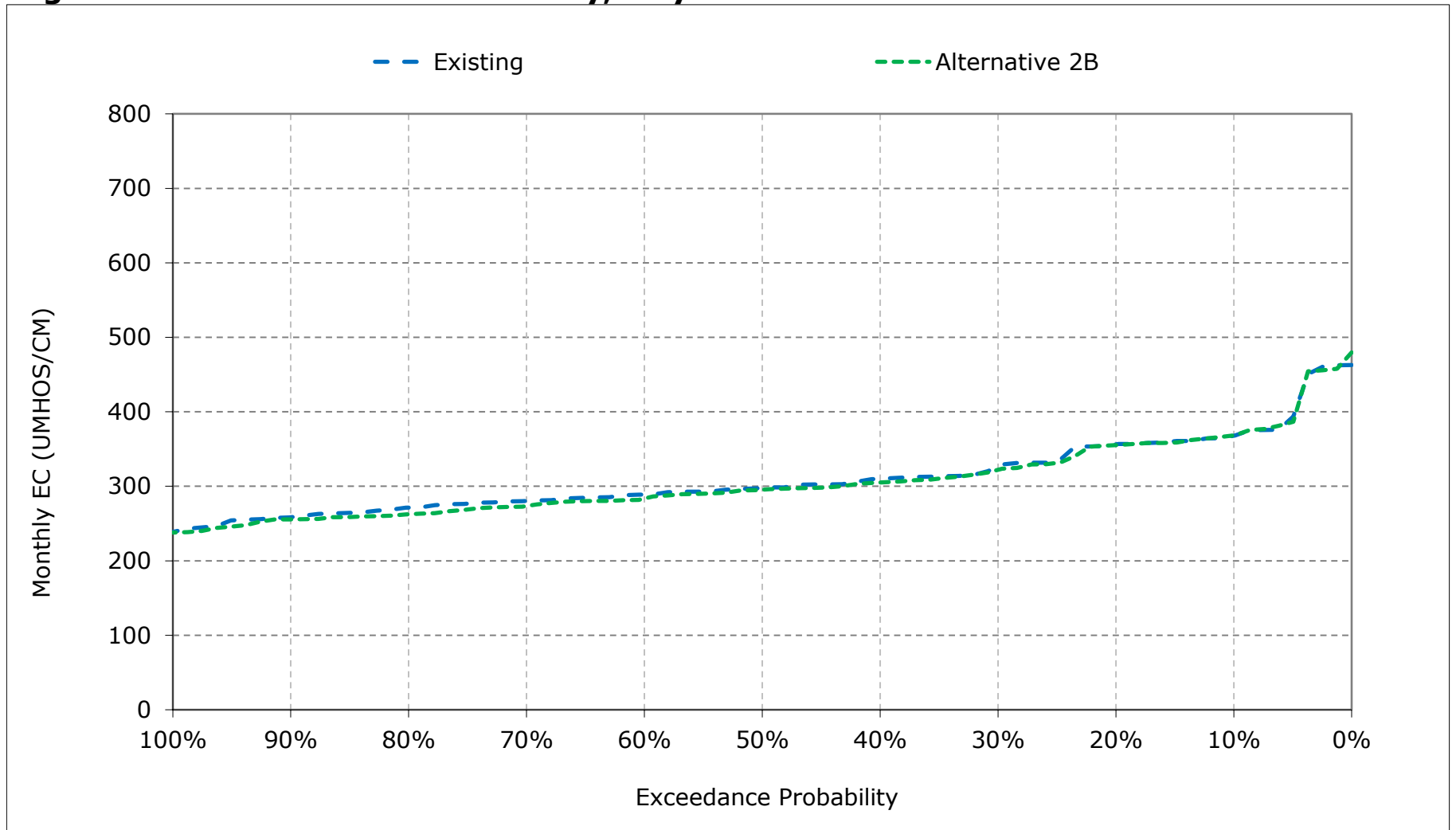
**Figure 19-11. Victoria Canal Salinity, May EC**



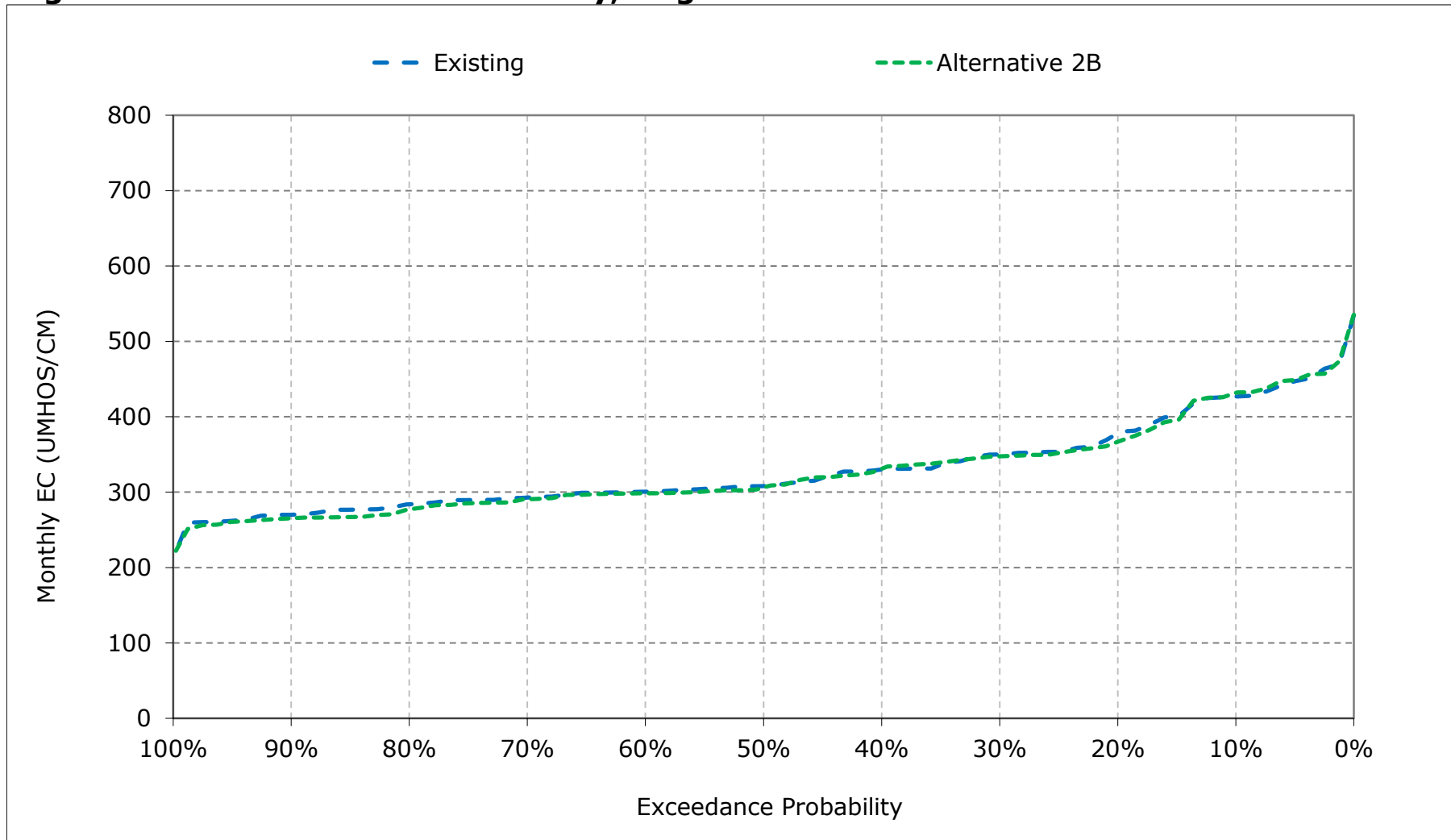
**Figure 19-12. Victoria Canal Salinity, June EC**



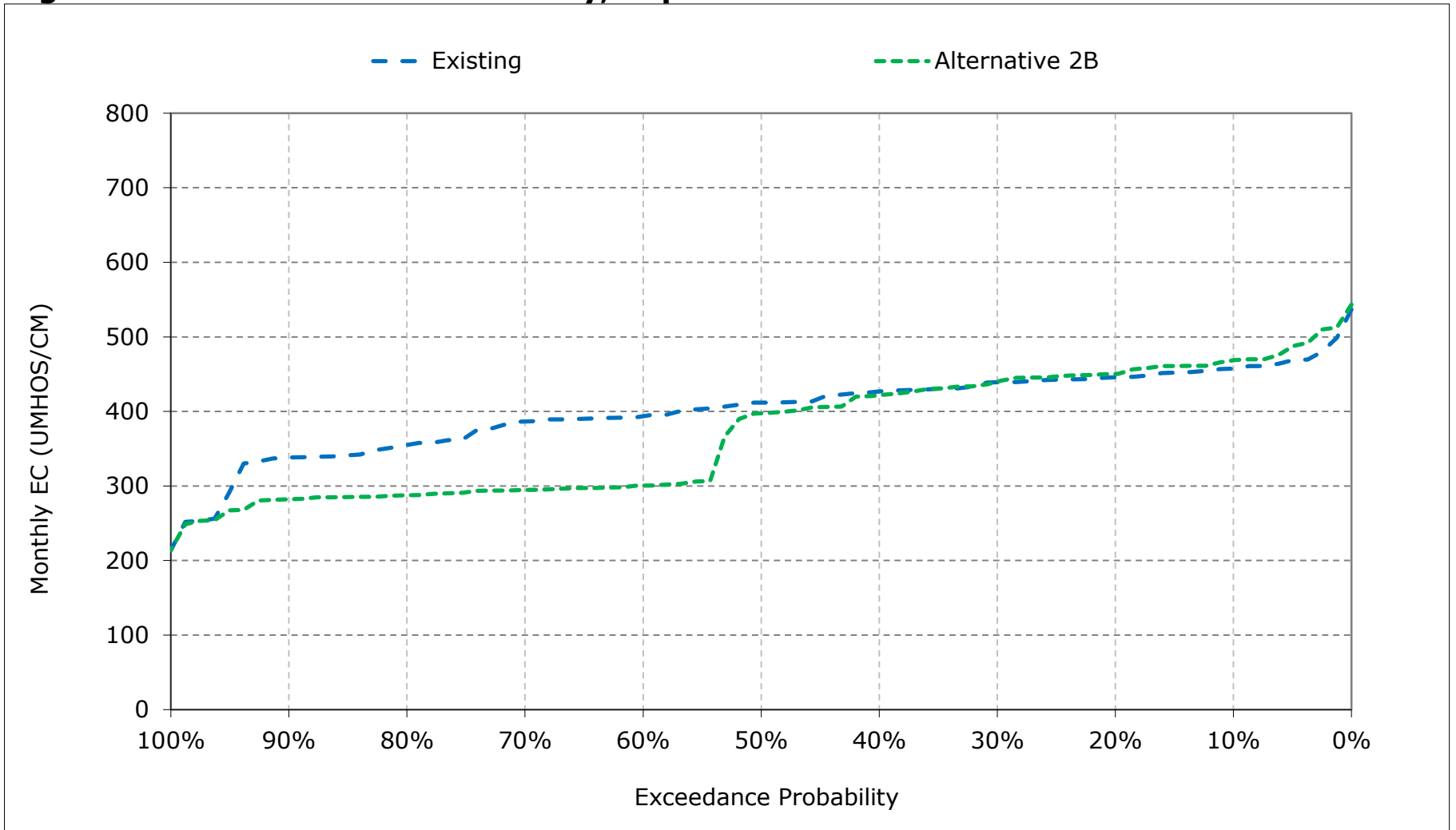
**Figure 19-13. Victoria Canal Salinity, July EC**



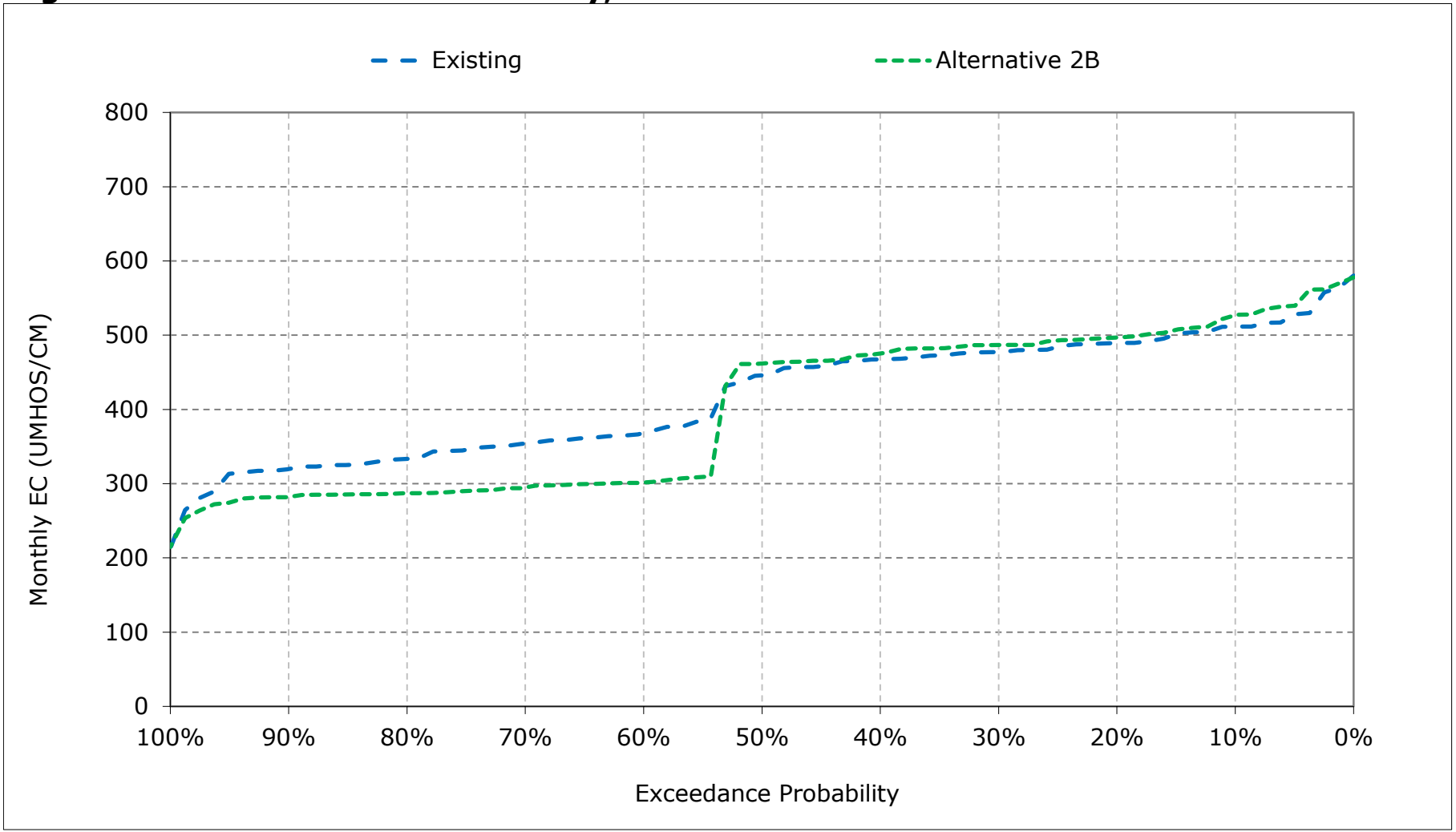
**Figure 19-14. Victoria Canal Salinity, August EC**



**Figure 19-15. Victoria Canal Salinity, September EC**

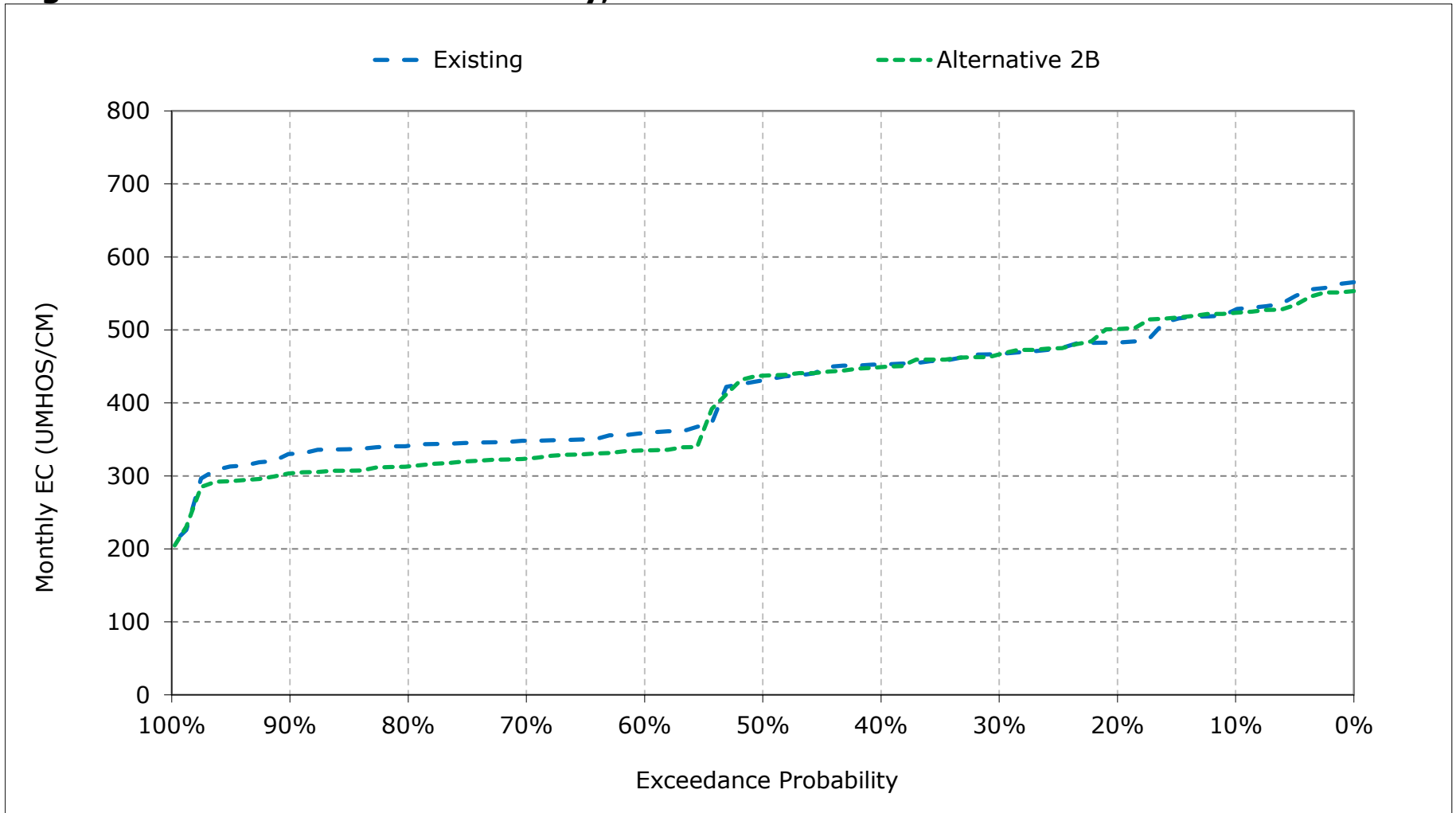


**Figure 19-16. Victoria Canal Salinity, October EC**

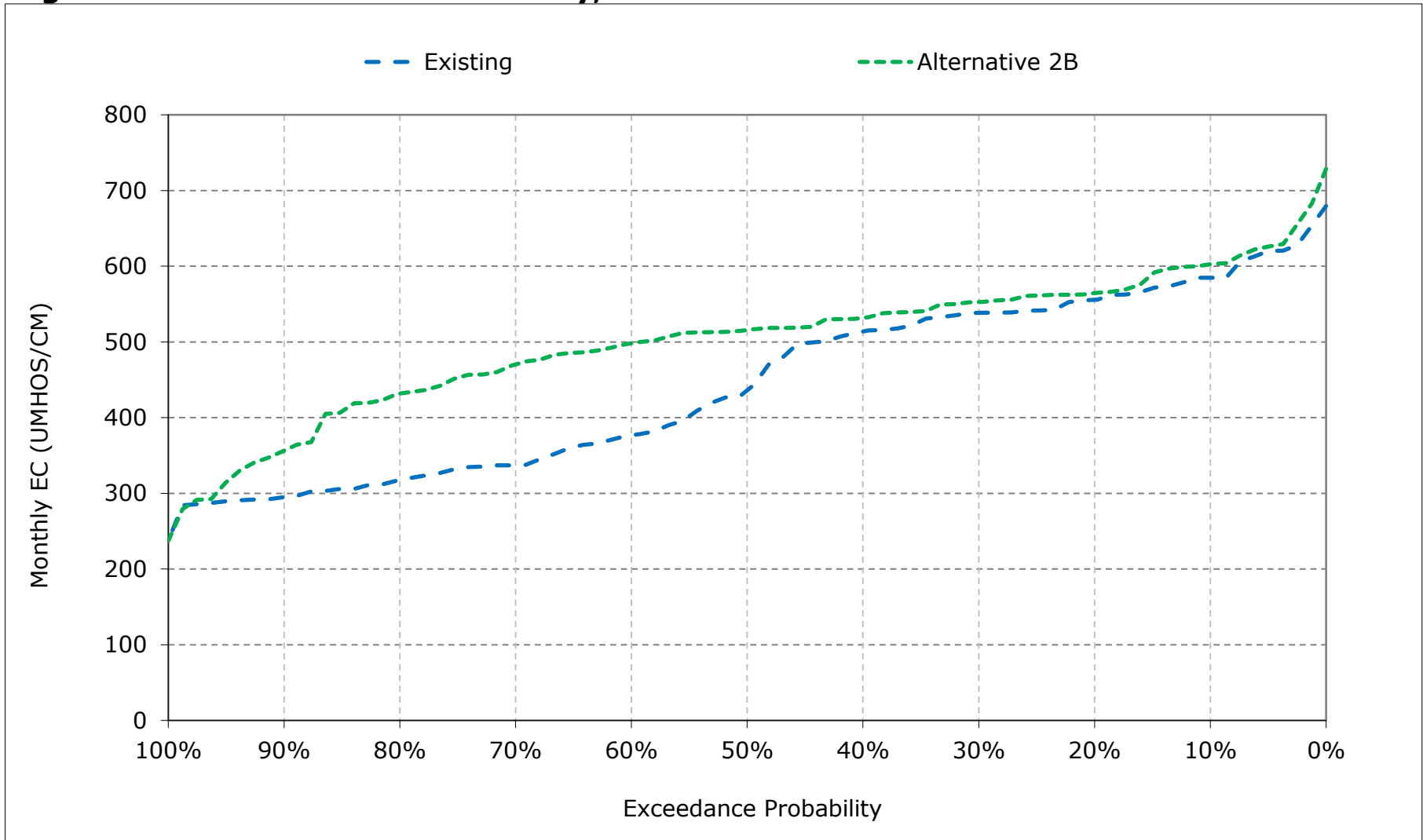




**Figure 19-17. Victoria Canal Salinity, November EC**



**Figure 19-18. Victoria Canal Salinity, December EC**



**Table 20-1. Montezuma Slough at Hunter Cut, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	14,303	13,057	12,428	8,885	5,277	7,041	8,378	9,233	11,109	13,262	15,769	17,520
20%	13,613	12,740	11,353	7,778	3,597	4,779	5,007	7,390	9,703	12,148	14,600	16,623
30%	13,446	12,375	9,063	6,661	2,354	2,382	3,009	6,006	8,988	11,691	14,302	16,320
40%	13,049	11,875	7,384	4,663	1,667	1,942	2,465	4,098	7,777	10,014	12,642	15,391
50%	11,963	7,496	5,410	4,054	1,009	1,394	2,116	2,838	6,228	9,244	11,794	14,703
60%	6,829	6,147	5,020	2,313	587	578	895	1,861	5,217	8,225	11,379	10,866
70%	4,377	4,057	3,532	783	380	345	568	1,202	4,086	7,598	10,682	8,378
80%	4,087	3,878	2,109	425	256	267	294	537	2,288	6,285	10,276	8,012
90%	3,952	3,596	826	267	225	214	220	223	513	4,037	10,092	7,606
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	9,361	8,338	6,453	4,148	1,994	2,333	2,847	3,994	6,400	9,152	12,245	12,699
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	7,609	5,949	2,748	930	345	428	588	1,023	2,551	5,354	9,579	7,450
Above Normal (15%)	9,683	8,294	6,445	2,967	906	587	851	1,651	4,553	7,411	10,619	10,803
Below Normal (17%)	9,724	9,042	7,837	4,942	1,574	2,075	2,419	3,513	6,467	9,511	12,205	15,013
Dry (22%)	9,817	9,417	7,993	6,187	3,273	3,494	4,332	6,146	8,990	11,860	14,461	16,483
Critical (15%)	11,730	11,119	10,564	8,319	5,223	6,765	8,012	10,109	12,627	14,640	16,371	17,592

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	14,241	13,031	12,421	9,589	5,342	6,974	8,562	9,425	11,278	13,278	15,760	17,416
20%	13,600	12,699	11,254	8,668	3,625	4,890	5,230	8,470	10,478	12,370	14,750	16,666
30%	13,424	12,356	10,130	7,308	2,604	2,385	3,375	7,014	9,461	11,678	14,371	16,532
40%	12,993	11,785	9,830	4,952	1,659	1,671	2,729	5,056	8,428	8,693	11,157	14,593
50%	11,780	8,732	9,089	4,060	1,024	1,142	2,365	3,506	6,790	8,124	10,393	13,797
60%	6,424	8,357	7,772	2,317	543	541	1,124	2,565	6,026	7,219	10,180	10,293
70%	6,302	8,145	4,721	808	374	321	621	1,613	4,388	6,545	9,719	10,041
80%	6,082	7,449	2,982	402	260	269	315	665	2,404	5,473	8,475	9,857
90%	5,571	5,035	1,322	310	232	221	222	243	545	4,043	7,998	9,275
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	9,821	9,581	7,540	4,397	2,080	2,294	2,983	4,501	6,799	8,712	11,417	12,993
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	8,199	7,593	3,618	980	342	409	682	1,357	2,909	5,493	9,185	9,131
Above Normal (15%)	10,274	9,555	7,812	3,157	853	520	980	2,255	4,987	7,507	10,430	10,001
Below Normal (17%)	10,219	10,261	9,107	5,083	1,536	1,925	2,608	4,316	6,980	6,378	8,139	14,176
Dry (22%)	10,246	10,493	9,222	6,736	3,534	3,431	4,485	6,799	9,482	12,000	14,568	16,587
Critical (15%)	11,779	11,755	11,418	8,735	5,526	6,877	8,155	10,331	12,803	14,681	16,337	17,581

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-62	-26	-7	<b>704</b>	<b>65</b>	-67	<b>183</b>	<b>192</b>	<b>170</b>	<b>16</b>	-8	-104
20%	-13	-40	-99	<b>890</b>	<b>27</b>	<b>111</b>	<b>223</b>	<b>1,079</b>	<b>775</b>	<b>222</b>	<b>150</b>	<b>43</b>
30%	-22	-20	<b>1,067</b>	<b>647</b>	<b>250</b>	<b>3</b>	<b>365</b>	<b>1,008</b>	<b>473</b>	-13	<b>69</b>	<b>213</b>
40%	-55	-90	<b>2,446</b>	<b>288</b>	-9	-271	<b>264</b>	<b>958</b>	<b>651</b>	-1,321	-1,485	-797
50%	-182	<b>1,236</b>	<b>3,679</b>	<b>6</b>	<b>14</b>	-252	<b>249</b>	<b>668</b>	<b>562</b>	-1,120	-1,401	-907
60%	-404	<b>2,210</b>	<b>2,752</b>	<b>4</b>	-44	-37	<b>229</b>	<b>704</b>	<b>809</b>	-1,005	-1,199	-573
70%	<b>1,925</b>	<b>4,088</b>	<b>1,190</b>	<b>25</b>	-6	-24	<b>54</b>	<b>411</b>	<b>302</b>	-1,053	-963	<b>1,662</b>
80%	<b>1,994</b>	<b>3,571</b>	<b>873</b>	-23	<b>4</b>	<b>2</b>	<b>20</b>	<b>129</b>	<b>116</b>	-812	-1,801	<b>1,845</b>
90%	<b>1,619</b>	<b>1,439</b>	<b>496</b>	<b>43</b>	<b>7</b>	<b>7</b>	<b>2</b>	<b>19</b>	<b>33</b>	<b>6</b>	-2,093	<b>1,668</b>
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	<b>459</b>	<b>1,243</b>	<b>1,087</b>	<b>249</b>	<b>86</b>	-39	<b>135</b>	<b>507</b>	<b>399</b>	-440	-828	<b>294</b>
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	<b>590</b>	<b>1,644</b>	<b>870</b>	<b>50</b>	-3	-19	<b>93</b>	<b>334</b>	<b>358</b>	<b>139</b>	-394	<b>1,682</b>
Above Normal (15%)	<b>591</b>	<b>1,261</b>	<b>1,368</b>	<b>190</b>	-53	-67	<b>129</b>	<b>604</b>	<b>434</b>	<b>96</b>	-188	-802
Below Normal (17%)	<b>495</b>	<b>1,219</b>	<b>1,270</b>	<b>141</b>	-38	-150	<b>188</b>	<b>803</b>	<b>514</b>	-3,134	-4,066	-837
Dry (22%)	<b>429</b>	<b>1,076</b>	<b>1,229</b>	<b>549</b>	<b>260</b>	-63	<b>153</b>	<b>653</b>	<b>492</b>	<b>139</b>	<b>107</b>	<b>105</b>
Critical (15%)	<b>49</b>	<b>636</b>	<b>854</b>	<b>416</b>	<b>303</b>	<b>112</b>	<b>143</b>	<b>222</b>	<b>177</b>	<b>41</b>	-34	-11

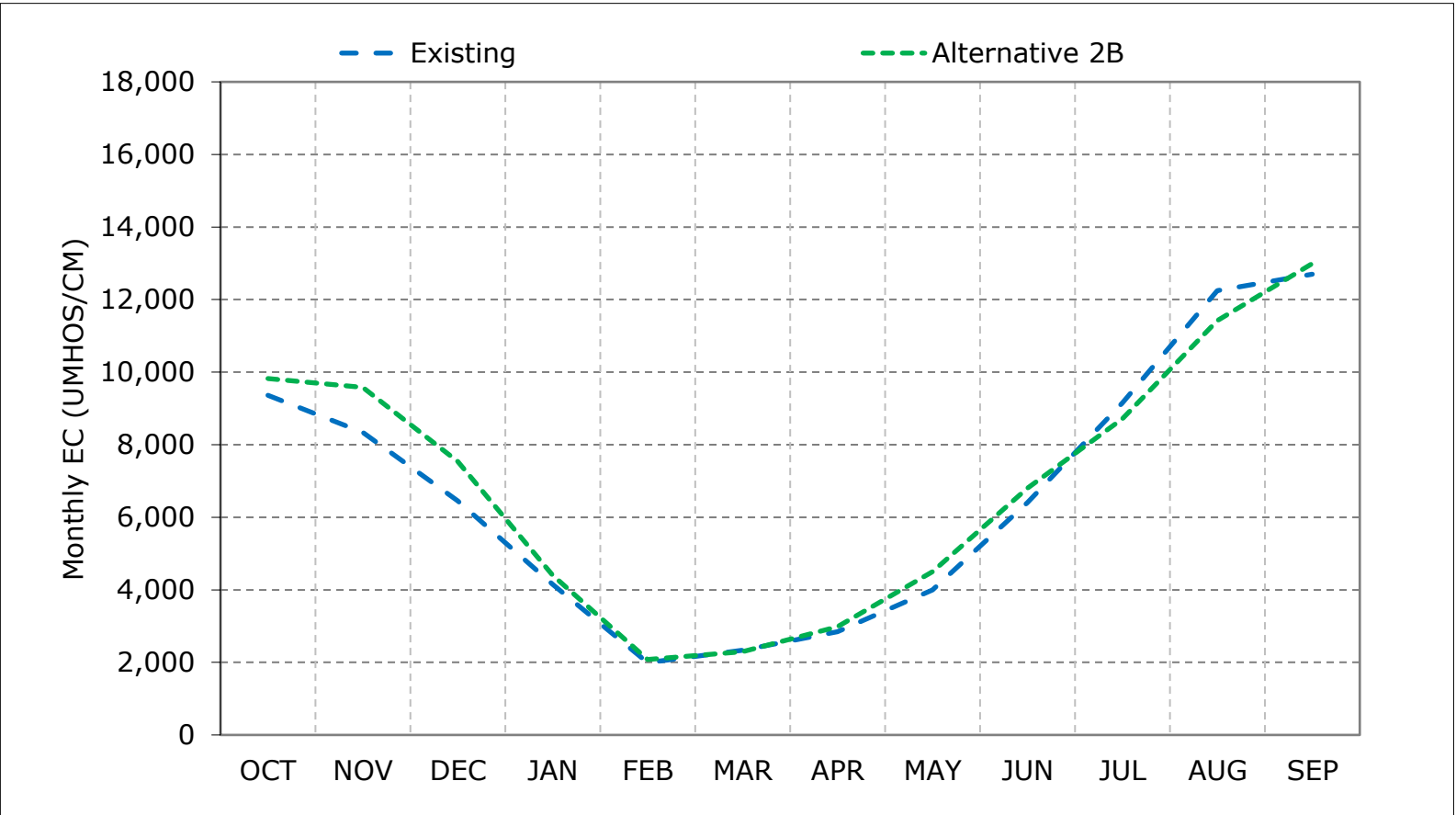
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

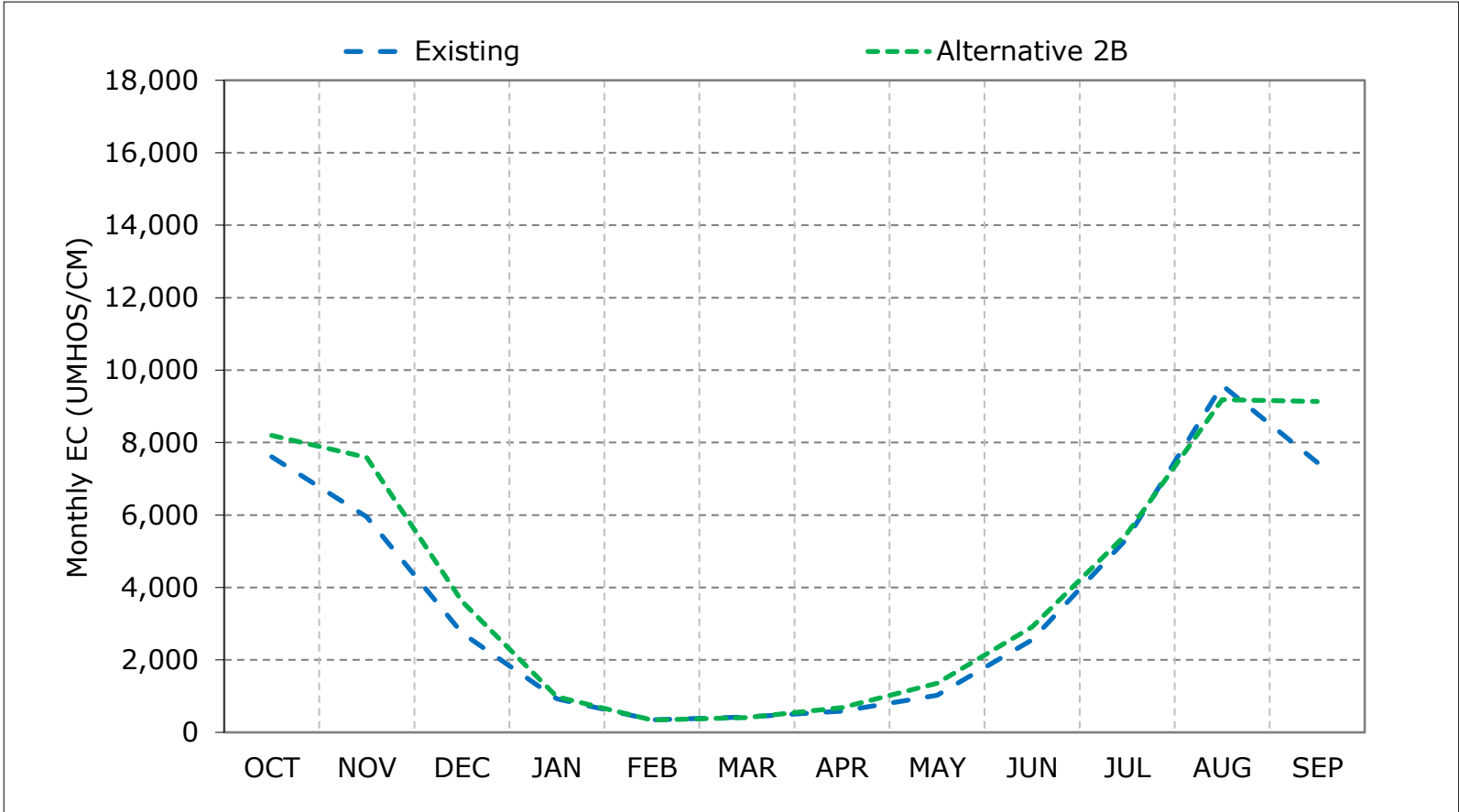
**Figure 20-1. Montezuma Slough at Hunter Cut, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

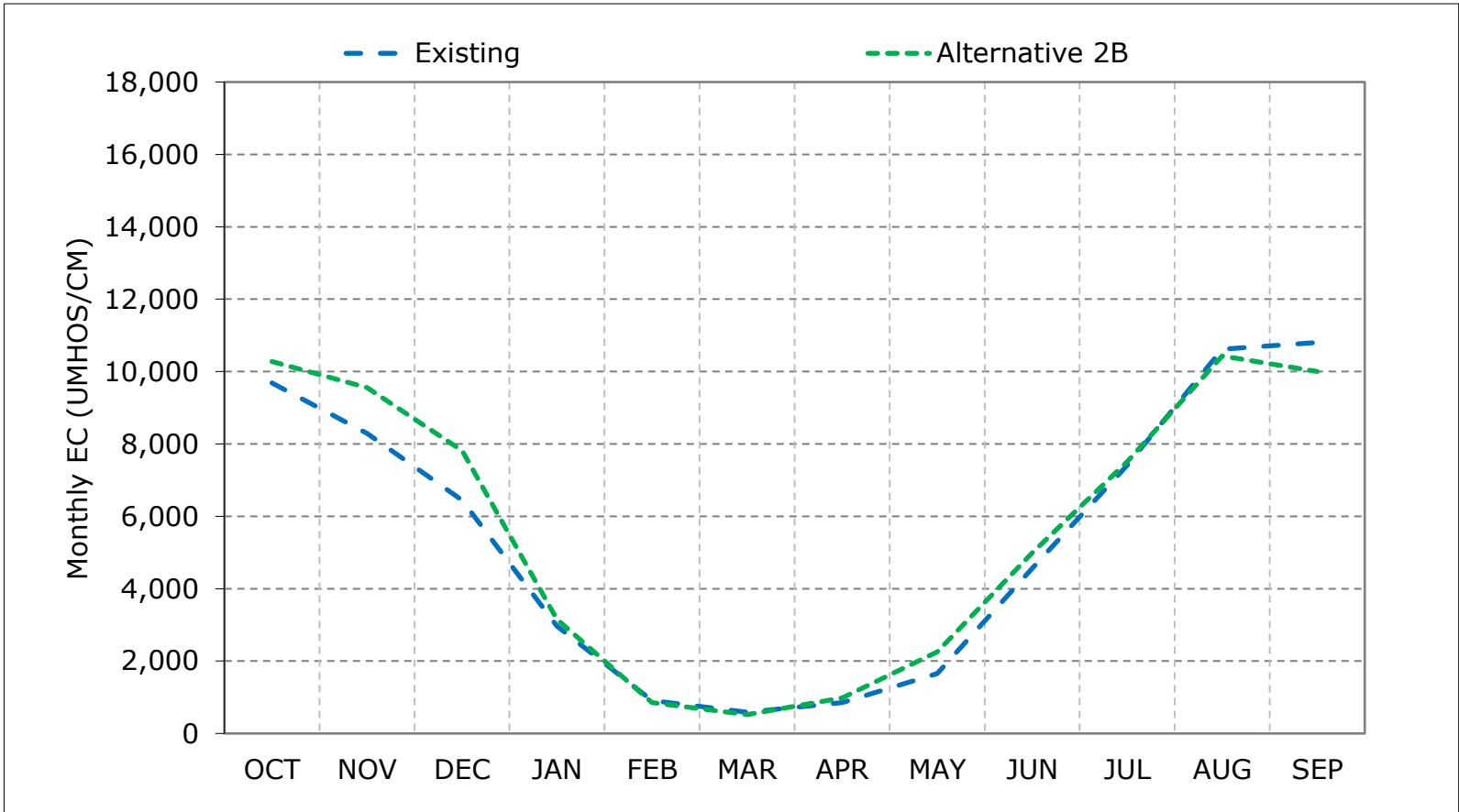
**Figure 20-2. Montezuma Slough at Hunter Cut, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

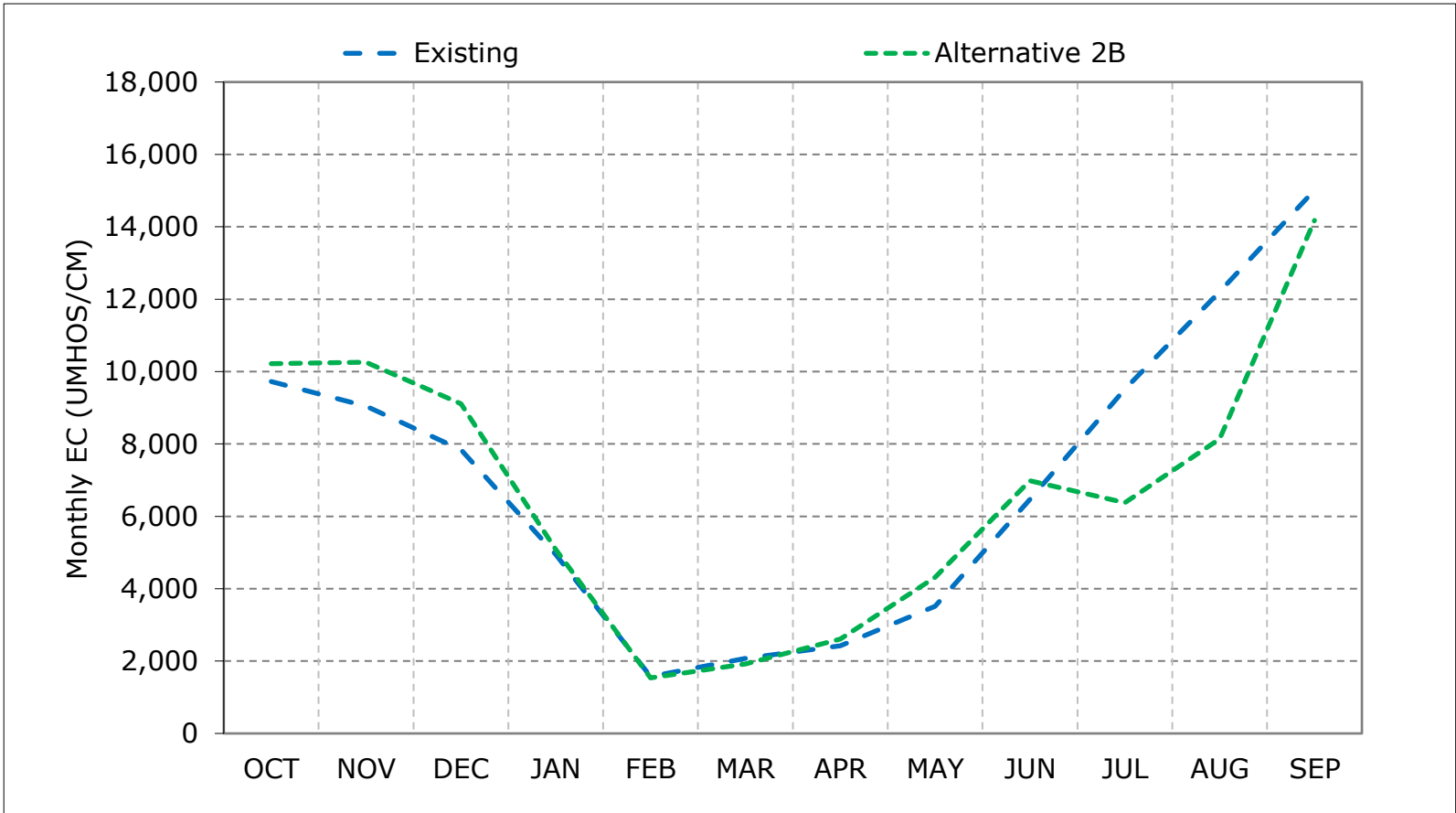
**Figure 20-3. Montezuma Slough at Hunter Cut, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

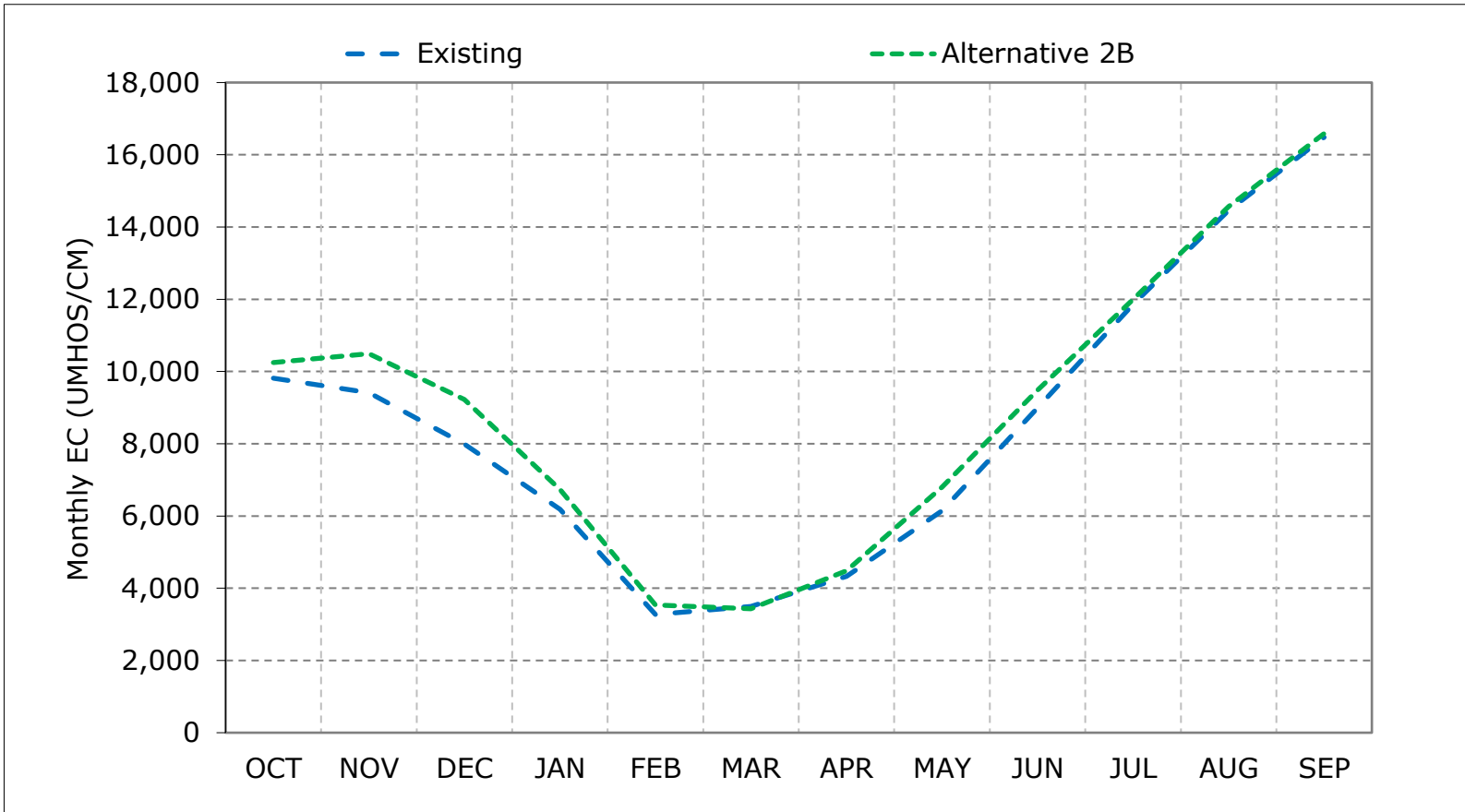
**Figure 20-4. Montezuma Slough at Hunter Cut, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 20-5. Montezuma Slough at Hunter Cut, Dry Year Average EC**

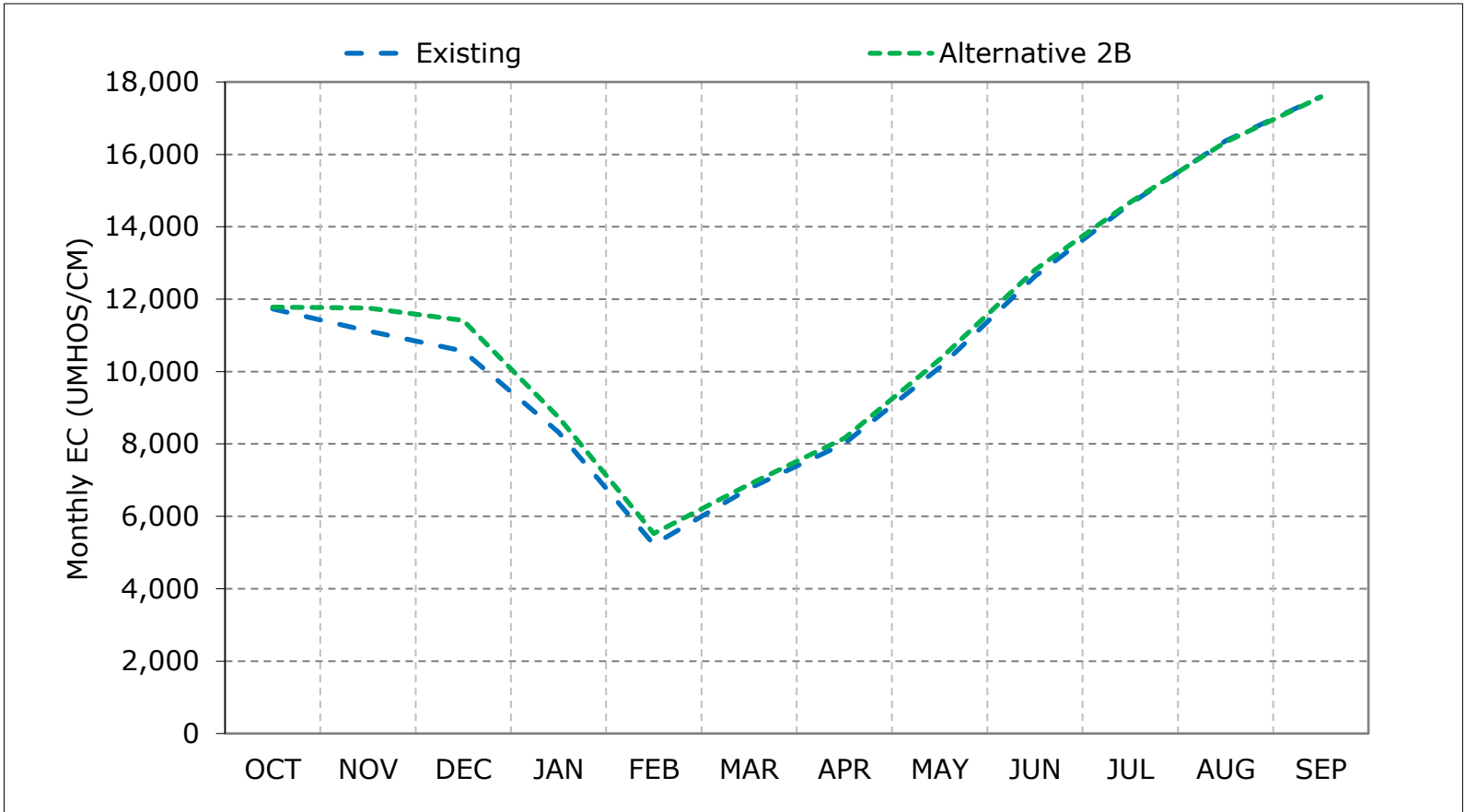


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



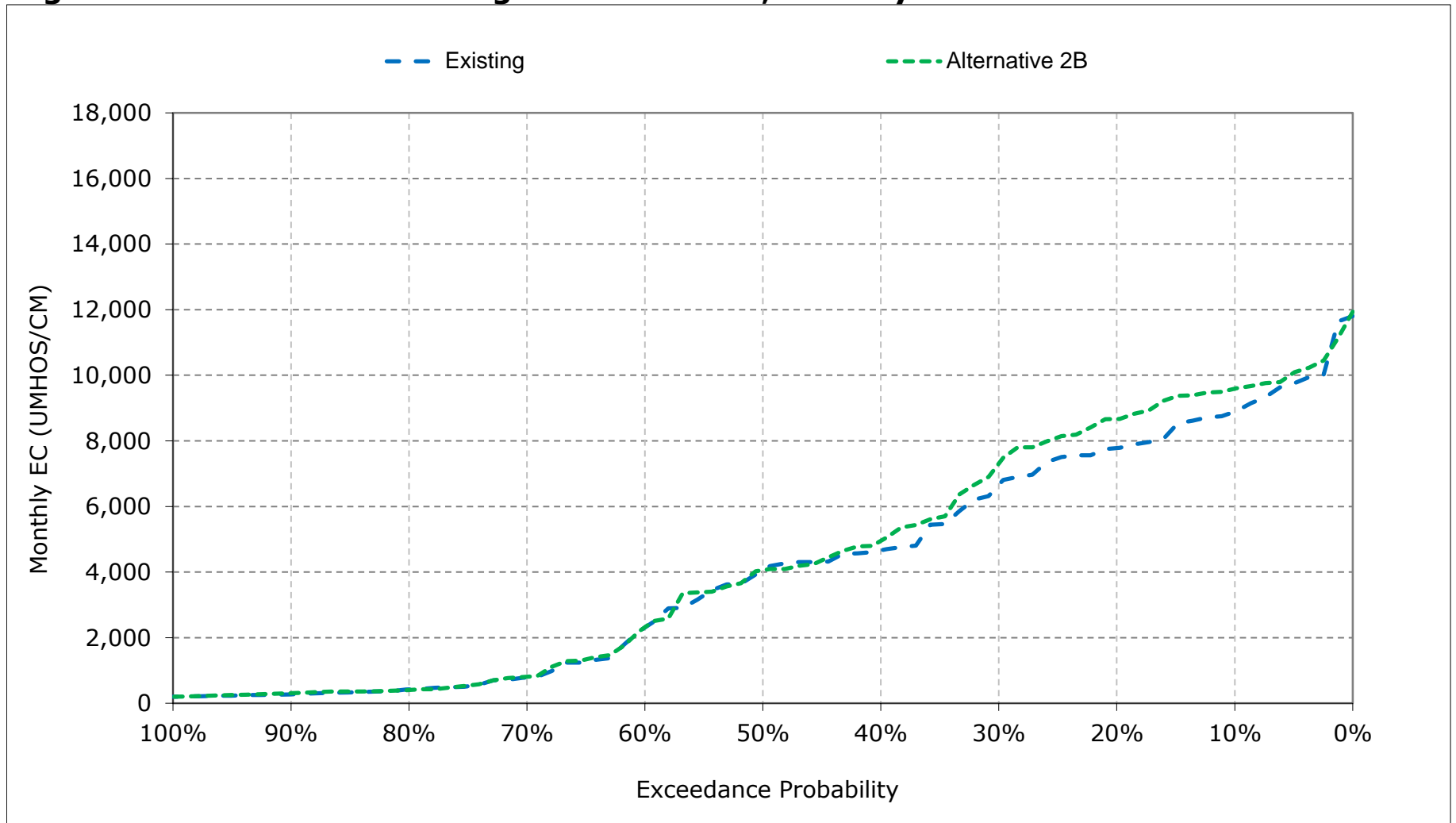
**Figure 20-6. Montezuma Slough at Hunter Cut, Critical Year Average EC**



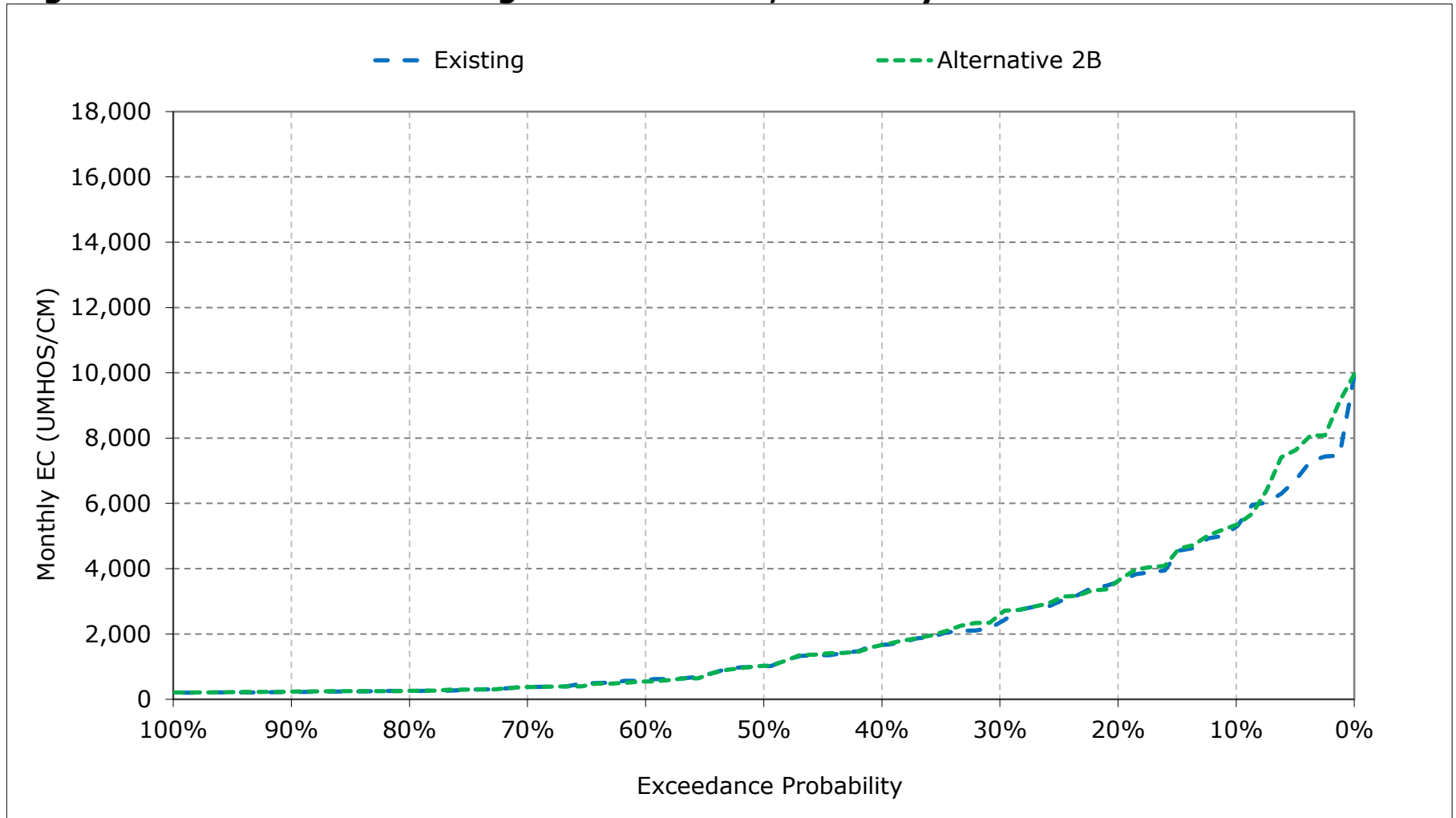
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

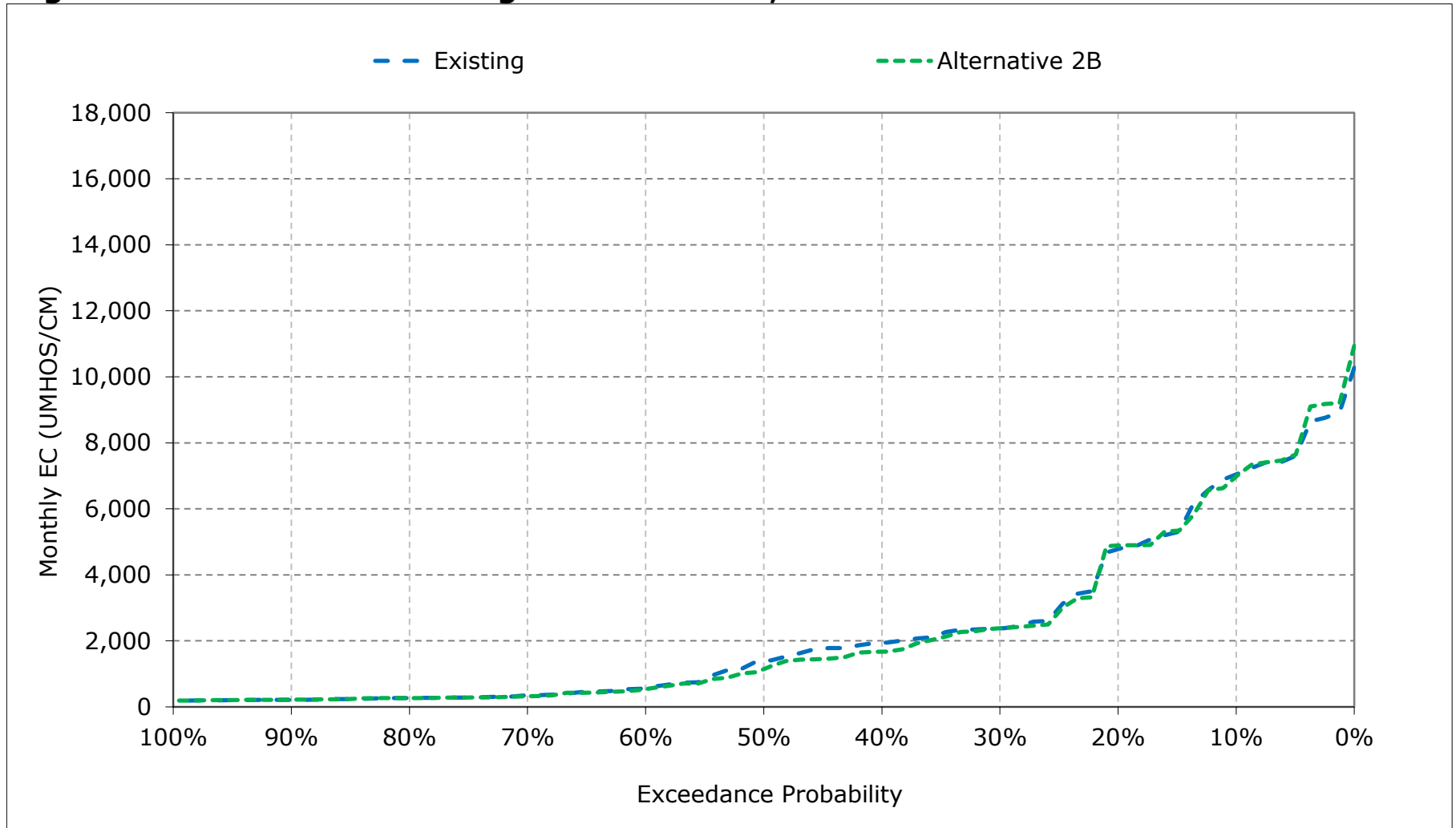
**Figure 20-7. Montezuma Slough at Hunter Cut, January EC**



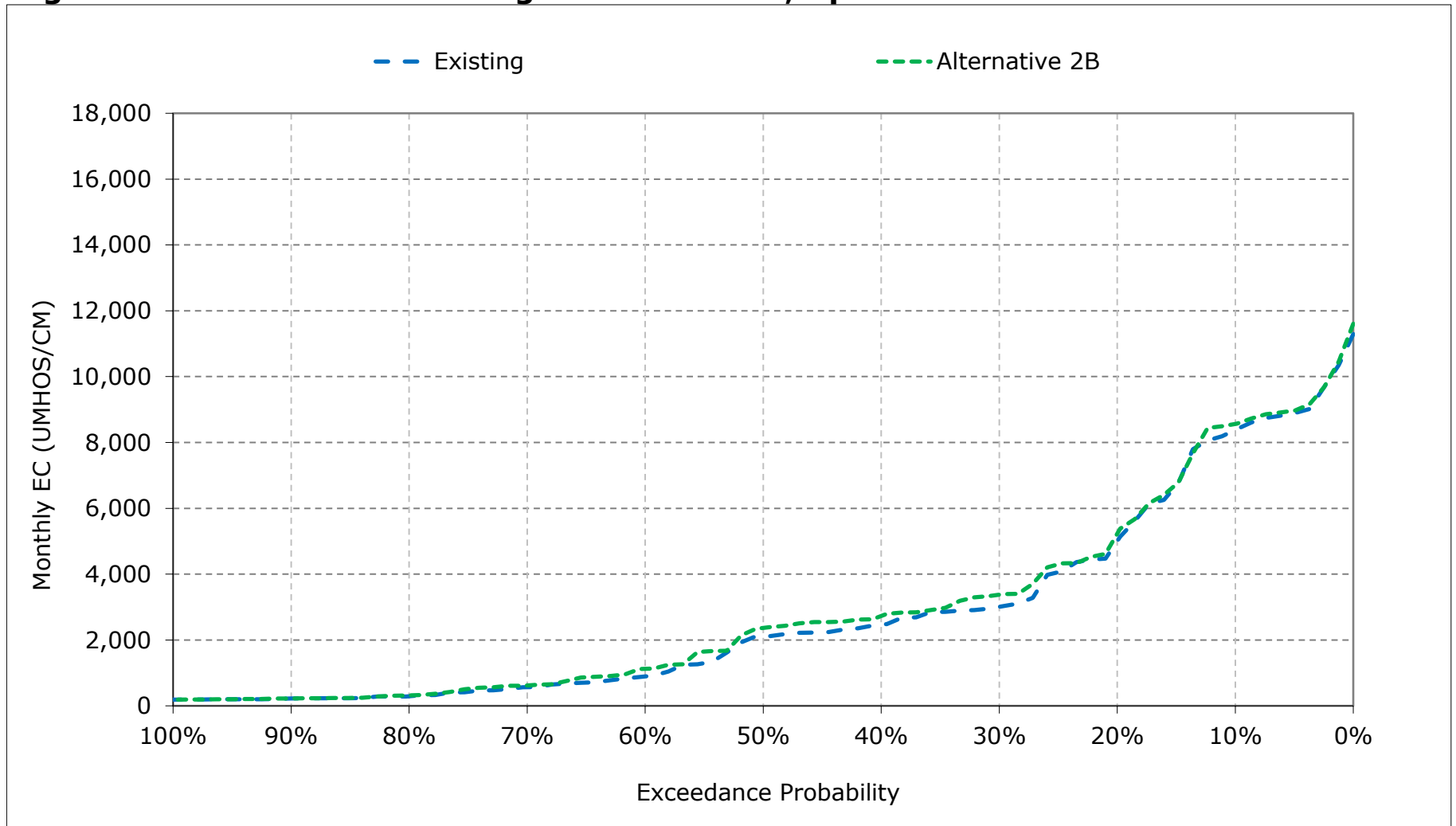
**Figure 20-8. Montezuma Slough at Hunter Cut, February EC**



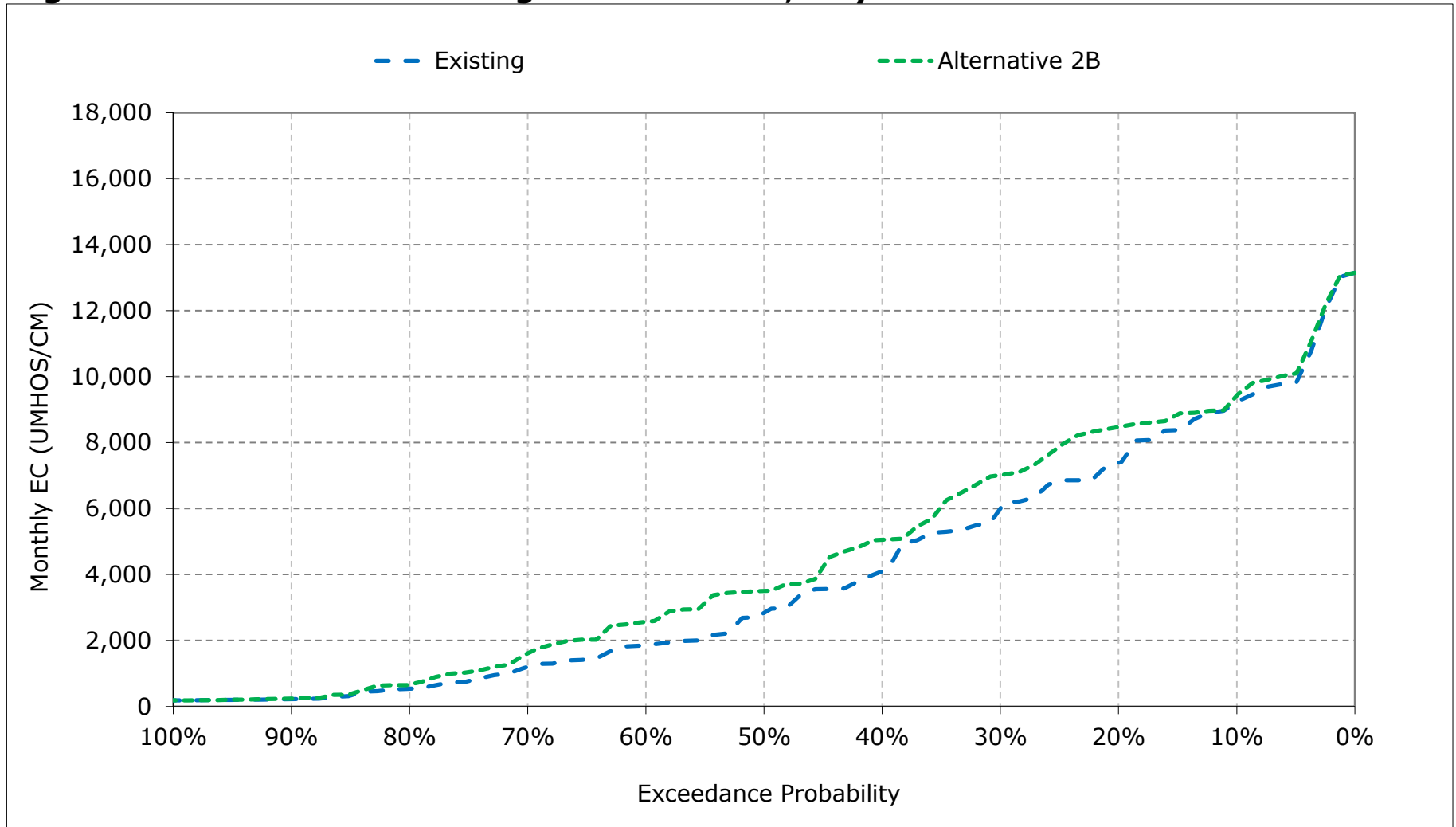
**Figure 20-9. Montezuma Slough at Hunter Cut, March EC**



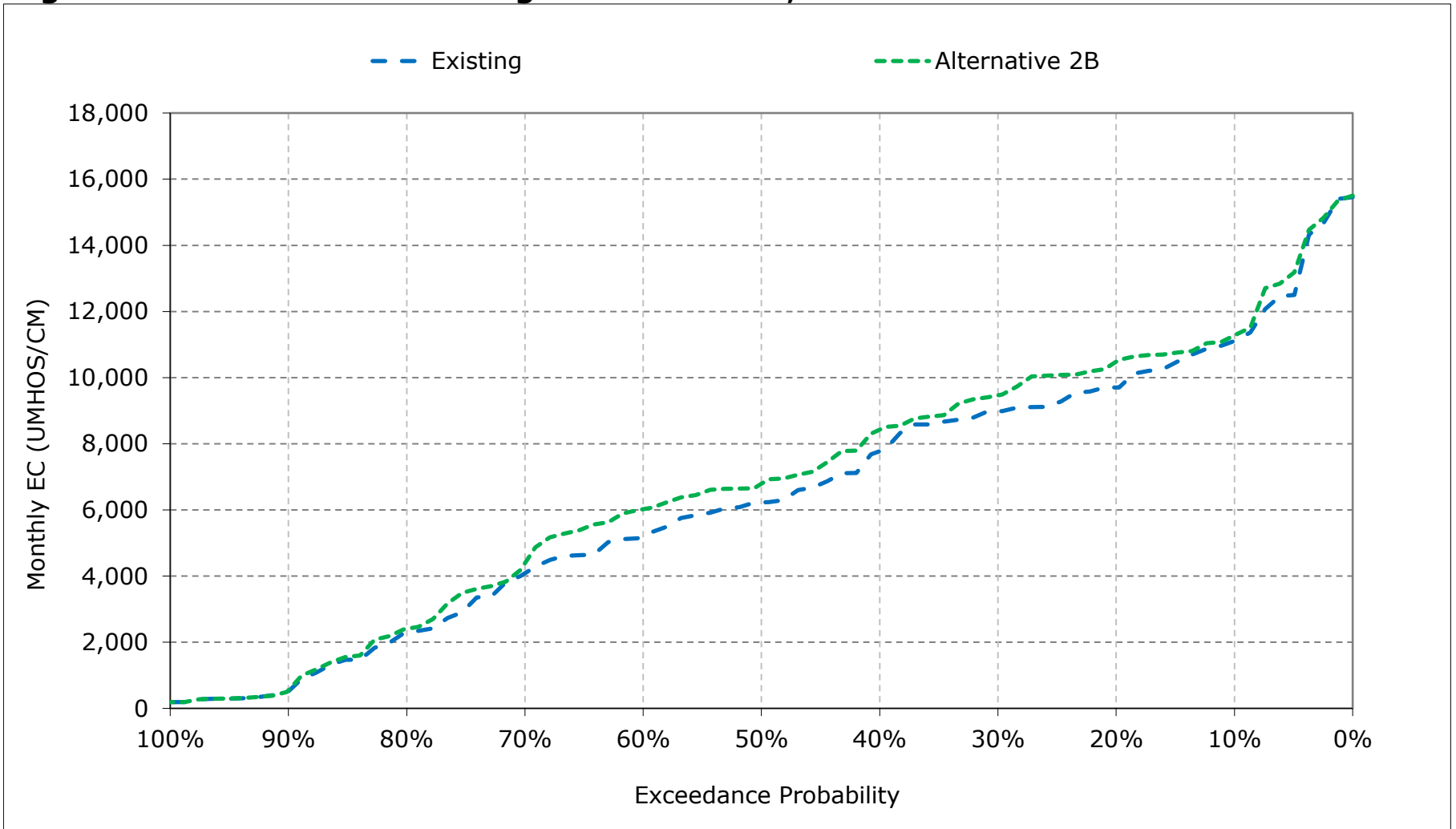
**Figure 20-10. Montezuma Slough at Hunter Cut, April EC**



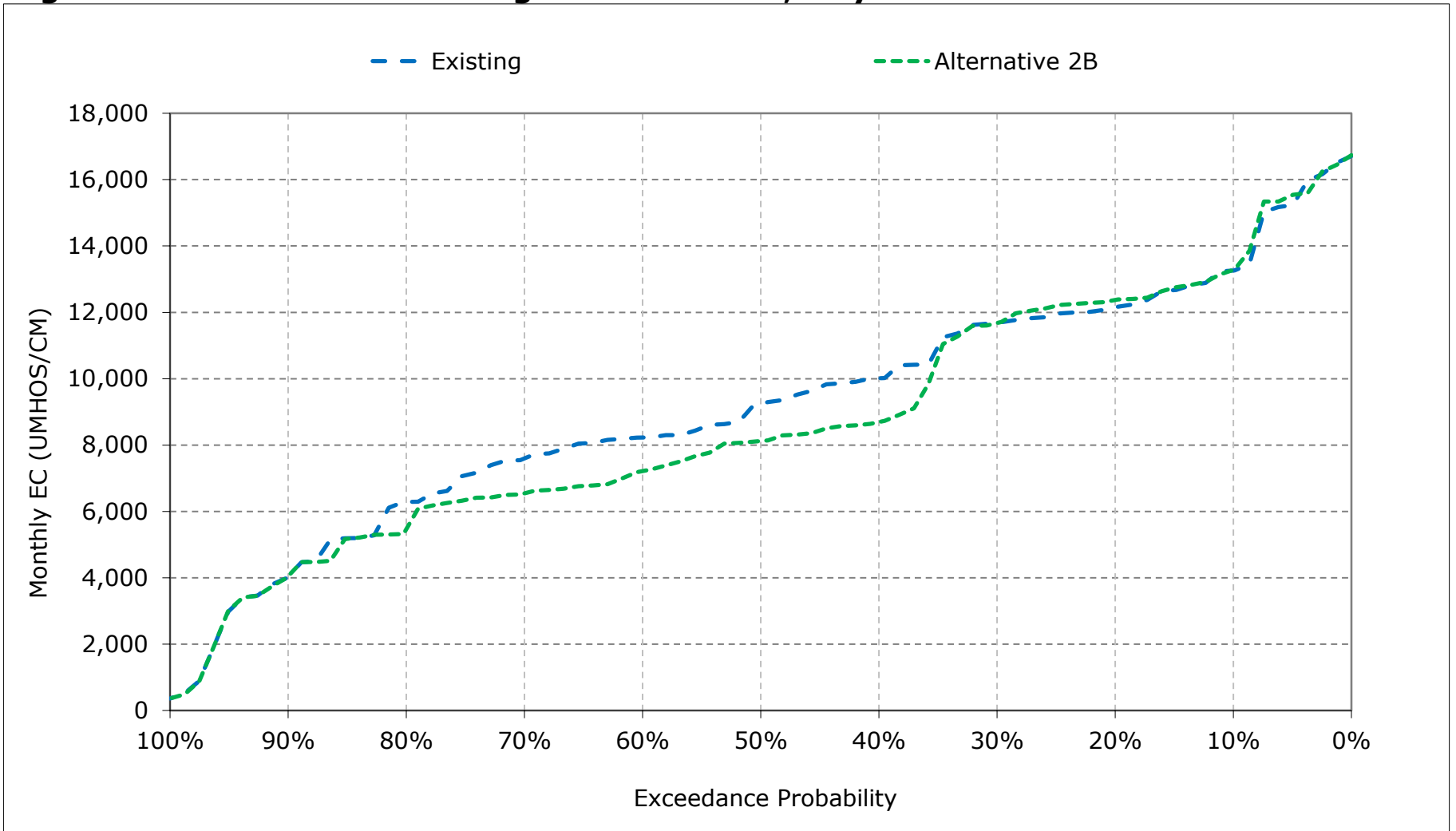
**Figure 20-11. Montezuma Slough at Hunter Cut, May EC**



**Figure 20-12. Montezuma Slough at Hunter Cut, June EC**

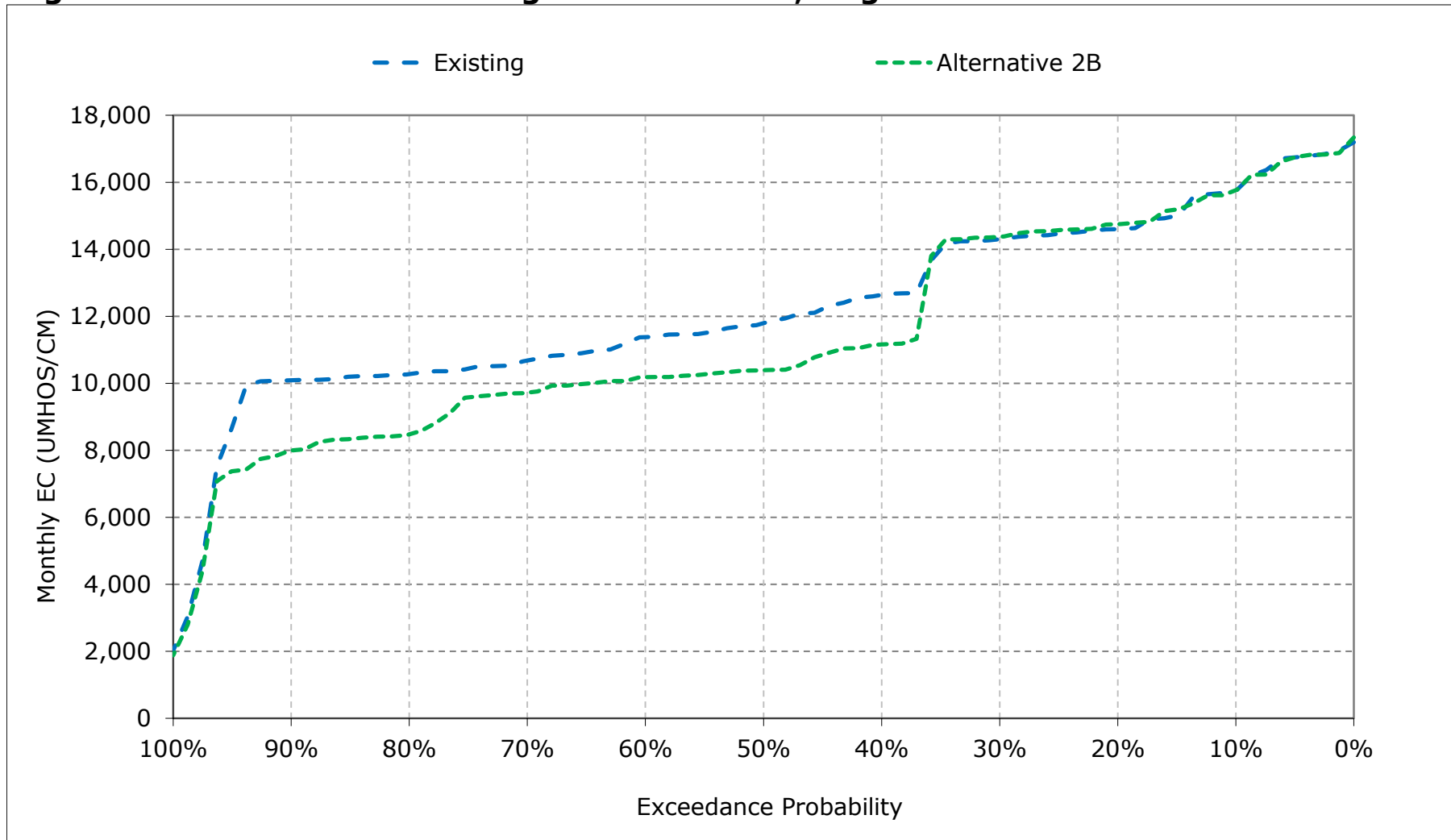


**Figure 20-13. Montezuma Slough at Hunter Cut, July EC**

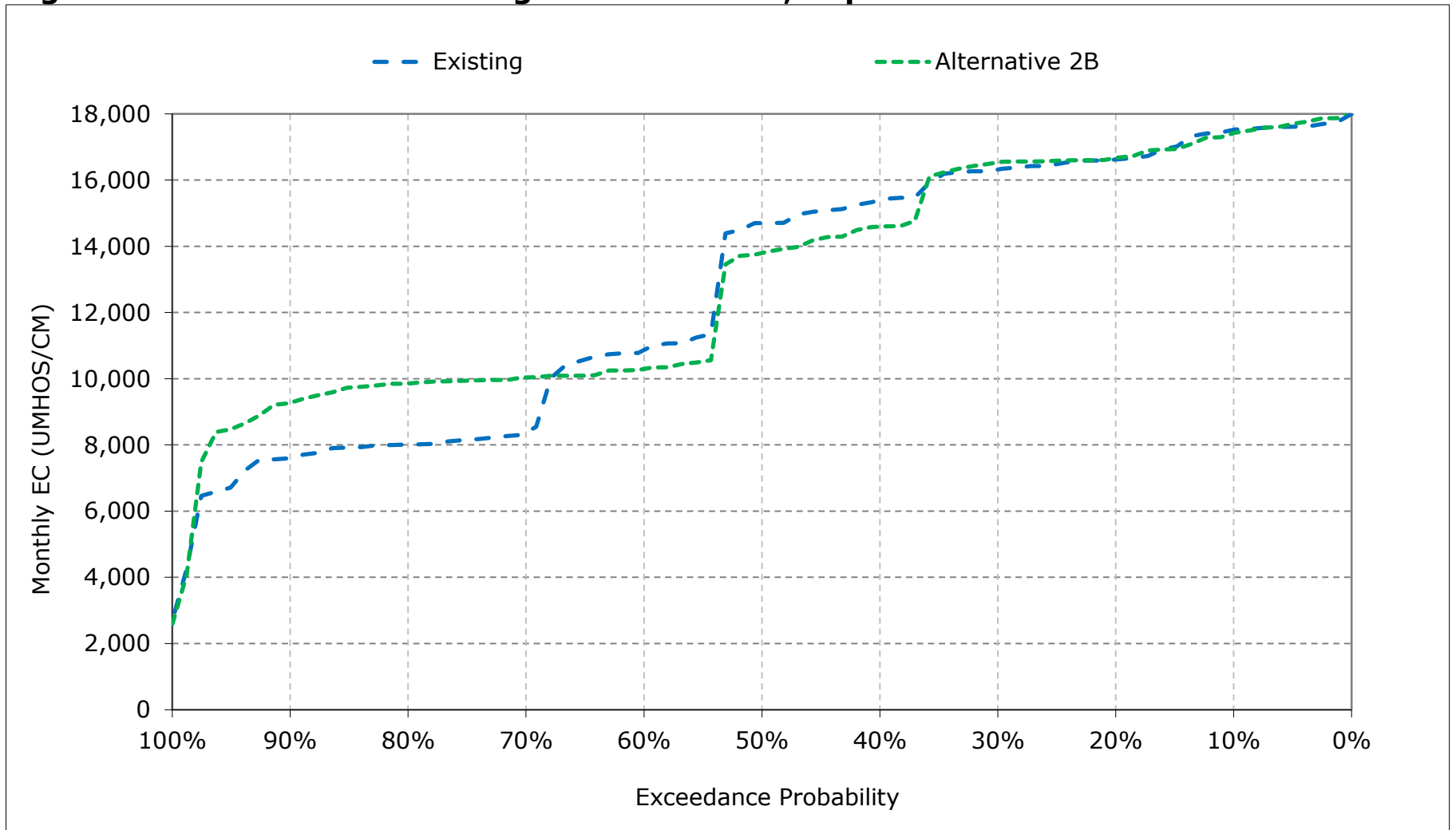




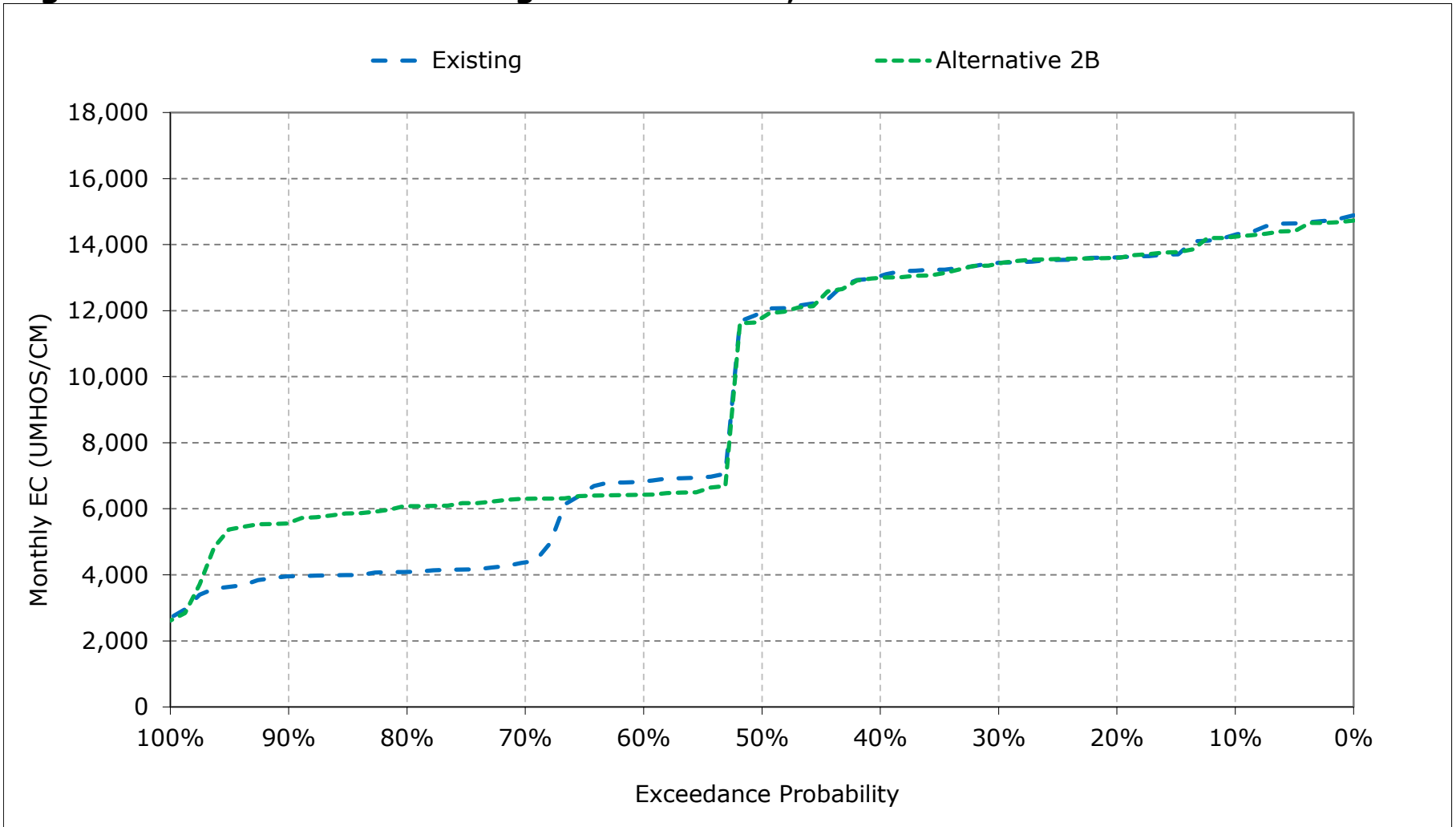
**Figure 20-14. Montezuma Slough at Hunter Cut, August EC**



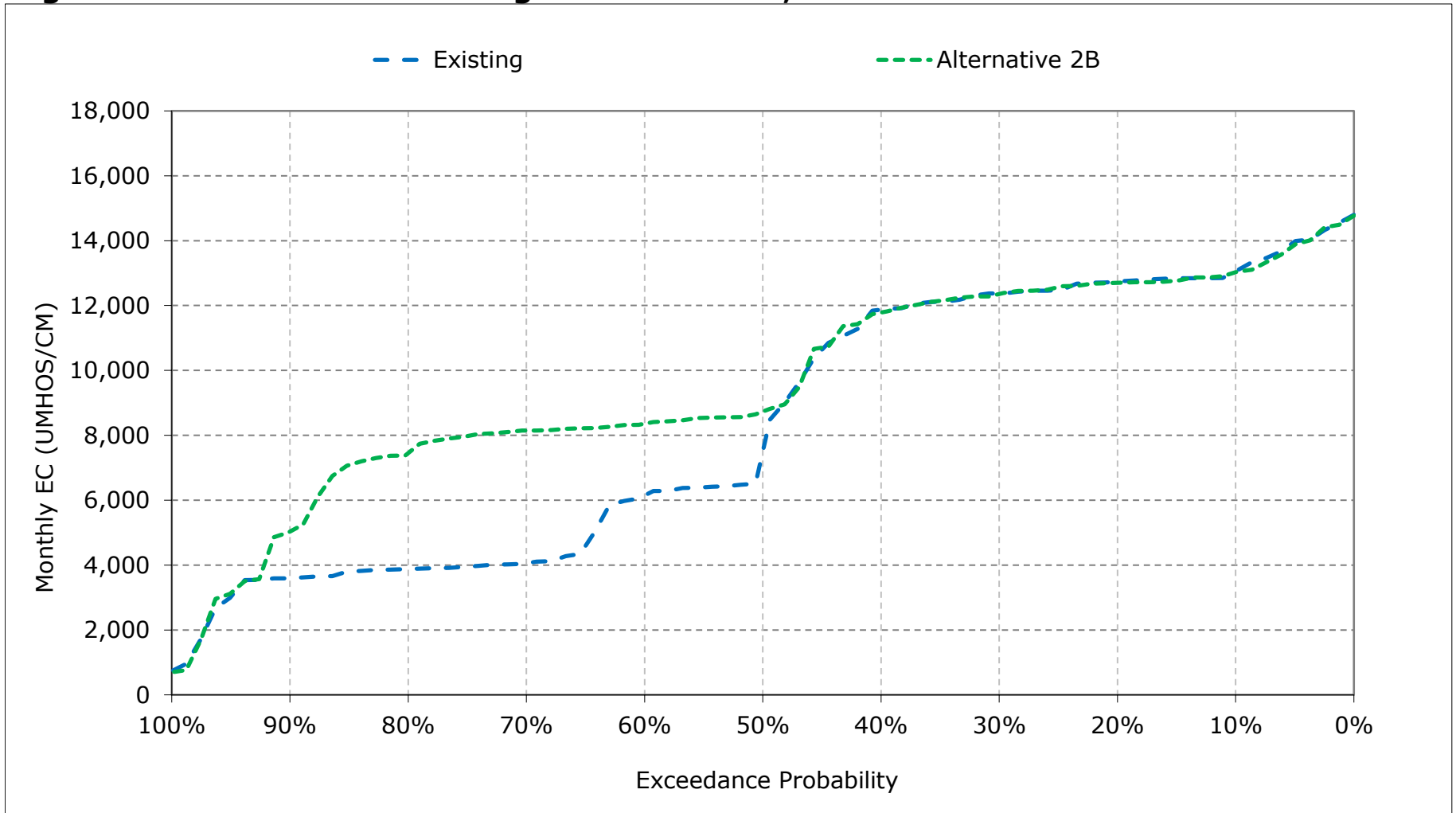
**Figure 20-15. Montezuma Slough at Hunter Cut, September EC**



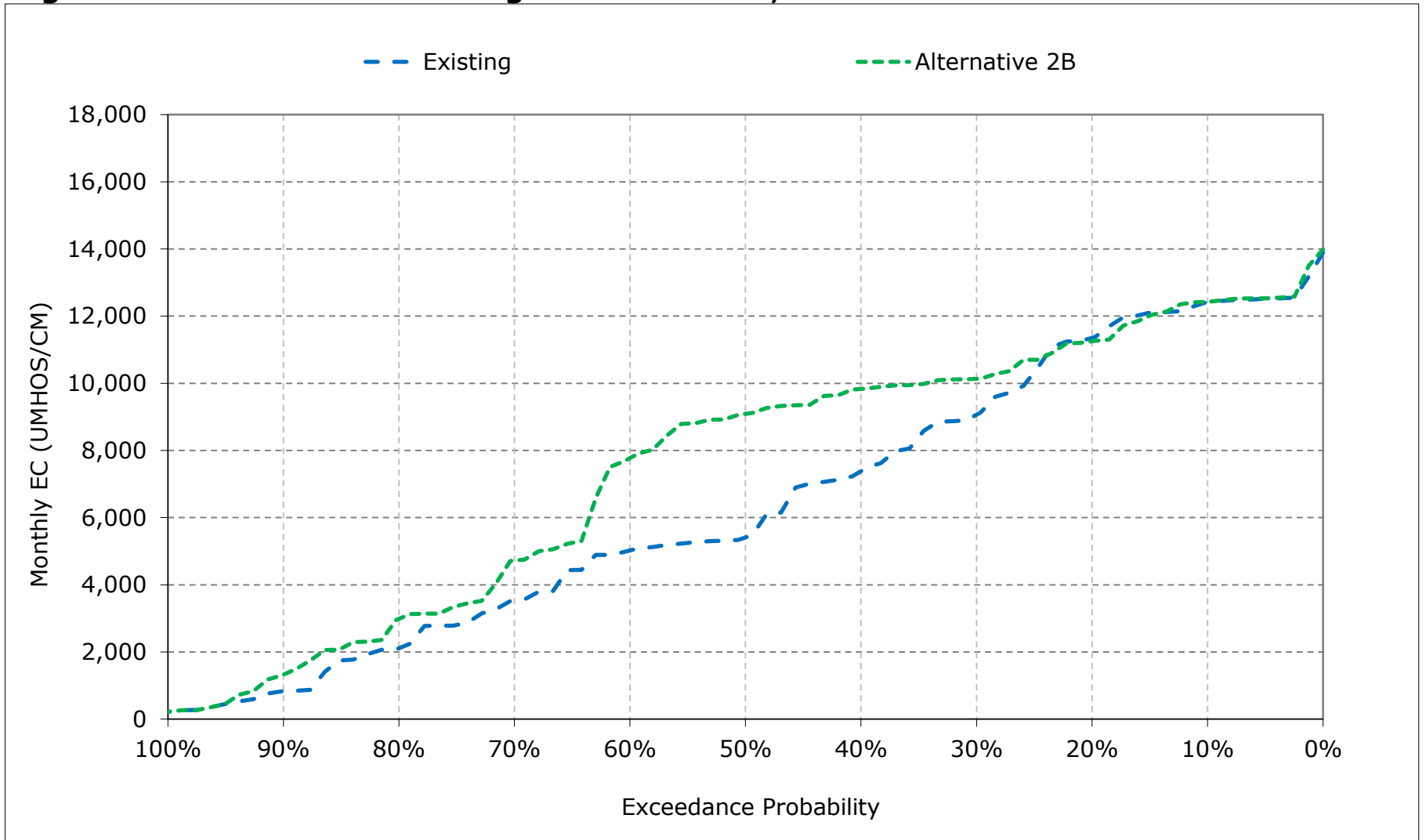
**Figure 20-16. Montezuma Slough at Hunter Cut, October EC**



**Figure 20-17. Montezuma Slough at Hunter Cut, November EC**



**Figure 20-18. Montezuma Slough at Hunter Cut, December EC**



**Table 21-1. Montezuma Slough at Beldons Landing, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	10,397	9,185	8,459	4,859	1,913	4,528	6,910	7,642	9,408	11,291	13,926	16,150
20%	9,726	8,768	6,977	4,038	1,247	2,844	3,734	5,911	7,904	10,245	12,836	15,110
30%	9,507	8,484	4,779	3,185	773	1,475	2,438	4,408	6,998	9,651	12,376	14,722
40%	9,254	7,931	3,817	1,903	557	1,021	1,574	2,715	5,707	8,399	10,521	13,462
50%	7,993	3,576	2,678	1,632	309	853	1,248	1,882	4,248	7,091	9,759	12,895
60%	3,553	2,817	2,383	718	232	347	586	1,126	3,297	6,637	9,000	9,885
70%	1,942	1,552	1,139	269	208	236	365	672	2,535	5,545	8,218	8,353
80%	1,727	1,379	809	210	198	210	239	366	1,132	4,226	8,042	7,889
90%	1,622	1,278	280	196	191	195	195	200	293	2,201	7,617	7,573
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	6,094	5,097	3,652	2,040	821	1,517	2,173	3,003	4,836	7,331	10,172	11,631
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	4,627	3,136	1,198	410	220	288	391	672	1,598	3,726	7,266	7,212
Above Normal (15%)	6,377	5,107	3,446	1,297	368	370	528	1,022	2,874	5,632	8,335	9,858
Below Normal (17%)	6,393	5,547	4,642	2,292	548	1,255	1,742	2,463	4,577	7,545	10,081	13,190
Dry (22%)	6,458	5,971	4,487	3,024	1,240	2,210	3,276	4,600	7,033	9,806	12,571	14,904
Critical (15%)	8,098	7,502	6,769	4,543	2,264	4,595	6,530	8,271	10,822	12,880	14,817	16,249

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	10,380	9,196	8,451	5,568	1,992	4,474	7,122	7,724	9,520	11,346	13,920	16,065
20%	9,747	8,773	7,004	4,532	1,233	2,910	3,539	6,398	8,753	10,430	12,986	15,096
30%	9,453	8,527	6,363	3,429	833	1,493	2,592	5,157	7,757	9,626	12,493	14,899
40%	9,156	7,960	5,858	2,102	571	888	1,722	3,504	6,046	7,161	9,033	11,466
50%	8,049	5,302	4,937	1,585	311	681	1,339	2,173	4,748	6,448	8,198	10,816
60%	3,257	4,984	3,771	734	221	335	614	1,567	4,072	4,807	7,884	9,442
70%	3,071	4,746	1,919	276	208	231	385	949	2,767	3,308	7,450	9,043
80%	2,915	4,219	1,151	210	200	208	242	409	1,388	3,173	5,455	8,911
90%	2,587	2,228	542	195	192	195	197	203	311	2,070	4,803	8,333
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	6,356	6,141	4,461	2,215	875	1,505	2,229	3,350	5,237	6,692	9,210	11,490
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	4,976	4,497	1,743	421	214	279	429	880	1,915	3,891	6,978	8,143
Above Normal (15%)	6,711	6,105	4,510	1,438	341	328	575	1,388	3,320	5,726	8,220	9,081
Below Normal (17%)	6,692	6,561	5,620	2,395	536	1,170	1,799	3,010	5,136	3,102	4,956	11,168
Dry (22%)	6,697	6,926	5,467	3,409	1,380	2,198	3,319	5,086	7,547	10,001	12,686	15,019
Critical (15%)	8,090	8,072	7,442	4,878	2,481	4,689	6,648	8,453	11,009	12,952	14,786	16,232

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-17	11	-7	710	78	-54	212	82	112	55	-6	-85
20%	21	5	27	494	-14	67	-195	487	850	184	150	-14
30%	-54	43	1,584	244	60	18	154	749	759	-24	117	177
40%	-99	29	2,040	199	14	-133	148	788	339	-1,238	-1,488	-1,996
50%	56	1,725	2,260	-47	3	-171	91	292	501	-643	-1,561	-2,079
60%	-297	2,167	1,389	16	-10	-11	28	441	775	-1,830	-1,116	-443
70%	1,129	3,194	780	7	-1	-6	21	277	232	-2,237	-768	691
80%	1,188	2,840	342	0	2	-2	3	43	255	-1,052	-2,587	1,021
90%	965	950	262	0	0	0	2	3	18	-131	-2,815	759
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	262	1,044	809	175	55	-12	55	346	401	-639	-962	-141
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	349	1,360	545	11	-6	-9	39	208	317	166	-288	930
Above Normal (15%)	335	998	1,064	141	-27	-41	46	366	446	94	-115	-777
Below Normal (17%)	299	1,014	978	103	-11	-85	57	547	559	-4,442	-5,125	-2,021
Dry (22%)	239	955	980	385	141	-13	43	486	514	194	116	115
Critical (15%)	-8	571	673	336	216	94	118	182	187	71	-31	-17

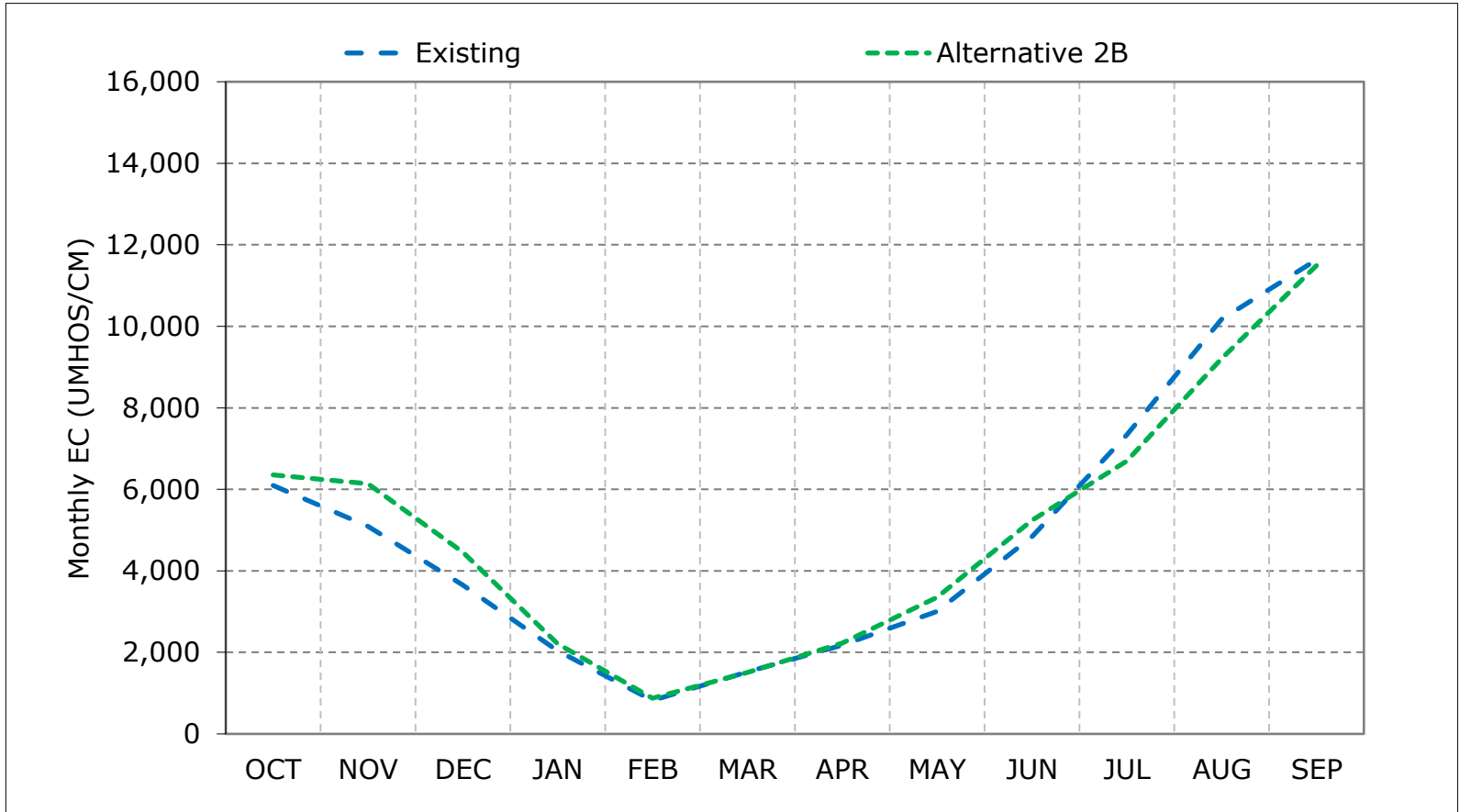
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

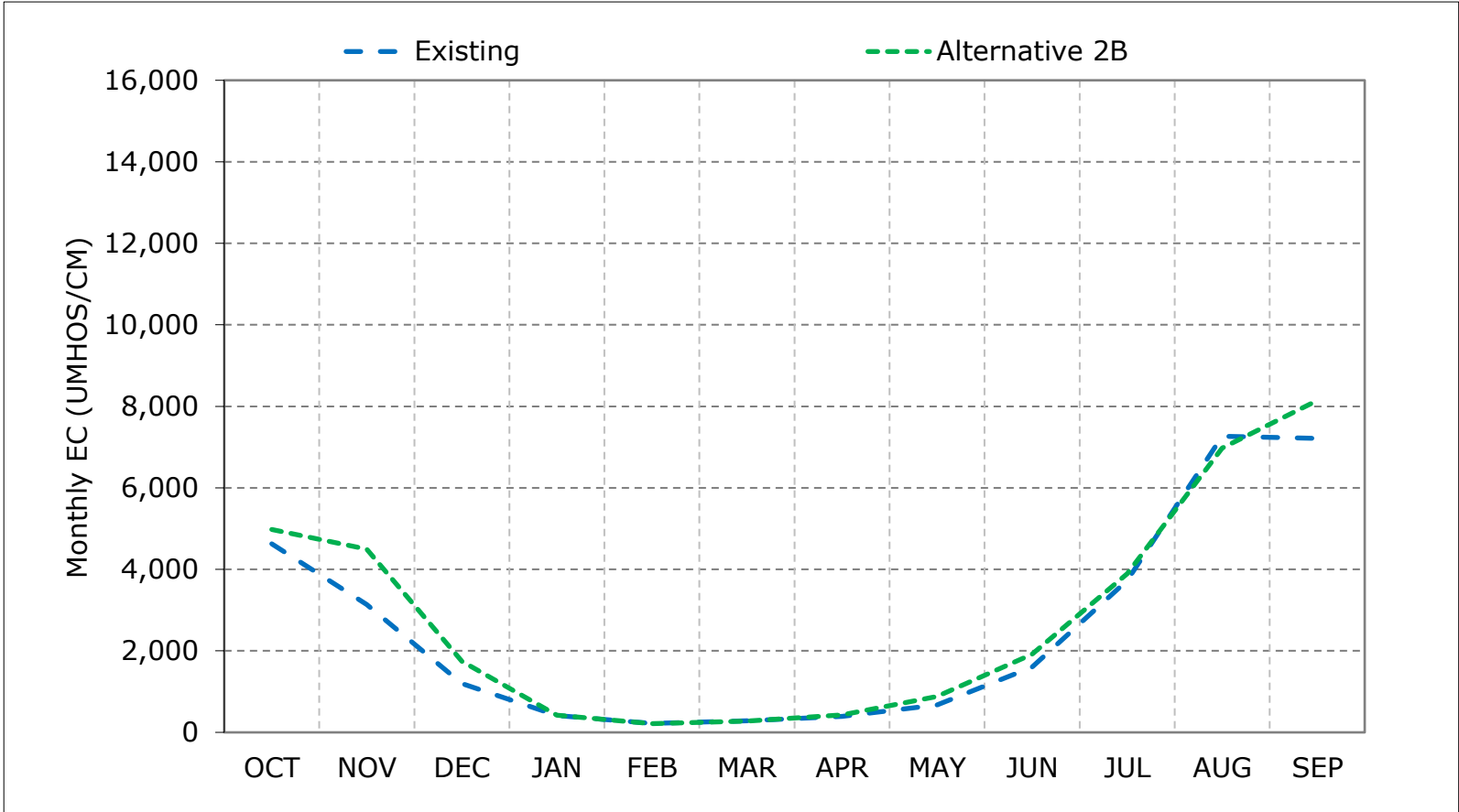
**Figure 21-1. Montezuma Slough at Beldons Landing, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 21-2. Montezuma Slough at Beldons Landing, Wet Year Average EC**

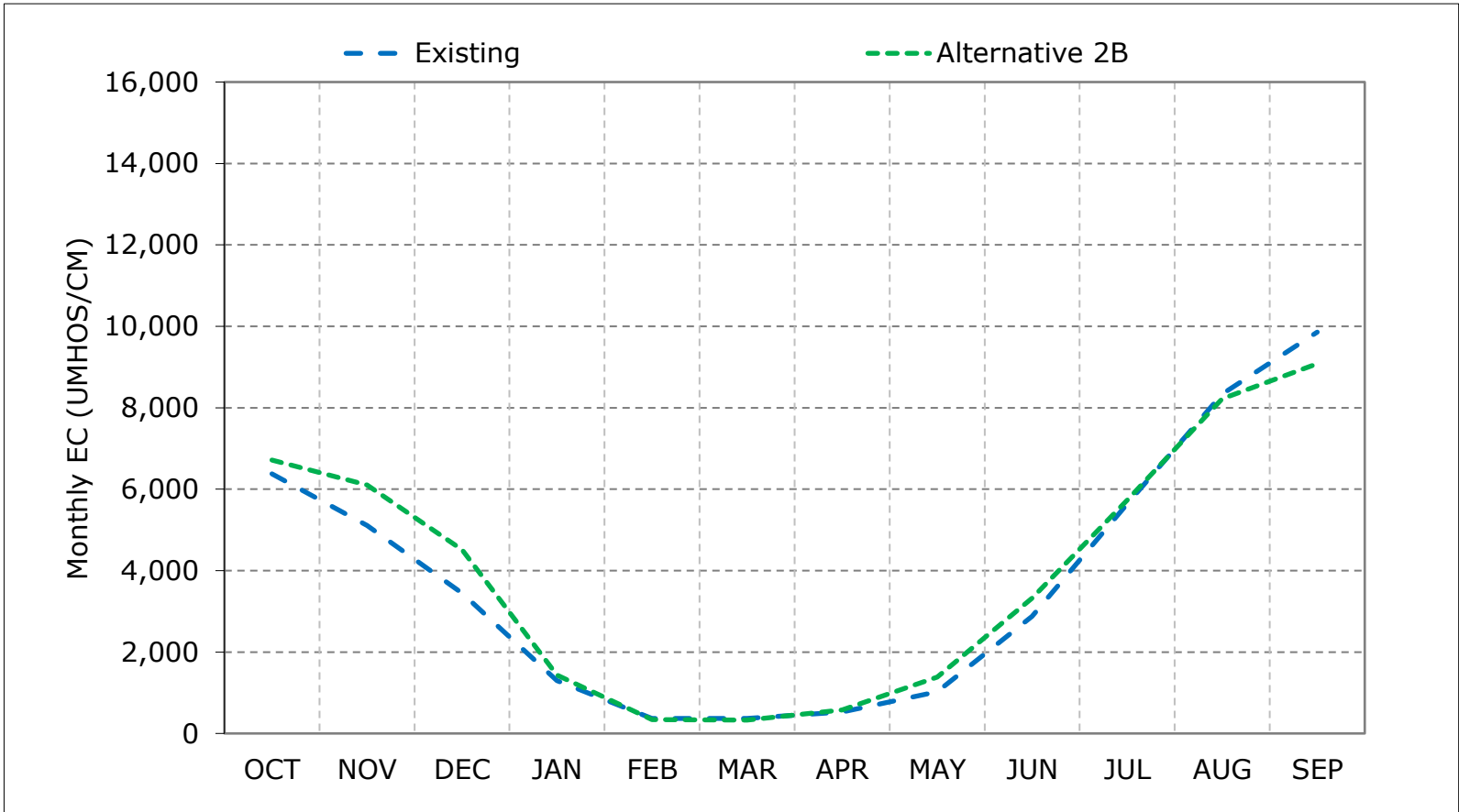


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



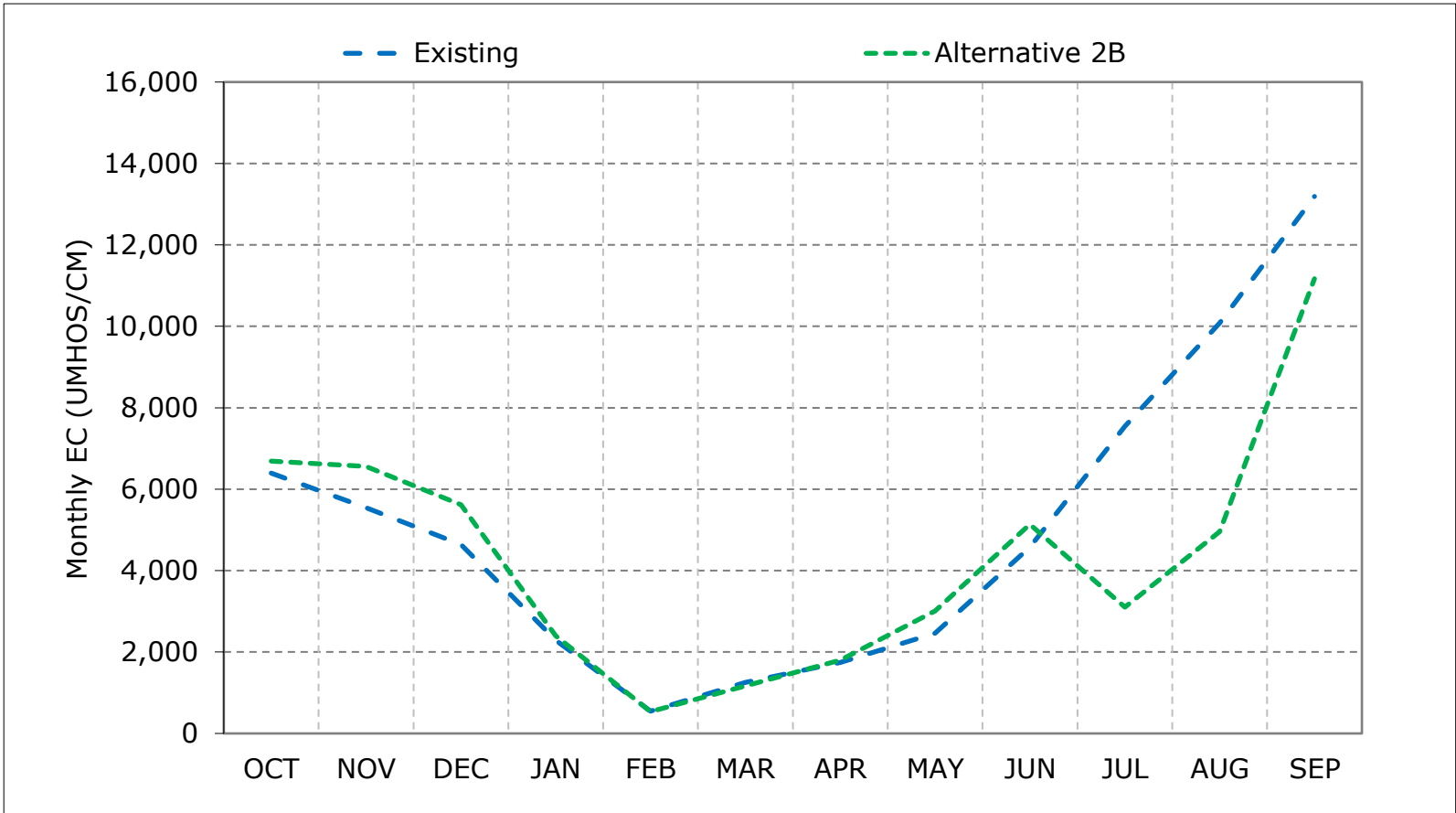
**Figure 21-3. Montezuma Slough at Beldons Landing, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

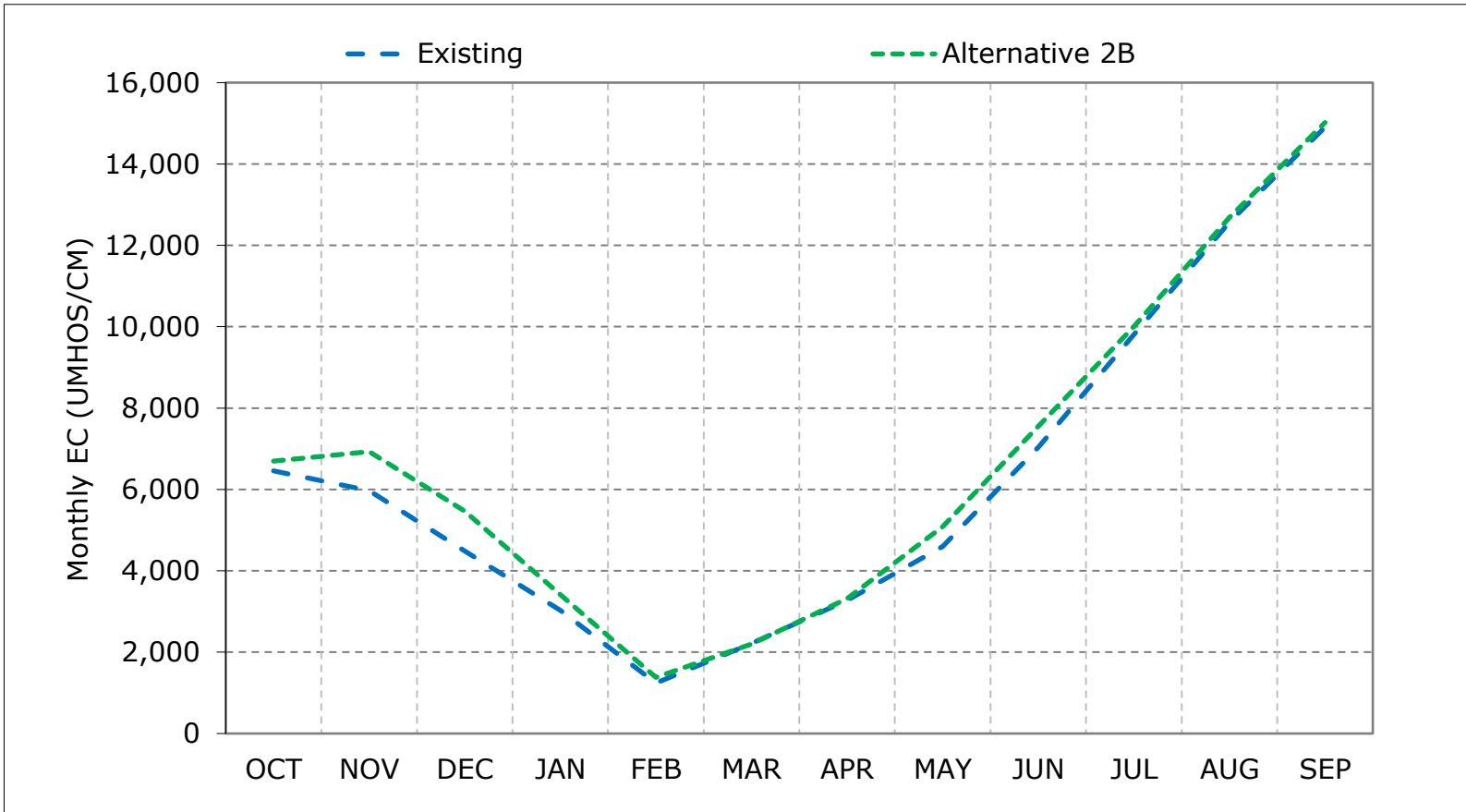
**Figure 21-4. Montezuma Slough at Beldons Landing, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

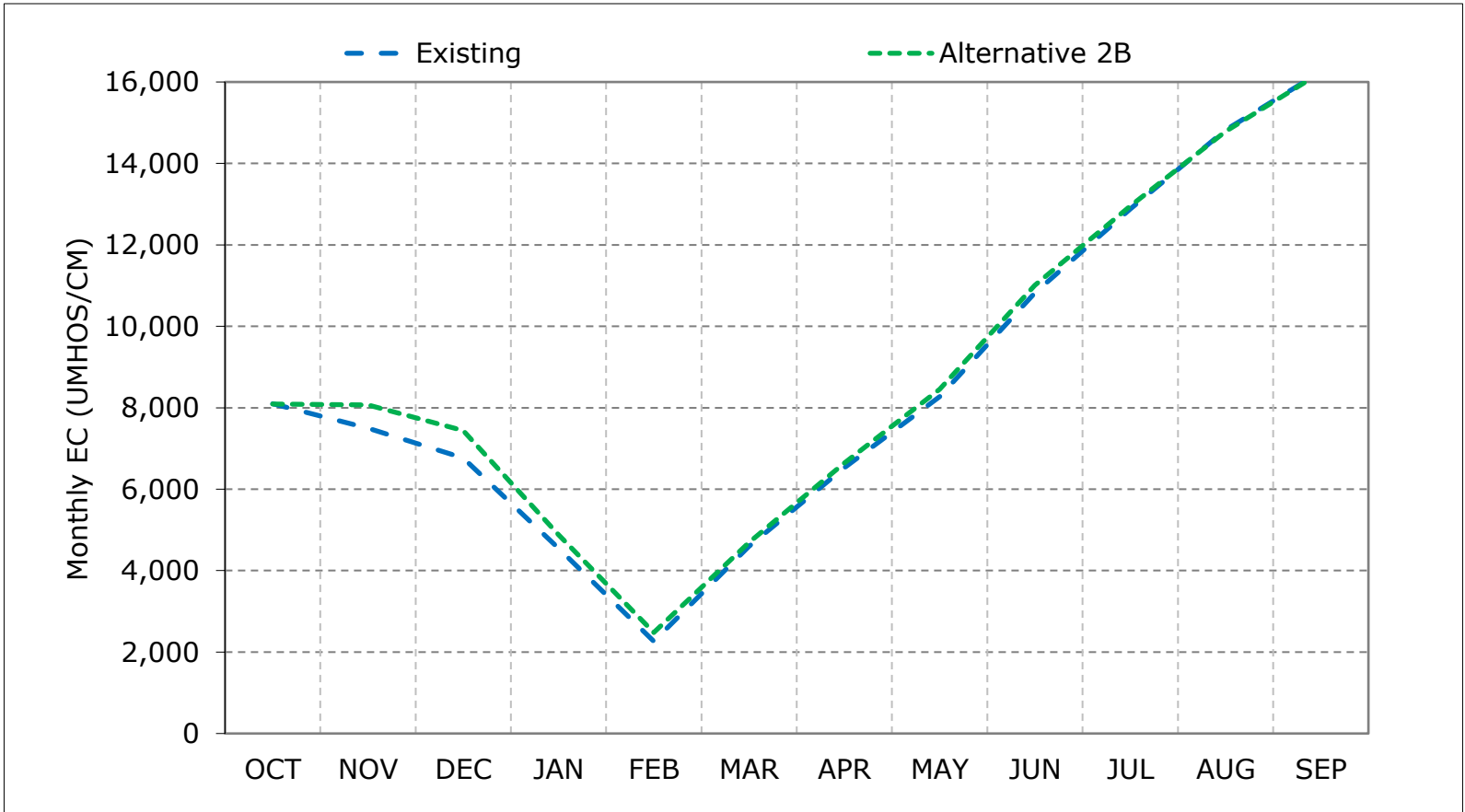
**Figure 21-5. Montezuma Slough at Beldons Landing, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 21-6. Montezuma Slough at Beldons Landing, Critical Year Average EC**



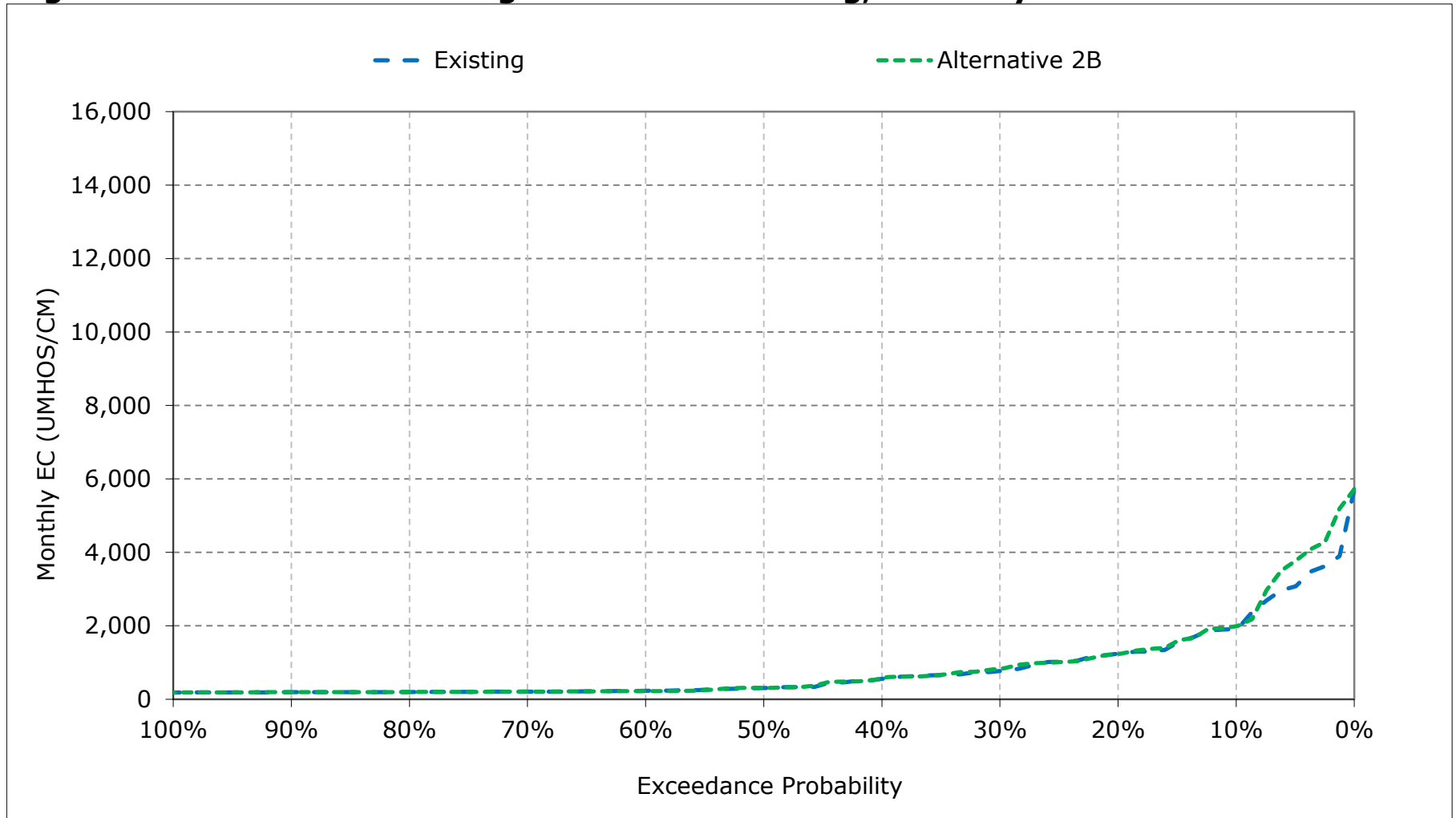
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

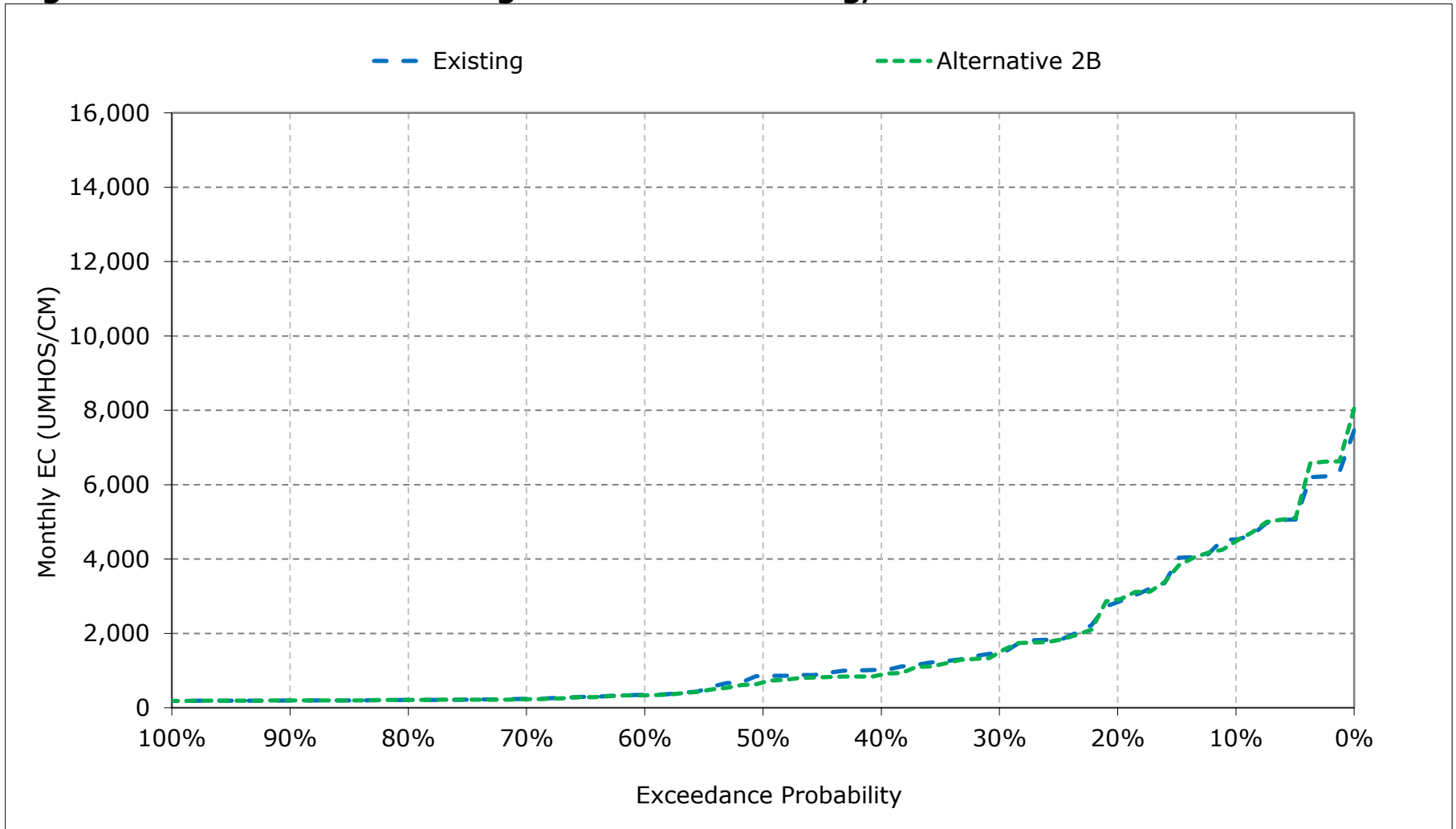
**Figure 21-7. Montezuma Slough at Beldons Landing, January EC**



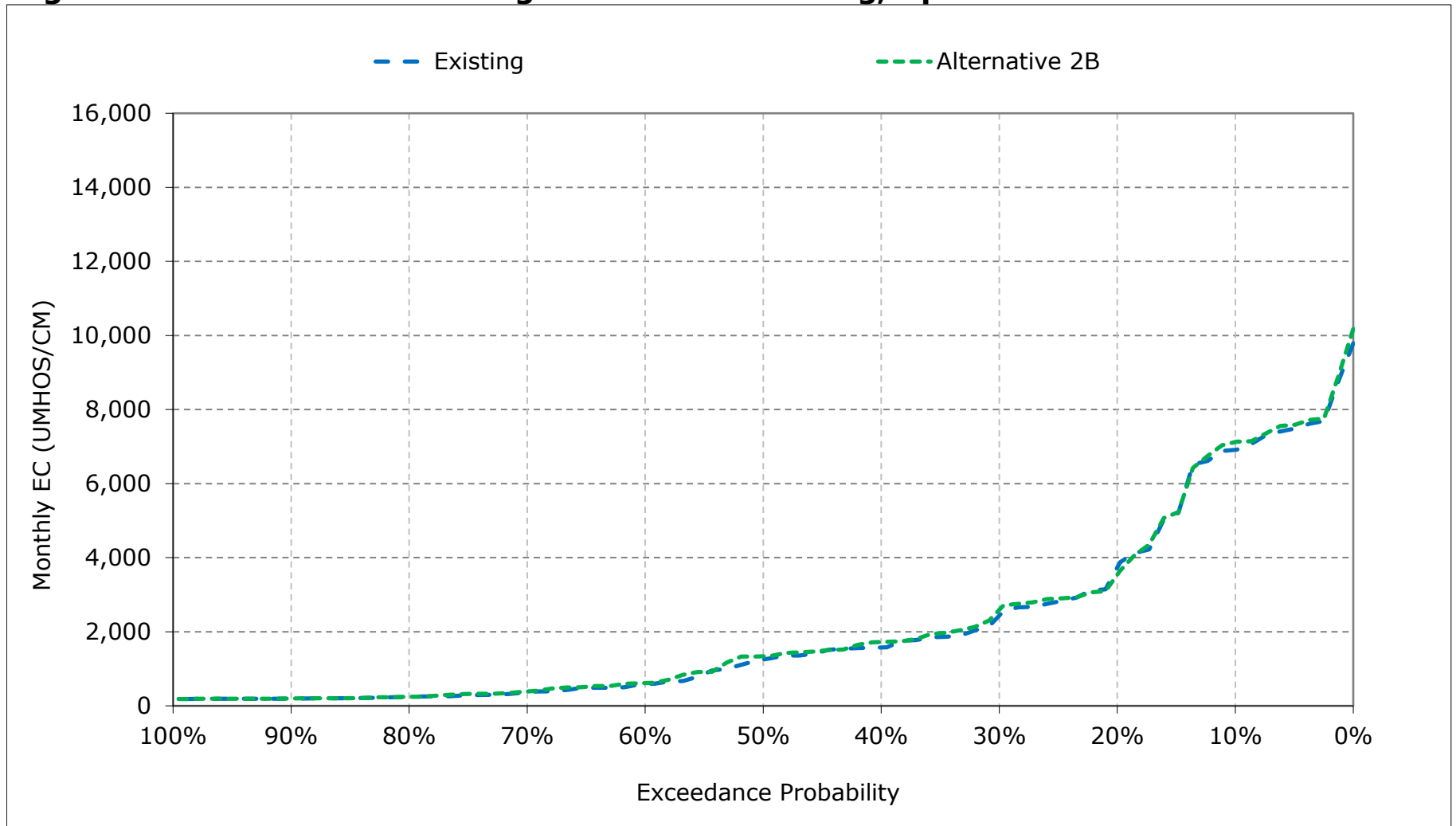
**Figure 21-8. Montezuma Slough at Beldons Landing, February EC**



**Figure 21-9. Montezuma Slough at Beldons Landing, March EC**

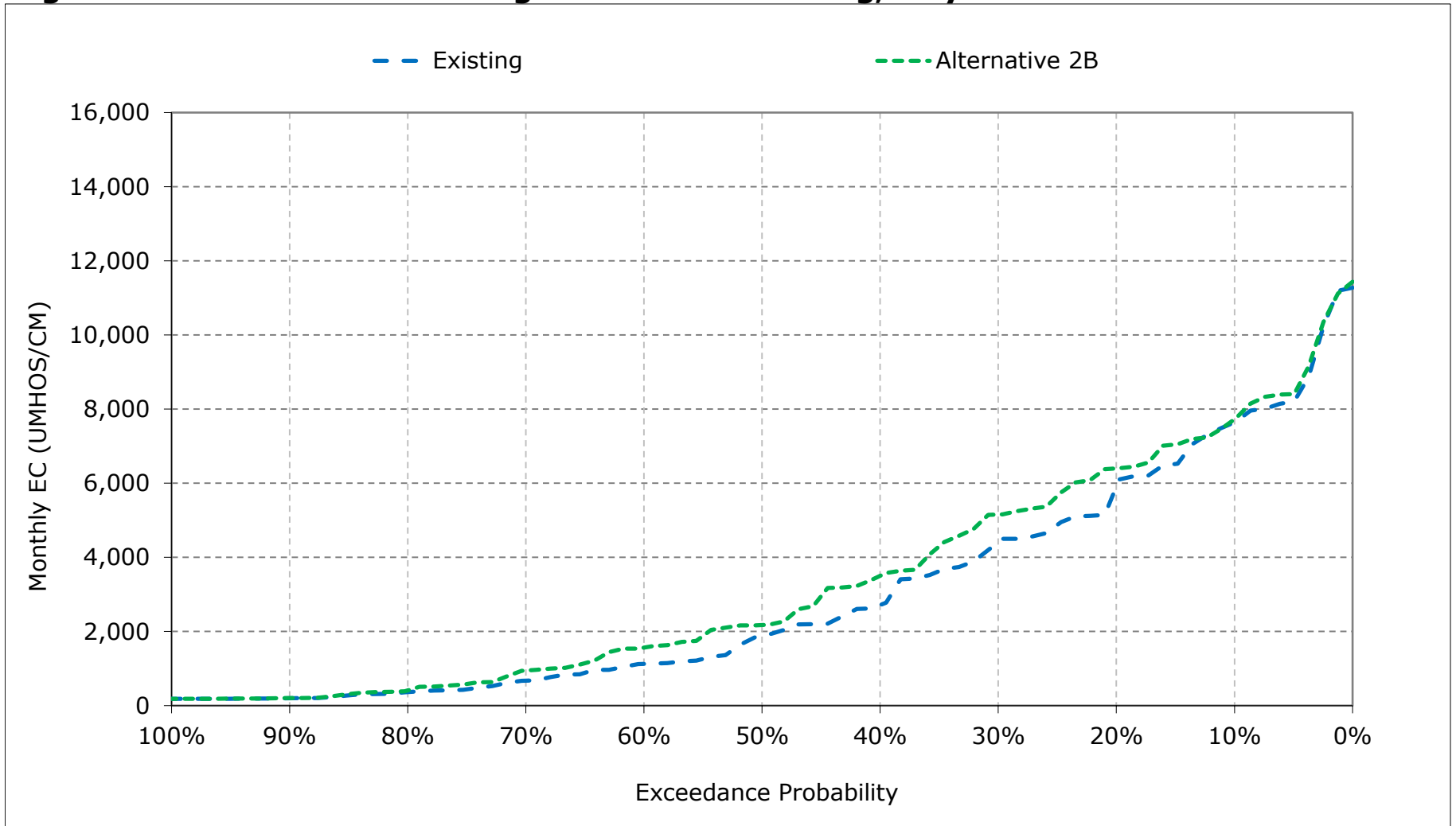


**Figure 21-10. Montezuma Slough at Beldons Landing, April EC**

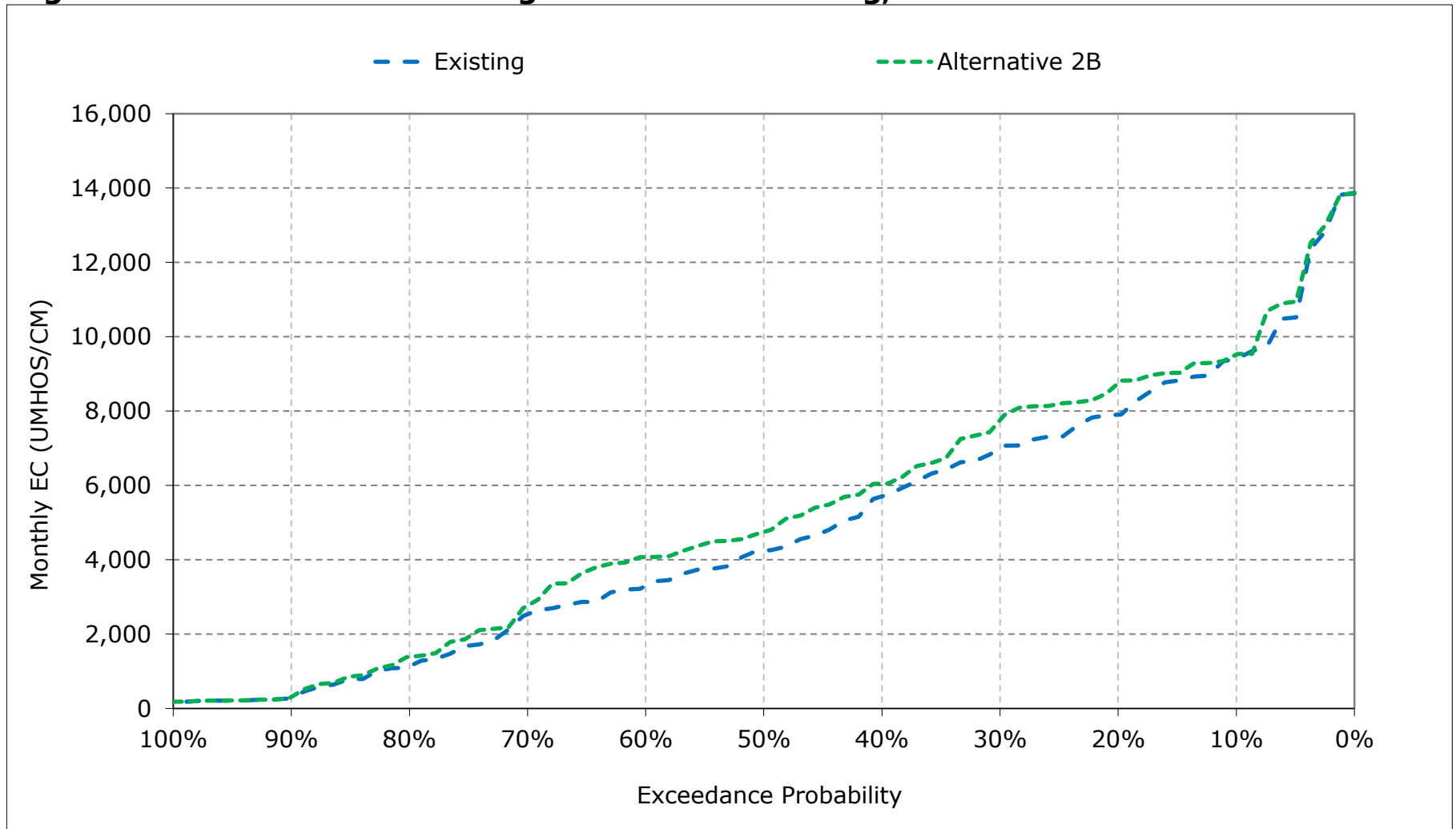




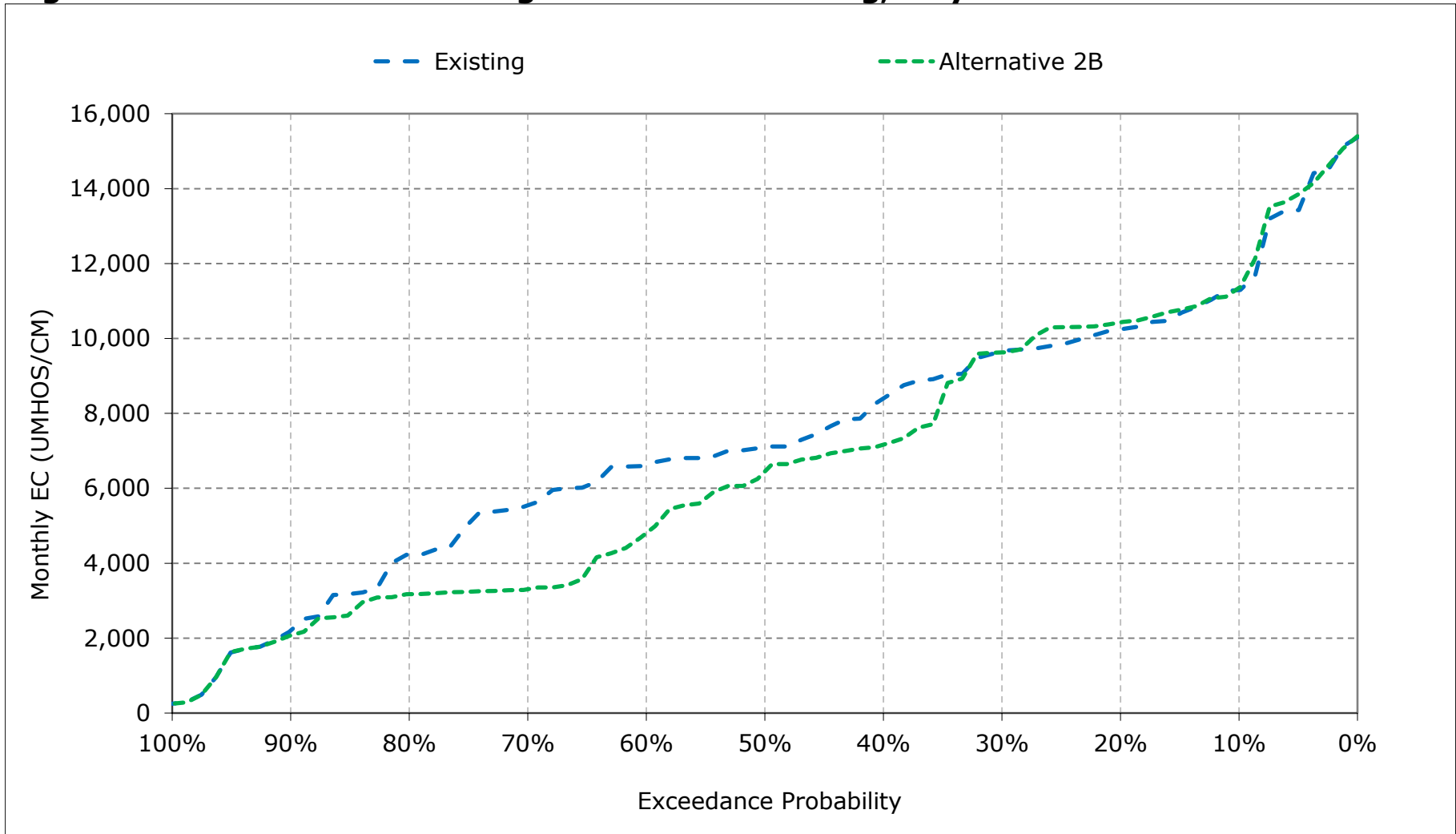
**Figure 21-11. Montezuma Slough at Beldons Landing, May EC**



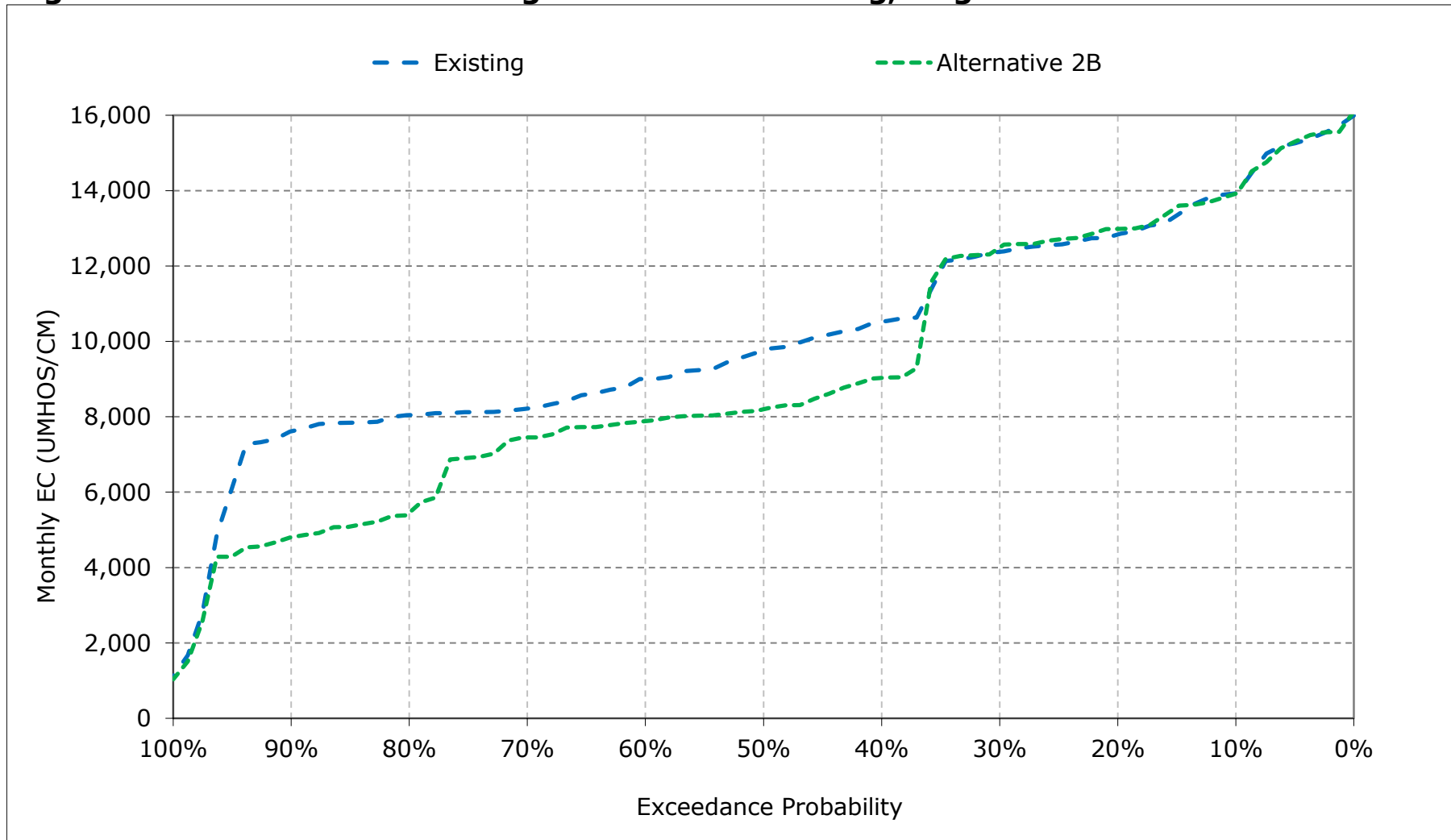
**Figure 21-12. Montezuma Slough at Beldons Landing, June EC**



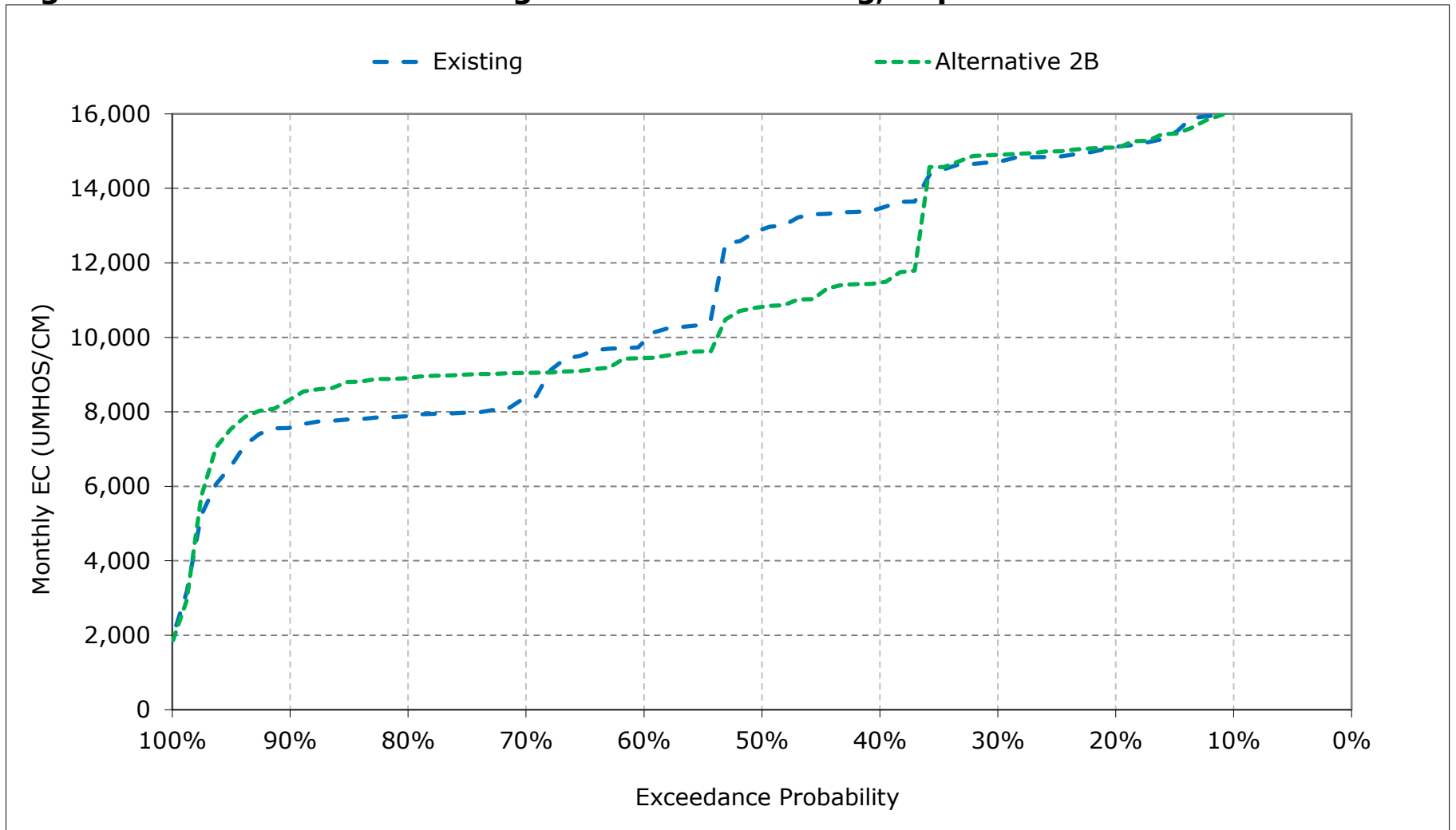
**Figure 21-13. Montezuma Slough at Beldons Landing, July EC**



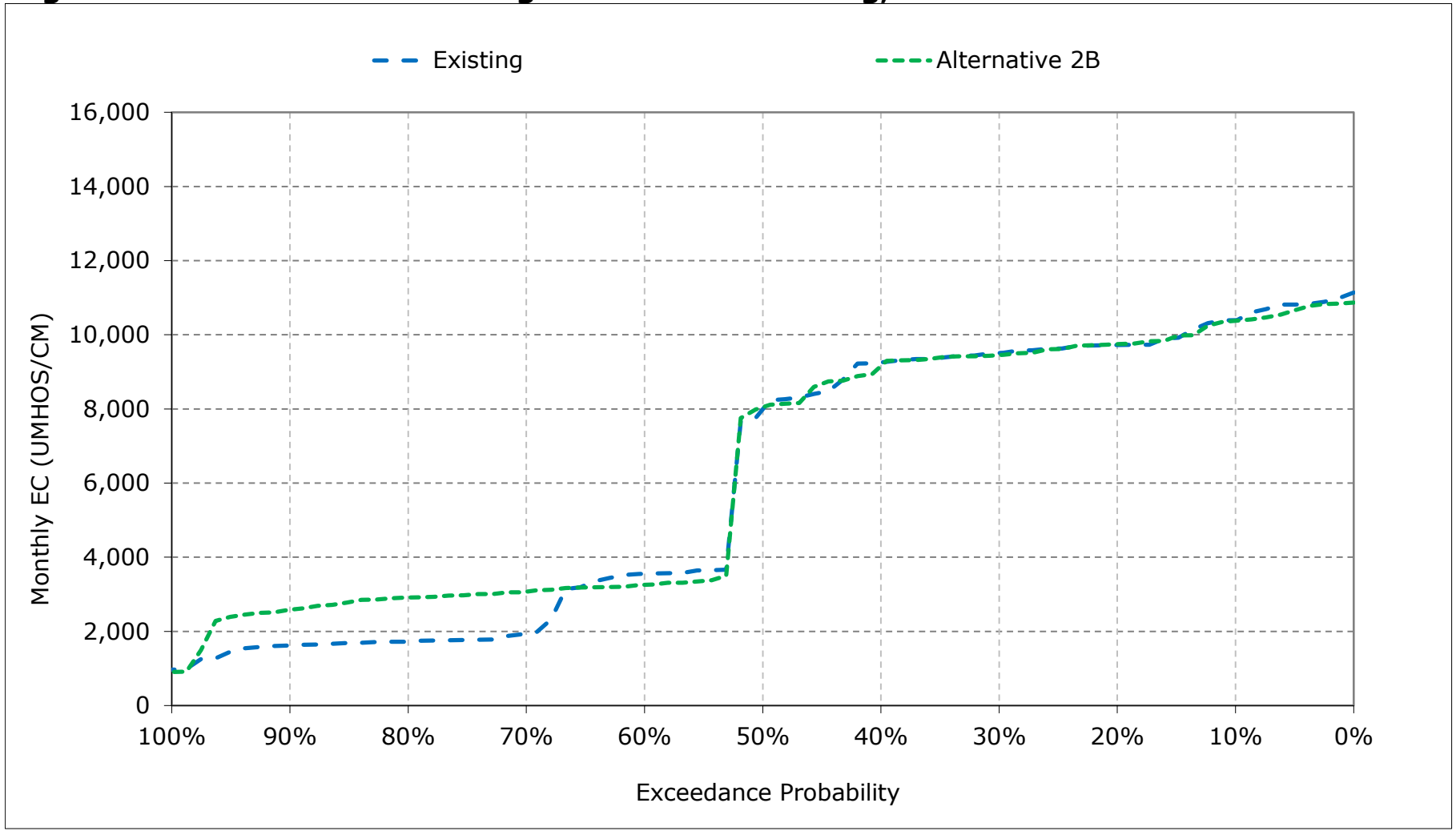
**Figure 21-14. Montezuma Slough at Beldons Landing, August EC**



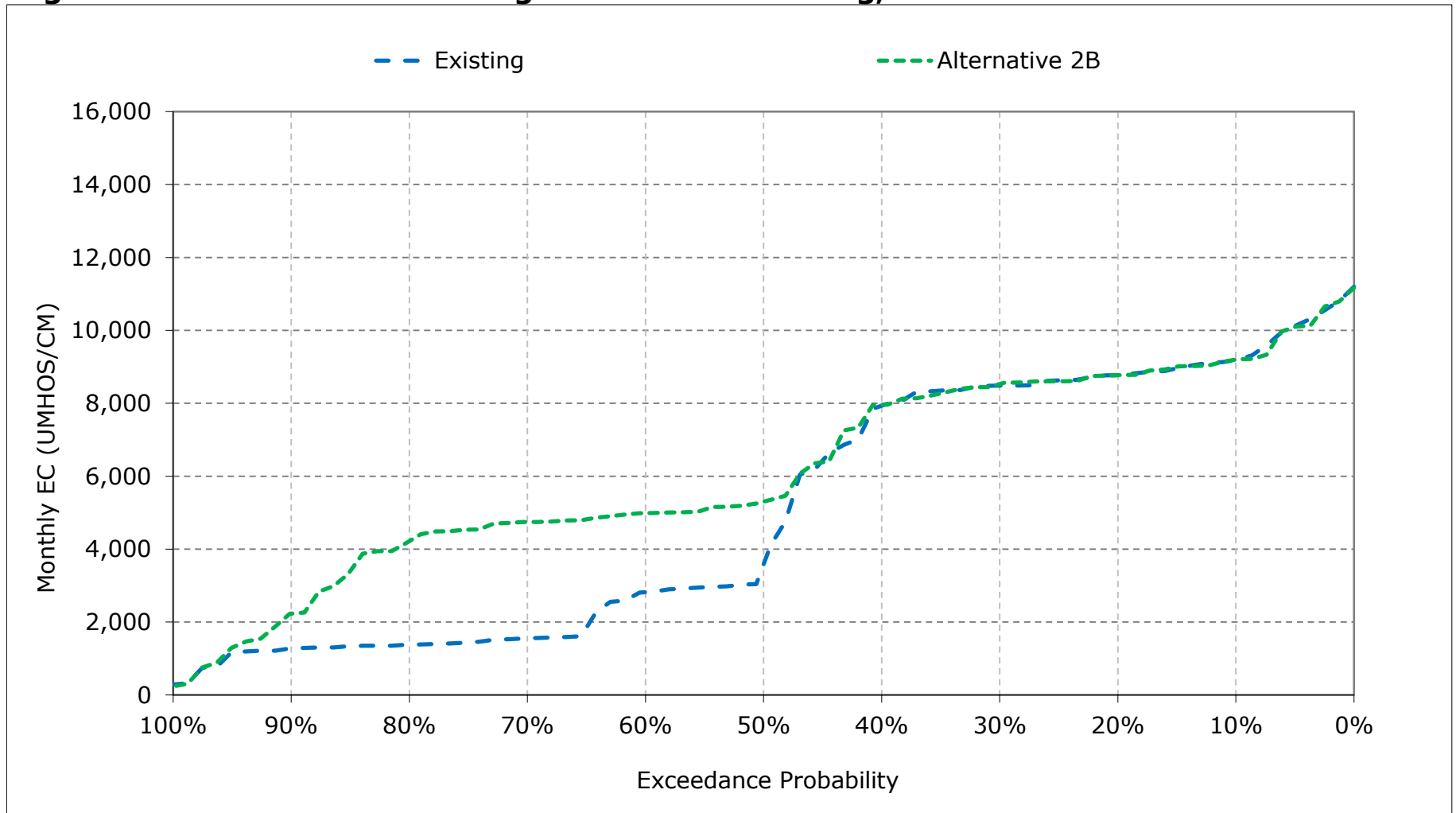
**Figure 21-15. Montezuma Slough at Beldons Landing, September EC**



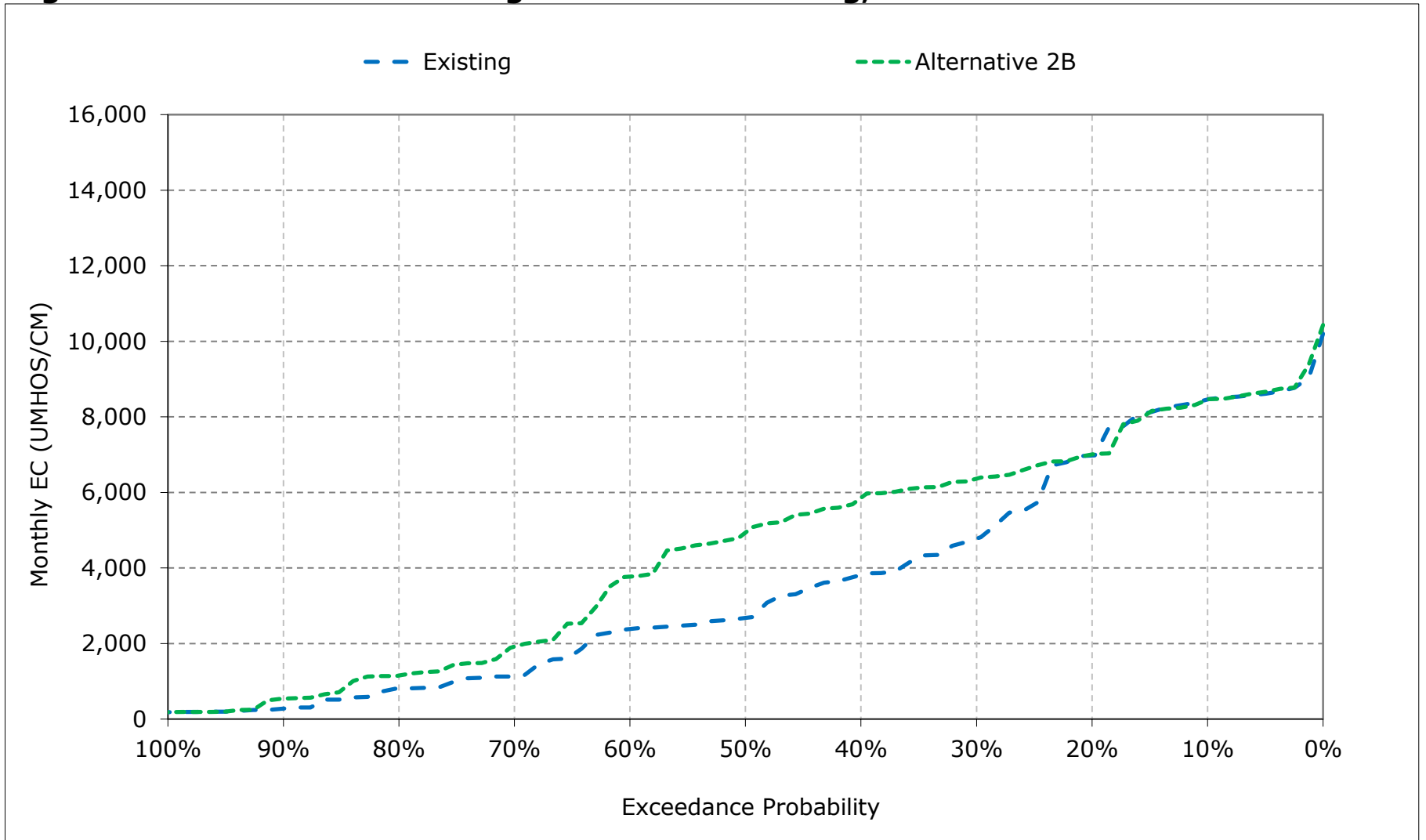
**Figure 21-16. Montezuma Slough at Beldons Landing, October EC**



**Figure 21-17. Montezuma Slough at Beldons Landing, November EC**



**Figure 21-18. Montezuma Slough at Beldons Landing, December EC**





**Table 22-1. Montezuma Slough at National Steel, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	9,954	9,125	8,457	4,653	1,816	2,545	3,804	4,644	6,213	8,195	10,808	12,703
20%	9,229	8,637	6,804	3,899	1,124	1,367	1,768	3,345	4,995	7,041	9,632	11,765
30%	9,052	8,374	4,484	2,833	652	572	901	2,305	4,418	6,564	9,202	11,431
40%	8,727	7,798	3,679	1,533	404	420	647	1,272	3,512	5,011	7,333	10,280
50%	7,640	3,102	2,891	1,212	294	314	517	795	2,474	4,376	6,703	9,444
60%	3,261	2,578	2,661	560	216	219	258	476	1,892	3,681	6,260	5,782
70%	1,713	1,418	984	234	201	197	219	317	1,279	3,211	5,581	3,969
80%	1,581	1,192	526	206	196	192	198	215	583	2,384	5,361	3,625
90%	1,454	1,079	216	194	190	188	190	191	202	1,260	5,181	3,495
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	5,761	4,915	3,553	1,861	748	792	1,141	1,755	3,112	4,810	7,313	7,990
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	4,322	2,914	1,051	377	206	212	243	368	902	2,087	4,915	3,315
Above Normal (15%)	6,040	4,890	3,344	1,082	327	225	276	462	1,698	3,150	5,651	5,655
Below Normal (17%)	6,054	5,358	4,640	1,977	471	564	734	1,238	2,758	4,649	7,004	9,832
Dry (22%)	6,143	5,820	4,349	2,849	1,103	1,044	1,594	2,553	4,454	6,716	9,368	11,615
Critical (15%)	7,687	7,403	6,723	4,237	2,133	2,501	3,744	5,458	7,717	9,698	11,446	12,866

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	9,831	9,060	8,396	5,521	1,836	2,510	3,940	4,753	6,356	8,327	10,807	12,564
20%	9,291	8,714	6,789	4,373	1,152	1,398	1,757	3,870	5,539	7,230	9,736	11,789
30%	9,041	8,493	6,337	3,167	672	562	1,028	2,820	4,734	6,505	9,295	11,612
40%	8,727	7,891	5,636	1,681	400	361	693	1,687	3,886	4,018	5,967	9,292
50%	7,712	5,471	4,505	1,125	308	289	562	998	2,825	3,623	5,556	8,352
60%	3,026	5,137	3,381	556	216	218	283	677	2,269	3,167	5,221	5,174
70%	2,860	4,874	1,419	238	202	196	225	376	1,372	2,862	5,102	4,885
80%	2,652	4,180	777	203	196	192	199	218	608	2,321	4,941	4,745
90%	2,372	1,795	335	194	190	189	188	185	203	1,265	4,541	4,475
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	6,006	6,080	4,257	2,020	790	791	1,172	1,946	3,335	4,593	6,846	8,035
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	4,650	4,417	1,449	376	203	209	258	465	1,075	2,192	4,464	4,336
Above Normal (15%)	6,349	6,000	4,321	1,183	289	216	293	616	1,887	3,235	5,323	4,853
Below Normal (17%)	6,343	6,478	5,535	2,039	457	531	772	1,538	3,027	2,922	5,290	8,762
Dry (22%)	6,376	6,886	5,238	3,226	1,217	1,038	1,631	2,868	4,781	6,852	9,479	11,725
Critical (15%)	7,656	8,088	7,316	4,590	2,313	2,562	3,811	5,579	7,870	9,719	11,396	12,847

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-123	-65	-61	<b>868</b>	<b>20</b>	-34	<b>136</b>	<b>109</b>	<b>144</b>	<b>132</b>	-1	-139
20%	<b>62</b>	<b>77</b>	-15	<b>474</b>	<b>28</b>	<b>31</b>	-11	<b>524</b>	<b>543</b>	<b>188</b>	<b>105</b>	<b>24</b>
30%	-11	<b>119</b>	<b>1,853</b>	<b>334</b>	<b>20</b>	-11	<b>127</b>	<b>515</b>	<b>316</b>	-60	<b>93</b>	<b>180</b>
40%	<b>0</b>	<b>93</b>	<b>1,957</b>	<b>149</b>	-3	-59	<b>46</b>	<b>416</b>	<b>374</b>	-993	-1,366	-988
50%	<b>72</b>	<b>2,369</b>	<b>1,615</b>	-86	<b>13</b>	-25	<b>45</b>	<b>202</b>	<b>351</b>	-753	-1,148	-1,091
60%	-235	<b>2,560</b>	<b>721</b>	-4	0	-1	<b>25</b>	<b>200</b>	<b>377</b>	-514	-1,039	-608
70%	<b>1,147</b>	<b>3,456</b>	<b>435</b>	<b>4</b>	<b>1</b>	-1	<b>6</b>	<b>60</b>	<b>93</b>	-348	-480	<b>916</b>
80%	<b>1,071</b>	<b>2,988</b>	<b>251</b>	-3	<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>24</b>	-64	-420	<b>1,120</b>
90%	<b>918</b>	<b>715</b>	<b>119</b>	<b>0</b>	<b>0</b>	<b>0</b>	-2	-6	<b>1</b>	<b>5</b>	-640	<b>981</b>
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	<b>245</b>	<b>1,164</b>	<b>704</b>	<b>160</b>	<b>42</b>	0	<b>31</b>	<b>191</b>	<b>223</b>	-216	-467	<b>45</b>
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	<b>328</b>	<b>1,503</b>	<b>398</b>	-1	-3	-3	<b>15</b>	<b>97</b>	<b>174</b>	<b>105</b>	-451	<b>1,021</b>
Above Normal (15%)	<b>310</b>	<b>1,110</b>	<b>977</b>	<b>102</b>	-38	-9	<b>17</b>	<b>154</b>	<b>189</b>	<b>84</b>	-328	-801
Below Normal (17%)	<b>288</b>	<b>1,120</b>	<b>895</b>	<b>62</b>	-14	-33	<b>37</b>	<b>299</b>	<b>269</b>	-1,728	-1,714	-1,070
Dry (22%)	<b>233</b>	<b>1,066</b>	<b>889</b>	<b>377</b>	<b>113</b>	-6	<b>37</b>	<b>315</b>	<b>327</b>	<b>136</b>	<b>111</b>	<b>110</b>
Critical (15%)	-31	<b>685</b>	<b>592</b>	<b>353</b>	<b>180</b>	<b>62</b>	<b>66</b>	<b>121</b>	<b>153</b>	<b>21</b>	-51	-19

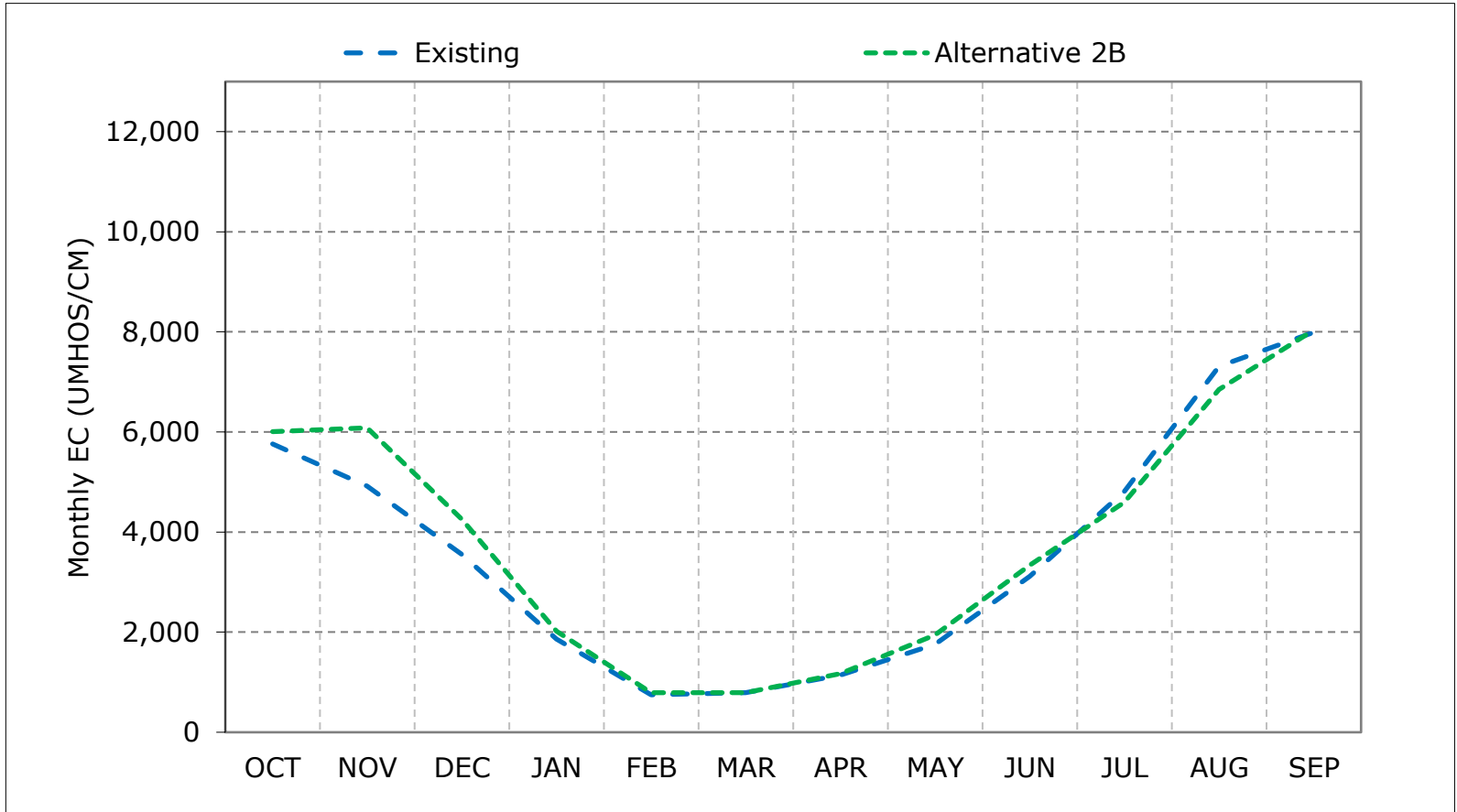
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

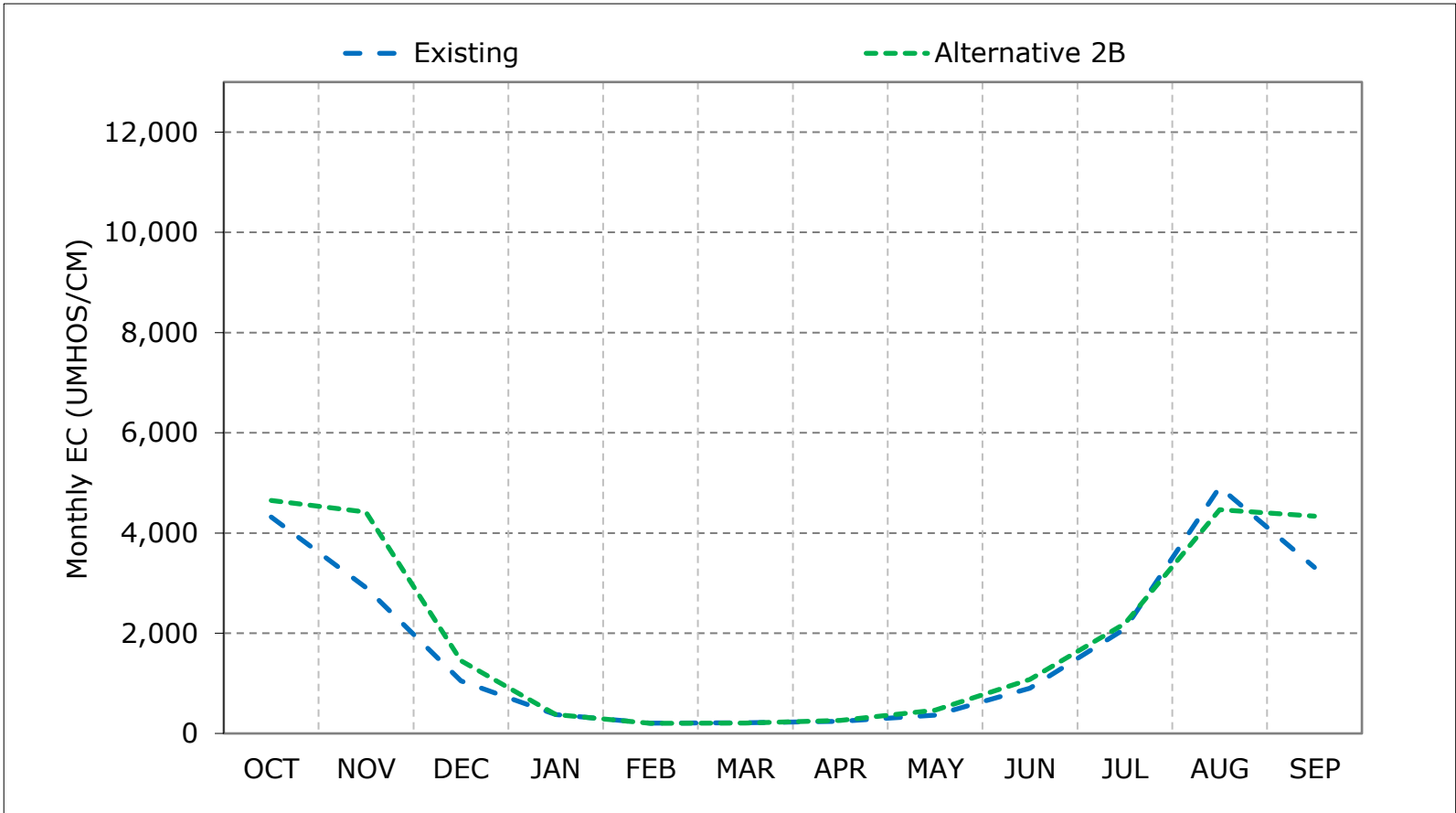
**Figure 22-1. Montezuma Slough at National Steel, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

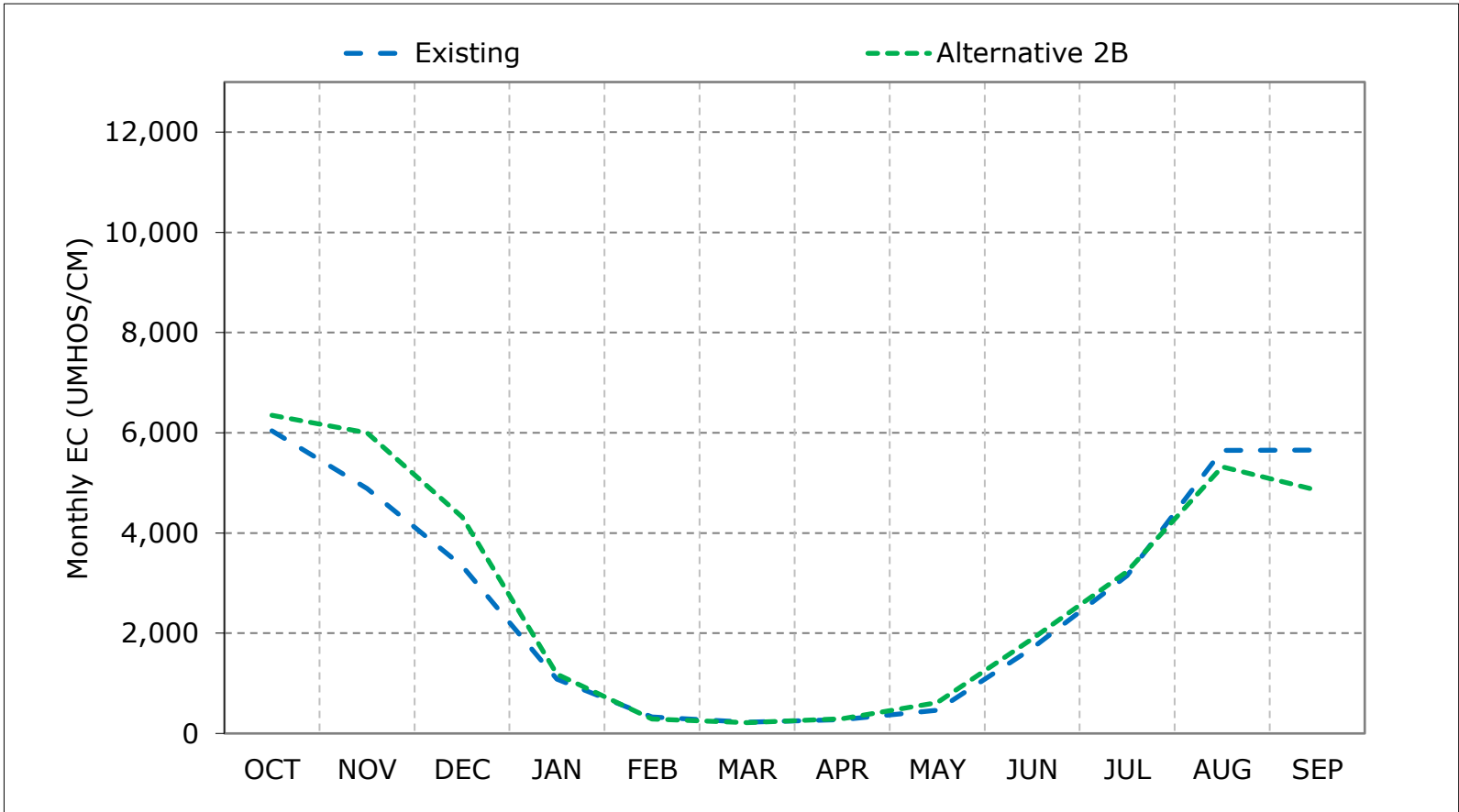
**Figure 22-2. Montezuma Slough at National Steel, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

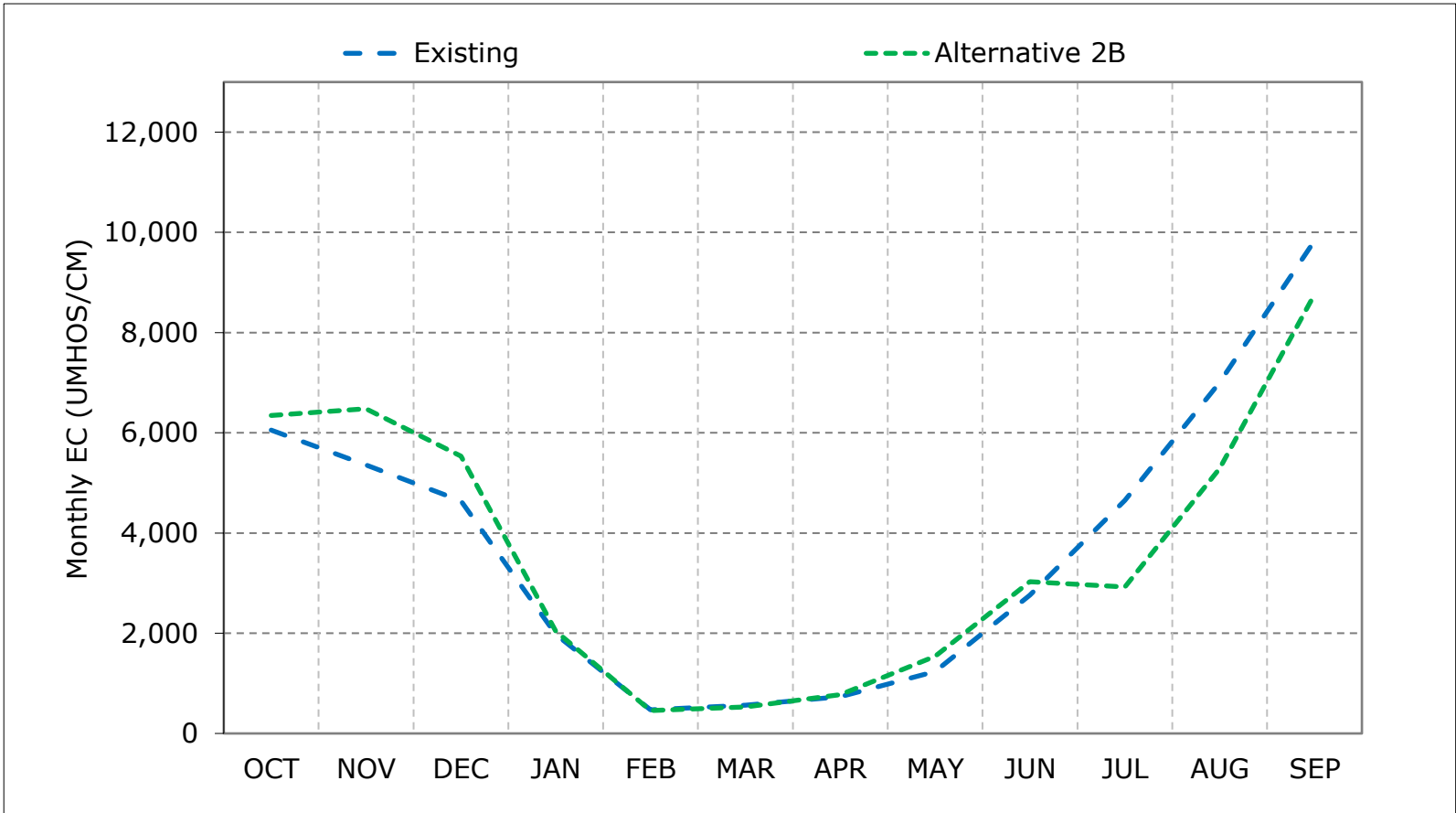
**Figure 22-3. Montezuma Slough at National Steel, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

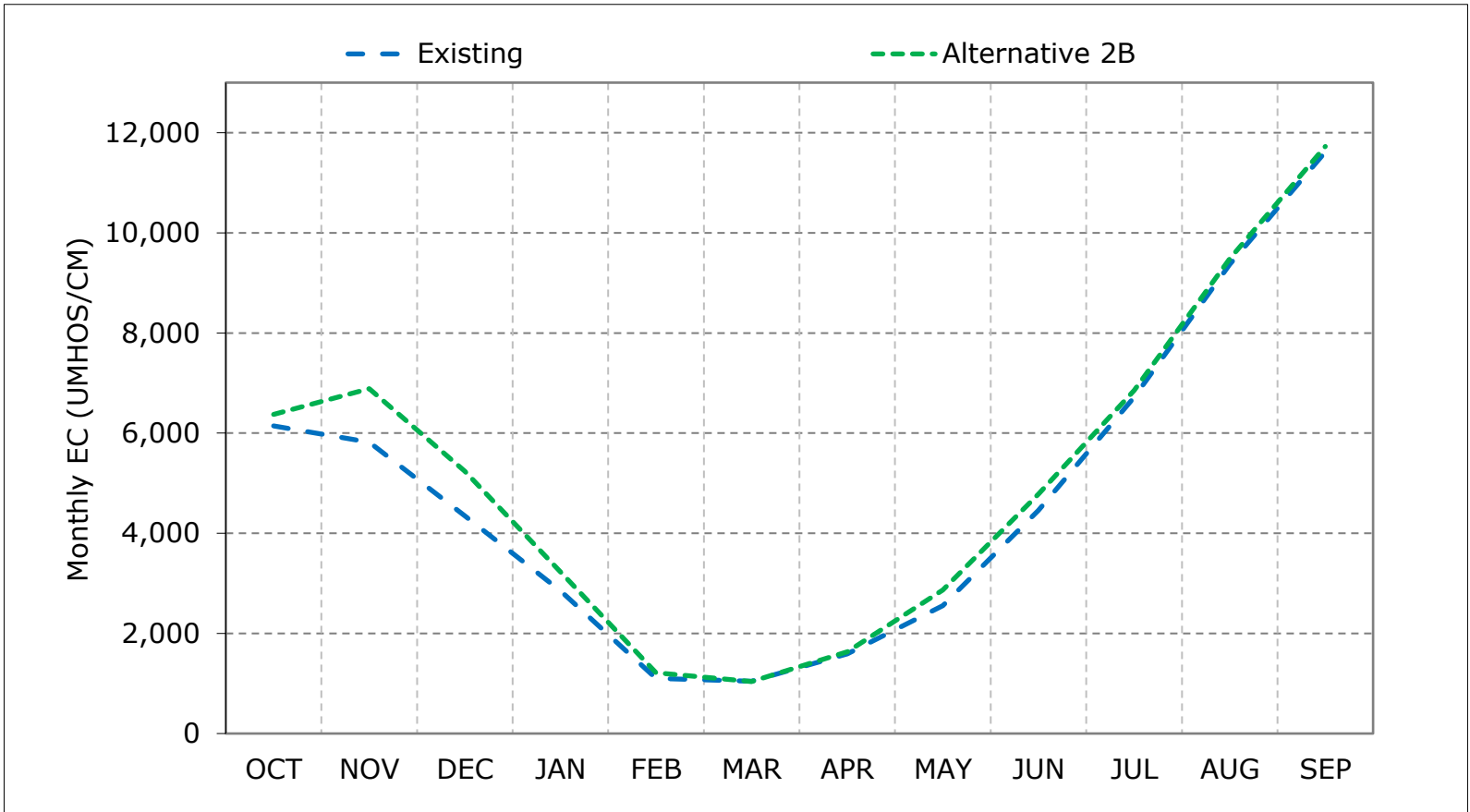
**Figure 22-4. Montezuma Slough at National Steel, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

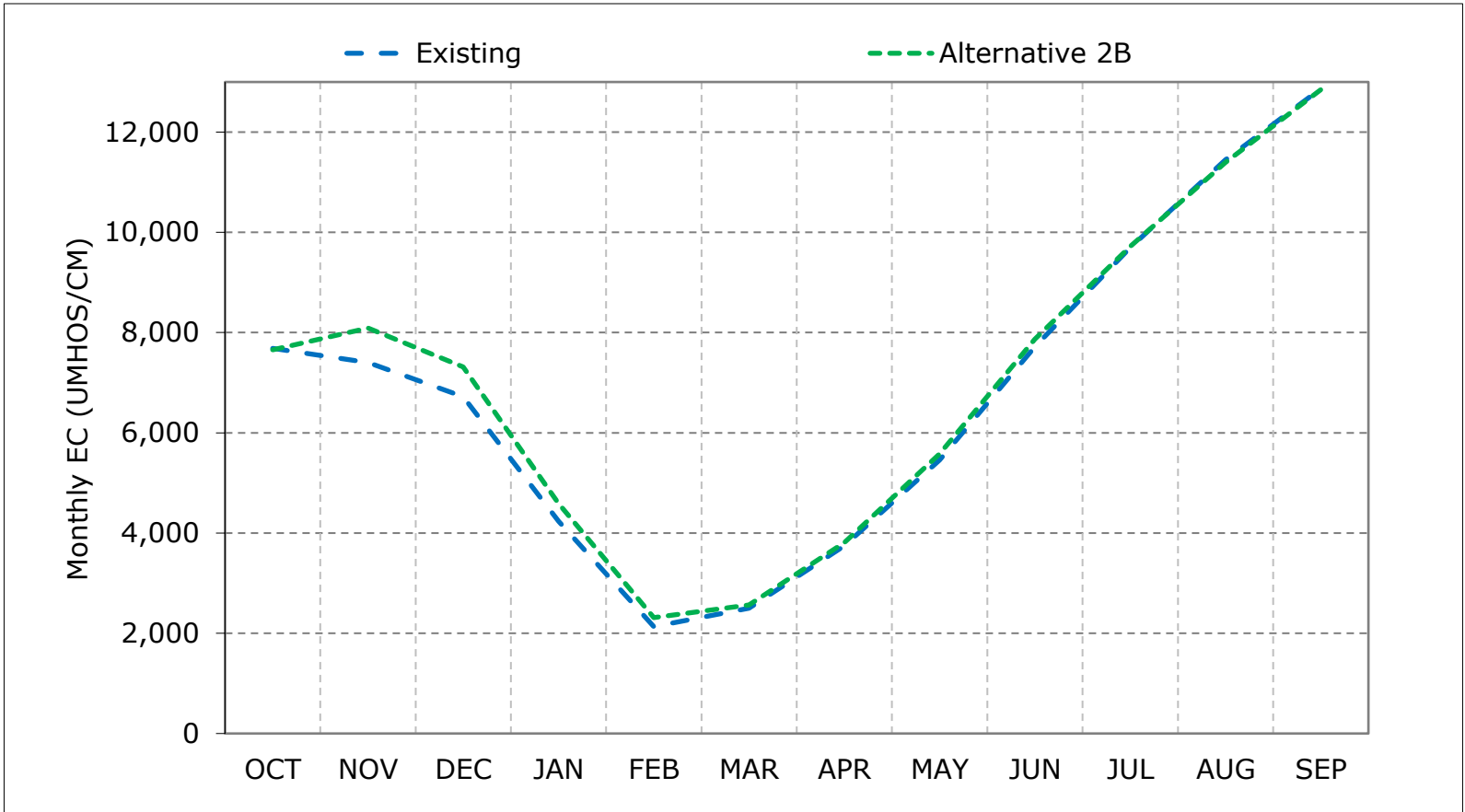
**Figure 22-5. Montezuma Slough at National Steel, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

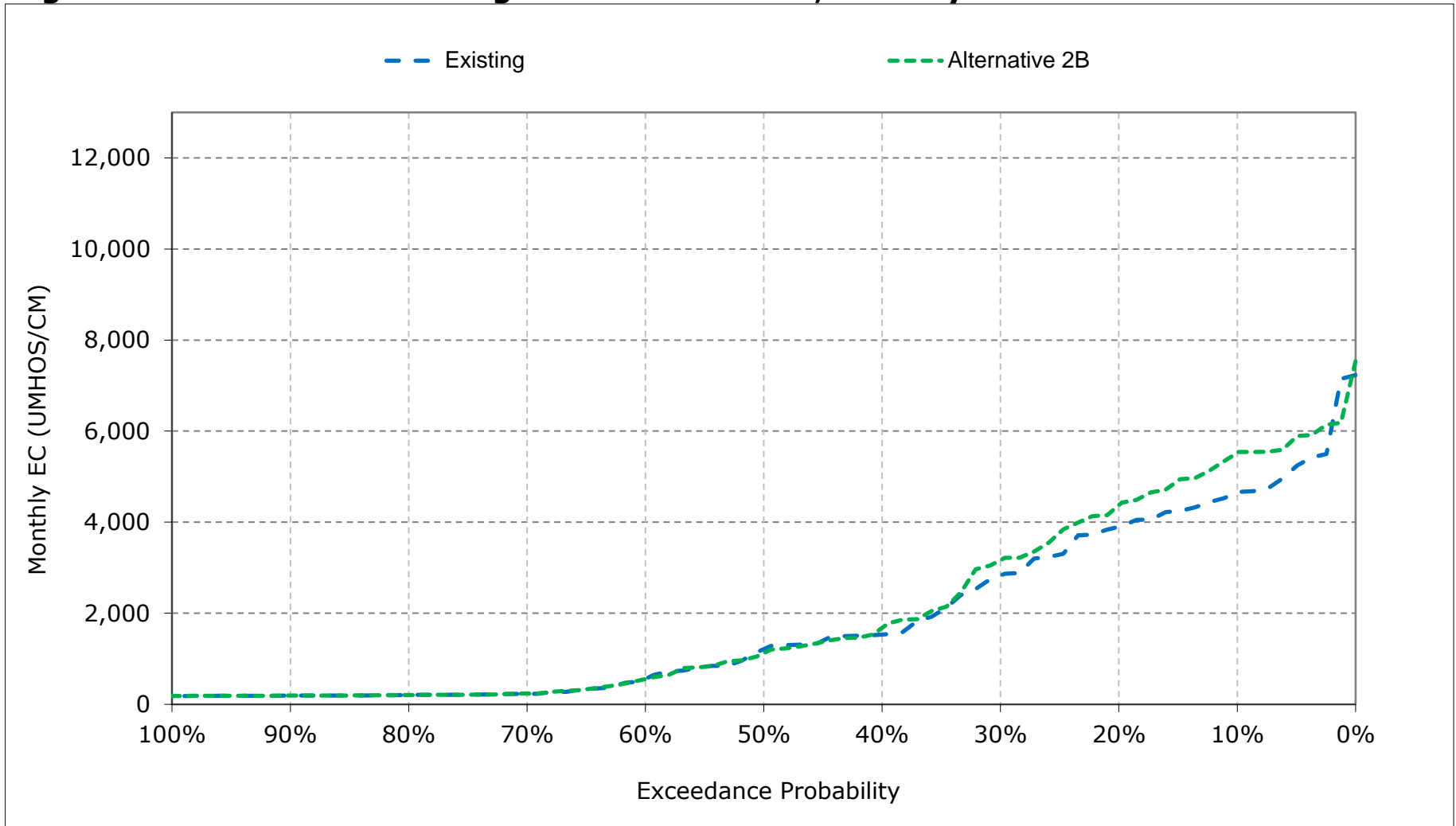
**Figure 22-6. Montezuma Slough at National Steel, Critical Year Average EC**



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

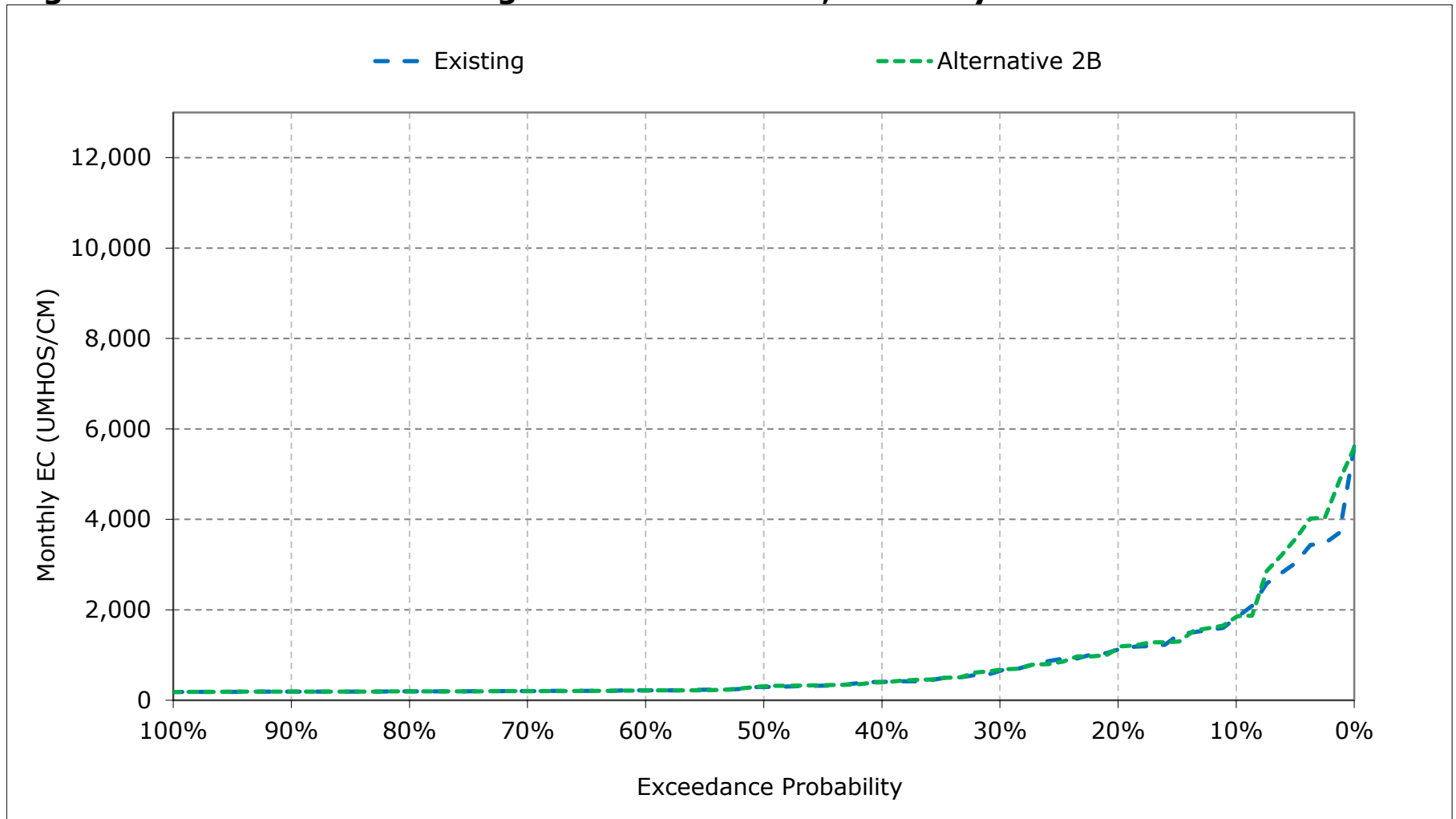
\*These results are displayed with water year - year type sorting.

**Figure 22-7. Montezuma Slough at National Steel, January EC**

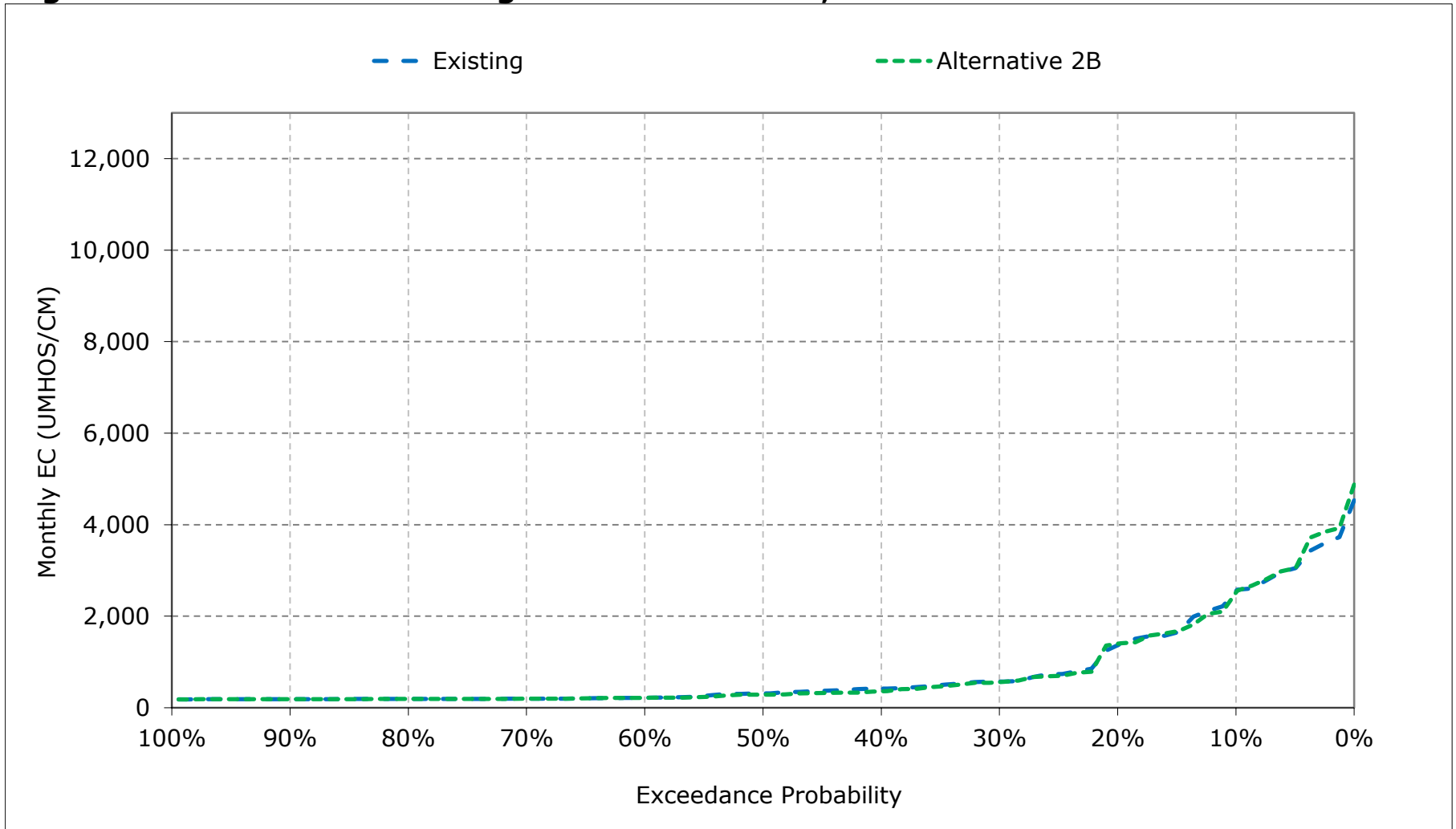




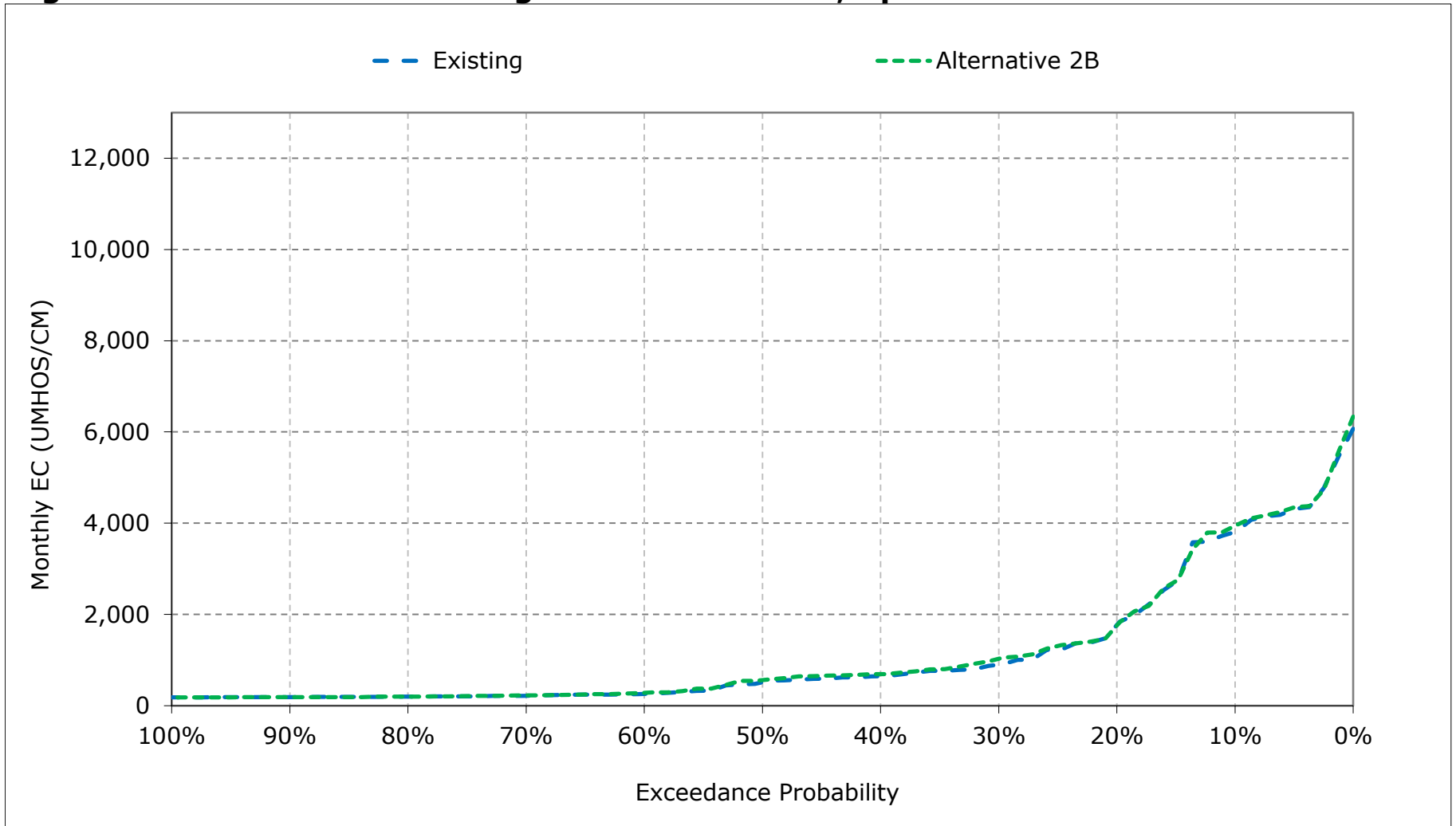
**Figure 22-8. Montezuma Slough at National Steel, February EC**



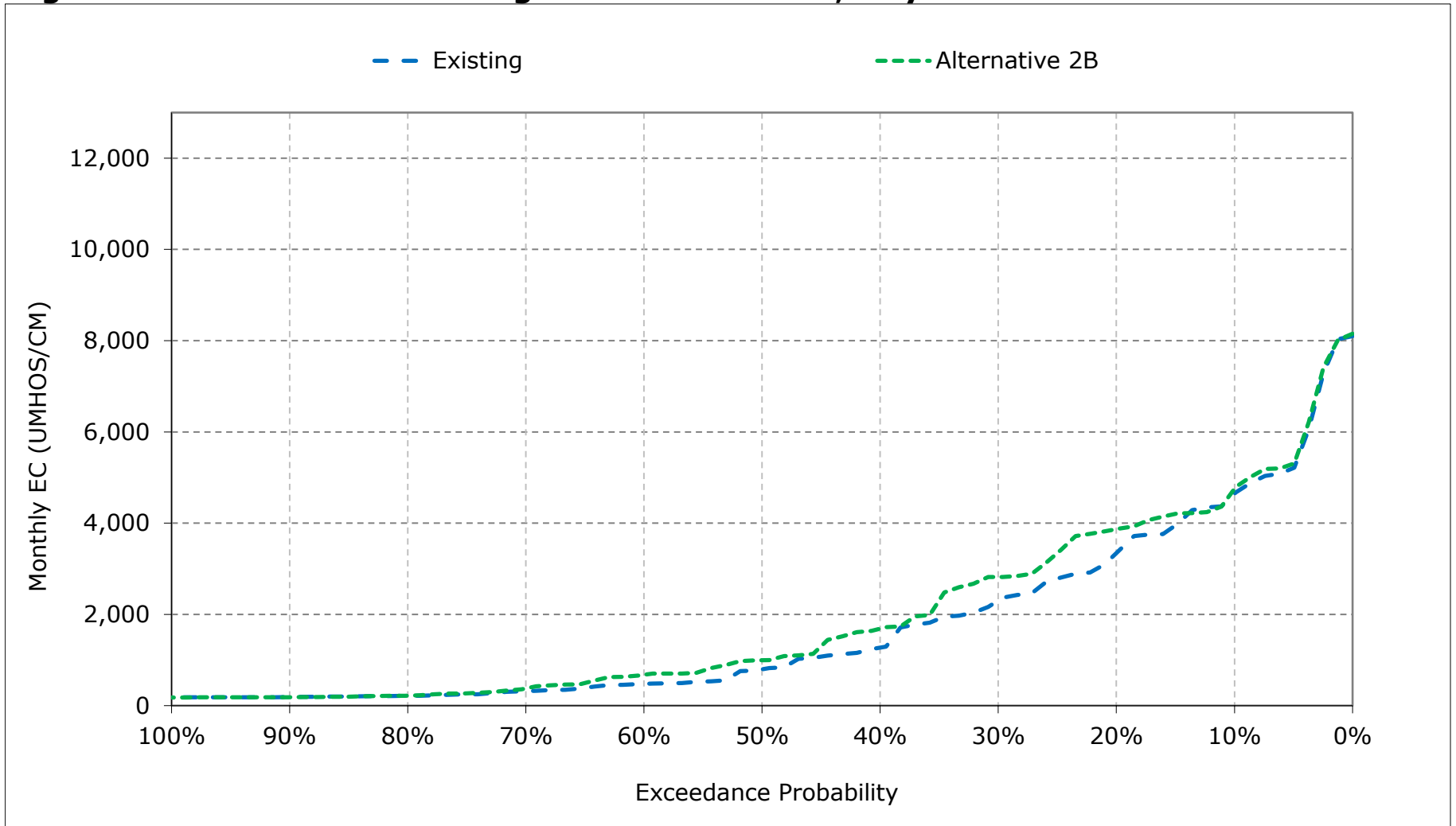
**Figure 22-9. Montezuma Slough at National Steel, March EC**



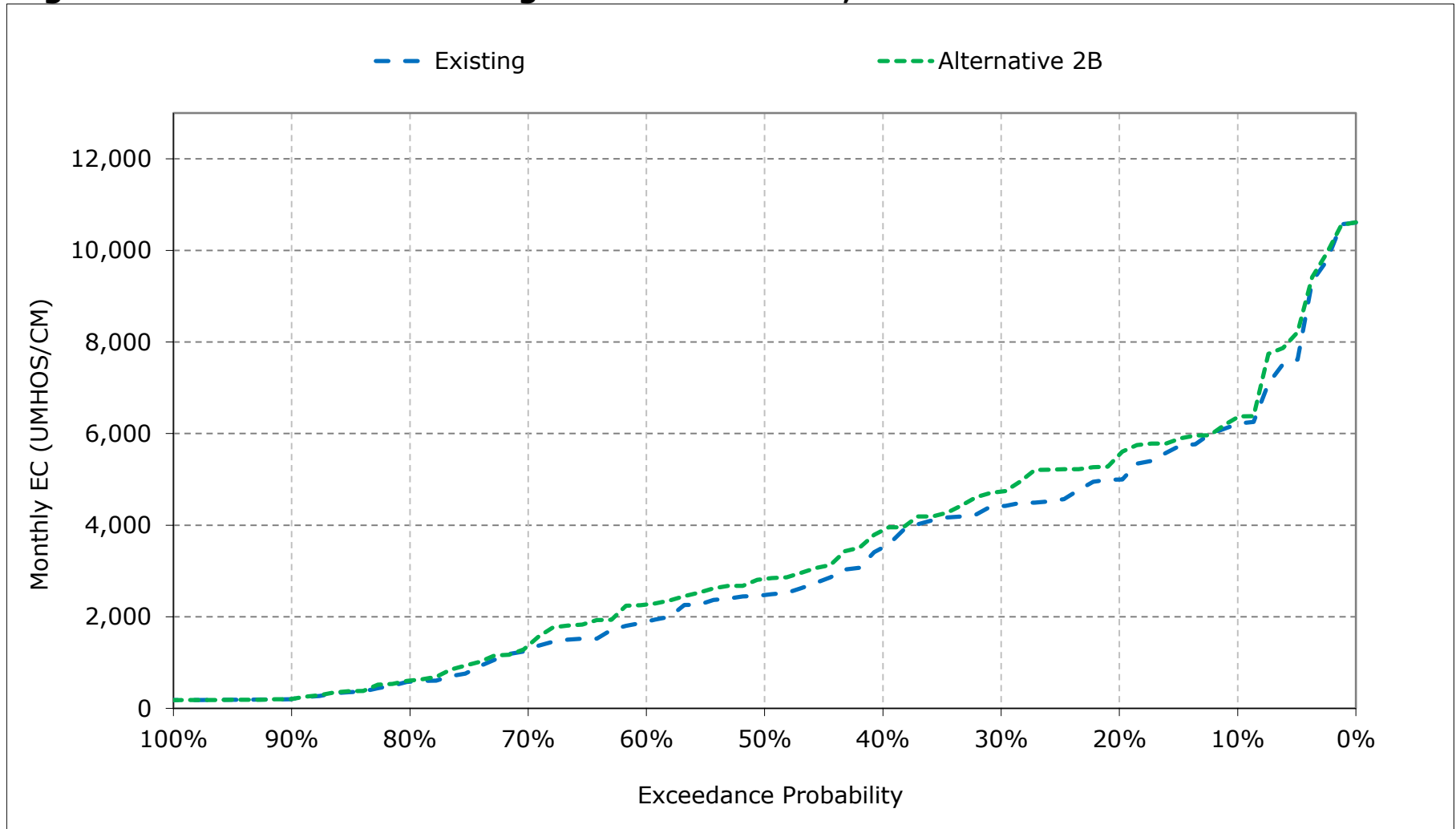
**Figure 22-10. Montezuma Slough at National Steel, April EC**



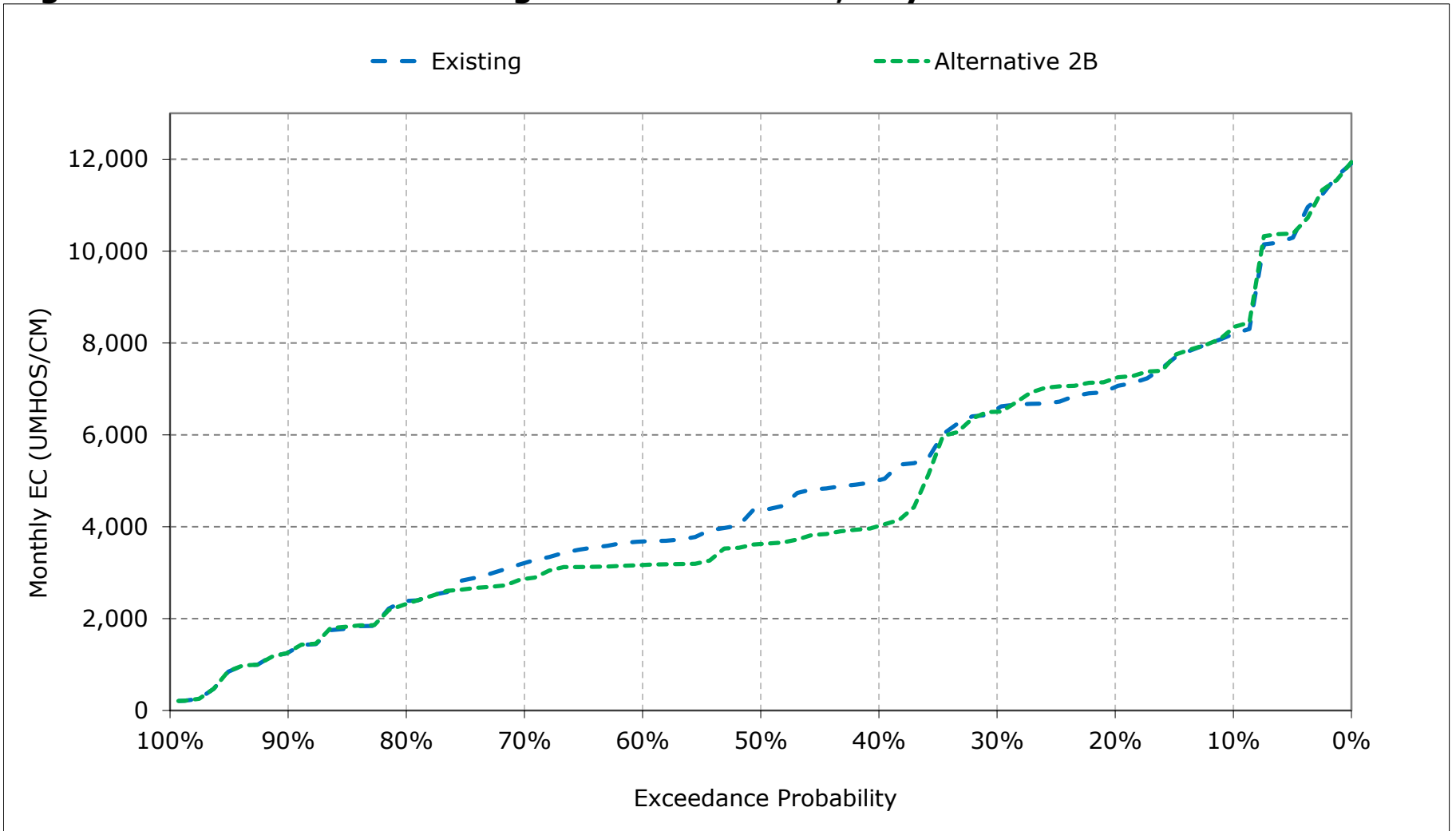
**Figure 22-11. Montezuma Slough at National Steel, May EC**



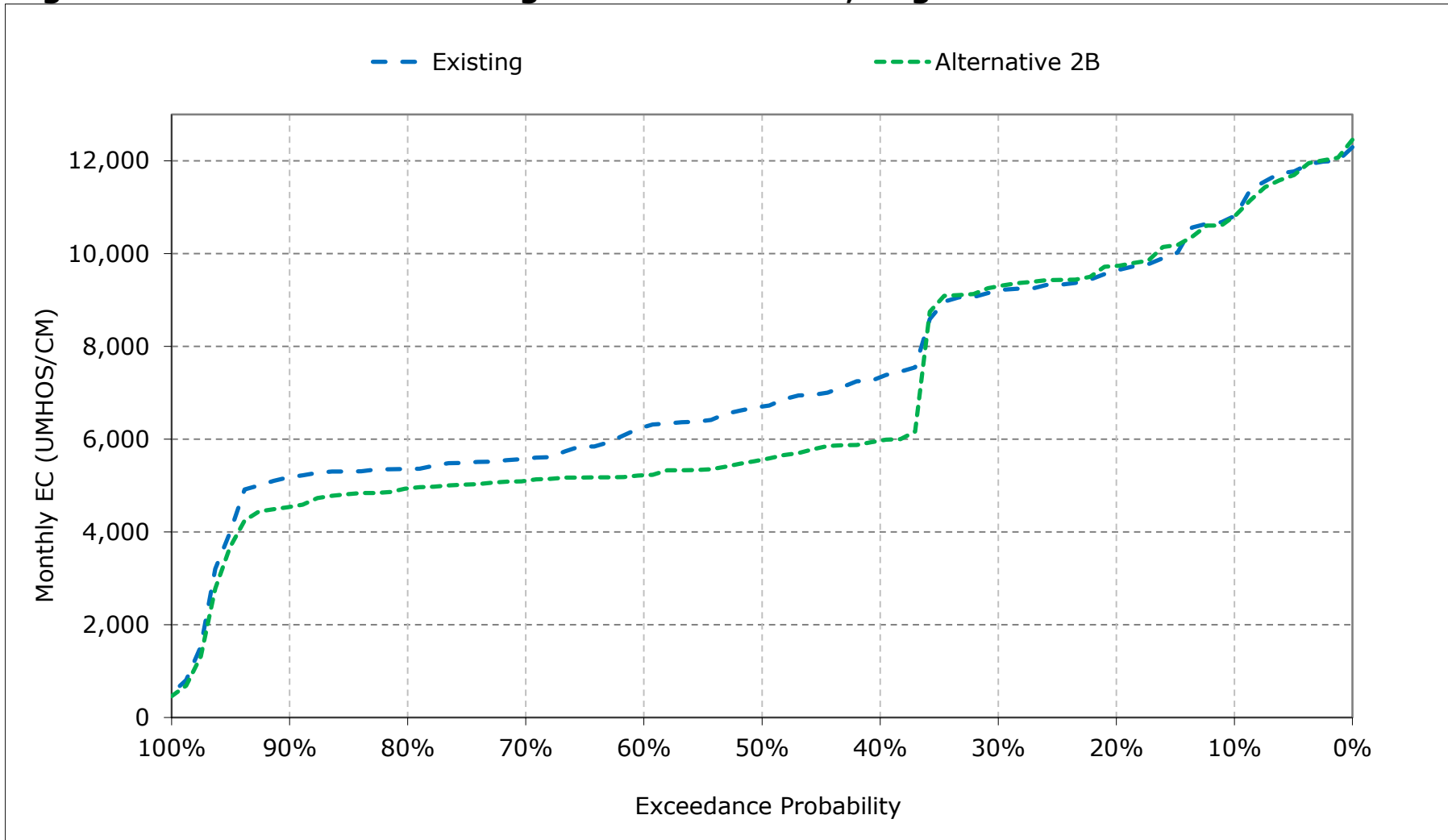
**Figure 22-12. Montezuma Slough at National Steel, June EC**



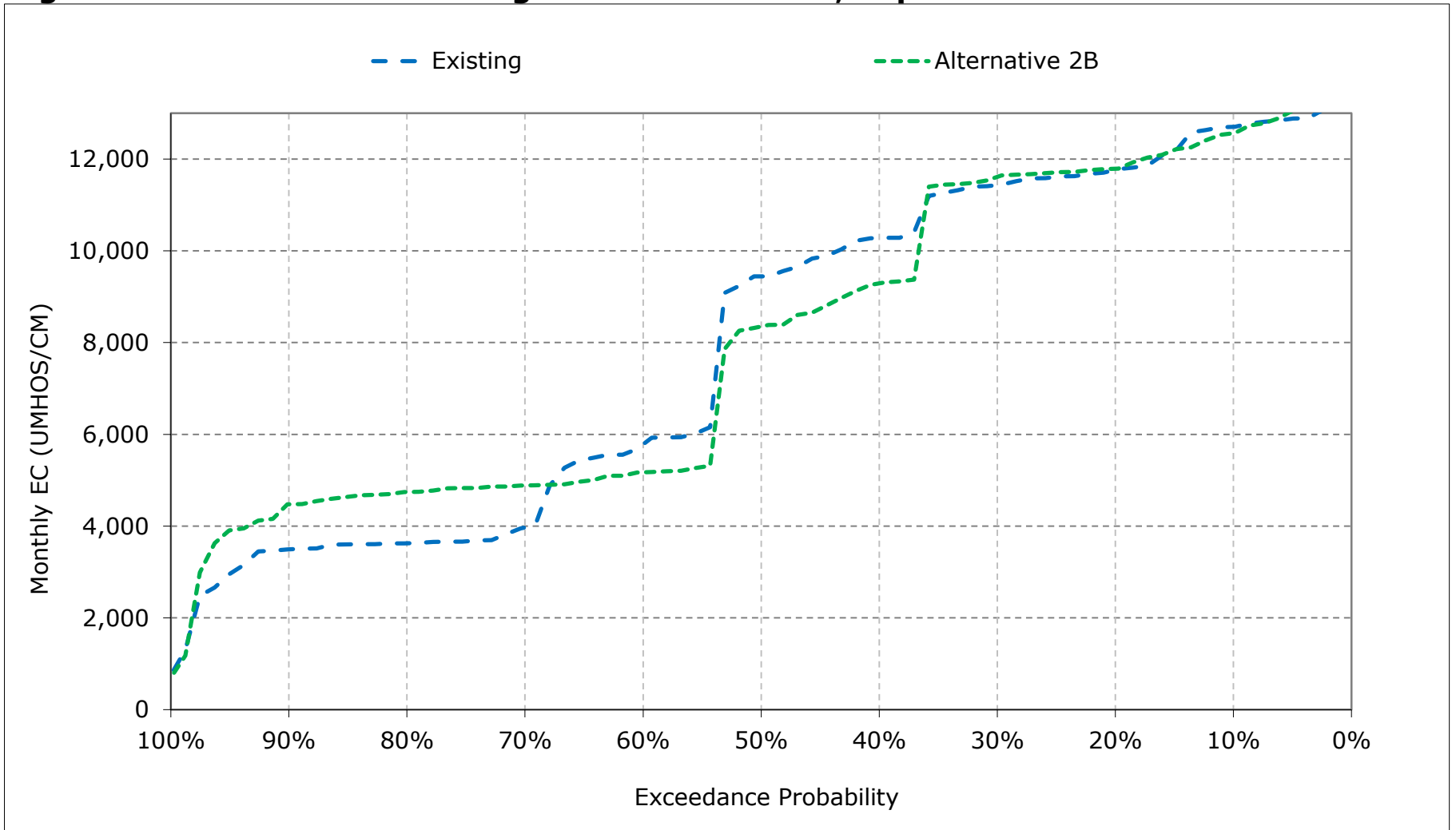
**Figure 22-13. Montezuma Slough at National Steel, July EC**



**Figure 22-14. Montezuma Slough at National Steel, August EC**

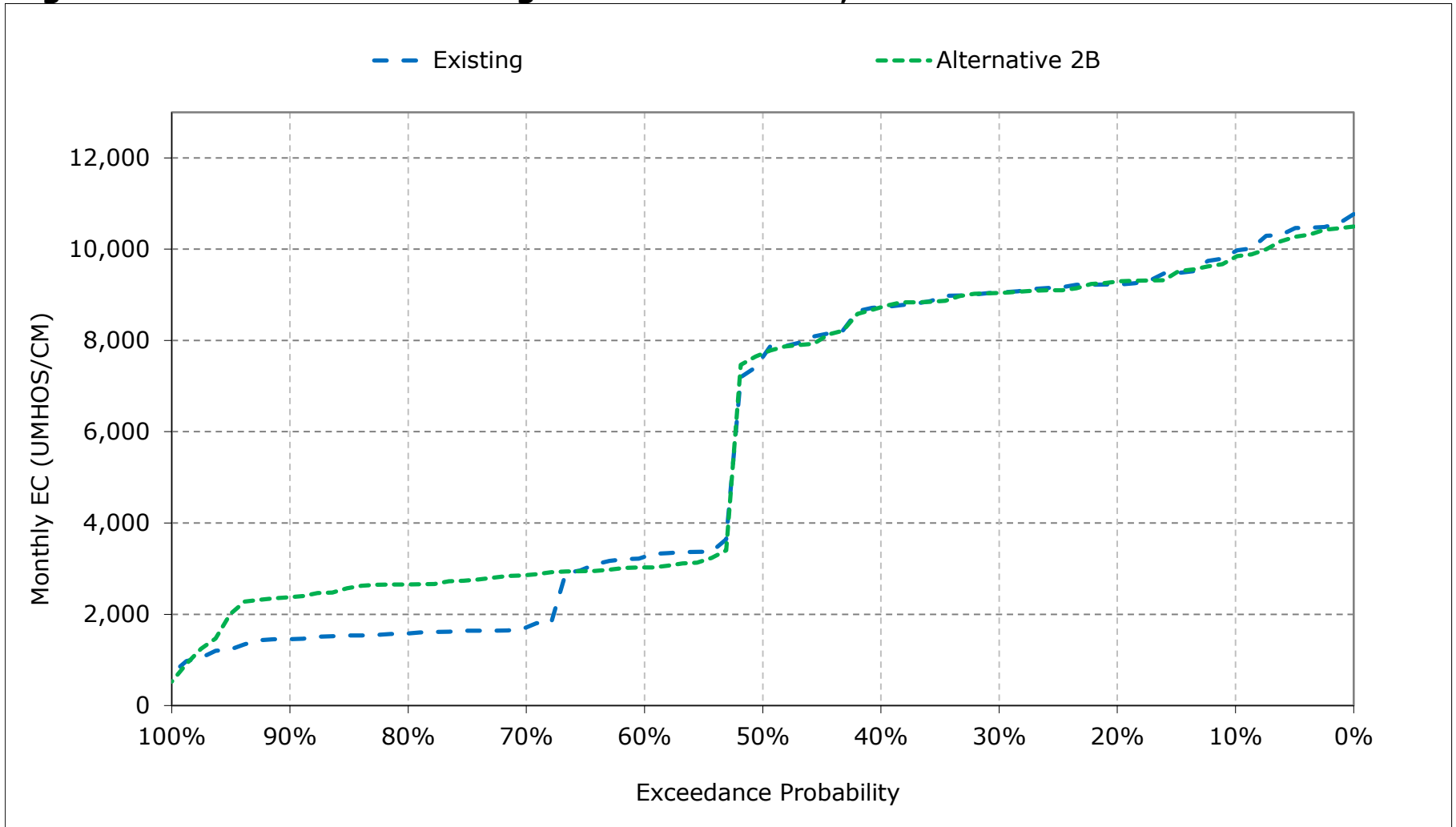


**Figure 22-15. Montezuma Slough at National Steel, September EC**

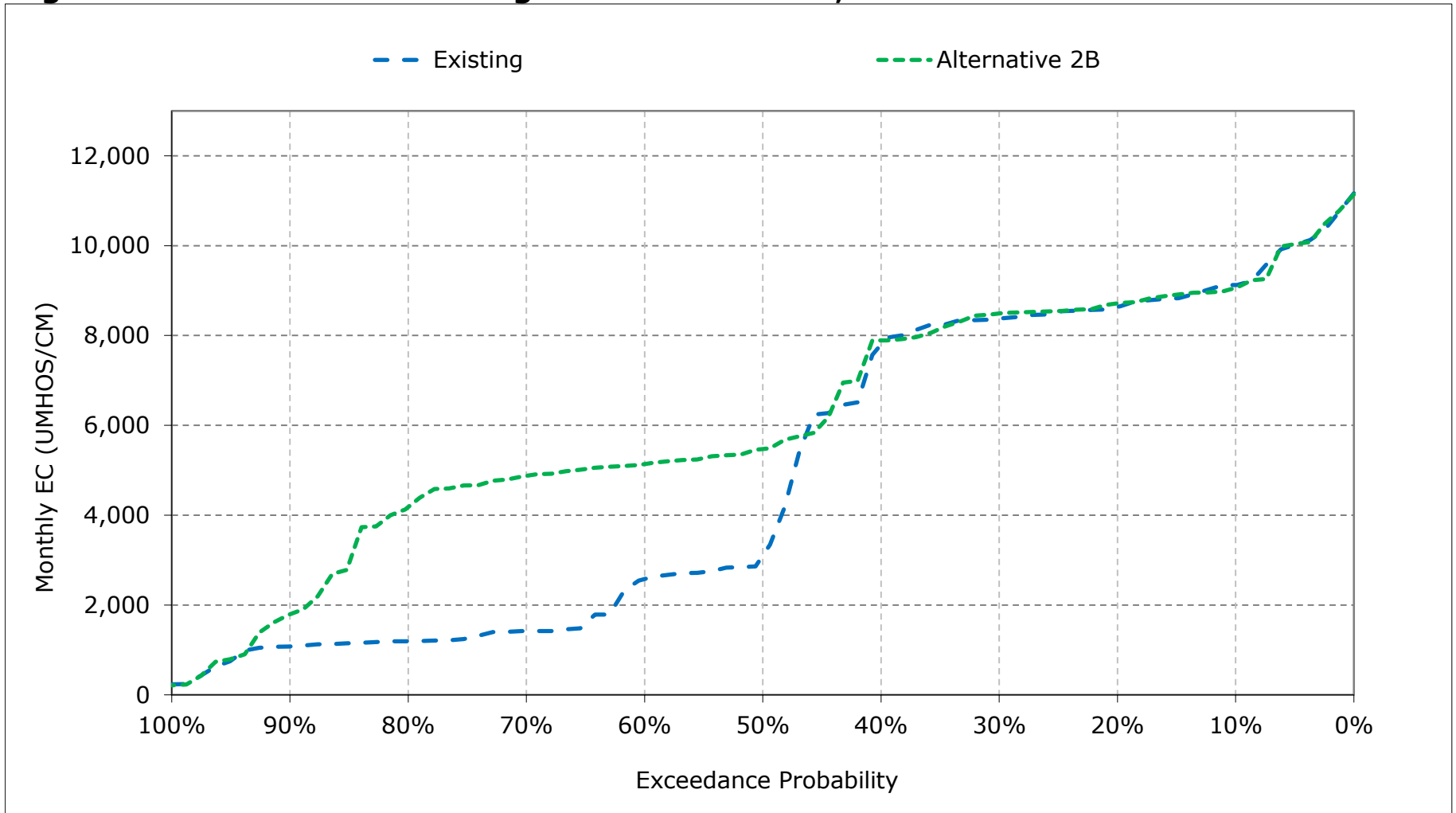




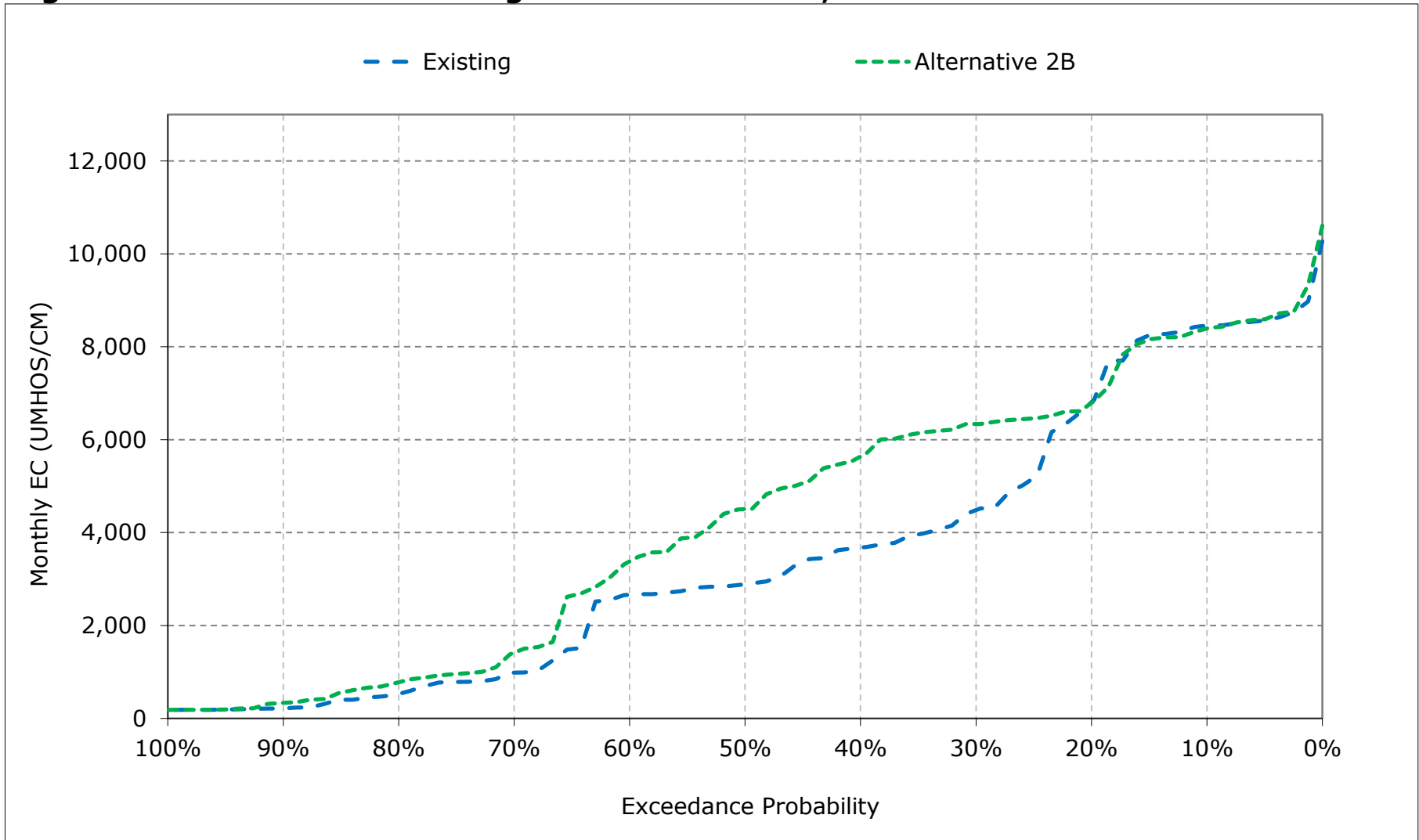
**Figure 22-16. Montezuma Slough at National Steel, October EC**



**Figure 22-17. Montezuma Slough at National Steel, November EC**



**Figure 22-18. Montezuma Slough at National Steel, December EC**



**Table 24-1. Suisun Bay near Ryer, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	16,703	16,015	15,488	11,386	7,089	6,452	6,809	8,008	10,019	12,230	14,812	16,142
20%	16,148	15,774	14,171	10,495	4,725	3,858	3,849	6,638	8,637	11,068	13,505	15,448
30%	15,916	15,470	11,450	8,581	2,917	1,699	2,338	5,281	8,222	10,697	13,287	15,185
40%	15,735	14,990	9,986	5,728	1,498	1,354	1,874	3,479	7,141	8,868	11,631	14,351
50%	14,602	9,441	8,019	4,311	971	778	1,301	2,191	5,868	8,434	10,884	13,391
60%	8,926	8,249	7,489	2,674	460	410	657	1,505	4,956	6,859	10,648	8,464
70%	5,620	5,430	3,989	611	227	232	375	901	3,747	6,559	10,126	5,357
80%	5,344	5,115	1,942	256	209	200	235	424	2,021	5,757	9,751	4,985
90%	5,183	4,760	700	200	195	193	194	203	408	3,978	9,429	4,569
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	11,389	10,451	8,186	5,114	2,419	1,908	2,260	3,446	5,856	8,256	11,405	10,801
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	9,330	7,468	3,198	977	293	340	467	836	2,318	4,779	9,075	4,646
Above Normal (15%)	11,798	10,318	8,360	3,352	937	390	637	1,293	4,323	6,367	9,917	8,307
Below Normal (17%)	11,868	11,458	10,147	5,928	1,744	1,595	1,737	2,893	5,947	8,438	11,257	13,867
Dry (22%)	11,938	11,818	10,281	8,042	4,052	2,794	3,382	5,287	8,126	10,864	13,402	15,325
Critical (15%)	14,060	13,820	13,391	10,499	6,844	5,860	6,696	9,139	11,546	13,558	15,118	16,271

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	16,677	16,035	15,485	12,605	7,151	6,424	6,876	8,275	10,047	12,283	14,709	16,071
20%	16,159	15,777	14,032	11,220	4,513	3,768	4,412	7,532	9,205	11,196	13,636	15,514
30%	15,918	15,521	13,327	9,317	2,957	1,585	2,730	6,245	8,385	10,686	13,406	15,337
40%	15,615	14,952	12,796	6,131	1,515	1,254	2,082	4,216	7,852	9,016	11,968	14,591
50%	14,609	11,723	11,641	4,420	913	689	1,390	2,837	6,167	8,380	11,145	13,494
60%	8,383	11,449	9,883	2,634	357	345	731	2,205	5,522	7,092	9,970	7,648
70%	8,255	11,216	5,239	612	226	225	455	1,283	3,988	6,741	9,416	7,507
80%	7,903	10,508	2,665	241	210	201	246	525	2,127	5,791	9,188	7,256
90%	7,492	6,157	817	200	196	193	193	207	424	3,983	8,867	6,806
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	12,016	12,241	9,353	5,344	2,491	1,868	2,403	3,905	6,137	8,345	11,207	11,390
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	10,125	9,843	4,014	980	282	321	555	1,124	2,597	4,879	8,425	6,776
Above Normal (15%)	12,604	12,146	9,917	3,429	808	349	761	1,817	4,562	6,479	9,467	7,367
Below Normal (17%)	12,544	13,204	11,566	5,936	1,668	1,464	1,956	3,621	6,245	8,567	11,594	14,046
Dry (22%)	12,544	13,308	11,660	8,685	4,330	2,701	3,573	5,908	8,502	10,951	13,508	15,424
Critical (15%)	14,116	14,805	14,316	11,012	7,165	5,957	6,812	9,344	11,704	13,556	15,069	16,262

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-25	20	-3	1,218	61	-28	67	267	28	54	-103	-71
20%	11	3	-138	725	-212	-91	563	894	569	128	132	66
30%	2	51	1,877	736	40	-114	392	965	162	-11	119	152
40%	-119	-37	2,810	403	17	-99	209	737	711	148	336	239
50%	7	2,283	3,622	109	-58	-89	89	645	300	-54	261	103
60%	-543	3,199	2,395	-40	-103	-66	73	700	565	233	-678	-816
70%	2,636	5,786	1,249	0	-2	-7	80	382	242	182	-710	2,150
80%	2,559	5,394	723	-14	1	2	11	101	106	34	-564	2,270
90%	2,308	1,397	117	0	1	0	-1	4	16	5	-562	2,238
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	627	1,790	1,167	230	73	-41	143	458	280	89	-198	589
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	795	2,375	816	3	-11	-19	88	288	279	100	-650	2,130
Above Normal (15%)	806	1,829	1,558	77	-129	-40	125	524	239	112	-450	-940
Below Normal (17%)	677	1,746	1,419	8	-76	-131	218	728	298	129	337	179
Dry (22%)	606	1,490	1,379	643	278	-93	192	621	376	87	105	99
Critical (15%)	56	985	925	513	322	97	116	205	158	-2	-49	-8

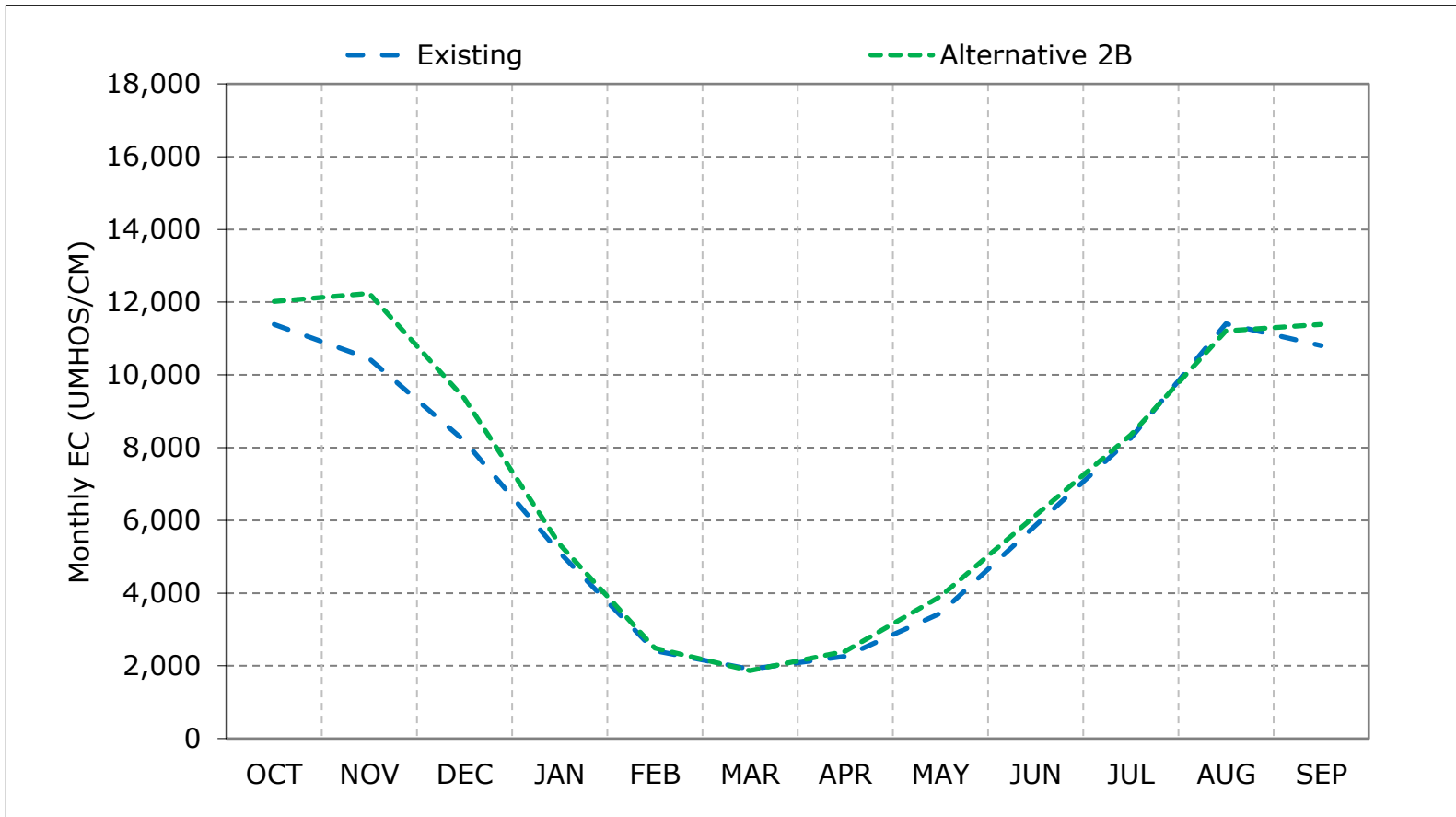
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

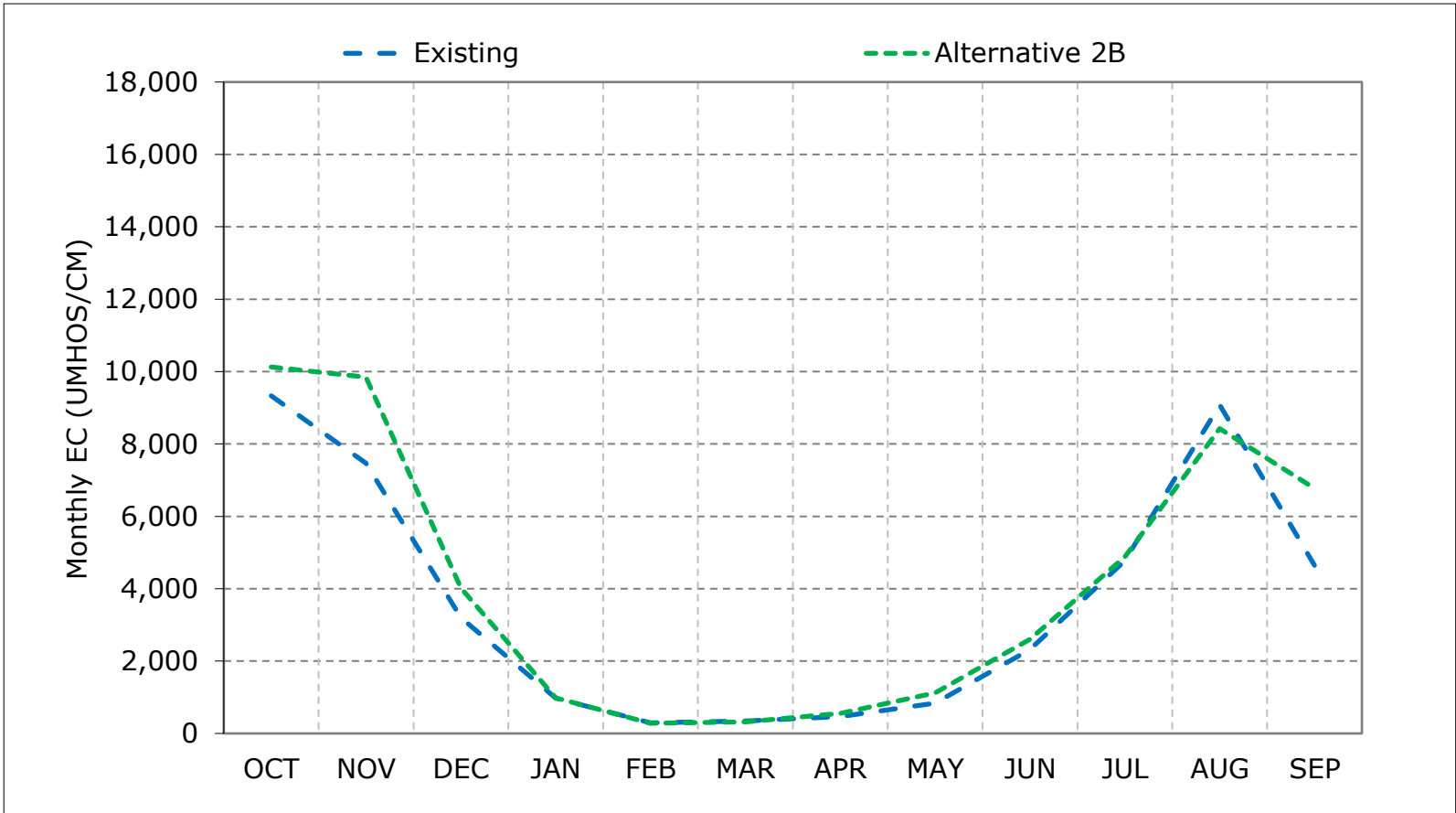
**Figure 24-1. Suisun Bay near Ryer, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

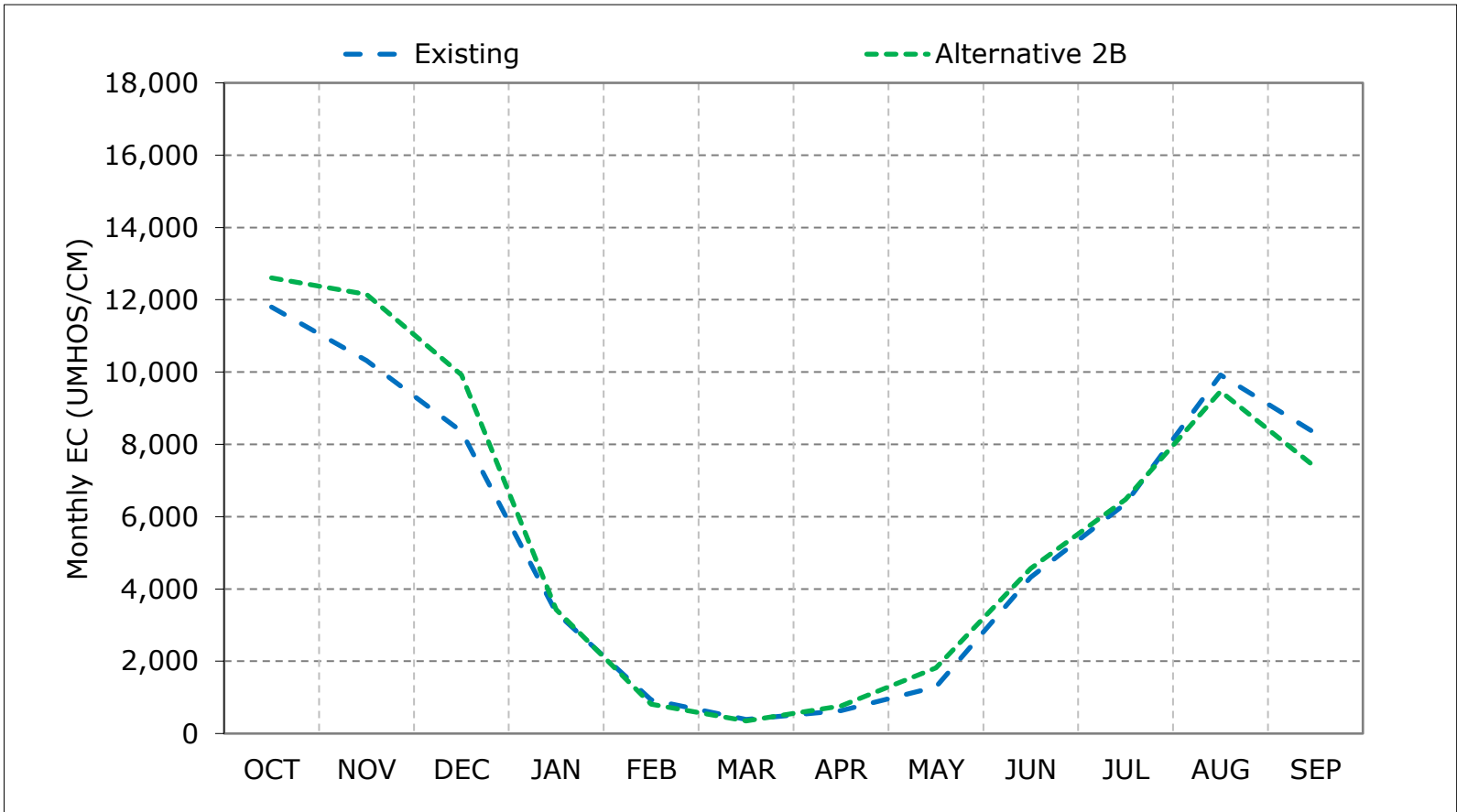
**Figure 24-2. Suisun Bay near Ryer, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

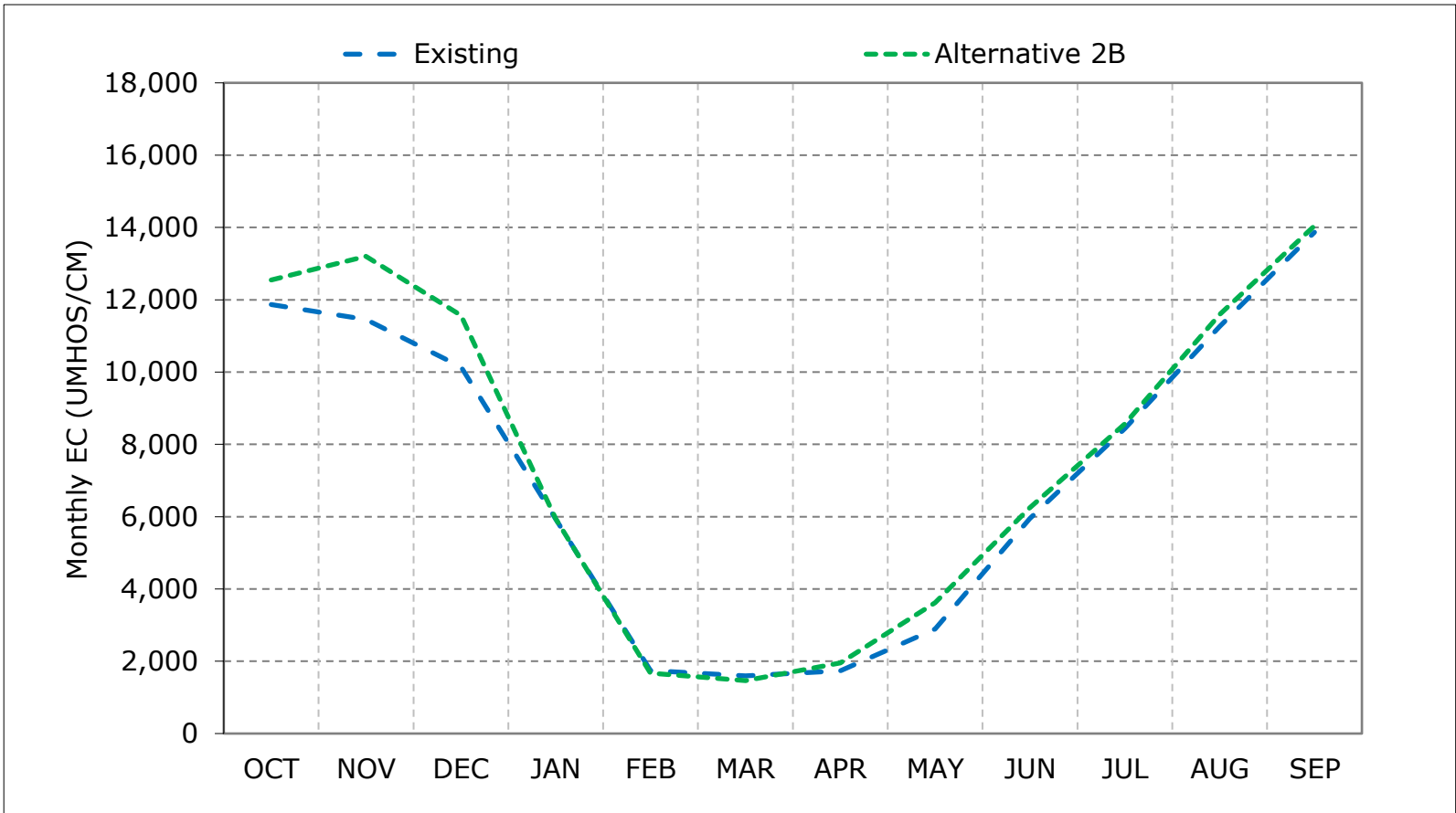
**Figure 24-3. Suisun Bay near Ryer, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 24-4. Suisun Bay near Ryer, Below Normal Year Average EC**

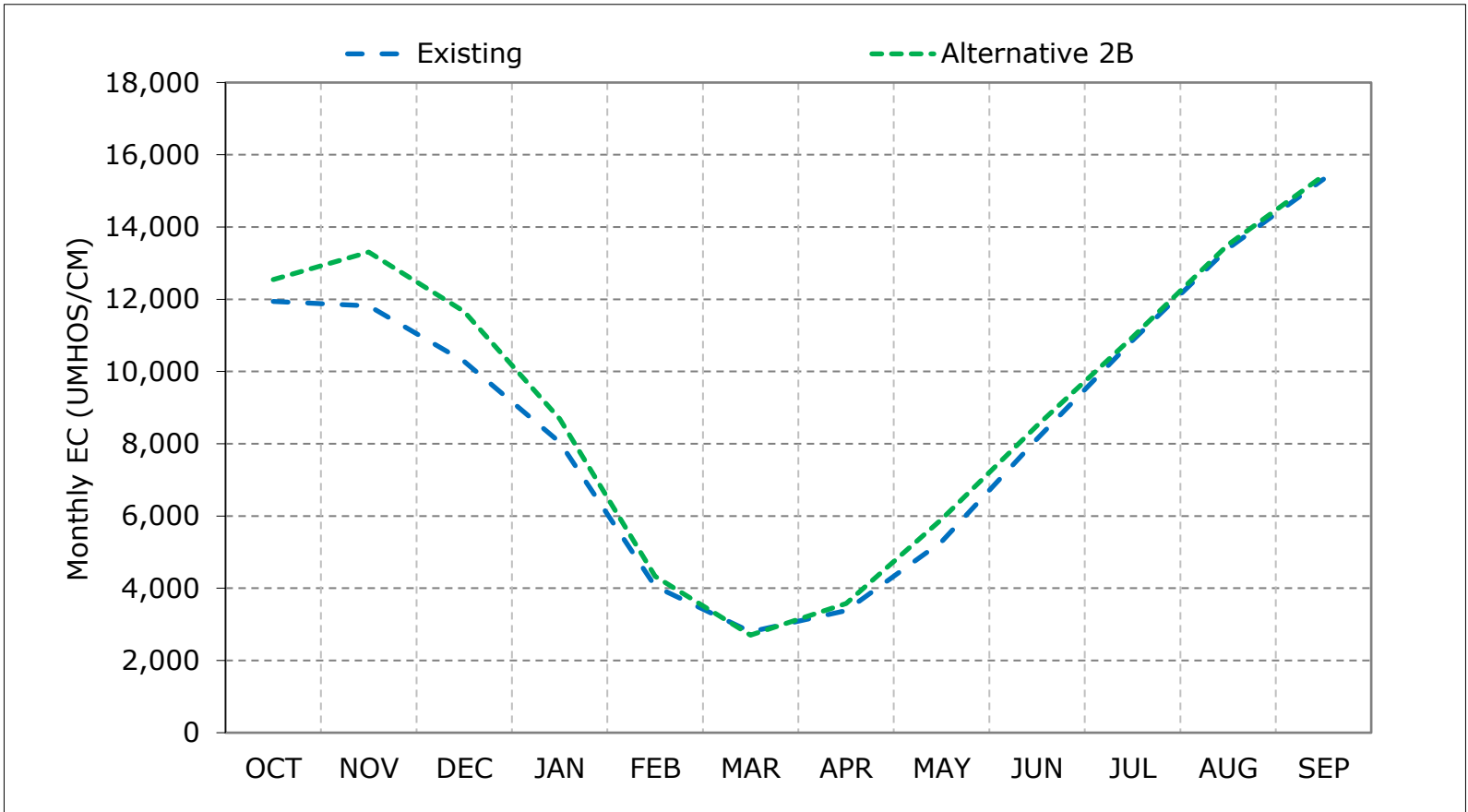


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



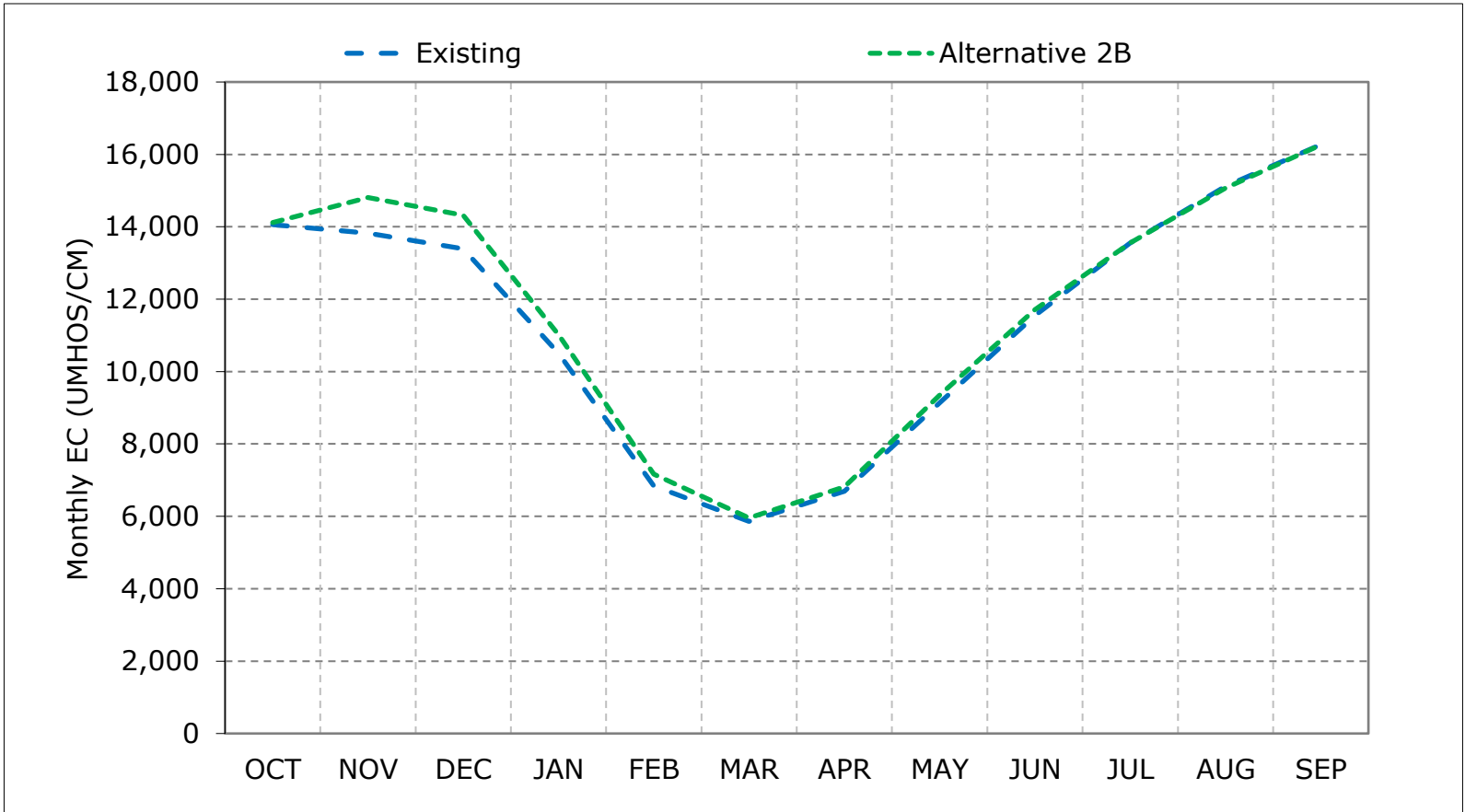
**Figure 24-5. Suisun Bay near Ryer, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

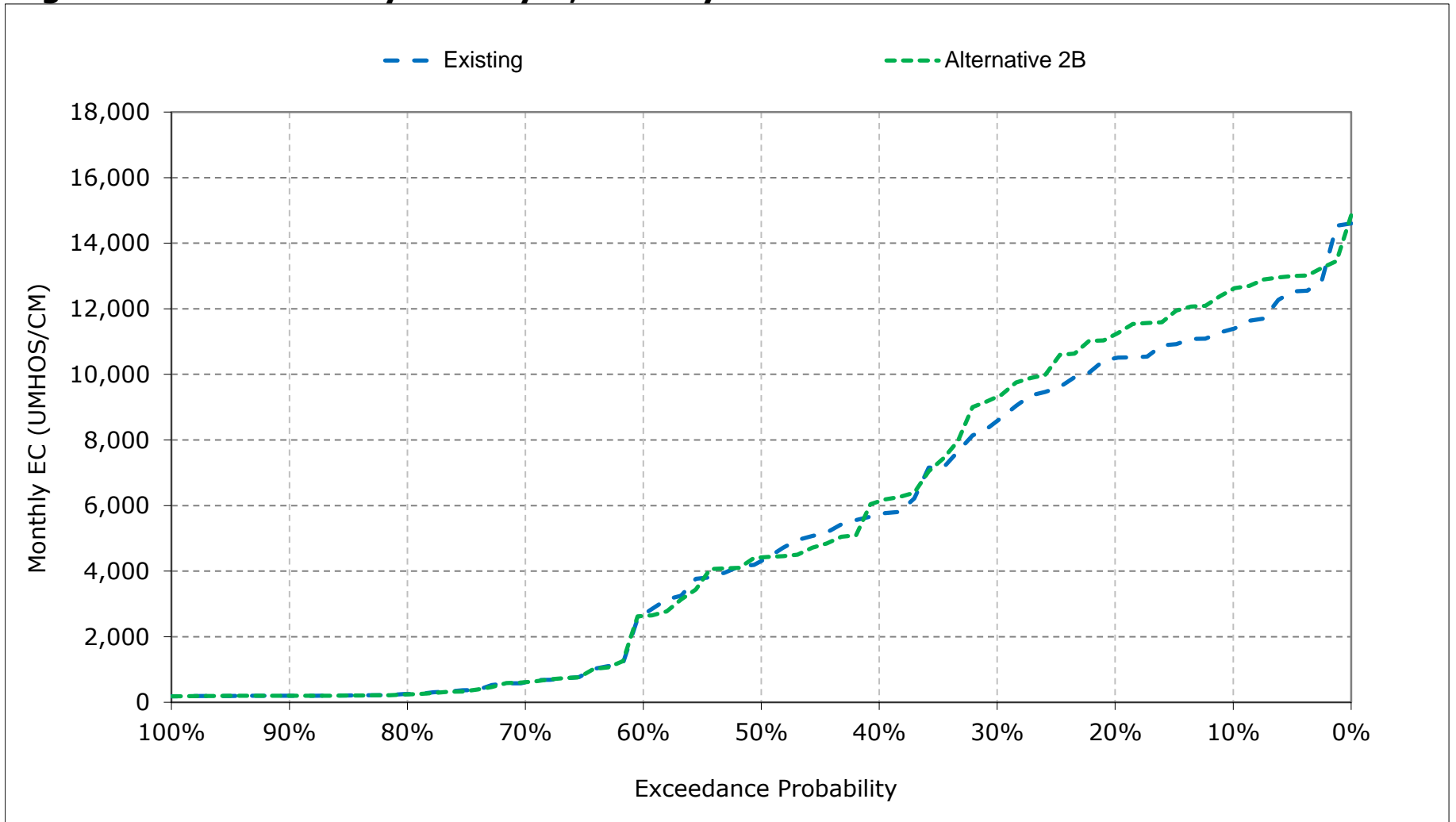
**Figure 24-6. Suisun Bay near Ryer, Critical Year Average EC**



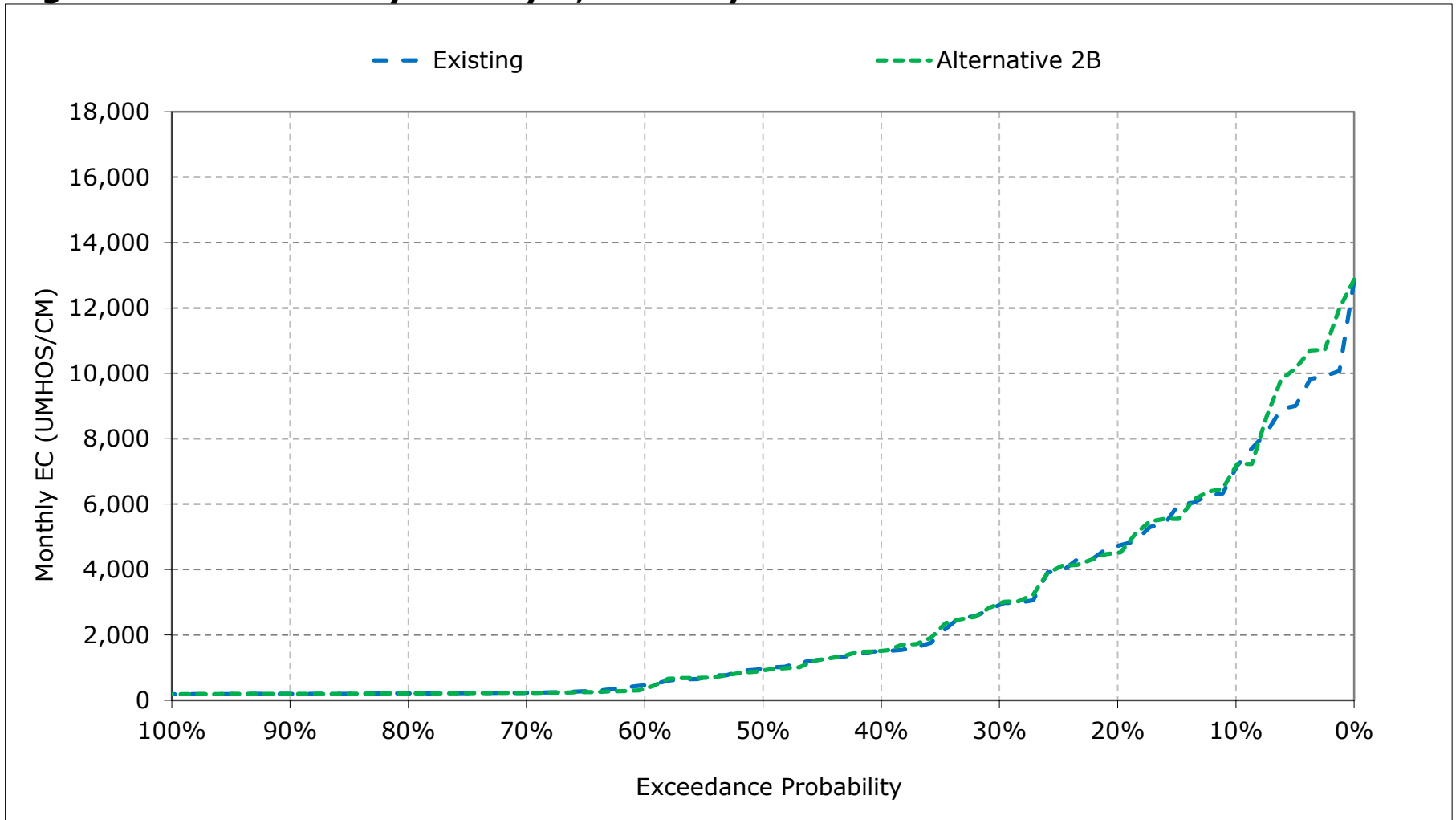
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

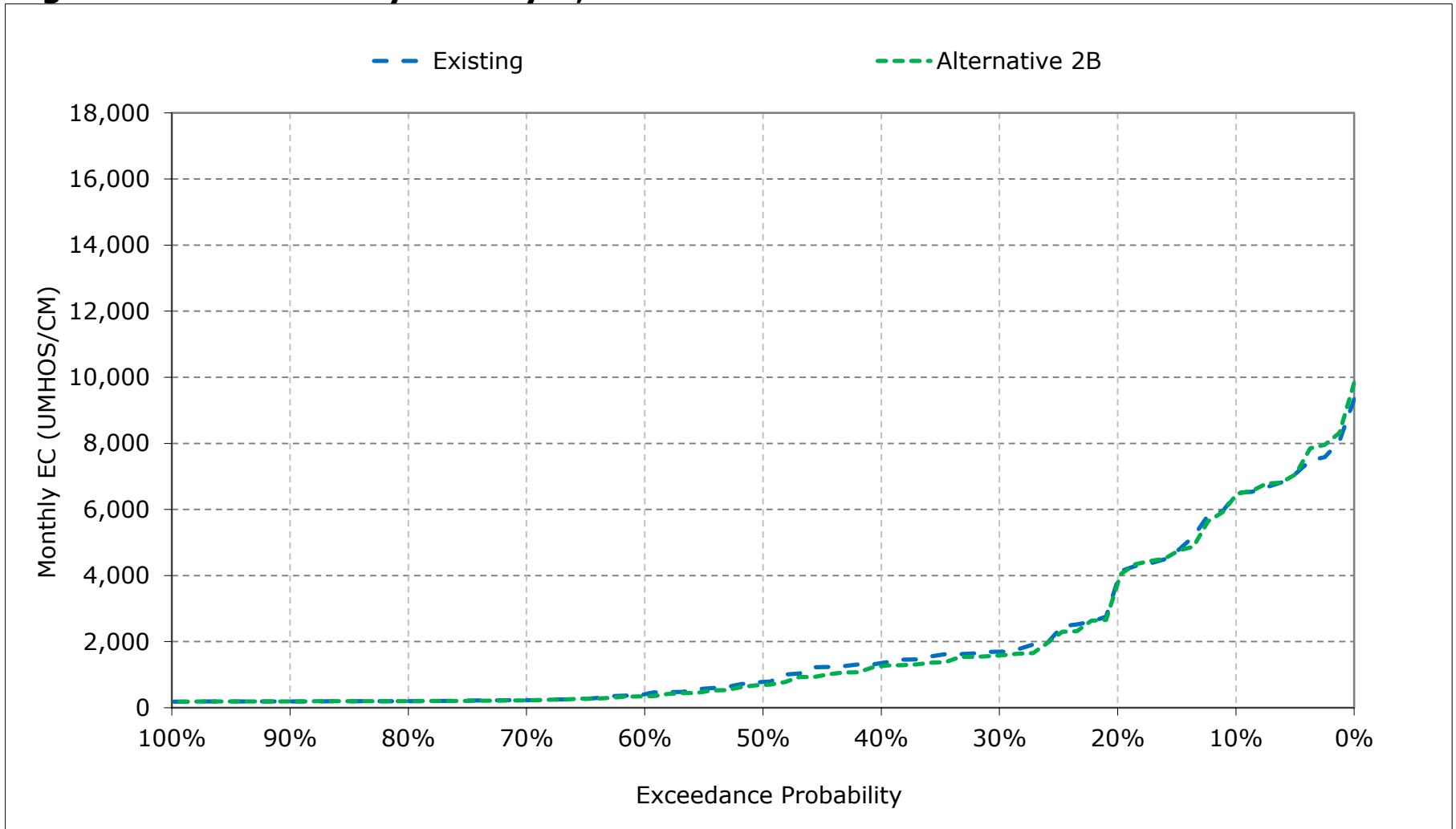
**Figure 24-7. Suisun Bay near Ryer, January EC**



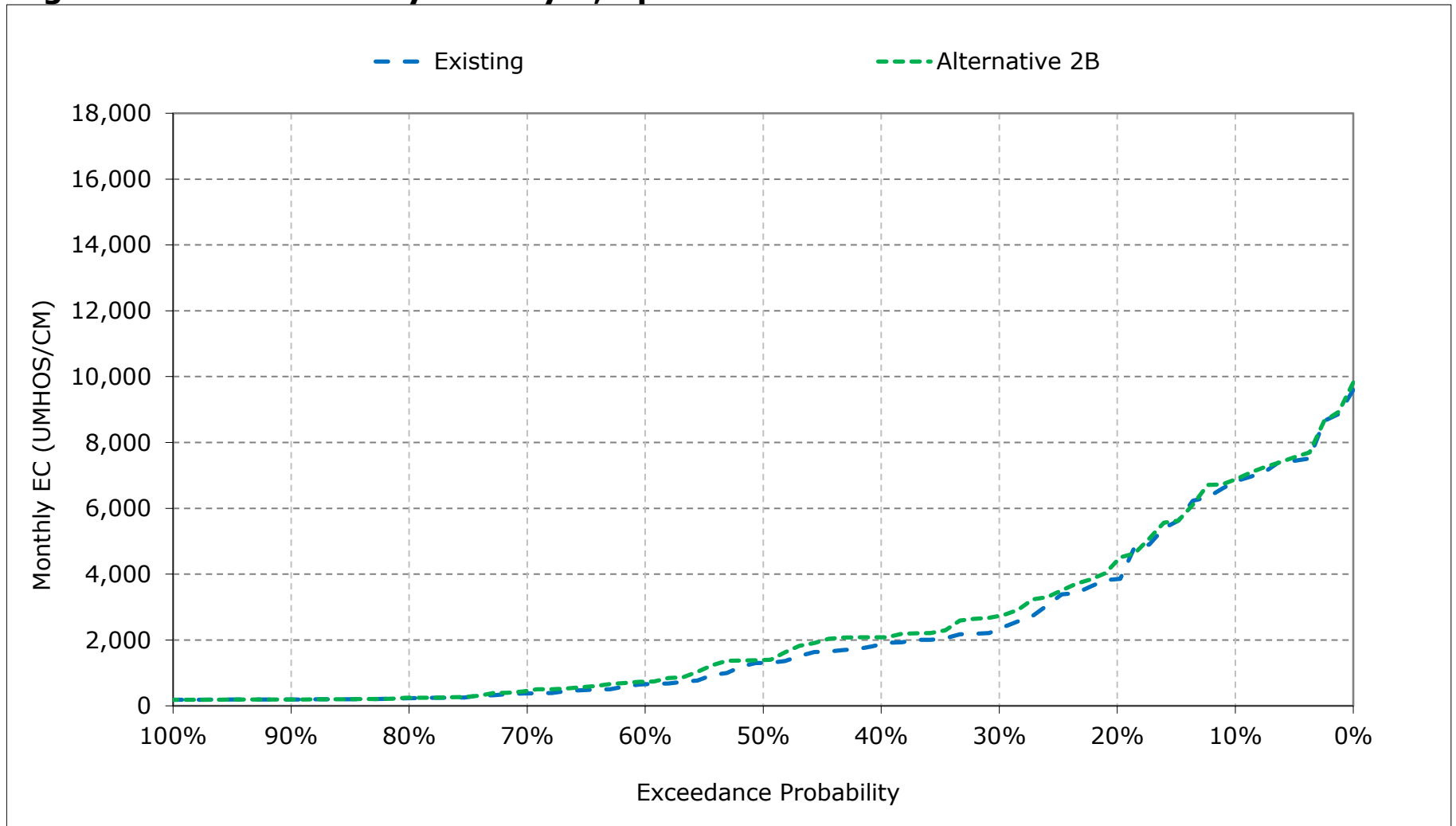
**Figure 24-8. Suisun Bay near Ryer, February EC**



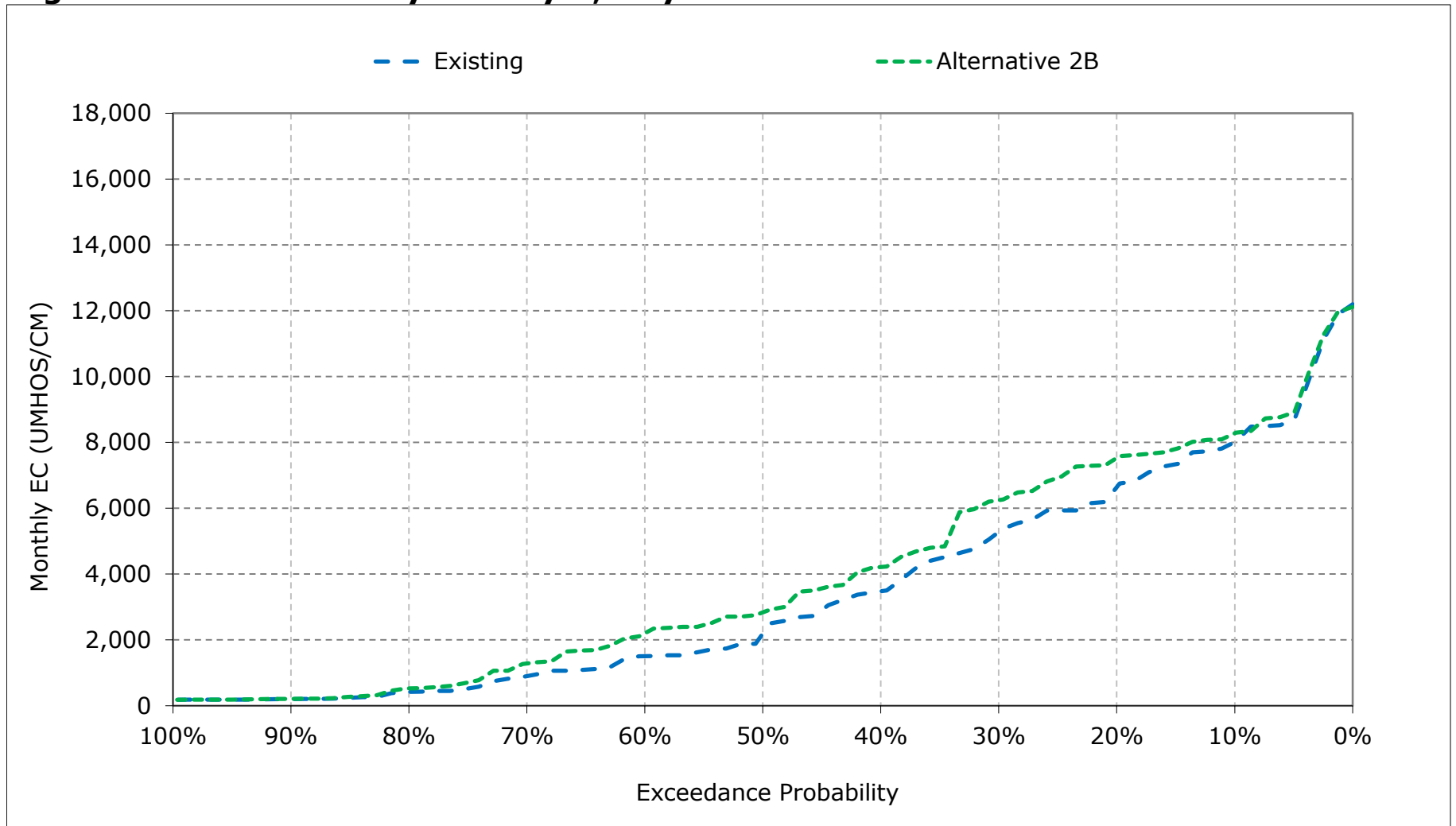
**Figure 24-9. Suisun Bay near Ryer, March EC**



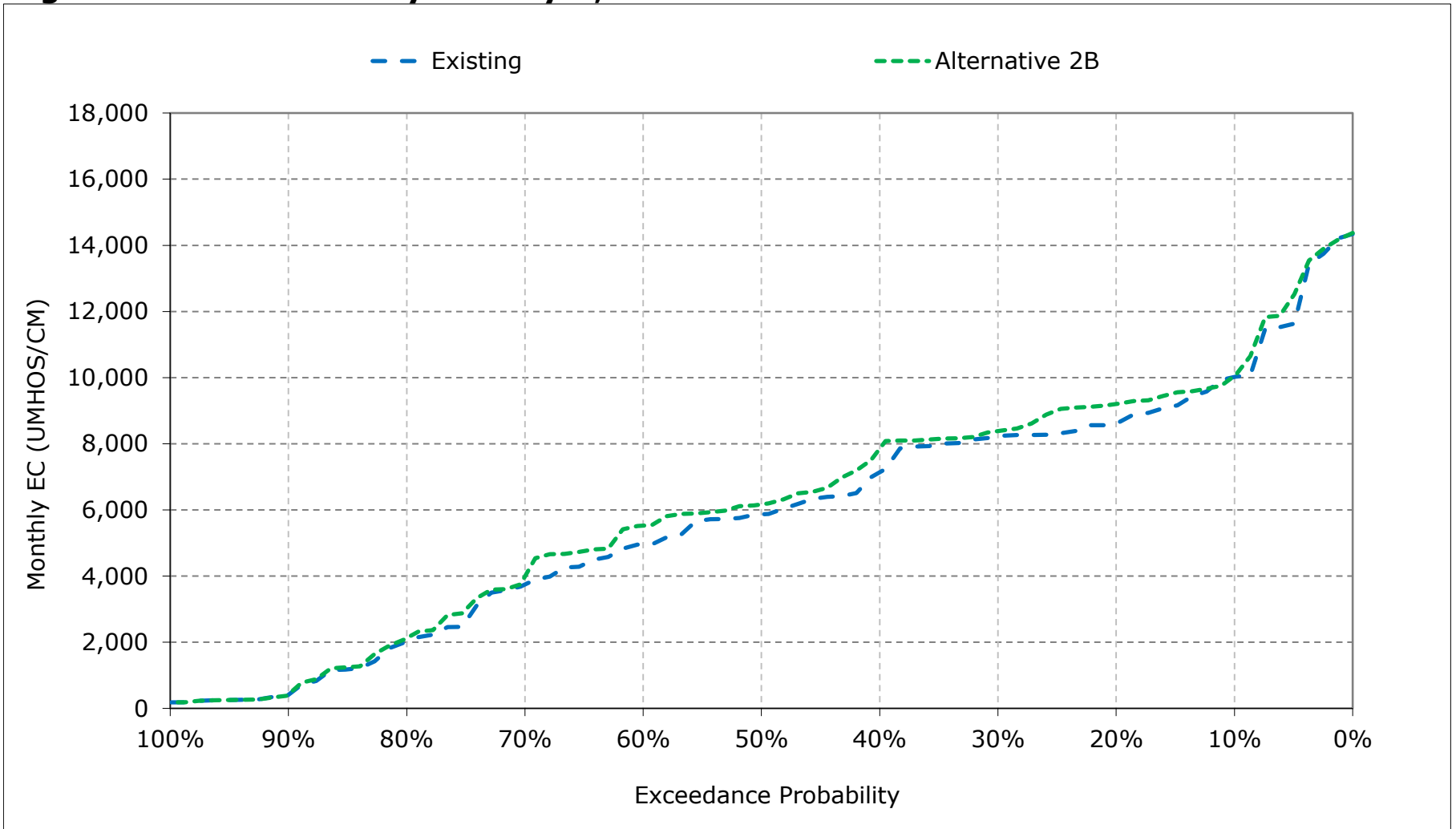
**Figure 24-10. Suisun Bay near Ryer, April EC**



**Figure 24-11. Suisun Bay near Ryer, May EC**

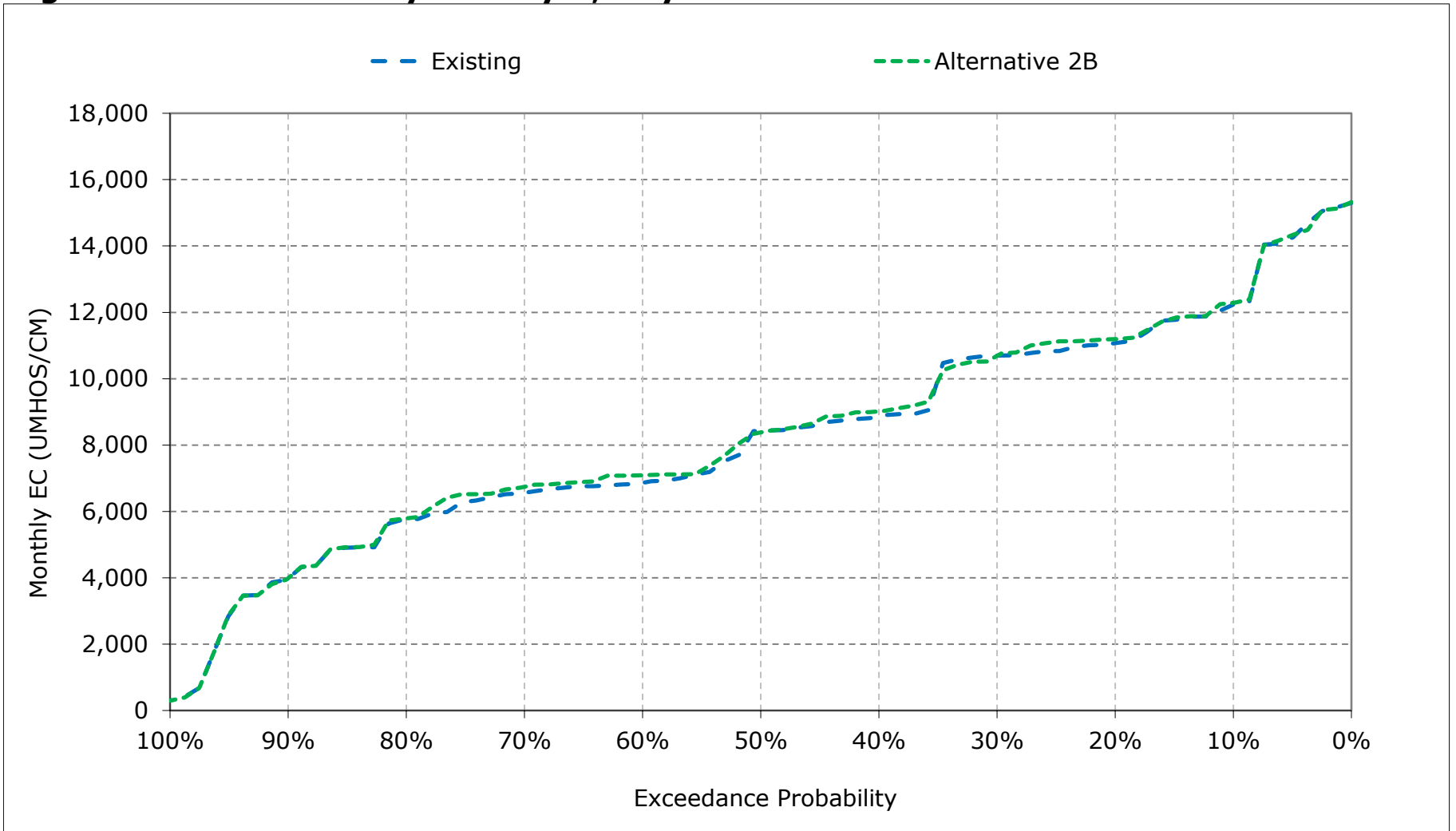


**Figure 24-12. Suisun Bay near Ryer, June EC**

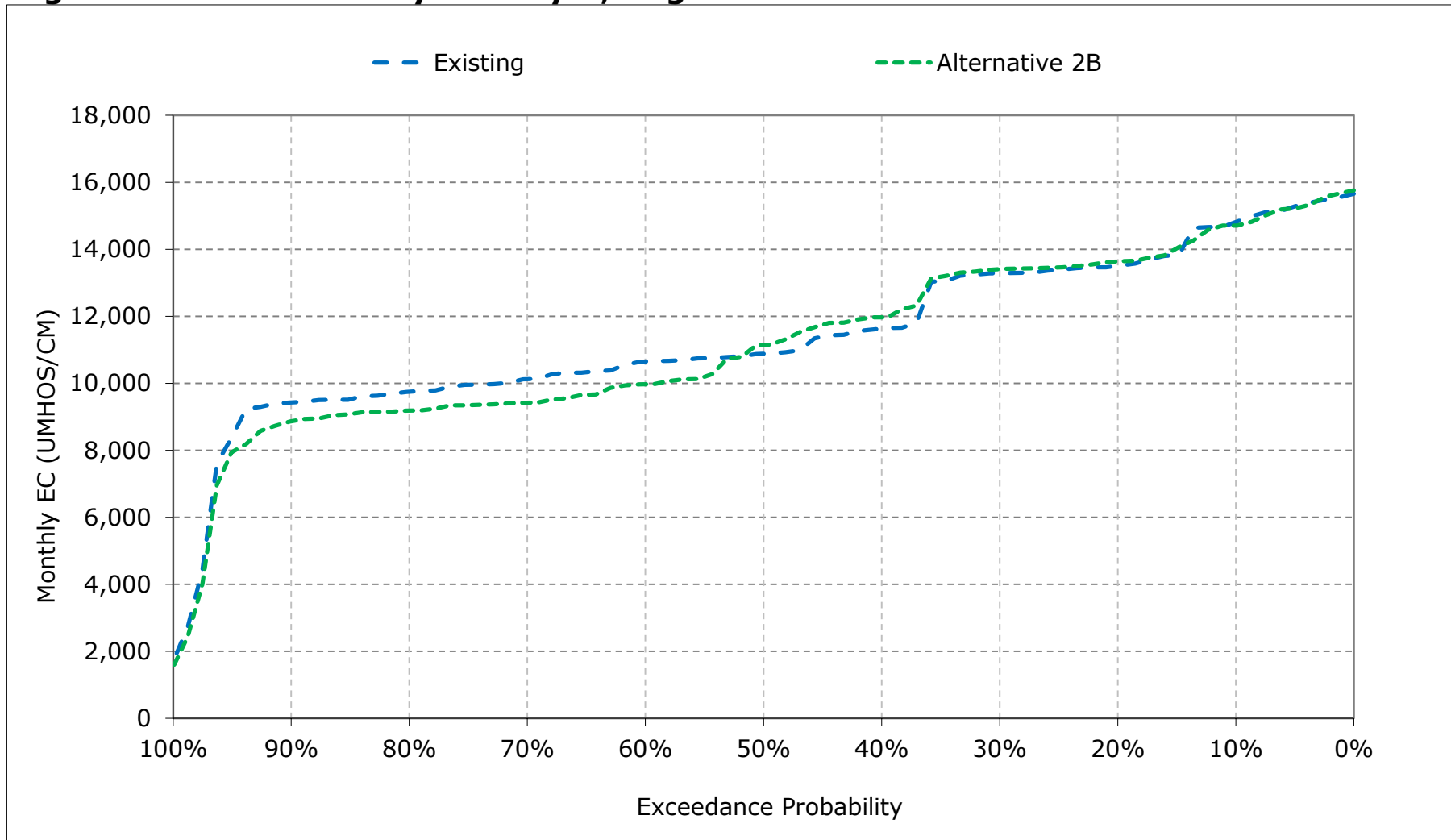




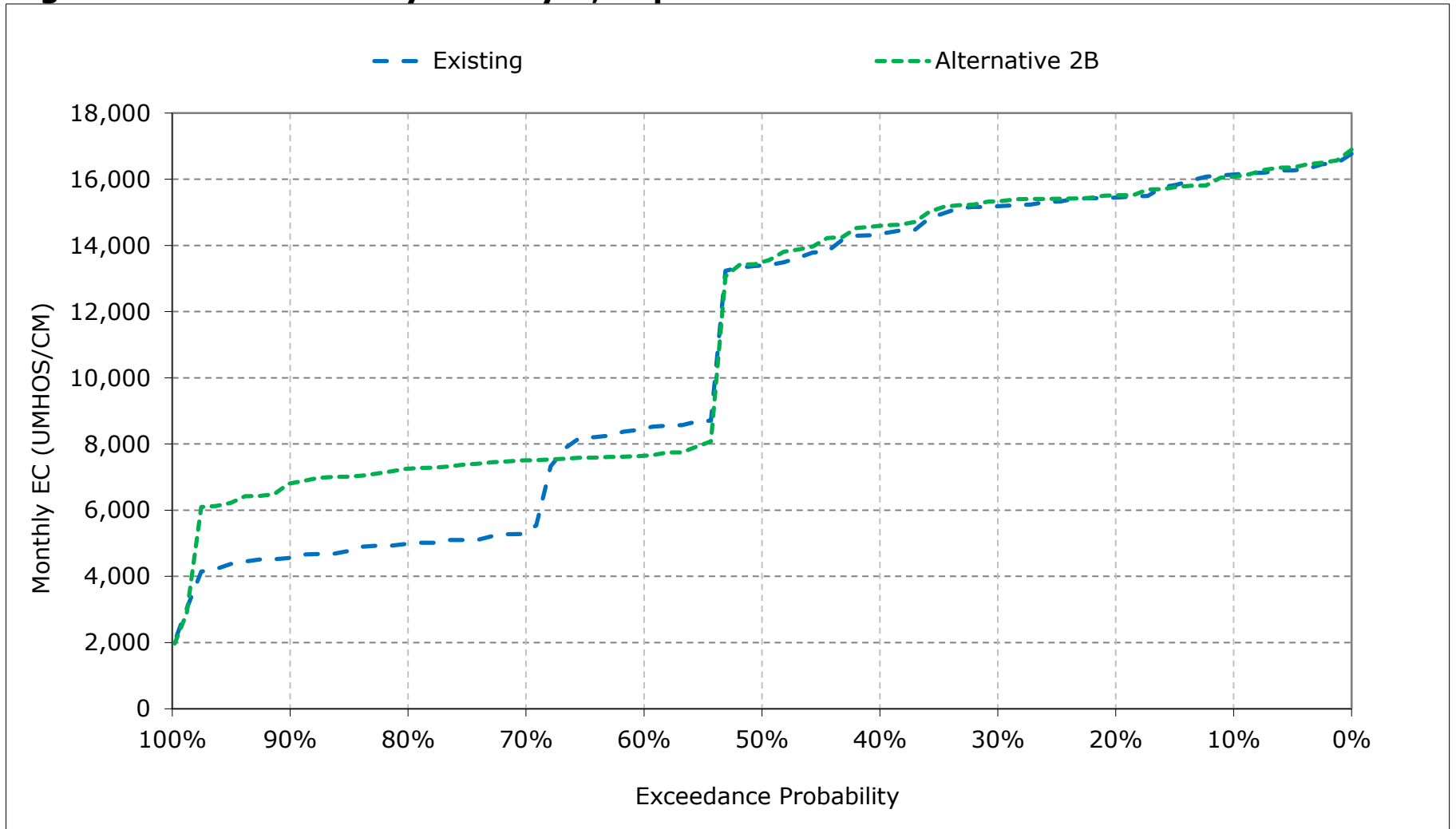
**Figure 24-13. Suisun Bay near Ryer, July EC**



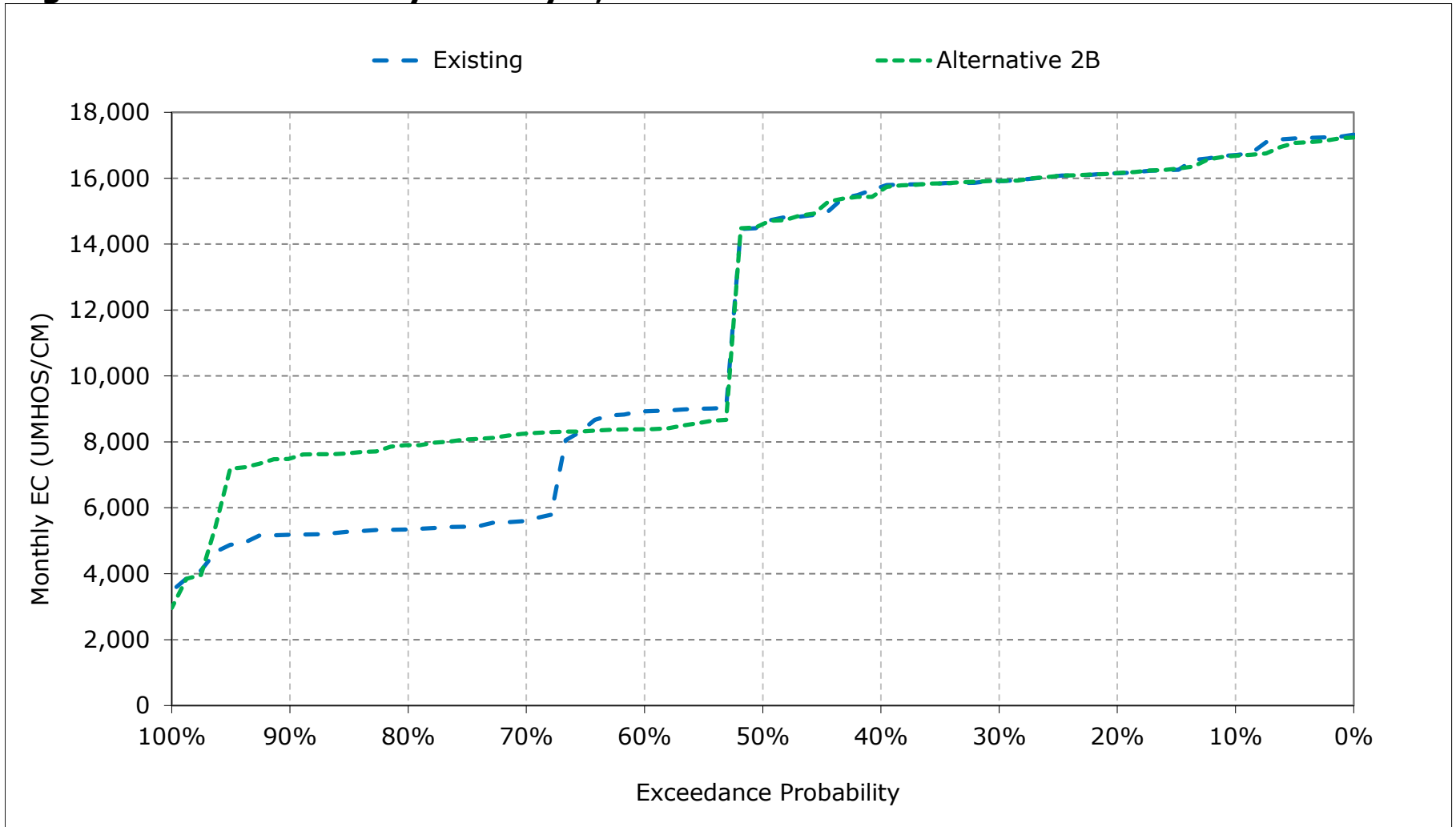
**Figure 24-14. Suisun Bay near Ryer, August EC**



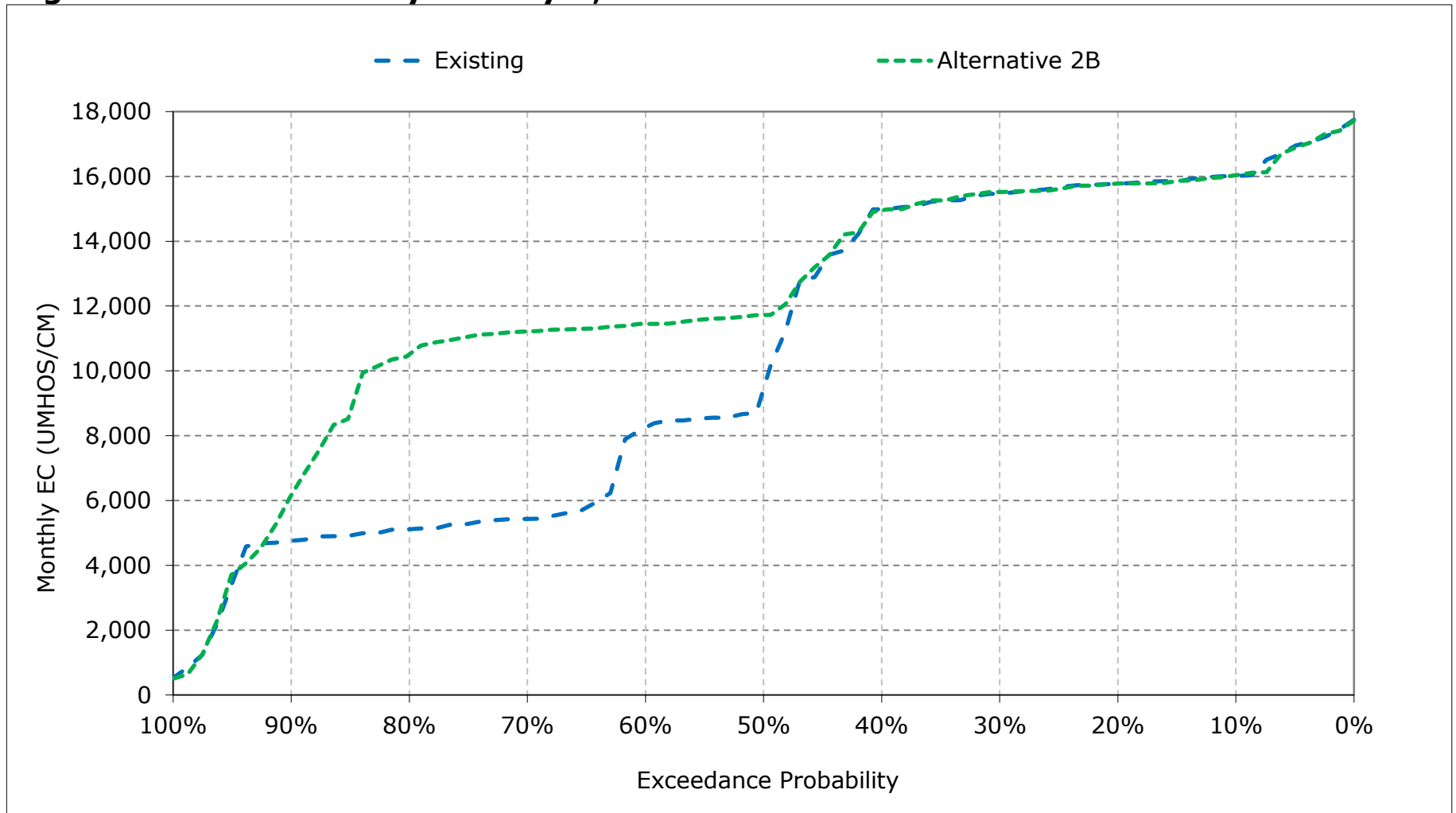
**Figure 24-15. Suisun Bay near Ryer, September EC**



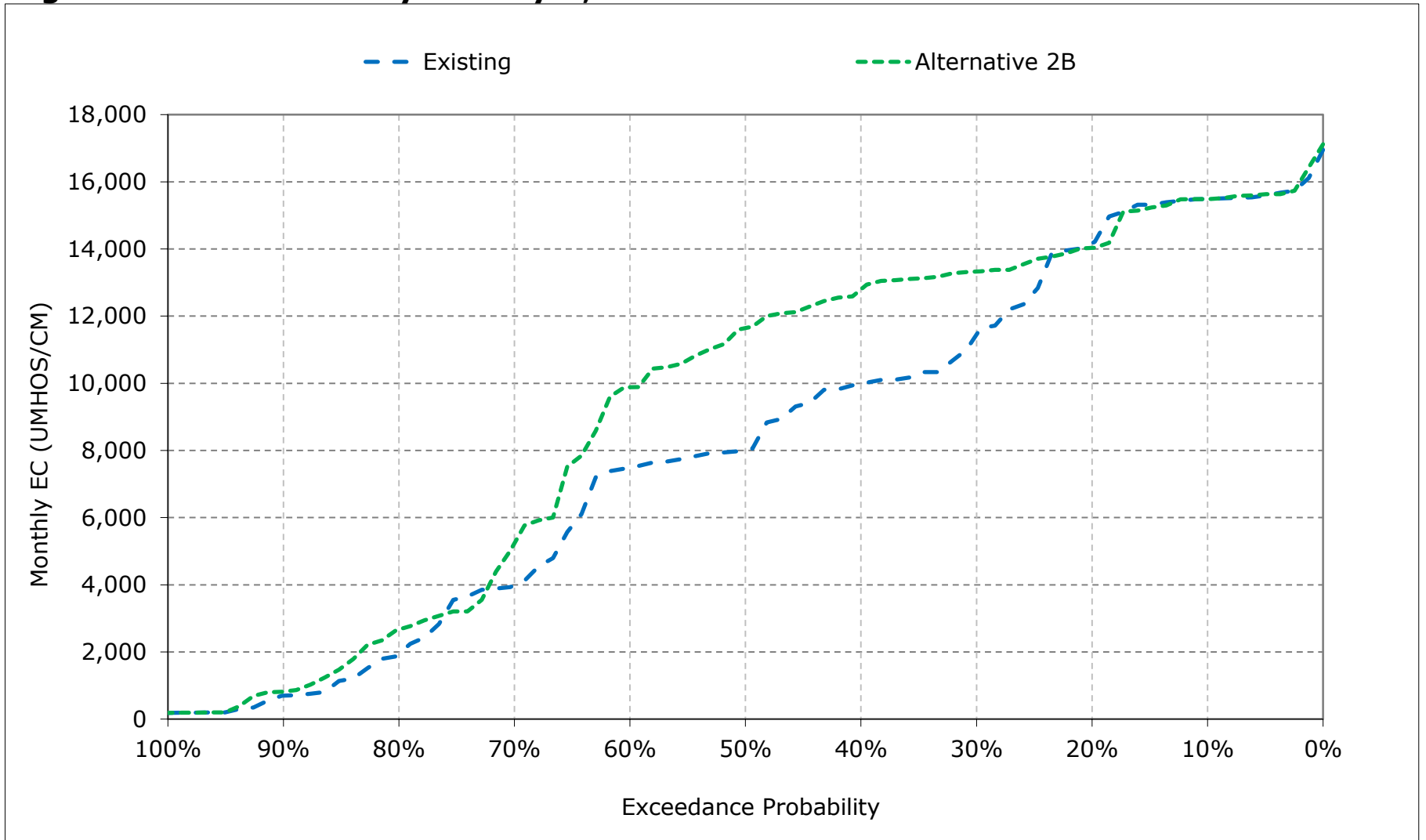
**Figure 24-16. Suisun Bay near Ryer, October EC**



**Figure 24-17. Suisun Bay near Ryer, November EC**



**Figure 24-18. Suisun Bay near Ryer, December EC**



**Table 25-1. Goodyear Slough Outfall at Naval Fleet, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	15,892	14,512	13,771	11,027	6,751	6,925	8,314	9,177	10,969	13,003	15,505	17,386
20%	15,210	14,126	13,187	9,217	5,084	4,597	5,072	7,317	9,558	11,956	14,356	16,448
30%	15,018	13,803	11,361	8,298	3,298	2,680	3,253	5,694	8,748	11,430	14,002	16,127
40%	14,589	13,202	8,662	6,455	2,889	1,936	2,477	3,954	7,467	9,981	12,348	15,121
50%	13,454	9,486	6,219	5,439	1,454	1,551	1,999	2,768	5,876	8,944	11,483	14,507
60%	8,092	7,681	5,684	3,477	1,052	651	917	1,705	4,846	8,278	10,936	11,184
70%	5,206	5,149	4,838	1,426	591	444	622	1,129	3,773	7,413	10,196	9,021
80%	4,926	5,008	3,536	719	389	349	343	539	1,971	5,929	9,848	8,689
90%	4,779	4,733	1,399	394	273	269	243	238	470	3,501	9,518	8,221
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	10,631	9,660	7,630	5,272	2,747	2,402	2,853	3,891	6,149	8,927	11,897	12,834
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	8,799	7,246	3,710	1,360	541	465	598	999	2,365	5,094	9,112	8,043
Above Normal (15%)	10,954	9,676	7,687	4,170	1,394	717	857	1,601	4,190	7,257	10,188	11,099
Below Normal (17%)	11,001	10,398	9,021	6,431	2,384	2,126	2,465	3,412	6,121	9,317	11,872	14,786
Dry (22%)	11,093	10,708	9,331	7,590	4,475	3,591	4,329	5,975	8,734	11,602	14,206	16,297
Critical (15%)	13,156	12,445	11,890	10,023	6,709	6,824	7,974	9,880	12,462	14,438	16,208	17,477

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	15,778	14,426	13,792	11,214	6,957	6,756	8,568	9,250	11,150	12,998	15,496	17,257
20%	15,249	14,048	13,061	10,574	5,210	4,683	4,966	8,239	10,387	12,165	14,530	16,493
30%	15,040	13,747	11,534	9,027	3,539	2,674	3,340	6,782	9,329	11,426	14,095	16,343
40%	14,430	13,060	11,267	6,931	2,824	1,678	2,628	4,833	8,057	8,804	10,846	14,160
50%	13,170	9,689	10,784	5,506	1,567	1,293	2,230	3,351	6,505	8,291	10,022	13,448
60%	7,640	9,316	9,734	3,387	949	613	1,096	2,413	5,682	7,824	9,788	10,616
70%	7,454	9,127	5,908	1,496	626	436	677	1,466	4,089	7,182	9,468	10,351
80%	7,192	8,818	4,367	761	401	365	368	684	2,160	5,949	9,187	10,230
90%	6,853	6,705	2,444	523	318	272	268	259	507	3,507	8,665	9,626
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	11,173	10,818	8,921	5,606	2,870	2,380	2,958	4,373	6,586	8,723	11,313	13,013
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	9,492	8,788	4,901	1,482	551	457	674	1,315	2,742	5,245	8,790	9,415
Above Normal (15%)	11,653	10,881	9,220	4,463	1,360	645	960	2,164	4,690	7,336	10,071	10,343
Below Normal (17%)	11,571	11,540	10,467	6,692	2,348	1,994	2,597	4,172	6,714	7,528	9,034	13,802
Dry (22%)	11,591	11,708	10,703	8,239	4,827	3,571	4,433	6,604	9,262	11,757	14,313	16,406
Critical (15%)	13,244	12,977	12,859	10,471	7,076	6,947	8,112	10,099	12,647	14,492	16,177	17,465

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-114	-86	21	187	205	-170	254	72	180	-6	-8	-129
20%	39	-78	-125	1,357	126	86	-106	922	829	209	174	45
30%	22	-56	173	729	241	-6	88	1,089	580	-5	93	216
40%	-159	-142	2,605	476	-66	-258	150	879	590	-1,177	-1,502	-961
50%	-284	204	4,565	67	113	-258	231	583	629	-653	-1,461	-1,059
60%	-452	1,635	4,049	-90	-103	-38	180	709	836	-453	-1,148	-569
70%	2,248	3,977	1,070	70	35	-8	55	337	316	-231	-728	1,330
80%	2,266	3,809	831	42	12	16	25	145	189	20	-662	1,542
90%	2,074	1,972	1,045	128	45	4	25	22	37	7	-853	1,405
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	542	1,158	1,292	334	123	-22	105	482	437	-204	-585	179
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	693	1,542	1,190	121	11	-9	76	315	377	151	-321	1,372
Above Normal (15%)	699	1,205	1,533	293	-34	-72	103	563	501	79	-117	-757
Below Normal (17%)	570	1,142	1,446	261	-36	-132	132	760	593	-1,789	-2,838	-984
Dry (22%)	498	1,000	1,372	649	352	-20	104	629	528	156	107	109
Critical (15%)	88	533	969	448	366	124	138	219	185	54	-31	-12

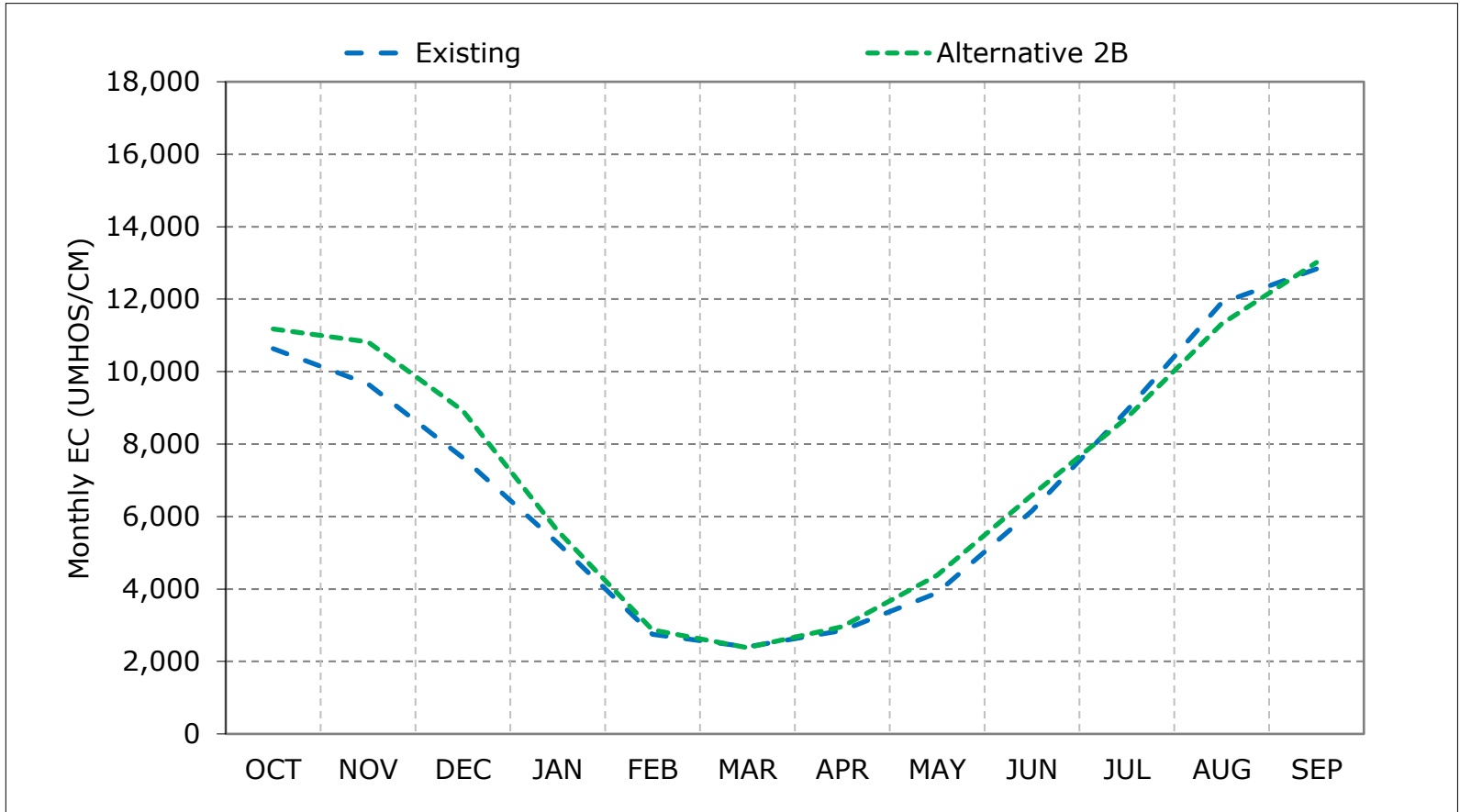
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Salinity (EC).

**Figure 25-1. Goodyear Slough Outfall at Naval Fleet, Long-Term Average EC**

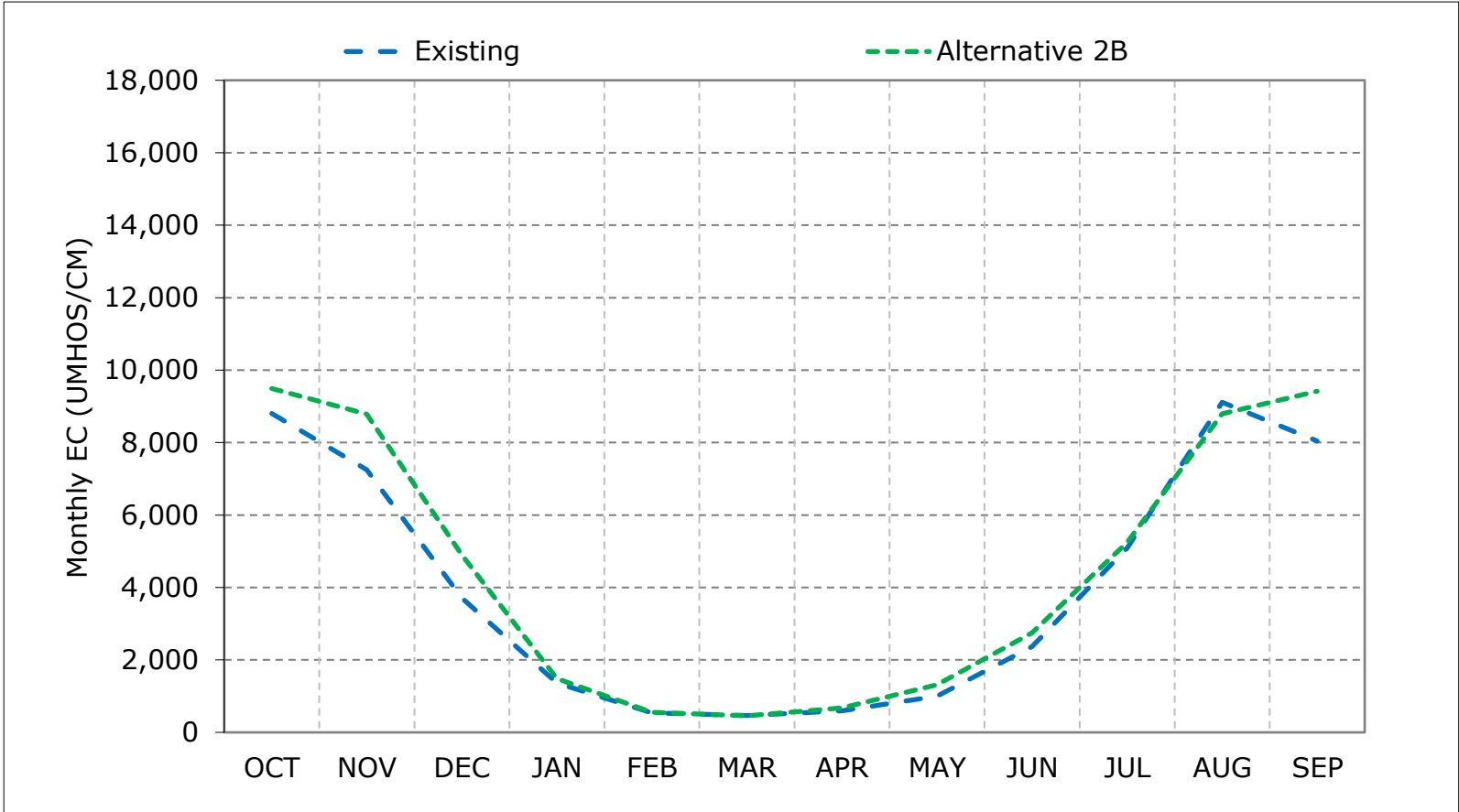


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



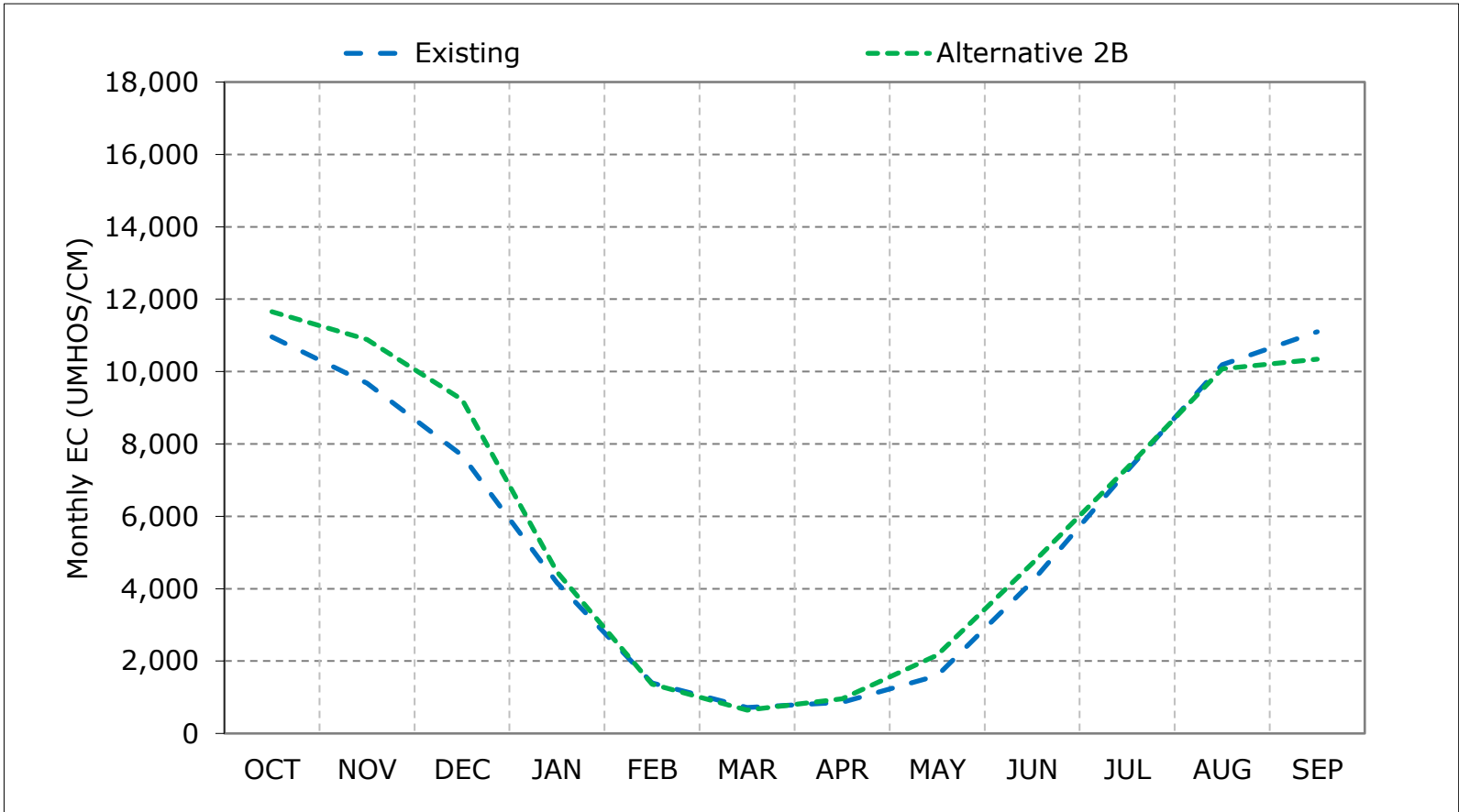
**Figure 25-2. Goodyear Slough Outfall at Naval Fleet, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

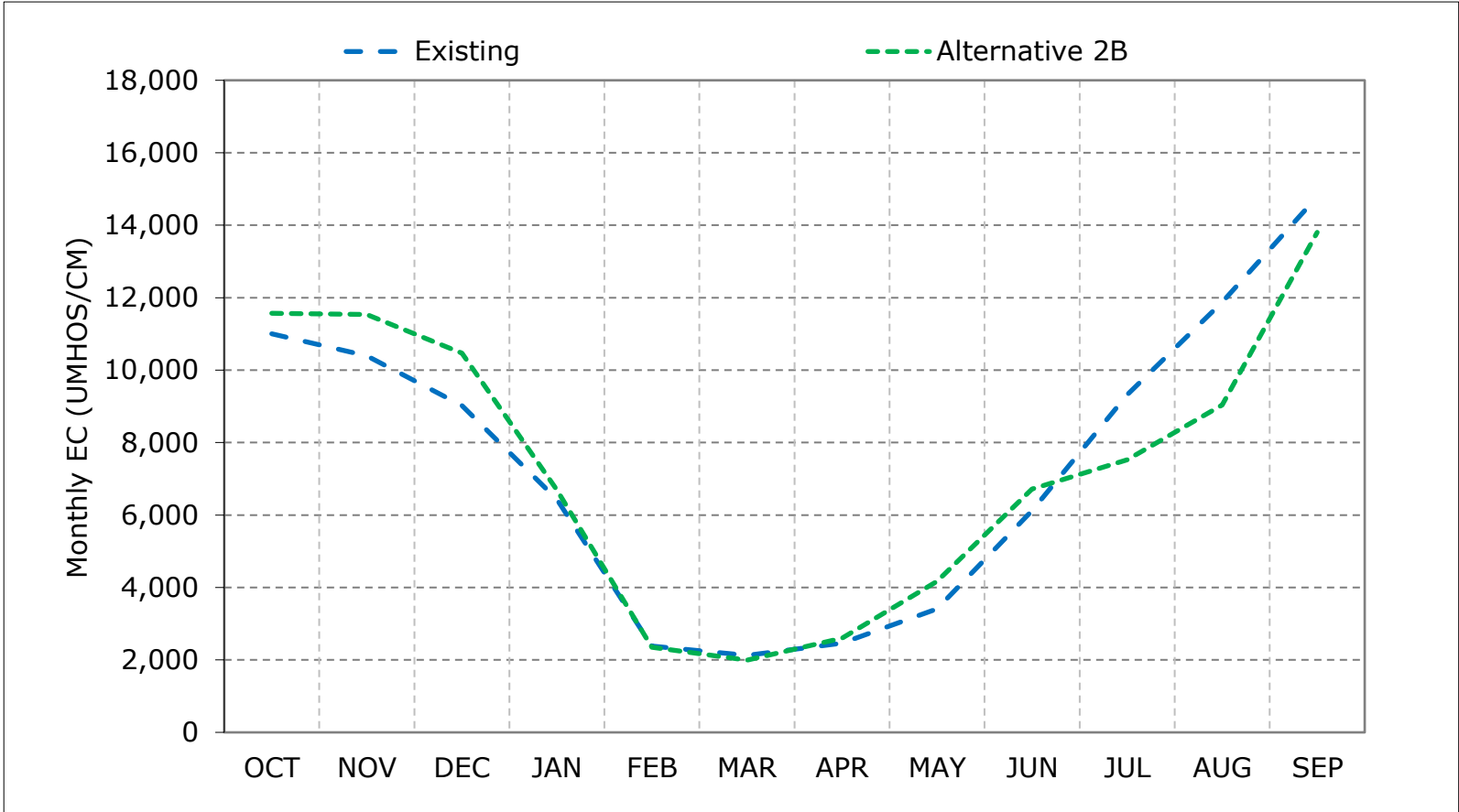
**Figure 25-3. Goodyear Slough Outfall at Naval Fleet, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

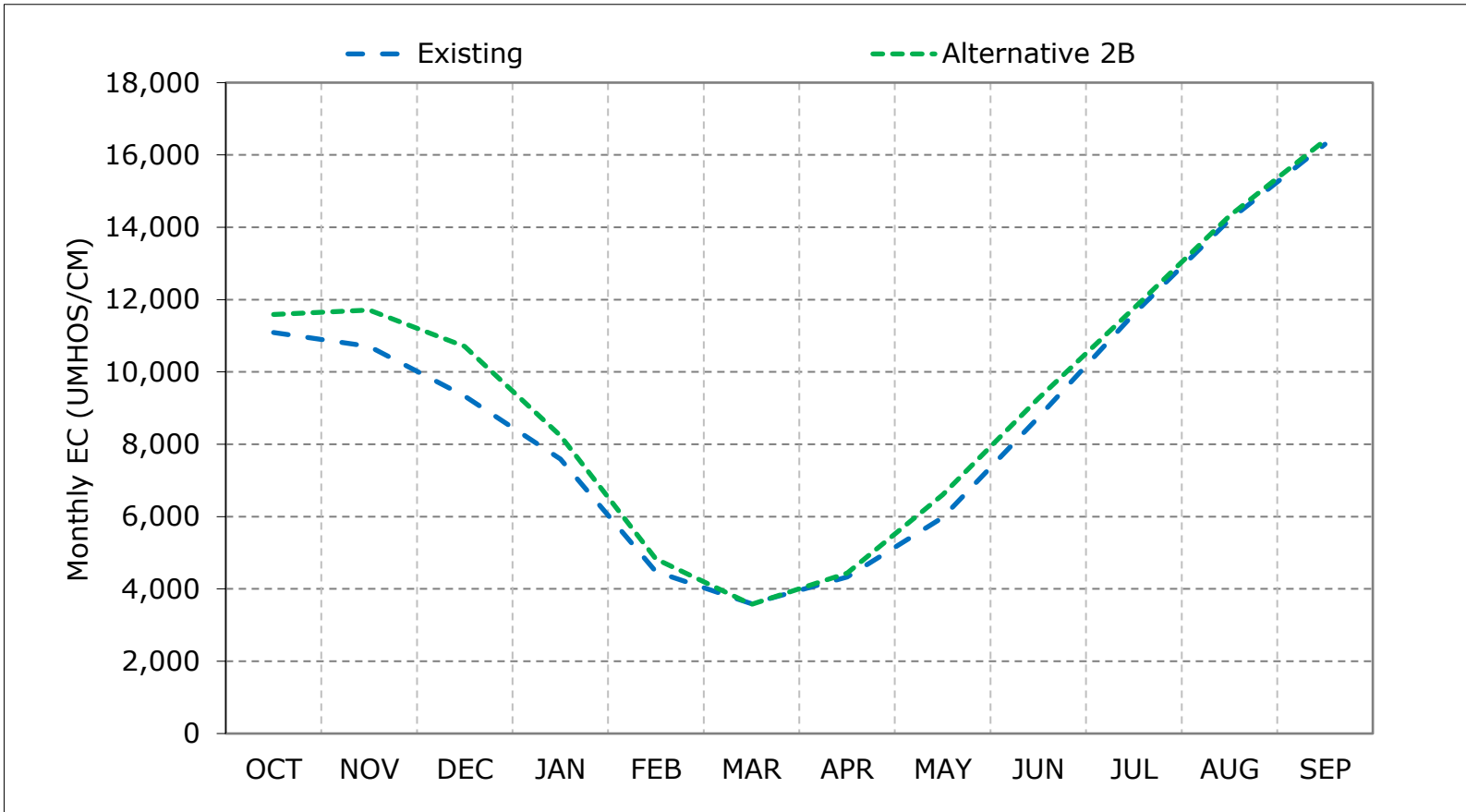
**Figure 25-4. Goodyear Slough Outfall at Naval Fleet, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

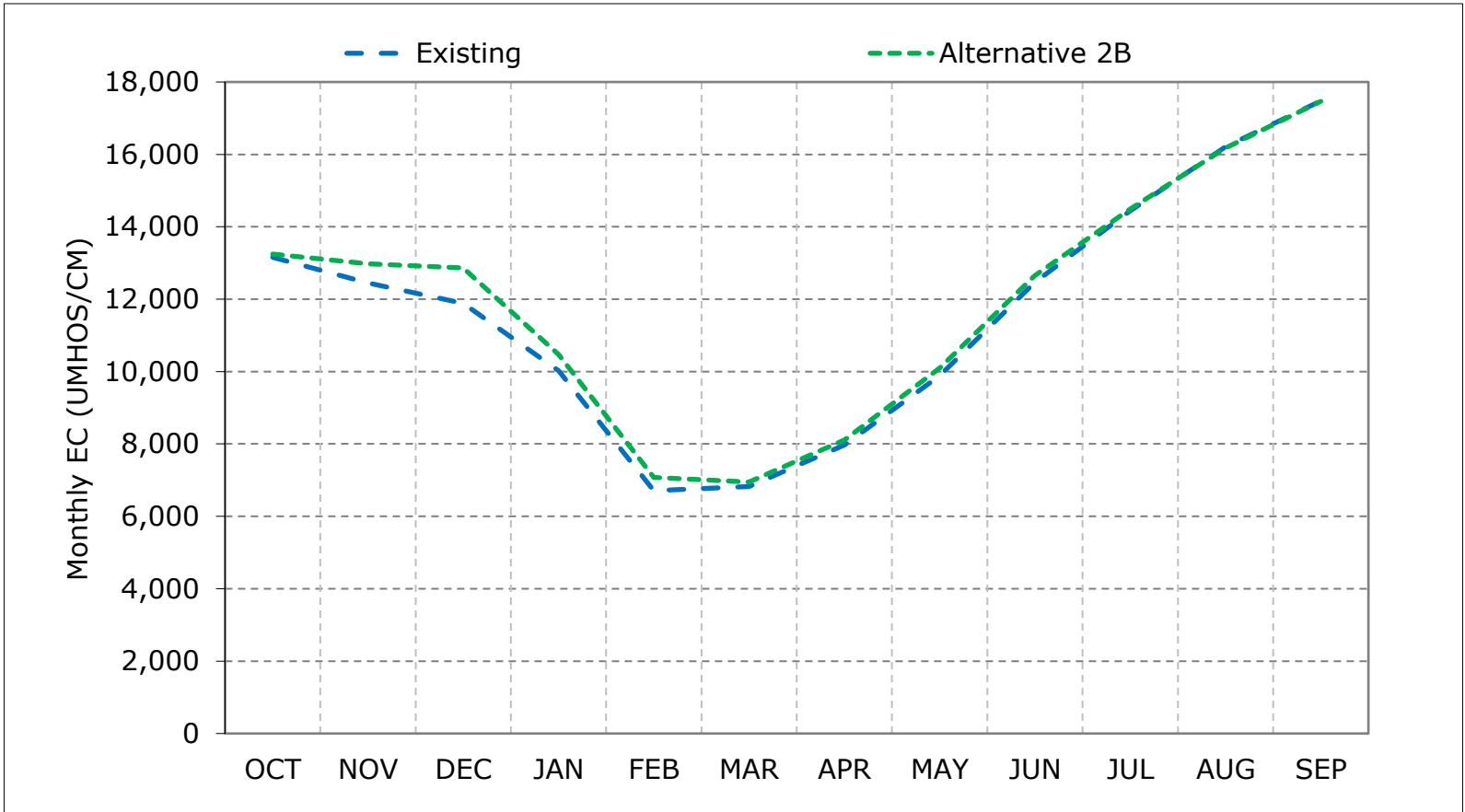
**Figure 25-5. Goodyear Slough Outfall at Naval Fleet, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

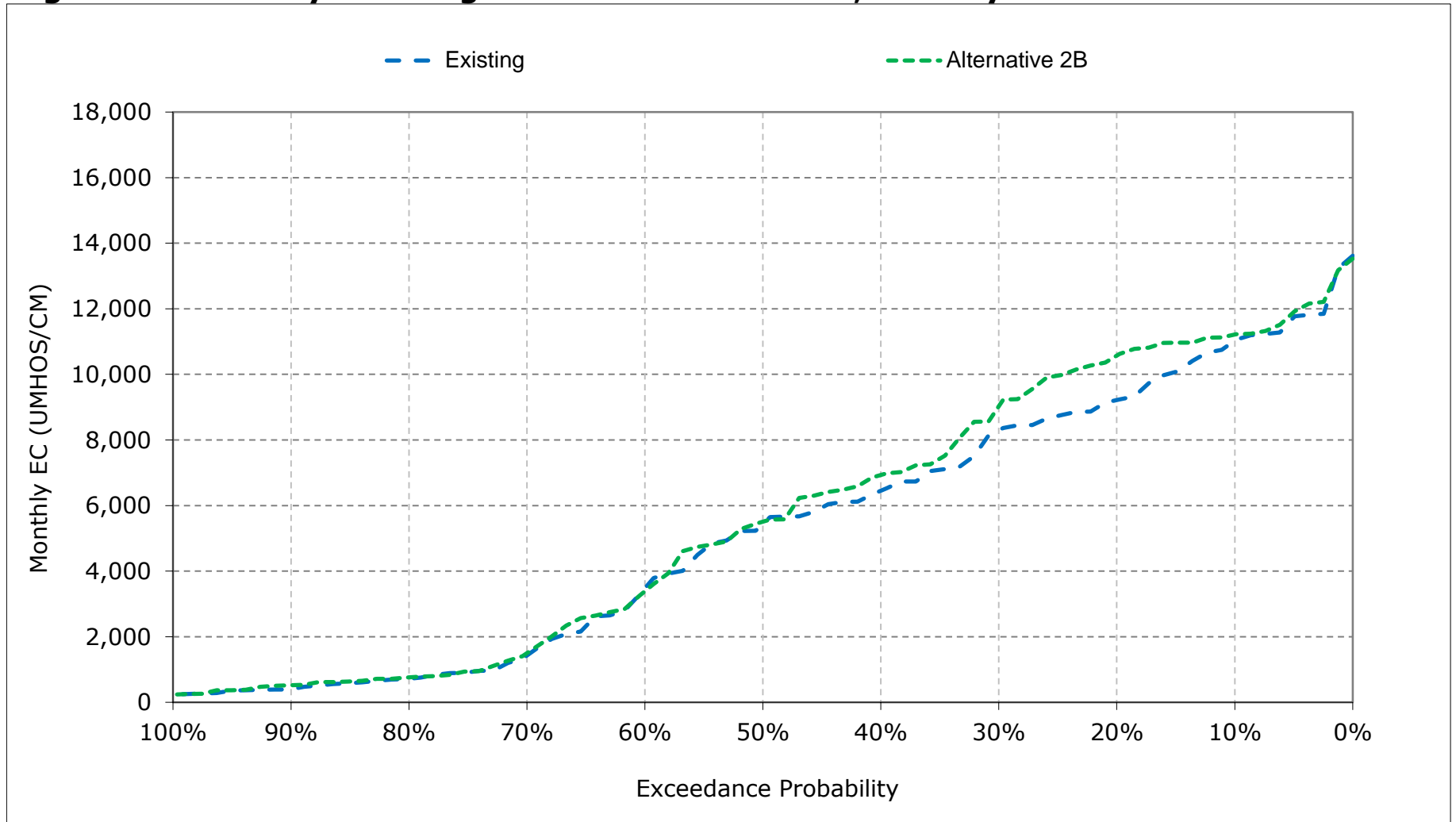
**Figure 25-6. Goodyear Slough Outfall at Naval Fleet, Critical Year Average EC**



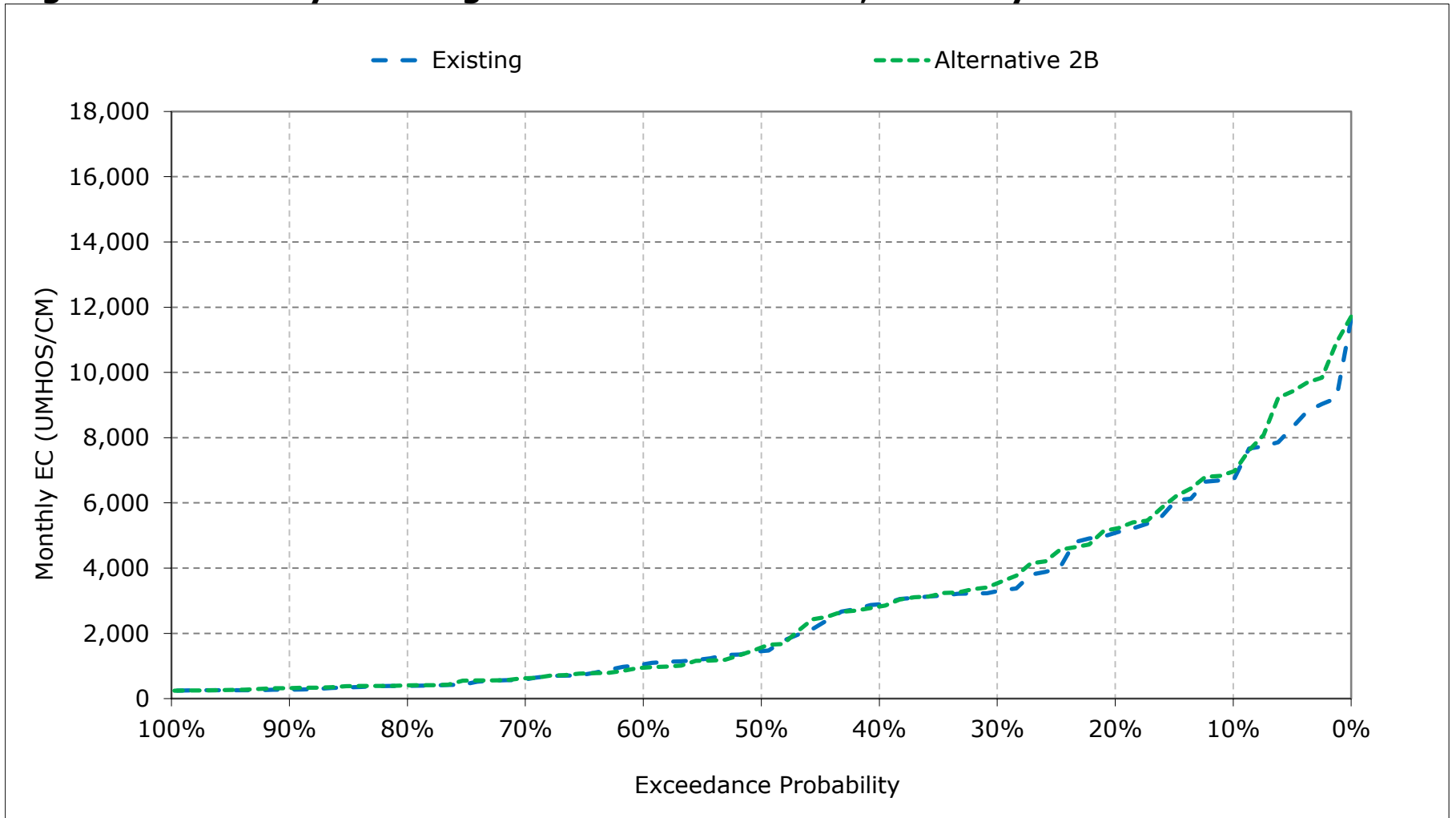
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.

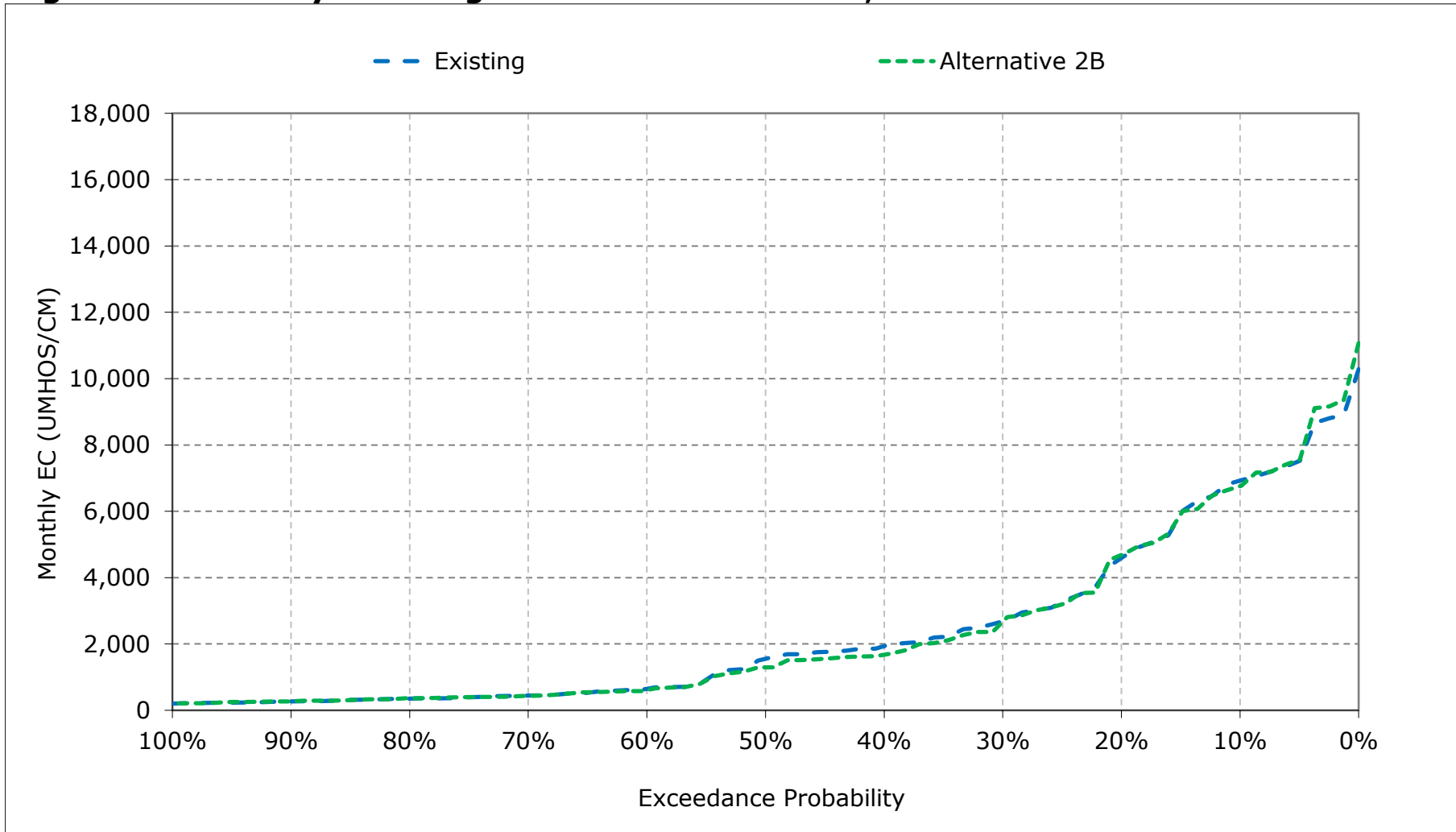
**Figure 25-7. Goodyear Slough Outfall at Naval Fleet, January EC**



**Figure 25-8. Goodyear Slough Outfall at Naval Fleet, February EC**

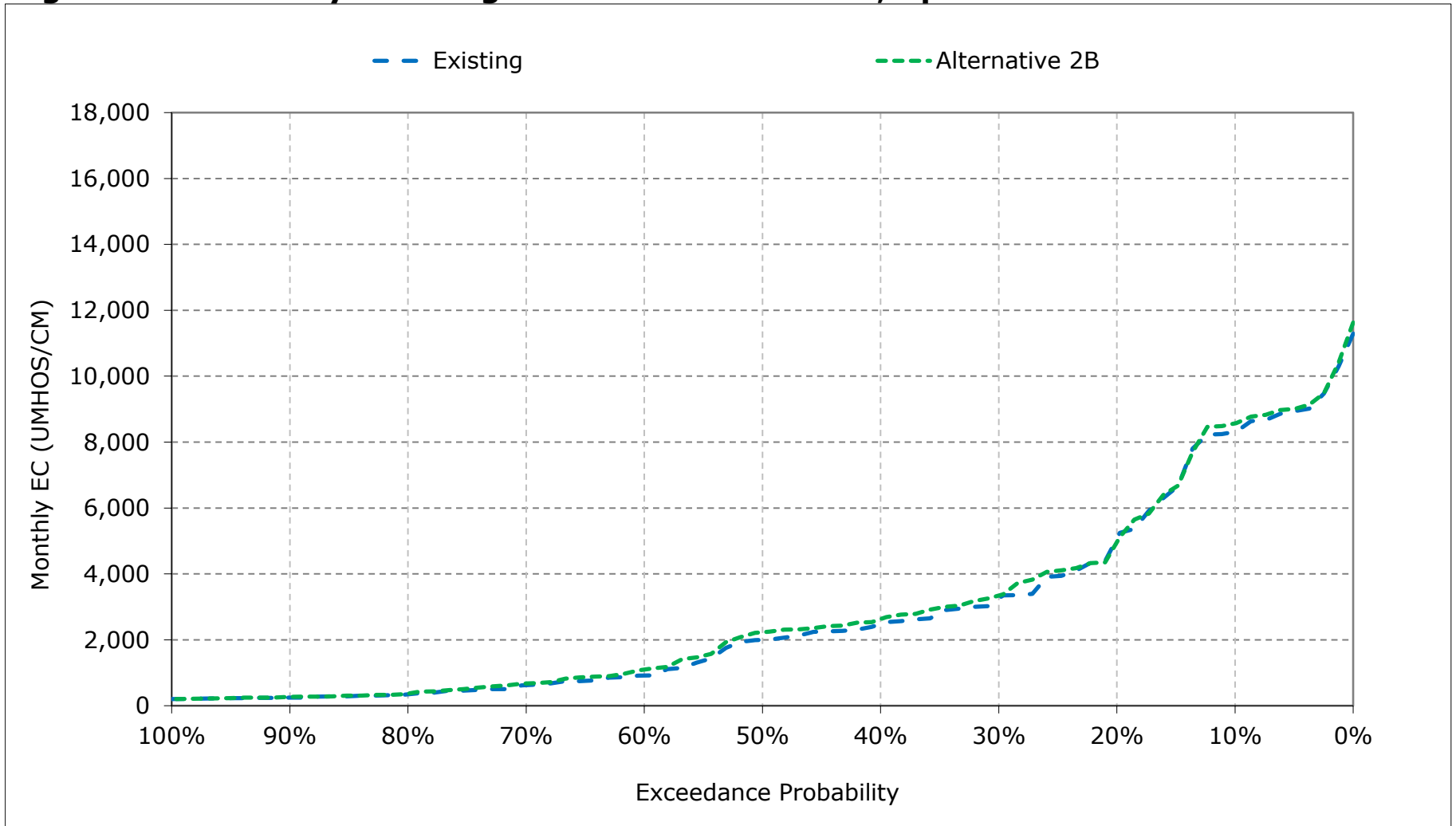


**Figure 25-9. Goodyear Slough Outfall at Naval Fleet, March EC**

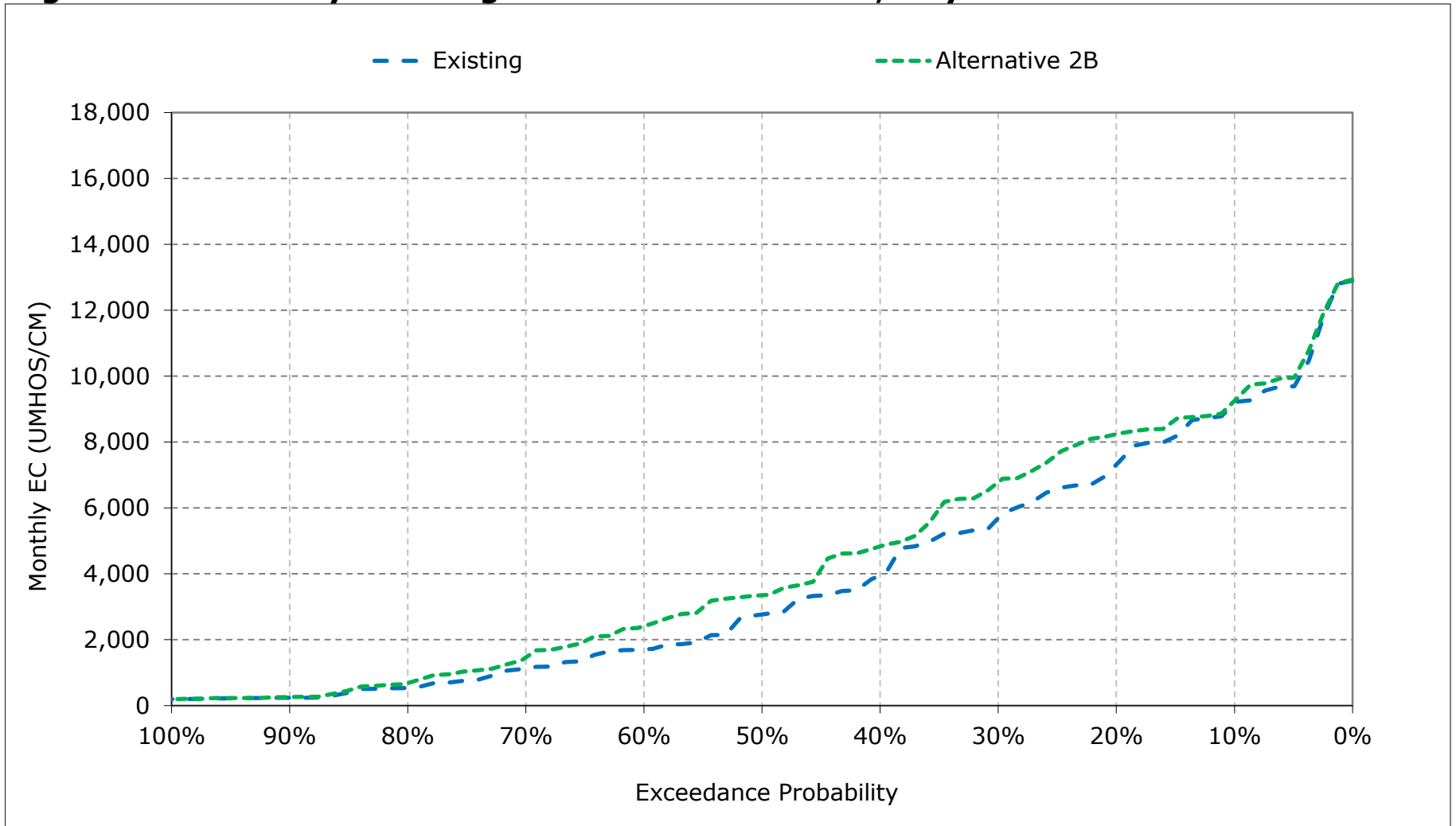




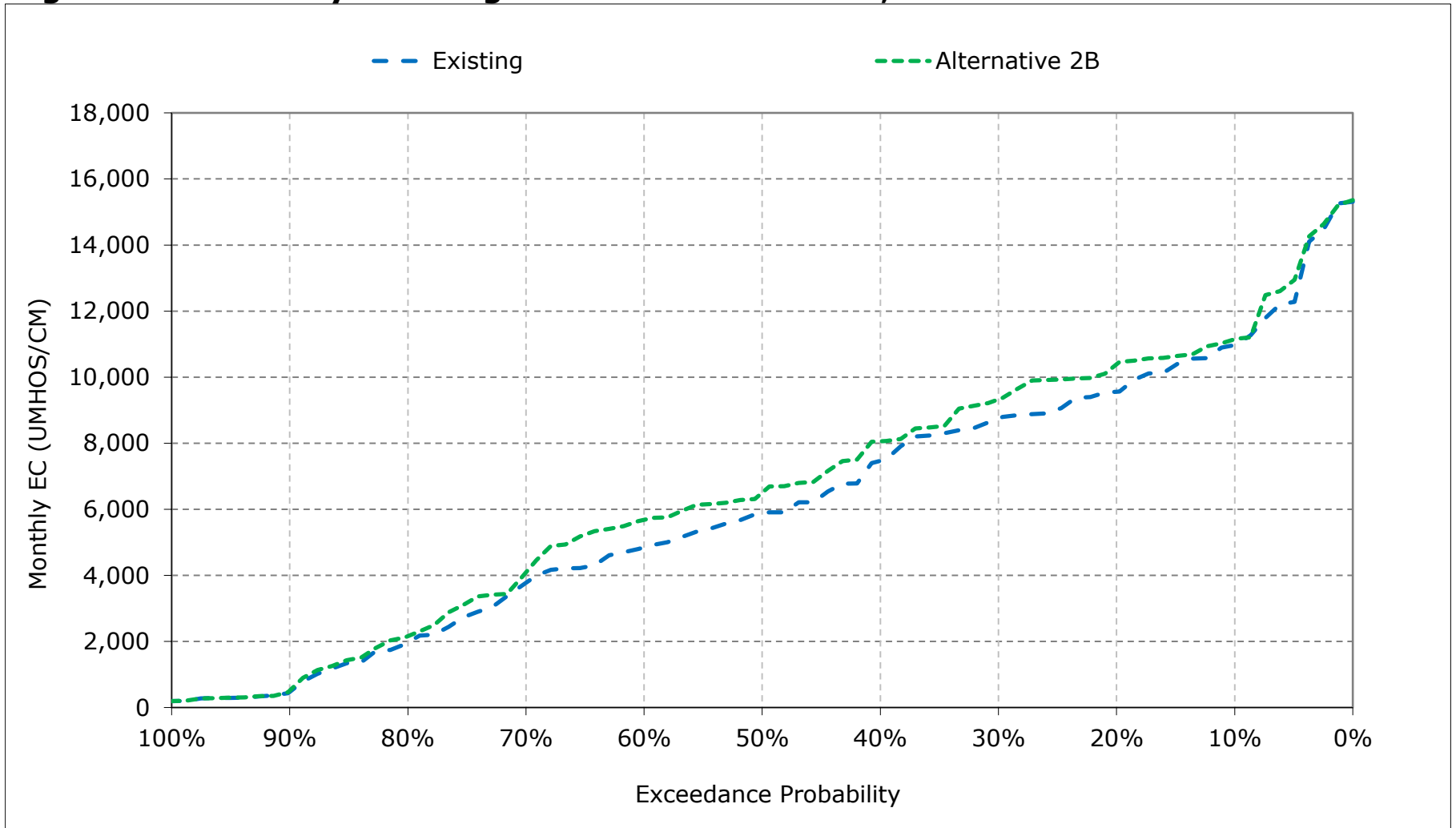
**Figure 25-10. Goodyear Slough Outfall at Naval Fleet, April EC**



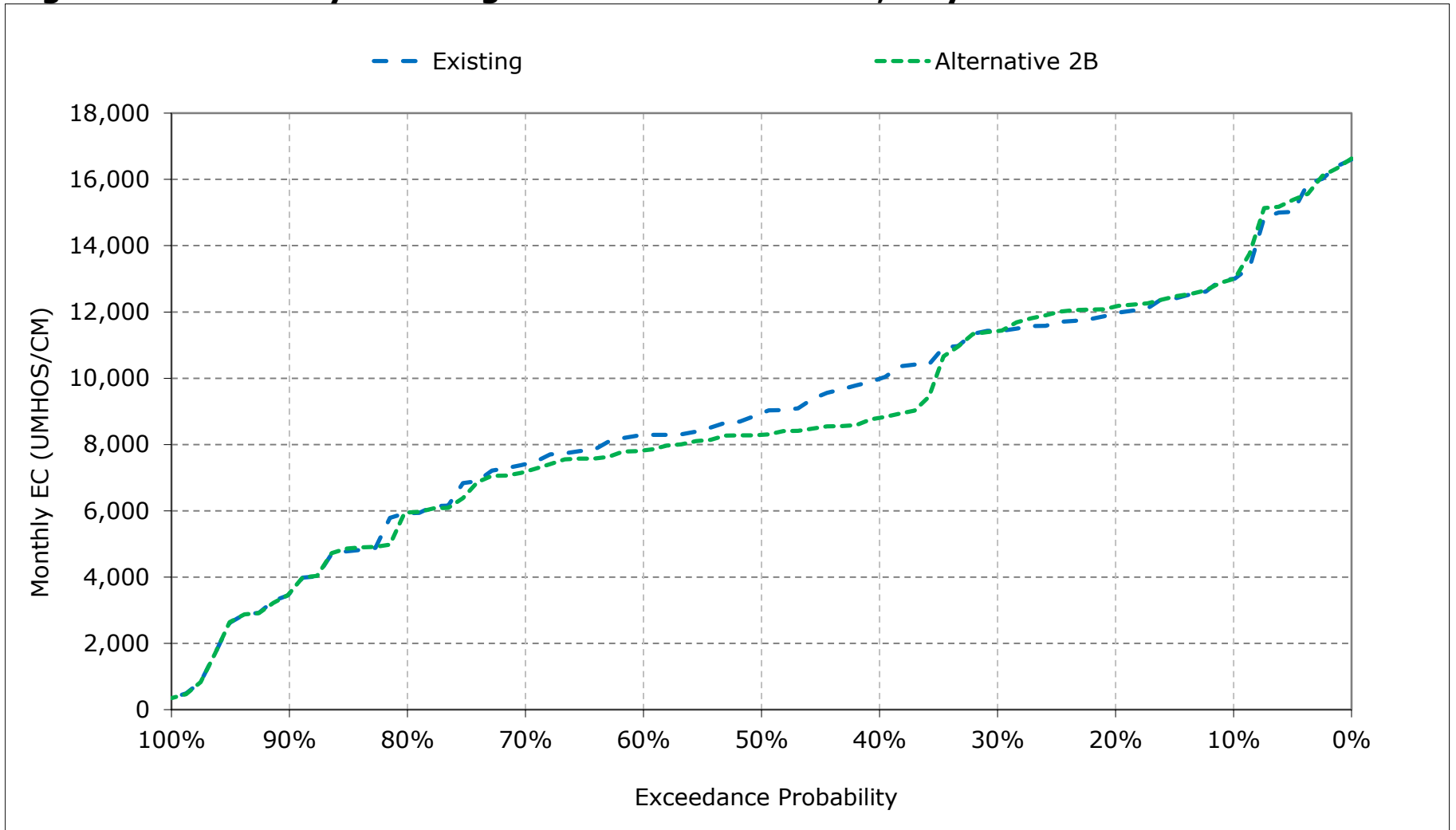
**Figure 25-11. Goodyear Slough Outfall at Naval Fleet, May EC**



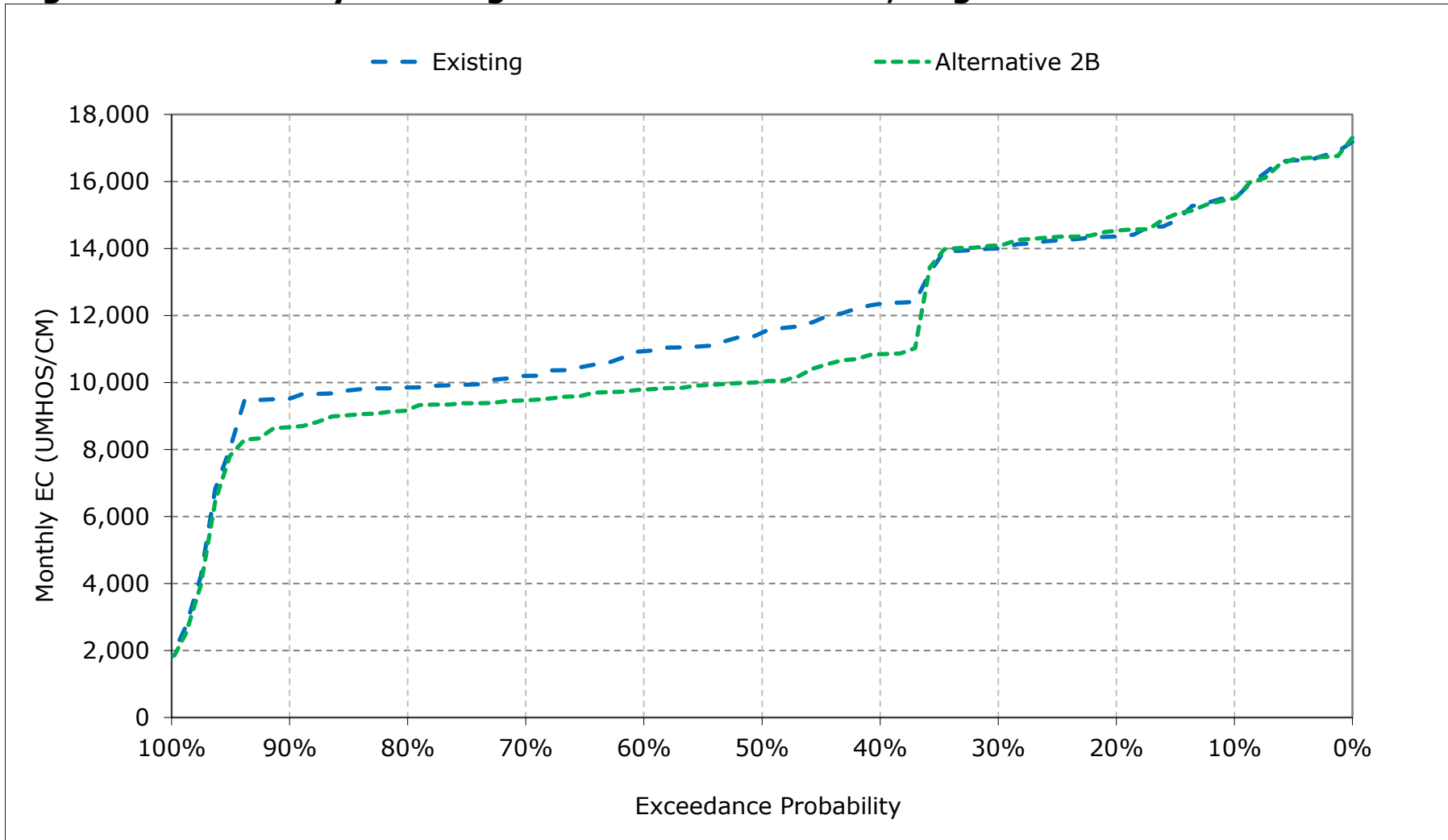
**Figure 25-12. Goodyear Slough Outfall at Naval Fleet, June EC**



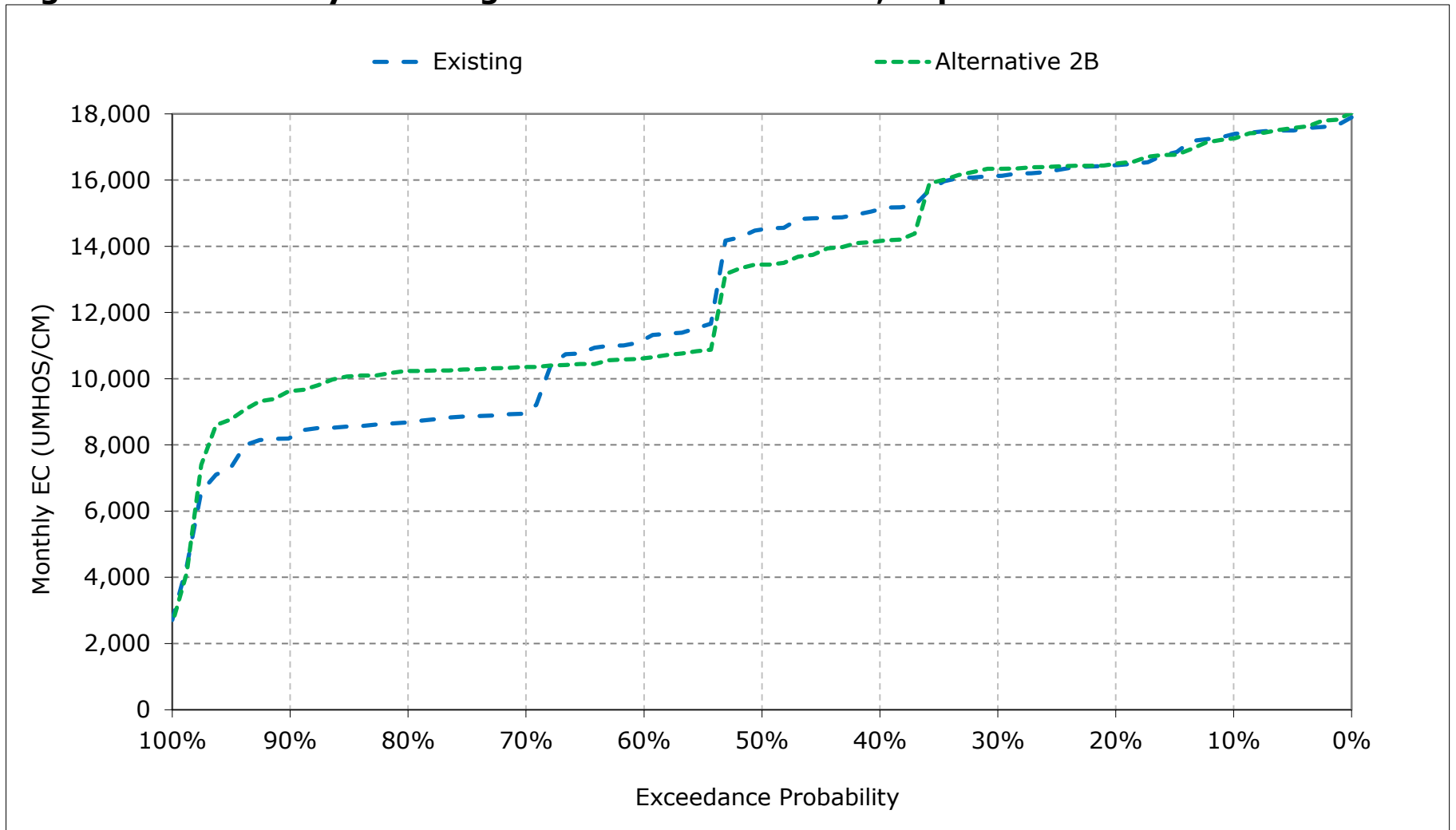
**Figure 25-13. Goodyear Slough Outfall at Naval Fleet, July EC**



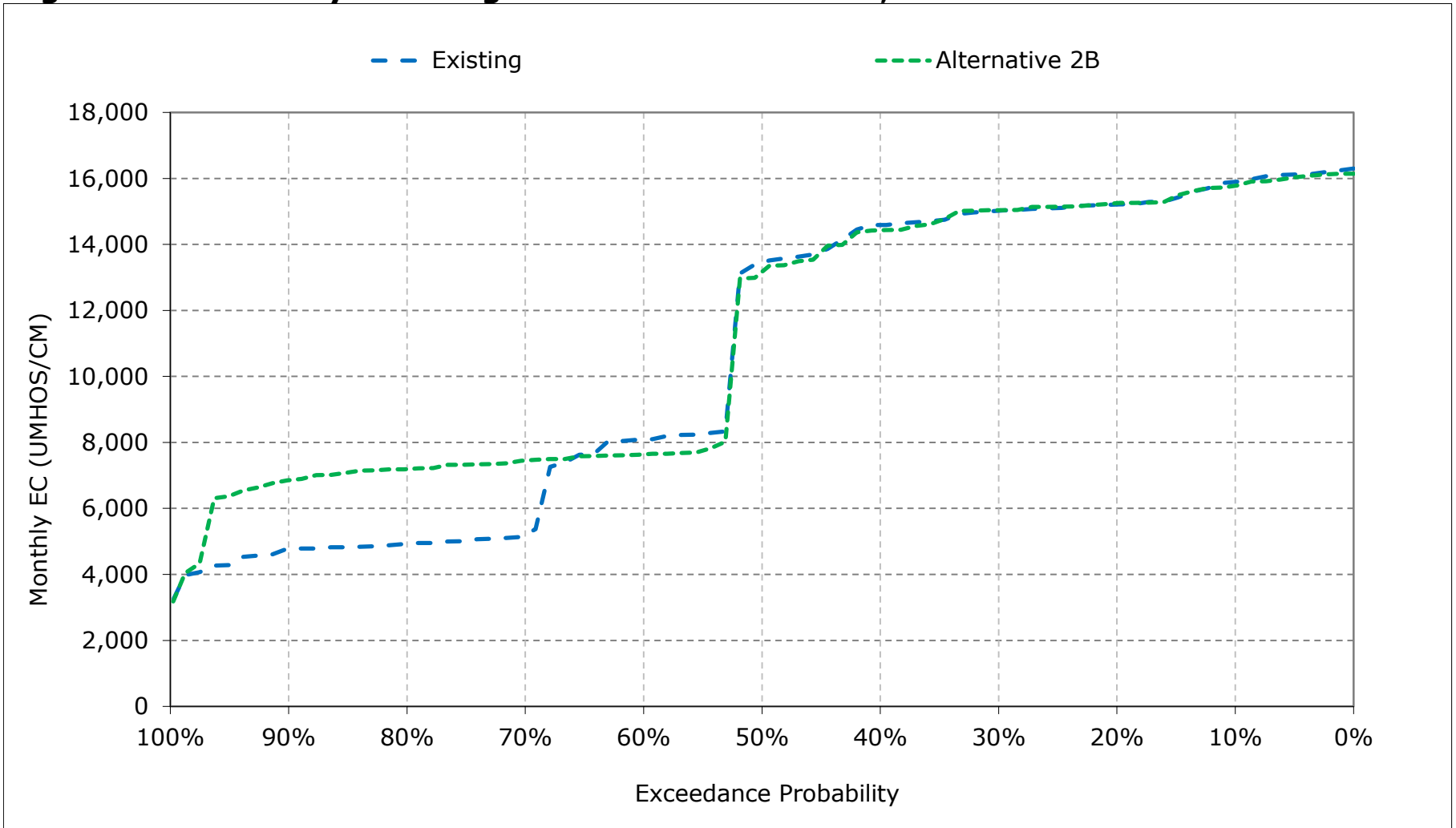
**Figure 25-14. Goodyear Slough Outfall at Naval Fleet, August EC**



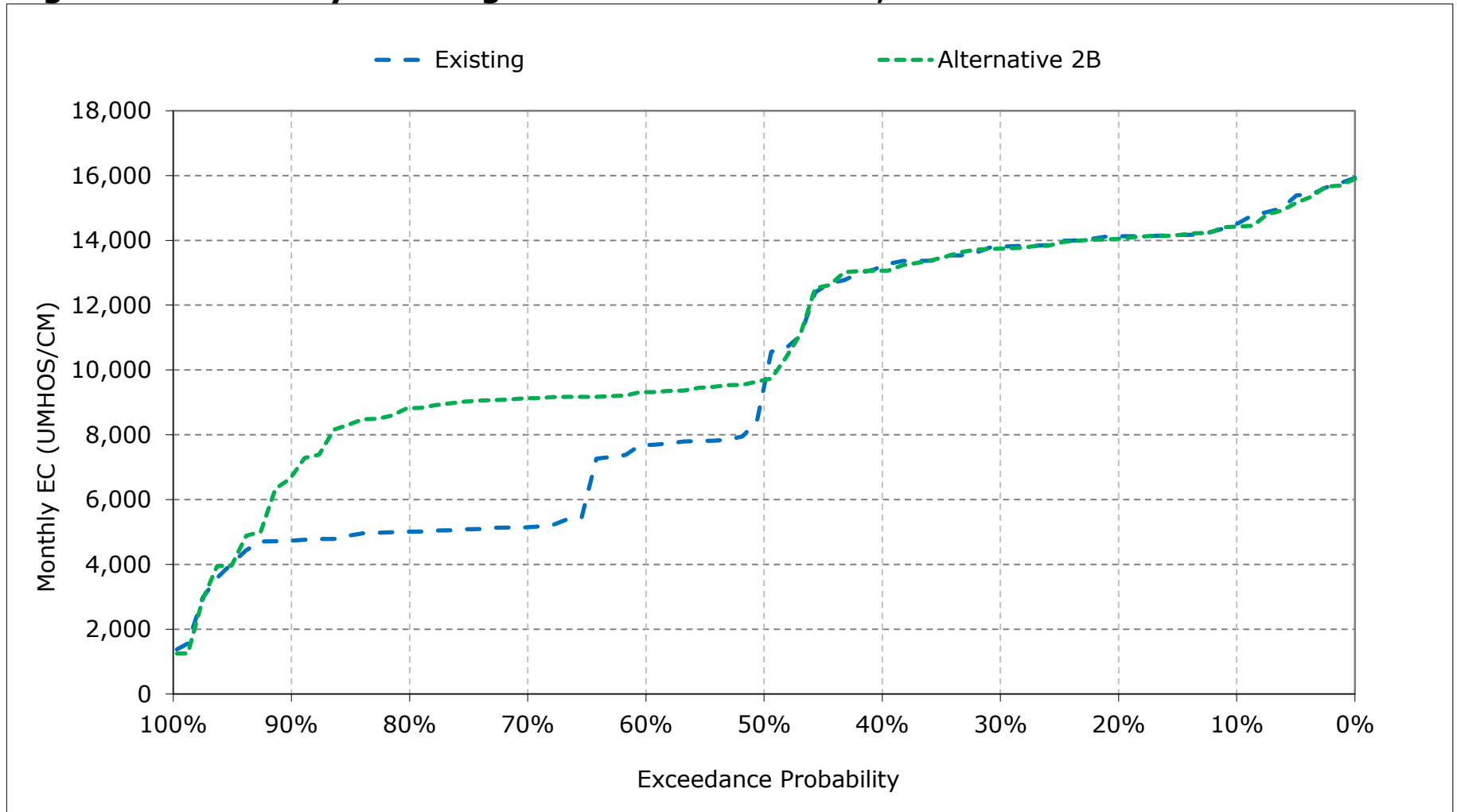
**Figure 25-15. Goodyear Slough Outfall at Naval Fleet, September EC**



**Figure 25-16. Goodyear Slough Outfall at Naval Fleet, October EC**

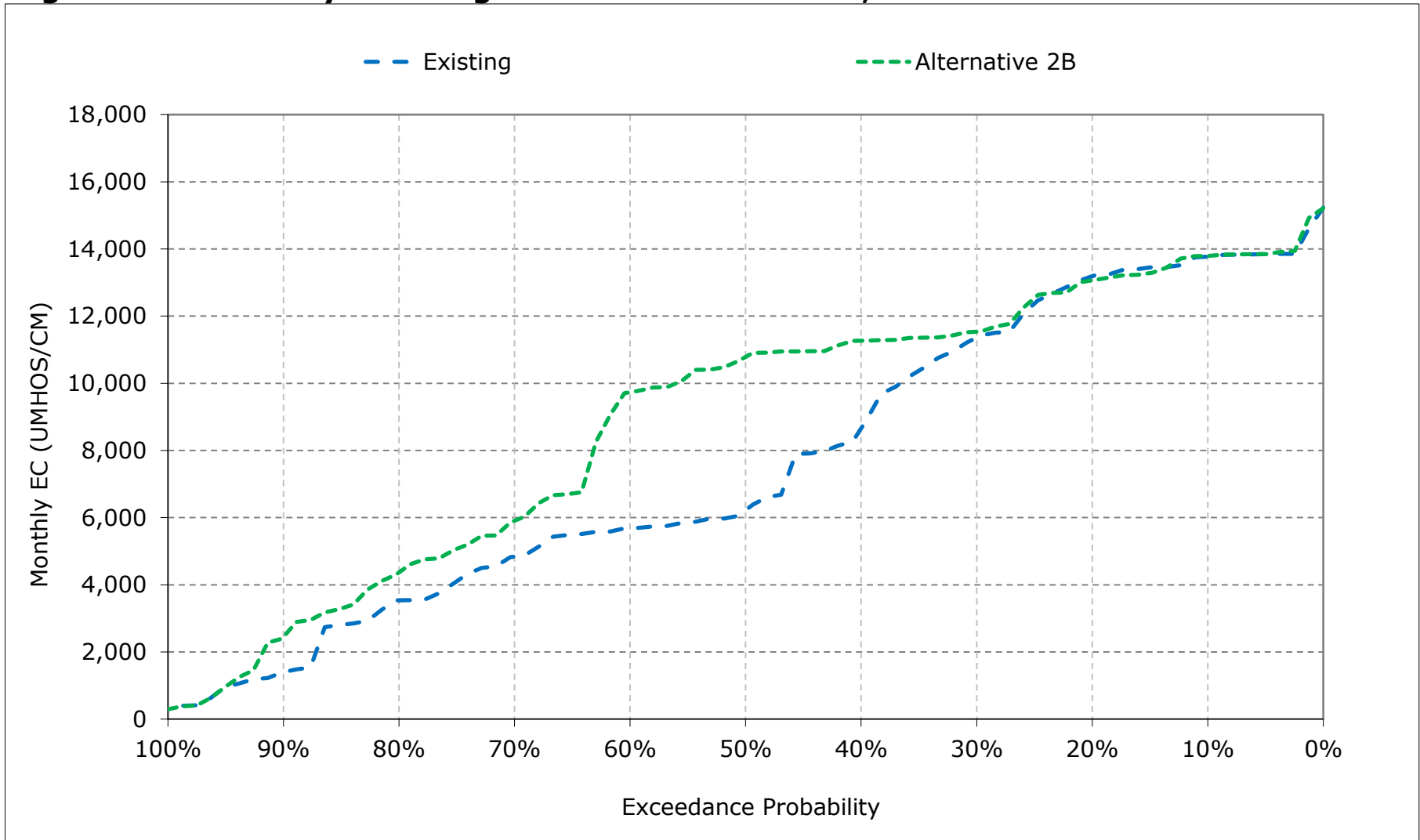


**Figure 25-17. Goodyear Slough Outfall at Naval Fleet, November EC**





**Figure 25-18. Goodyear Slough Outfall at Naval Fleet, December EC**



**Table 26-1. Threemile Slough, Monthly EC**

**Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,347	1,984	1,700	742	307	268	271	375	546	998	1,698	2,252
20%	2,022	1,719	1,215	597	249	218	220	297	406	728	1,373	1,891
30%	1,969	1,620	697	465	232	203	208	248	382	633	1,284	1,810
40%	1,838	1,414	616	366	216	198	201	219	329	424	824	1,539
50%	1,467	529	469	295	207	194	199	208	290	390	739	1,179
60%	432	345	401	234	198	190	195	205	240	290	698	426
70%	289	237	272	206	192	188	192	198	219	279	635	389
80%	265	226	219	196	188	187	190	191	192	244	597	365
90%	256	214	188	188	186	185	187	186	186	225	559	340
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	1,220	980	701	395	240	211	216	266	375	531	955	1,145
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	882	556	291	212	190	188	191	193	209	243	568	336
Above Normal (15%)	1,290	1,007	604	300	207	191	195	200	254	275	618	418
Below Normal (17%)	1,253	980	886	404	218	201	205	220	293	399	778	1,366
Dry (22%)	1,331	1,197	793	492	264	216	218	260	388	673	1,326	1,846
Critical (15%)	1,679	1,549	1,330	729	368	287	301	556	931	1,354	1,784	2,316

**Alternative 2B**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,312	1,991	1,709	905	318	267	265	373	556	983	1,634	2,169
20%	2,063	1,742	1,262	701	259	218	221	301	425	732	1,372	1,921
30%	1,945	1,682	1,178	523	234	207	207	256	388	634	1,308	1,849
40%	1,809	1,411	1,001	398	218	200	199	210	318	412	937	1,701
50%	1,491	882	746	290	208	195	196	202	271	369	821	1,290
60%	401	809	593	240	196	192	192	195	232	297	520	324
70%	366	778	358	209	192	189	189	189	211	280	474	310
80%	352	664	268	197	188	187	188	185	189	250	451	296
90%	320	334	201	188	186	185	185	182	184	225	422	266
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	1,229	1,171	856	435	248	214	214	267	378	530	902	1,144
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	896	792	371	215	189	189	189	190	211	245	419	282
Above Normal (15%)	1,293	1,177	808	335	207	192	192	193	239	277	478	308
Below Normal (17%)	1,283	1,162	1,088	432	218	201	203	218	283	390	865	1,523
Dry (22%)	1,333	1,383	998	577	283	219	216	268	398	680	1,342	1,881
Critical (15%)	1,669	1,680	1,472	804	398	297	302	561	957	1,335	1,759	2,300

**Alternative 2B minus Existing**

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-35	7	8	163	11	-1	-6	-2	10	-15	-65	-82
20%	41	23	47	104	9	0	1	4	19	4	-1	30
30%	-24	62	481	58	2	3	-1	8	6	1	24	39
40%	-28	-3	385	32	2	2	-2	-8	-11	-11	114	162
50%	24	352	276	-5	1	1	-3	-6	-19	-21	82	111
60%	-31	464	192	6	-2	-3	-3	-10	-8	7	-178	-101
70%	77	541	87	3	0	0	-3	-8	-7	1	-161	-79
80%	87	438	49	2	0	0	-3	-6	-3	6	-146	-69
90%	64	120	13	0	0	1	-2	-4	-2	0	-137	-74
<b>Long Term</b>												
Full Simulation Period <sup>a</sup>	9	191	155	41	8	2	-2	0	3	-2	-53	-1
<b>Water Year Types<sup>b</sup></b>												
Wet (32%)	14	236	80	4	0	1	-2	-3	2	3	-148	-53
Above Normal (15%)	2	170	204	35	0	1	-3	-7	-15	2	-140	-109
Below Normal (17%)	30	182	202	28	0	0	-2	-1	-10	-9	87	157
Dry (22%)	2	186	205	85	19	2	-2	8	10	8	15	36
Critical (15%)	-9	131	142	75	29	10	2	6	26	-19	-25	-16

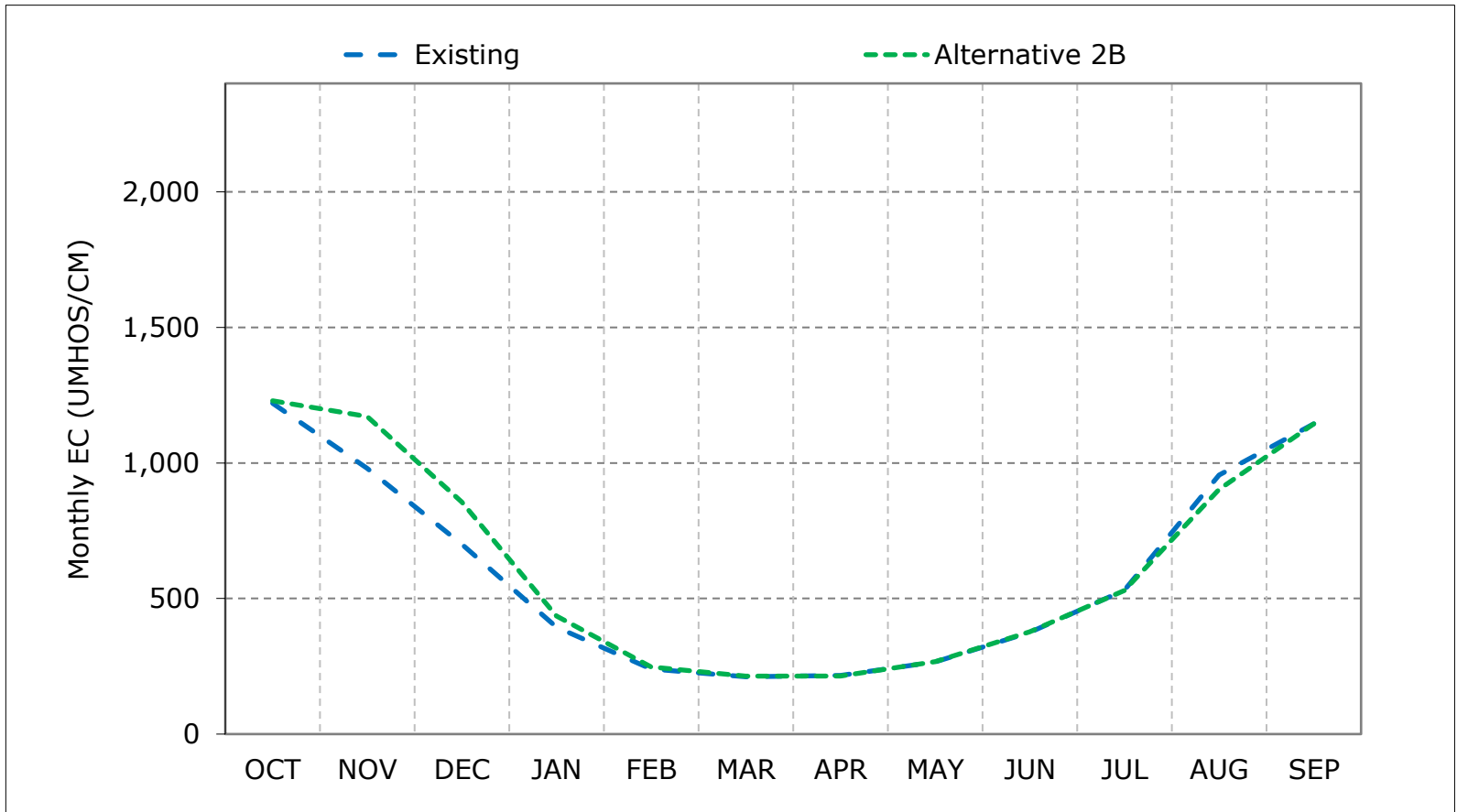
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highlighted in red color which indicate increase in Salinity (EC).

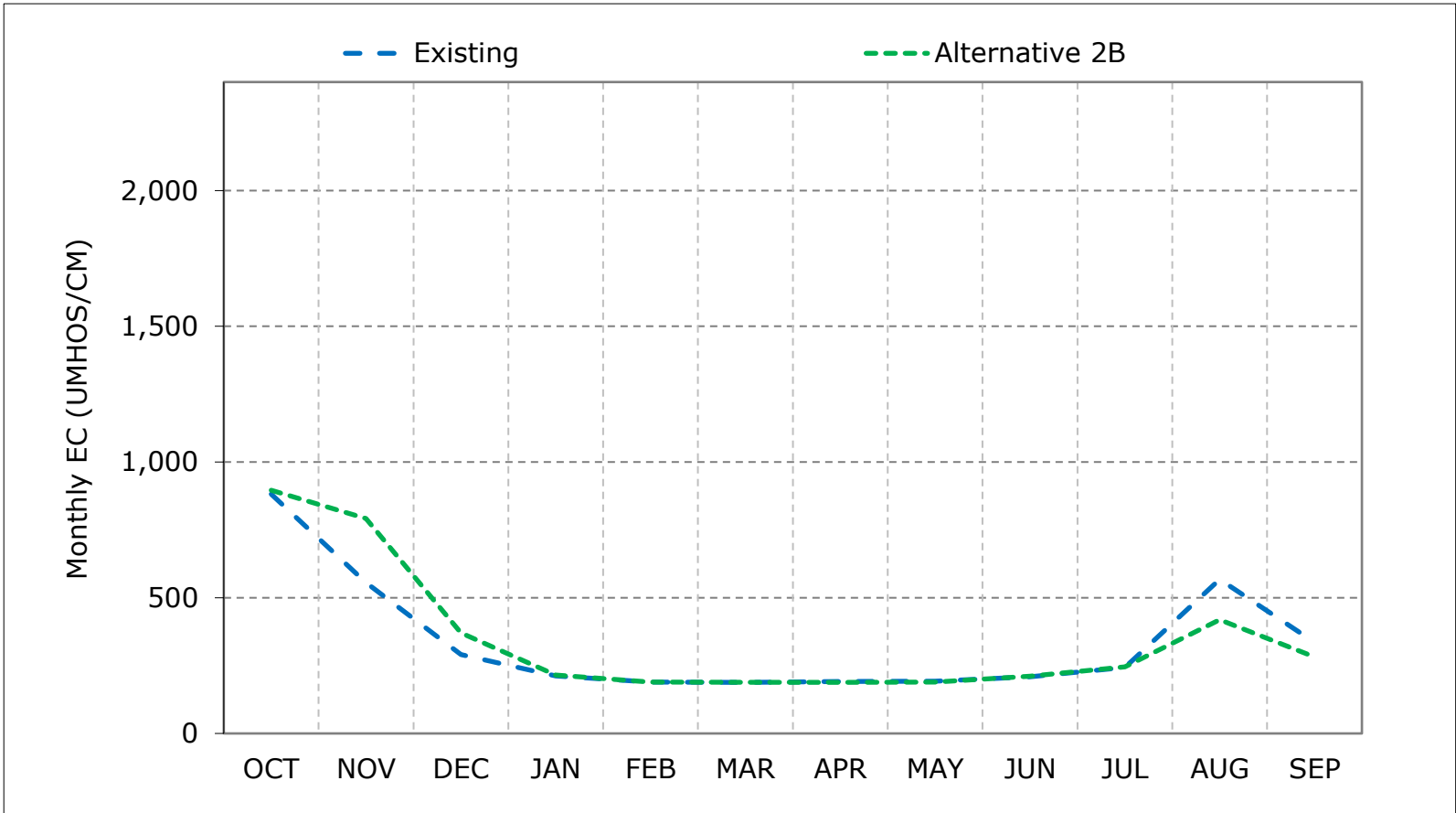
**Figure 26-1. Threemile Slough, Long-Term Average EC**



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

\*These results are displayed with water year - year type sorting.

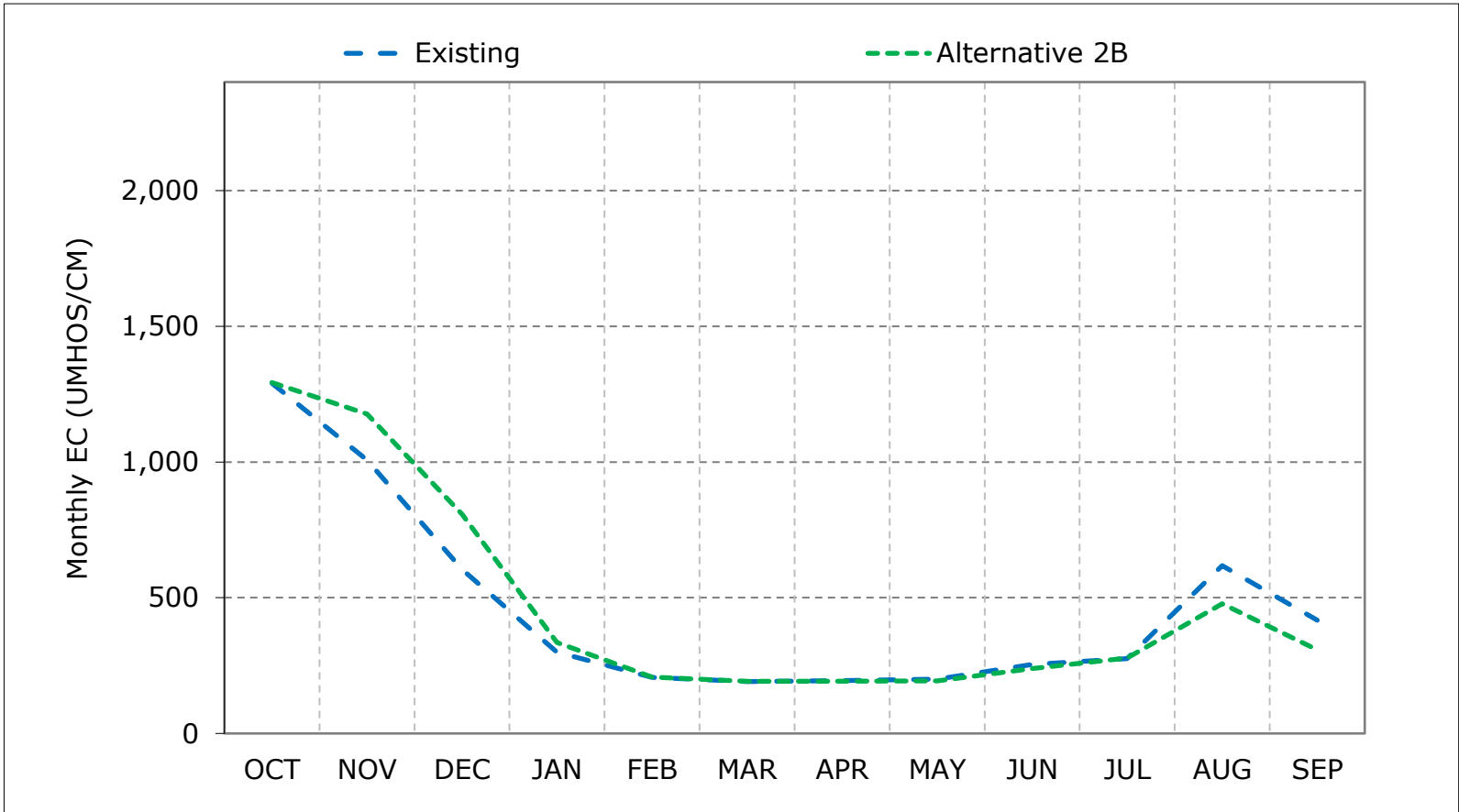
**Figure 26-2. Threemile Slough, Wet Year Average EC**



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

\*These results are displayed with water year - year type sorting.

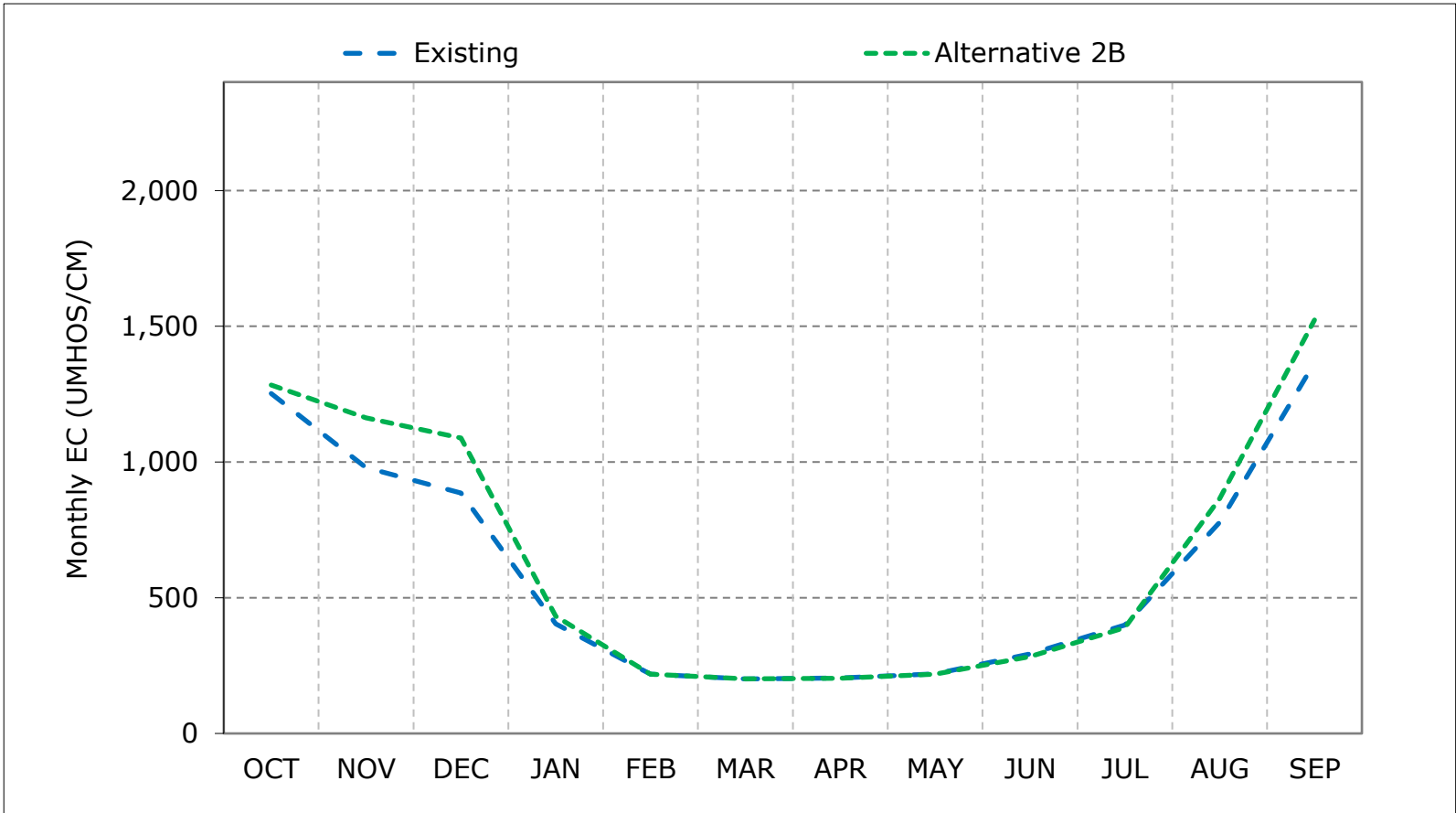
**Figure 26-3. Threemile Slough, Above Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

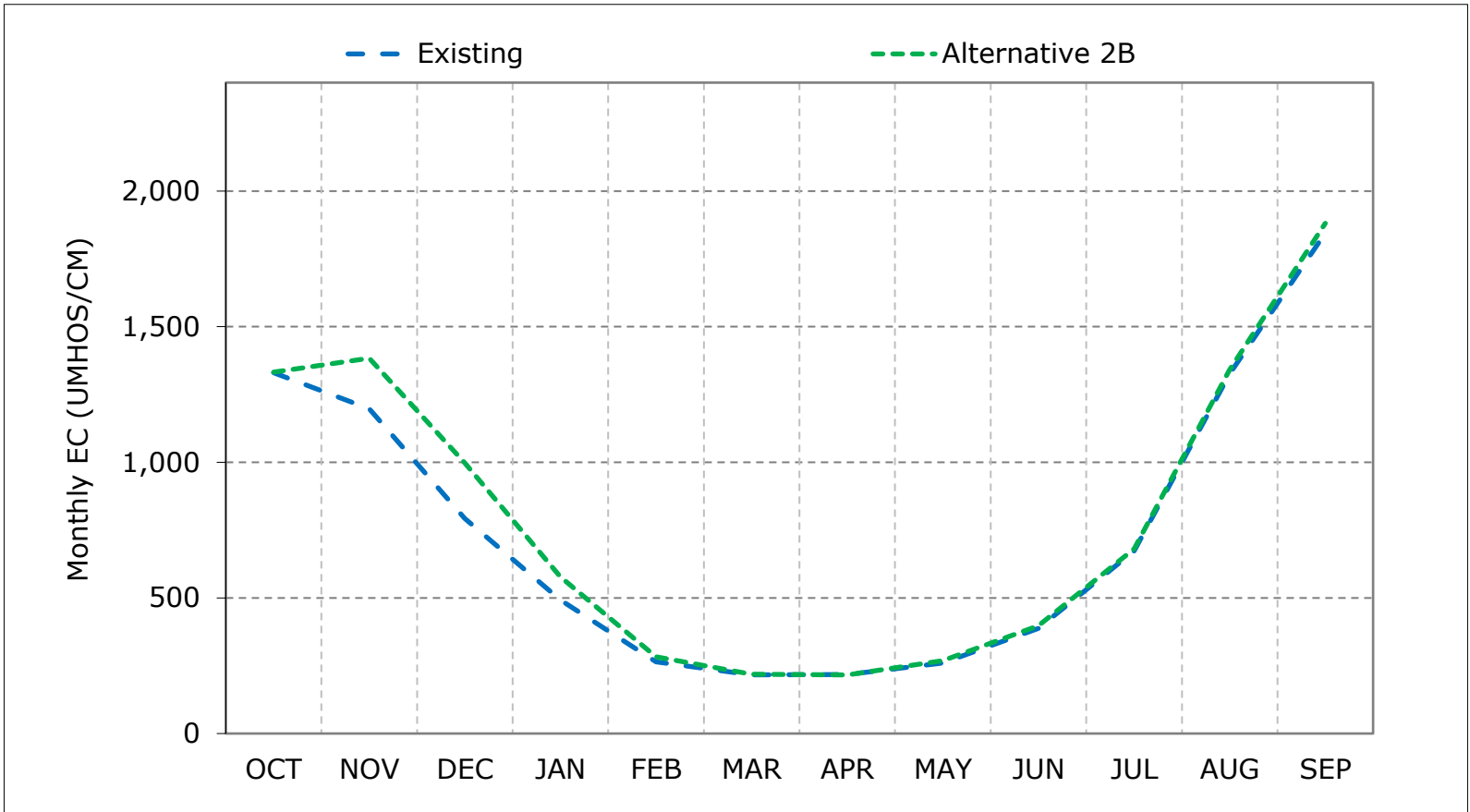
**Figure 26-4. Threemile Slough, Below Normal Year Average EC**



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

\*These results are displayed with water year - year type sorting.

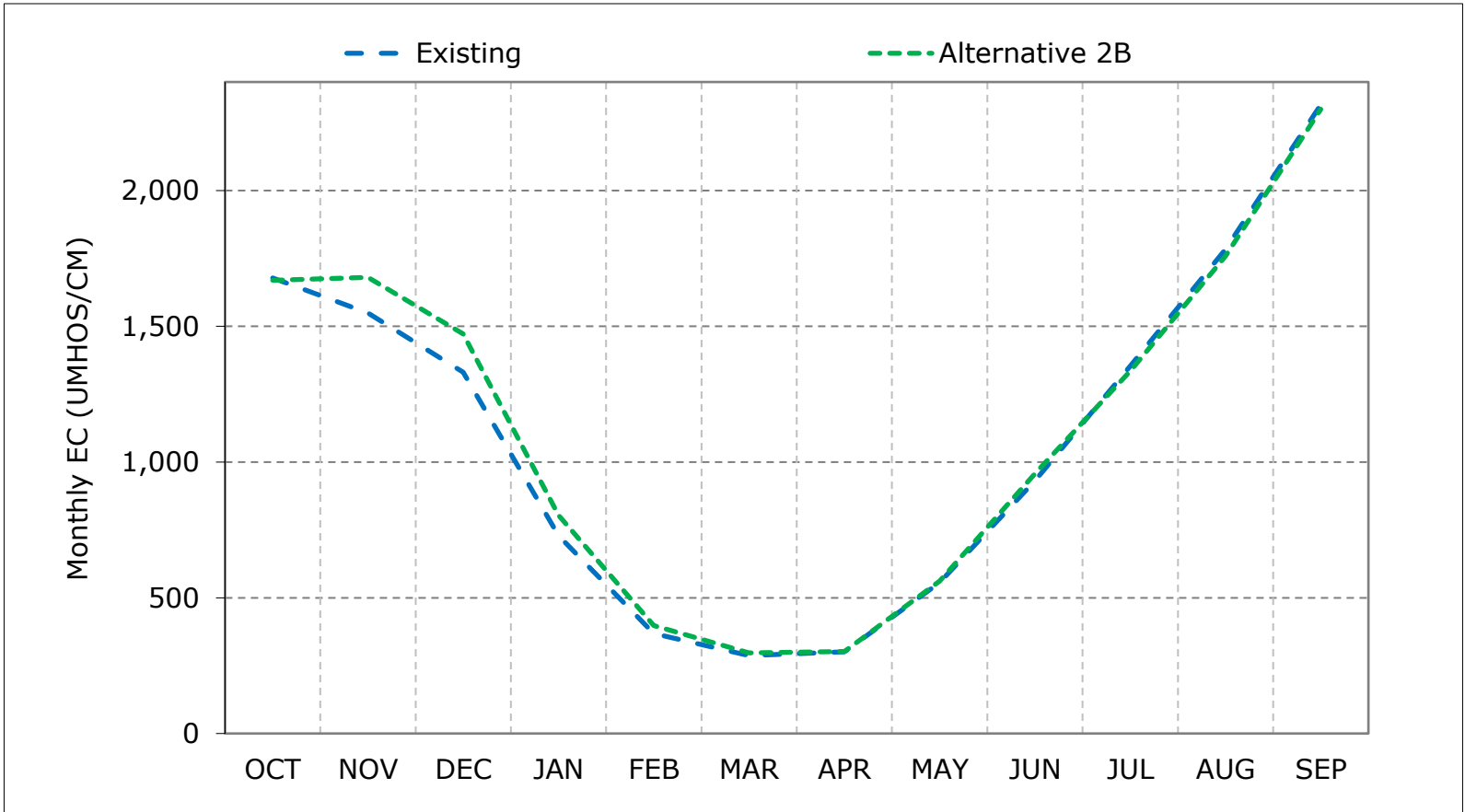
**Figure 26-5. Threemile Slough, Dry Year Average EC**



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

\*These results are displayed with water year - year type sorting.

**Figure 26-6. Threemile Slough, Critical Year Average EC**

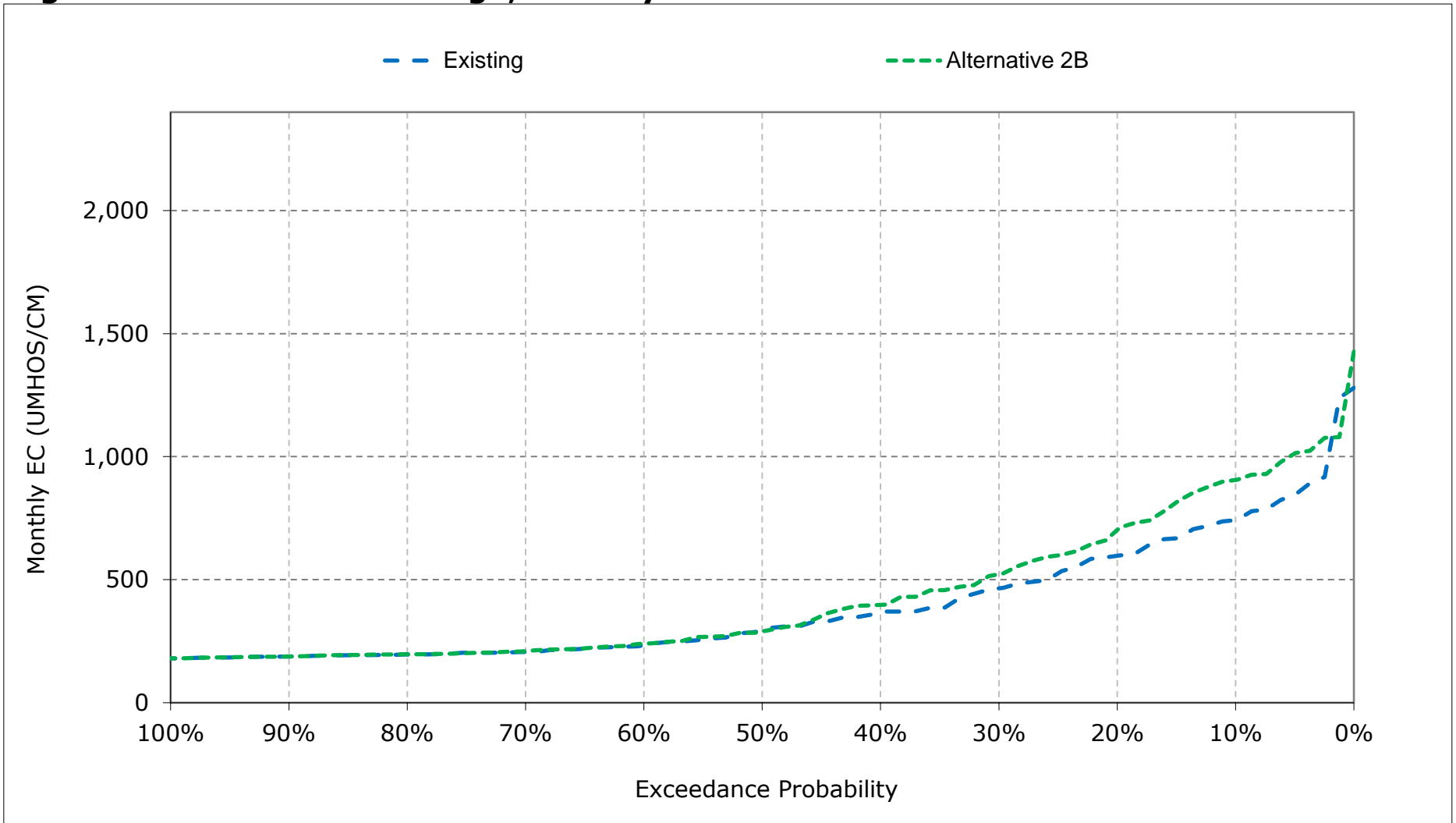


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

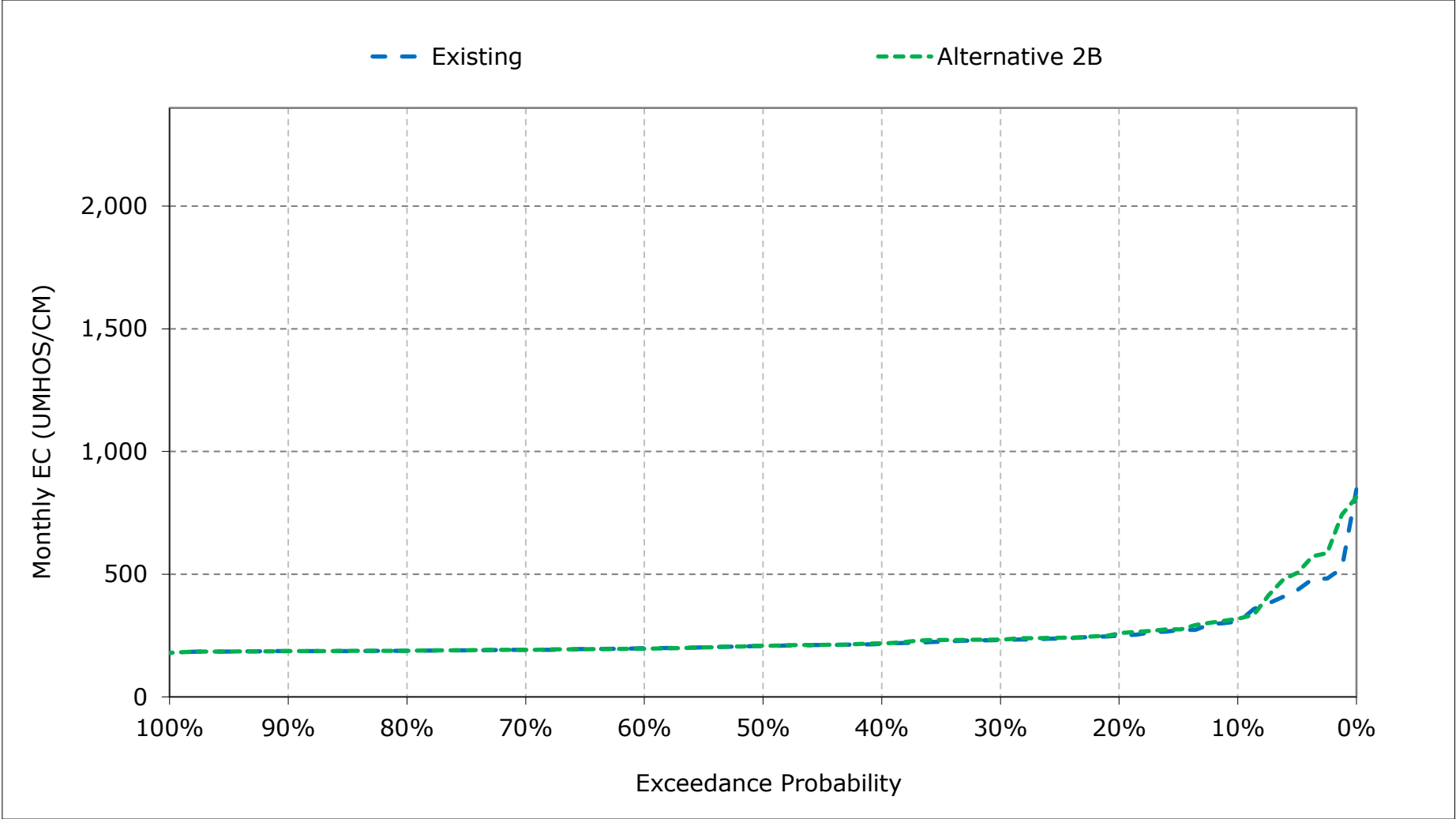
\*These results are displayed with water year - year type sorting.



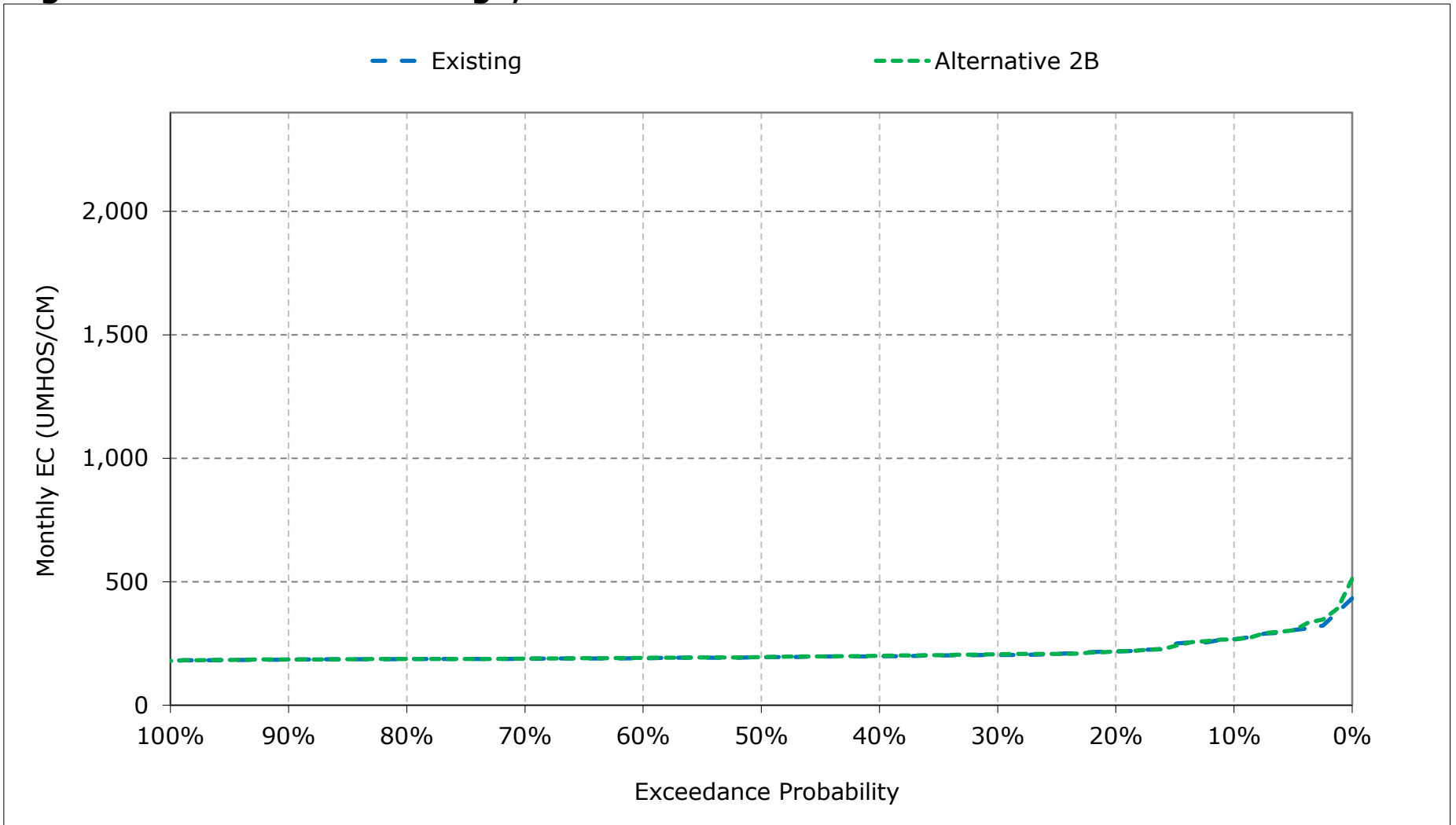
**Figure 26-7. Threemile Slough, January EC**



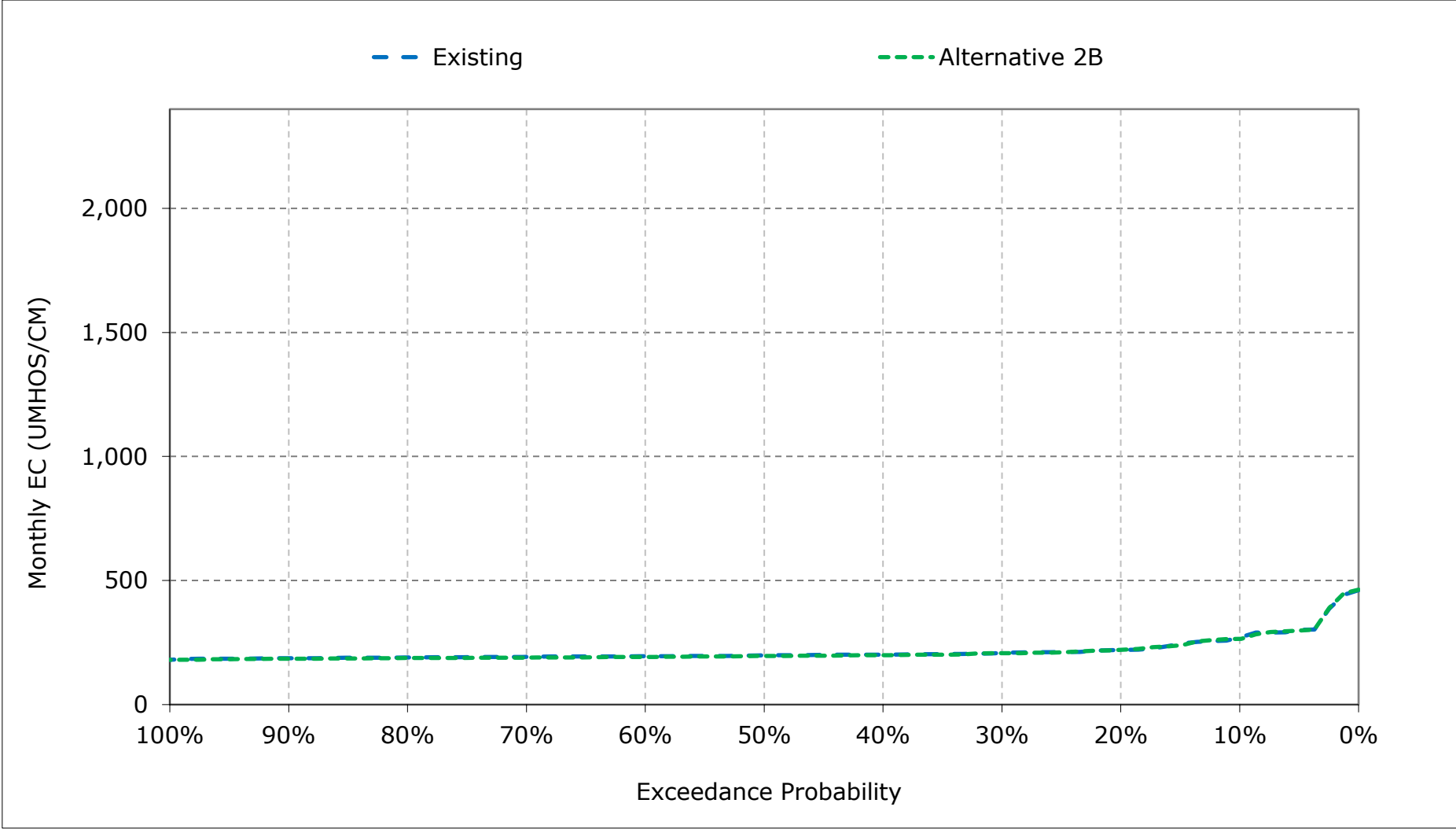
**Figure 26-8. Threemile Slough, February EC**



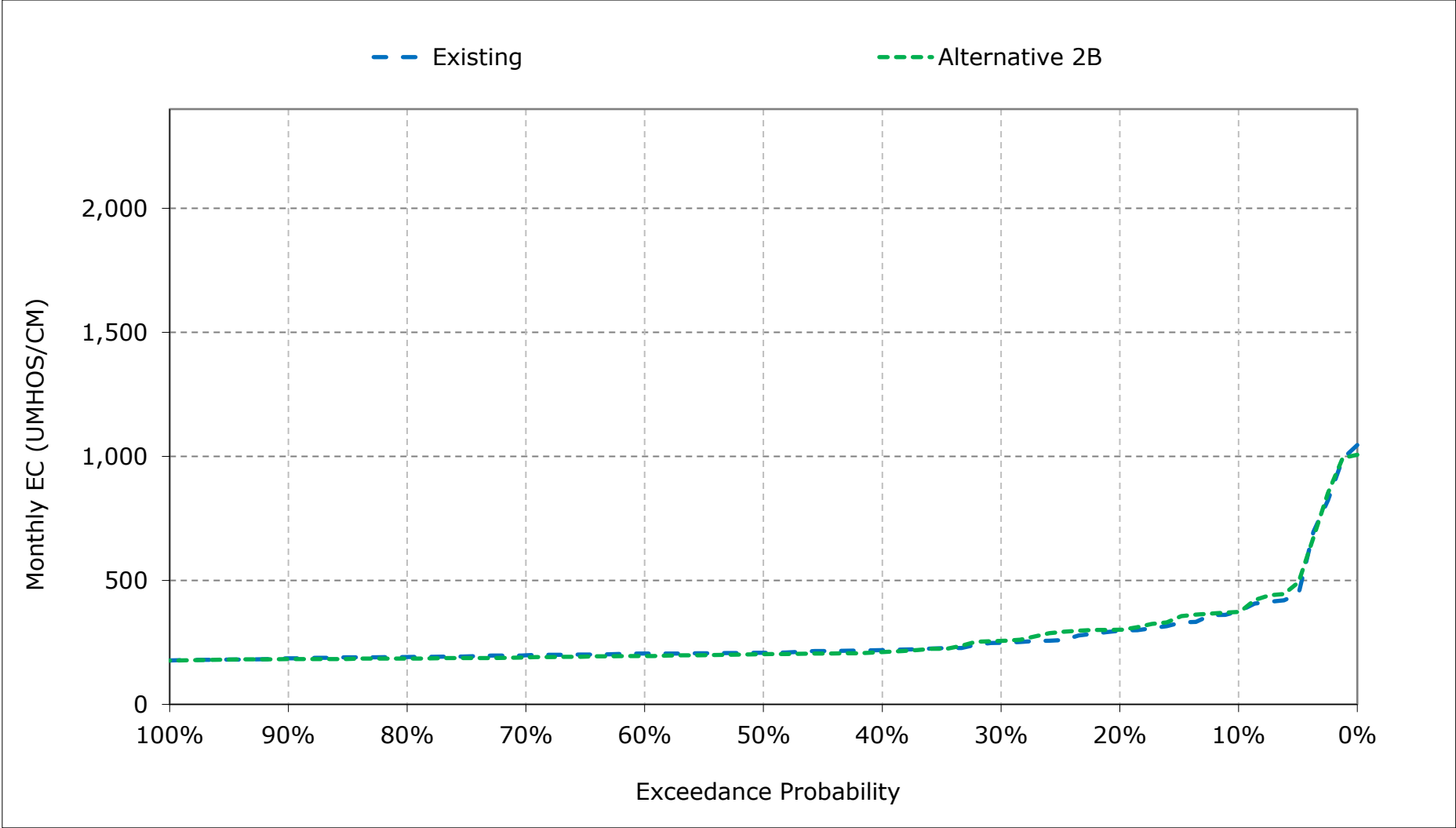
**Figure 26-9. Threemile Slough, March EC**



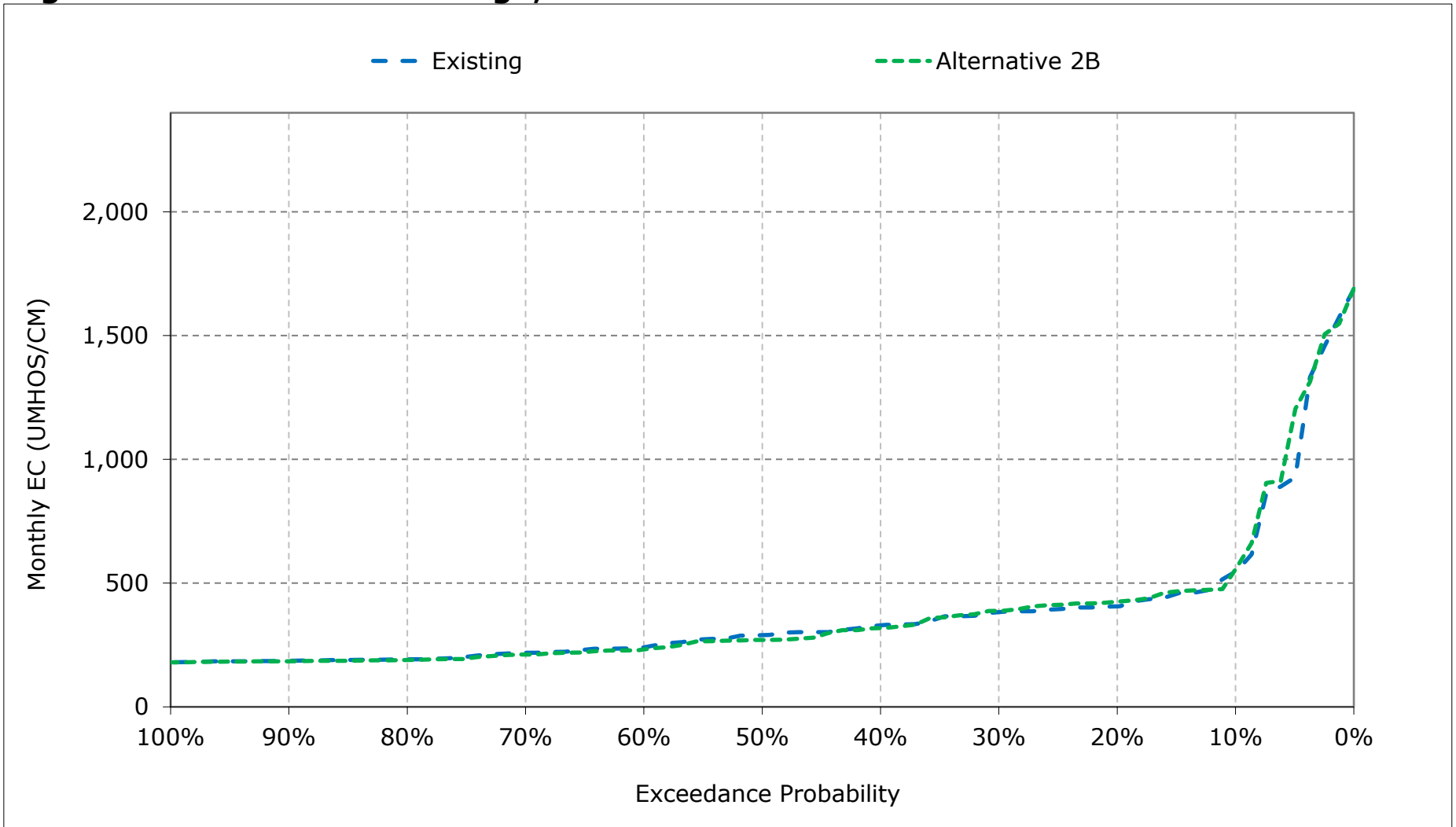
**Figure 26-10. Threemile Slough, April EC**



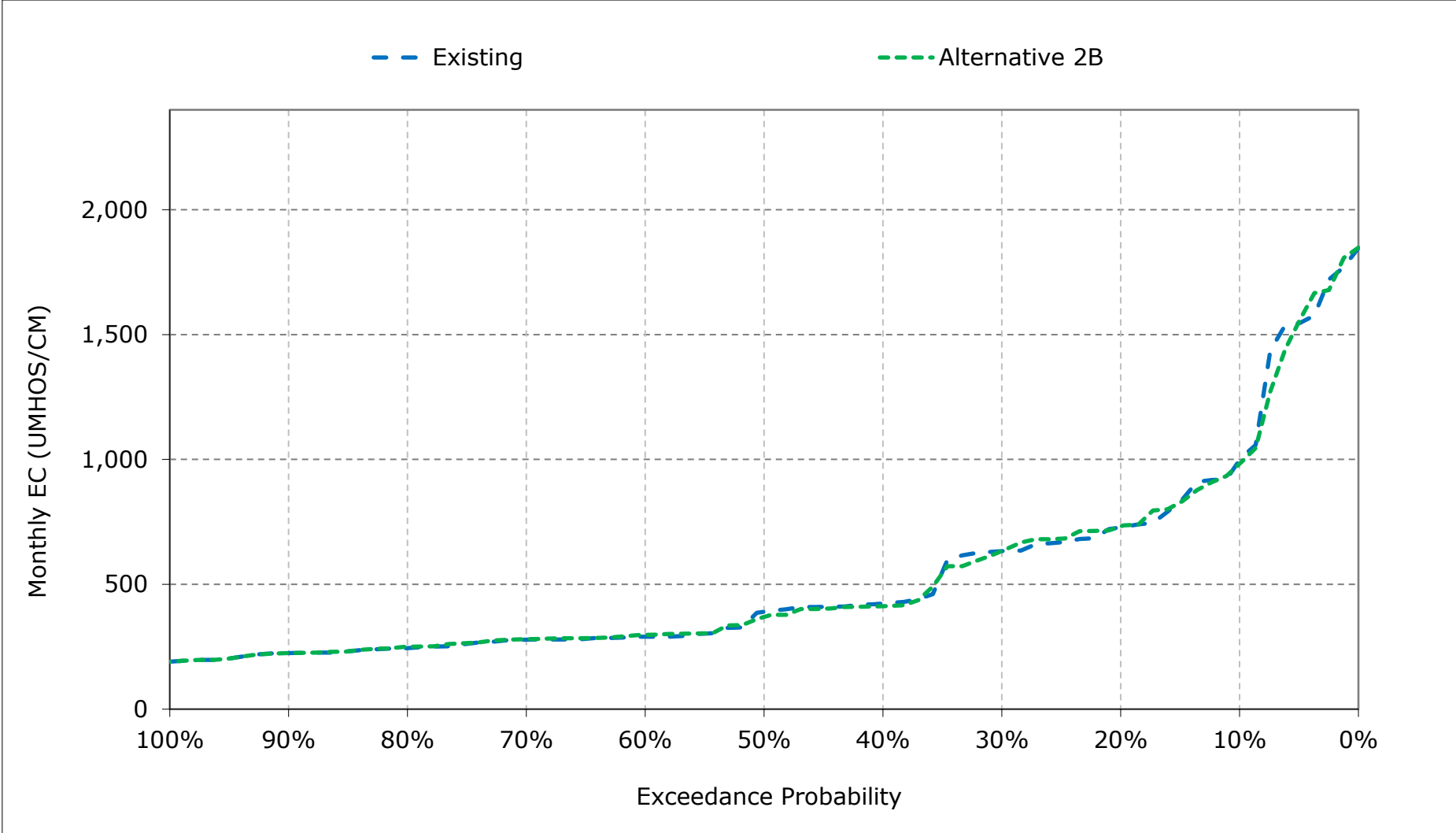
**Figure 26-11. Threemile Slough, May EC**



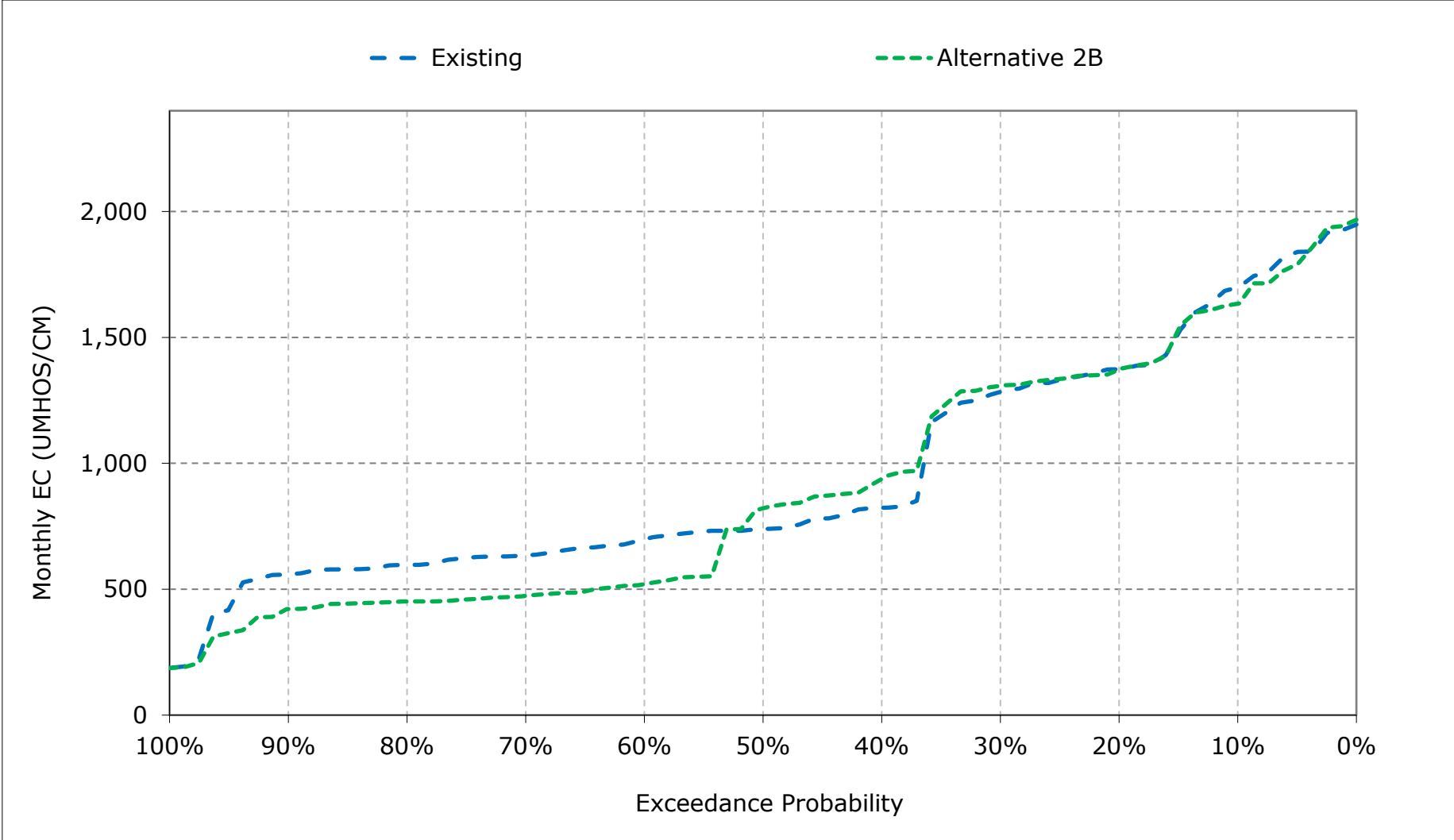
**Figure 26-12. Threemile Slough, June EC**



**Figure 26-13. Threemile Slough, July EC**

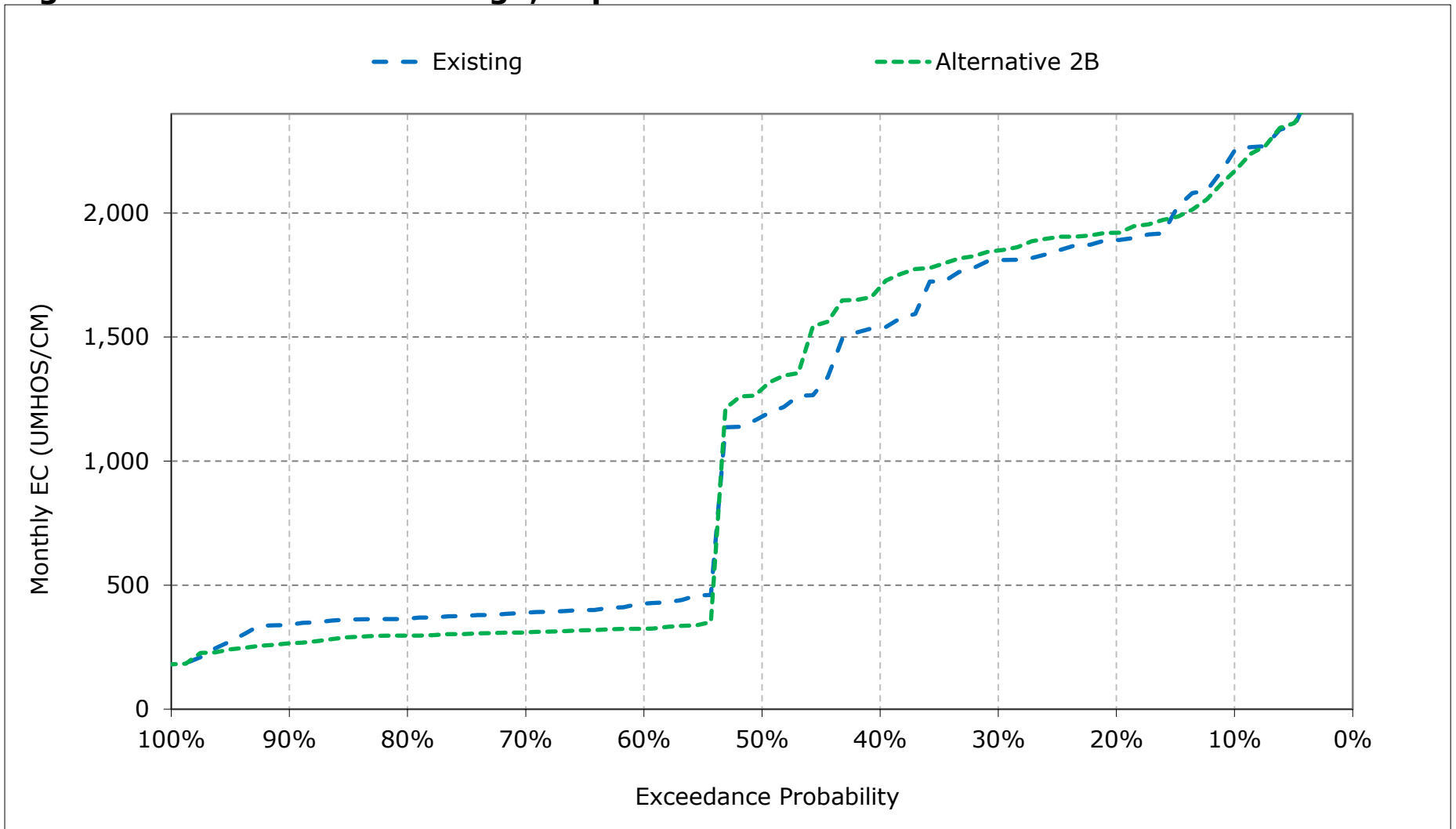


**Figure 26-14. Threemile Slough, August EC**

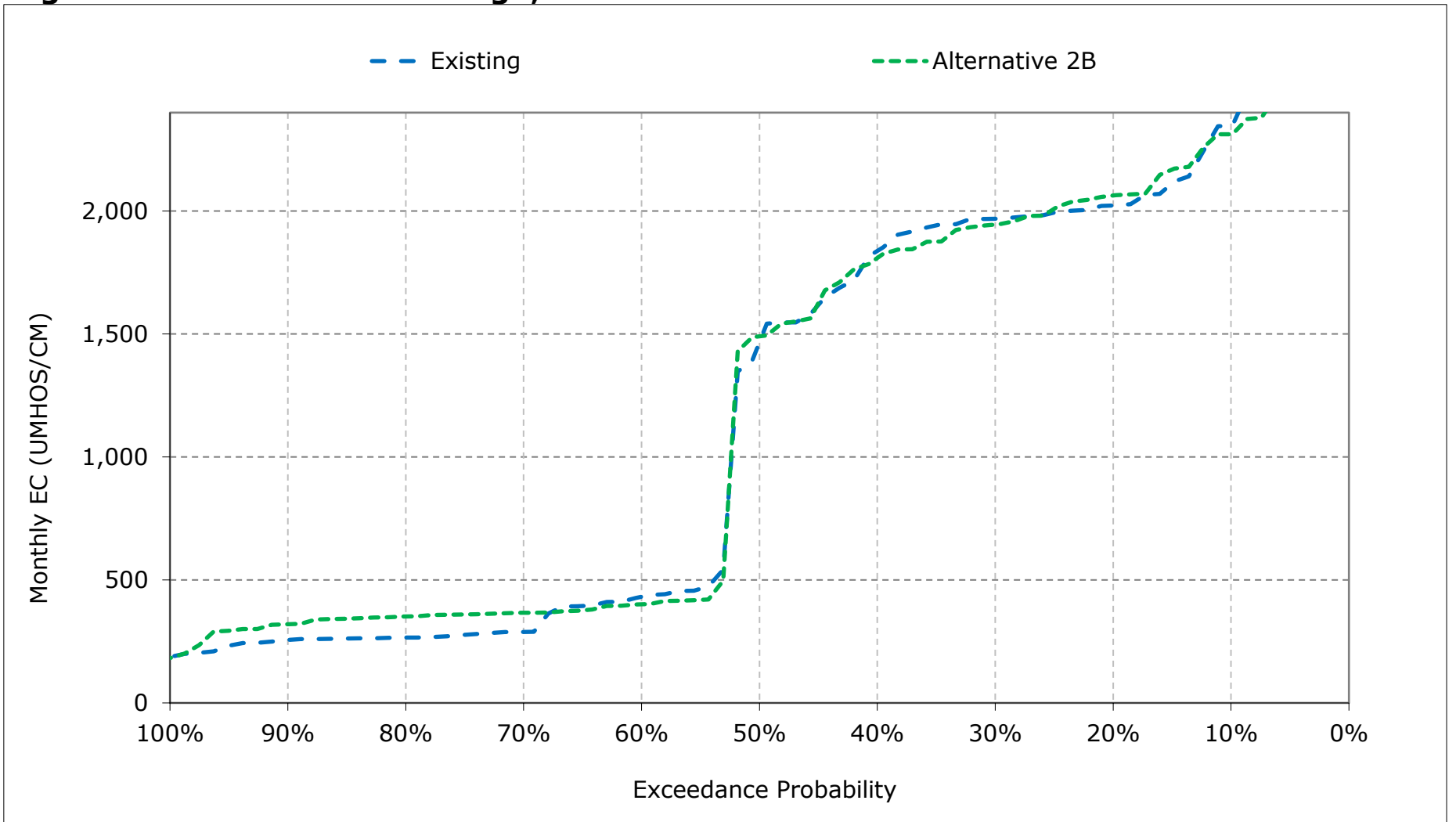




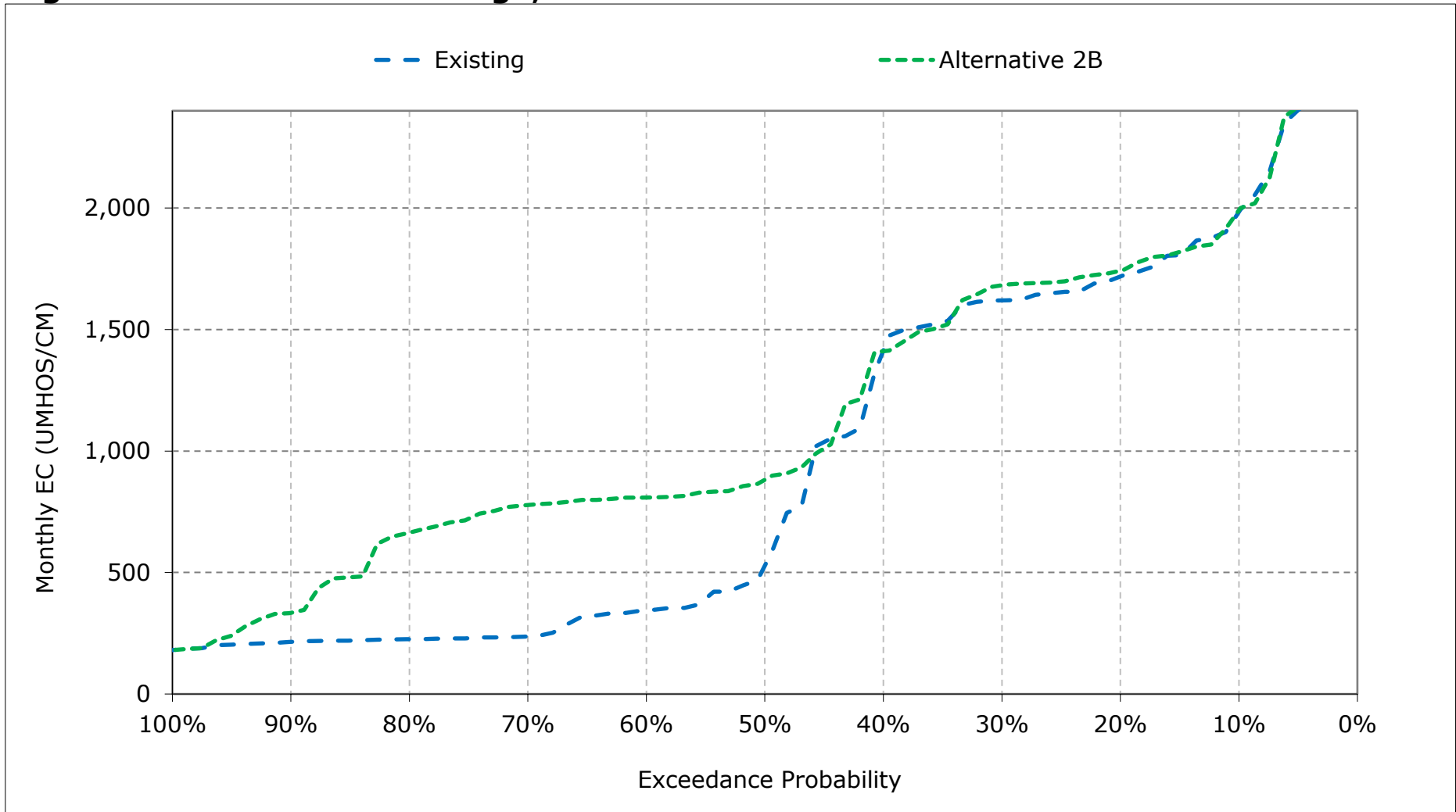
**Figure 26-15. Threemile Slough, September EC**



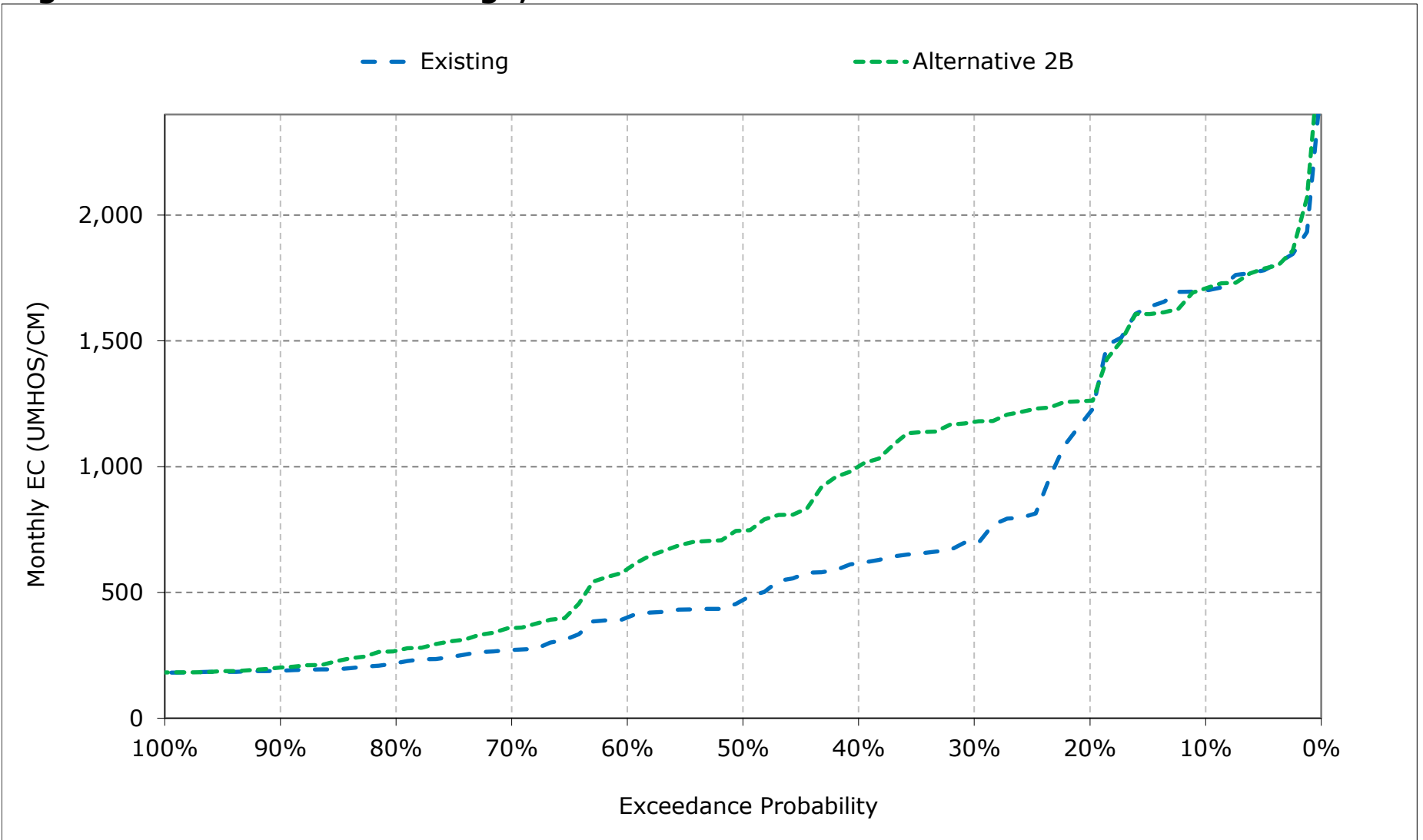
**Figure 26-16. Threemile Slough, October EC**



**Figure 26-17. Threemile Slough, November EC**



**Figure 26-18. Threemile Slough, December EC**



## Appendix C – Modeling

### Attachment 3-8 – Chloride Results (DSM2-QUAL)

***NOTE: Attachment 3-8 is a new attachment that has been added to the DEIR since initial publication, as part of the FEIR process. The additional attachment is not shown in underline for ease of reading.***

The following results of the DSM2-QUAL model are included for Delta chloride conditions for the following alternatives:

- Existing Conditions
- Refined Alternative 2b

<b>Title</b>	<b>Model Parameter</b>	<b>Table Numbers</b>	<b>Figure Numbers</b>
Sacramento River at Mallard Slough Salinity	RSAC075	1-1	1-1 to 1-18
Sacramento River at Rio Vista Salinity	RSAC101	2-1	2-1 to 2-18
Sacramento River at Collinsville Salinity	RSAC081	3-1	3-1 to 3-18
San Joaquin River at Jersey Point Salinity	RSAN018	4-1	4-1 to 4-18
San Joaquin River at San Andreas Salinity	RSAN032	5-1	5-1 to 5-18
San Joaquin River at Prisoners Point Salinity	RSAN037	6-1	6-1 to 6-18
Old River at Highway 4	ROLD034	7-1	7-1 to 7-18
Victoria Canal	CHVCT000	8-1	8-1 to 8-18
Contra Costa Pumping Plant Chloride	ROLD024	9-1	9-1 to 9-18
San Joaquin River at Antioch Chloride	RSAN007	10-1	10-1 to 10-18
Banks Pumping Plant South Delta Exports Chloride	CLIFTON_COURT	11-1	11-1 to 11-18
Jones Pumping Plant South Delta Exports Chloride	CHDMC006	12-1	12-1 to 12-18
North Bay Aqueduct Chloride	SLBAR002	13-1	13-1 to 13-18

#### Report formats

- Monthly tables comparing two scenarios (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 scenarios
- Monthly exceedance charts (all months) including all scenarios

Table 1-1. Sacramento River at Mallard Slough Chloride, Monthly Cl

Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,015	3,822	3,637	2,412	1,260	1,094	1,174	1,545	2,008	2,652	3,365	3,719
20%	3,828	3,720	3,179	2,137	783	590	617	1,178	1,669	2,310	2,998	3,544
30%	3,766	3,614	2,348	1,643	415	223	316	914	1,595	2,196	2,917	3,478
40%	3,689	3,468	1,973	946	181	149	236	544	1,352	1,697	2,436	3,232
50%	3,369	1,816	1,688	682	99	71	127	307	1,109	1,552	2,267	2,911
60%	1,826	1,581	1,537	367	32	29	53	182	867	1,225	2,209	1,505
70%	1,068	943	625	52	21	19	29	93	633	1,144	2,080	835
80%	1,001	848	256	21	18	18	19	29	282	1,004	1,998	746
90%	957	760	54	17	17	17	17	17	31	696	1,910	672
Long Term												
Full Simulation Period <sup>a</sup>	2,564	2,279	1,738	981	404	292	353	605	1,127	1,633	2,438	2,279
Water Year Types <sup>b</sup>												
Wet (32%)	2,021	1,495	562	147	27	31	48	106	378	831	1,852	686
Above Normal (15%)	2,675	2,250	1,740	575	125	35	66	162	779	1,119	2,036	1,473
Below Normal (17%)	2,687	2,514	2,225	1,090	249	208	229	447	1,098	1,600	2,353	3,062
Dry (22%)	2,713	2,638	2,183	1,578	677	422	517	919	1,575	2,241	2,957	3,511
Critical (15%)	3,265	3,198	3,046	2,170	1,272	1,020	1,199	1,840	2,458	3,012	3,430	3,778

Alternative 2B

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,993	3,793	3,613	2,739	1,238	1,103	1,189	1,607	2,023	2,653	3,328	3,714
20%	3,813	3,716	3,175	2,313	777	555	688	1,374	1,798	2,341	3,018	3,566
30%	3,754	3,653	3,018	1,821	396	186	419	1,124	1,630	2,175	2,953	3,514
40%	3,672	3,478	2,796	1,024	202	137	291	677	1,462	1,825	2,694	3,347
50%	3,387	2,627	2,404	694	96	57	151	404	1,137	1,612	2,474	2,964
60%	1,708	2,539	1,930	350	25	25	65	285	970	1,266	1,984	1,309
70%	1,665	2,478	844	55	21	19	33	136	706	1,187	1,861	1,272
80%	1,572	2,201	404	21	18	18	19	37	299	1,026	1,810	1,201
90%	1,463	1,087	88	18	17	17	17	17	32	698	1,733	1,091
Long Term												
Full Simulation Period <sup>a</sup>	2,702	2,770	2,020	1,040	421	288	378	689	1,175	1,665	2,391	2,406
Water Year Types <sup>b</sup>												
Wet (32%)	2,198	2,137	734	146	26	29	62	155	429	852	1,642	1,125
Above Normal (15%)	2,851	2,738	2,130	599	97	31	84	245	804	1,147	1,870	1,231
Below Normal (17%)	2,838	2,988	2,577	1,097	236	190	268	579	1,137	1,706	2,588	3,161
Dry (22%)	2,846	3,061	2,533	1,737	734	407	554	1,045	1,649	2,262	2,987	3,539
Critical (15%)	3,267	3,481	3,275	2,308	1,347	1,041	1,218	1,884	2,497	3,004	3,414	3,775

Alternative 2B minus Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-22	-29	-23	327	-22	10	15	62	15	0	-37	-5
20%	-15	-4	-4	177	-7	-36	71	196	128	31	20	23
30%	-12	39	670	178	-18	-36	103	210	35	-21	35	36
40%	-18	10	822	78	21	-12	55	133	111	127	258	115
50%	19	812	716	12	-3	-14	25	97	28	60	207	53
60%	-118	958	393	-17	-6	-4	13	103	103	41	-225	-196
70%	597	1,535	219	3	0	0	4	43	73	43	-219	436
80%	571	1,353	148	0	0	0	0	8	17	22	-188	455
90%	506	327	33	0	0	0	-1	0	0	1	-177	419
Long Term												
Full Simulation Period <sup>a</sup>	137	491	282	59	17	-5	25	84	48	32	-46	127
Water Year Types <sup>b</sup>												
Wet (32%)	177	643	172	-1	-2	-2	14	49	51	21	-210	439
Above Normal (15%)	176	488	391	24	-28	-4	19	83	25	29	-166	-241
Below Normal (17%)	151	475	353	6	-12	-19	38	132	39	106	236	99
Dry (22%)	133	424	349	159	57	-15	37	127	74	20	30	28
Critical (15%)	2	283	229	138	75	21	20	44	39	-8	-17	-3

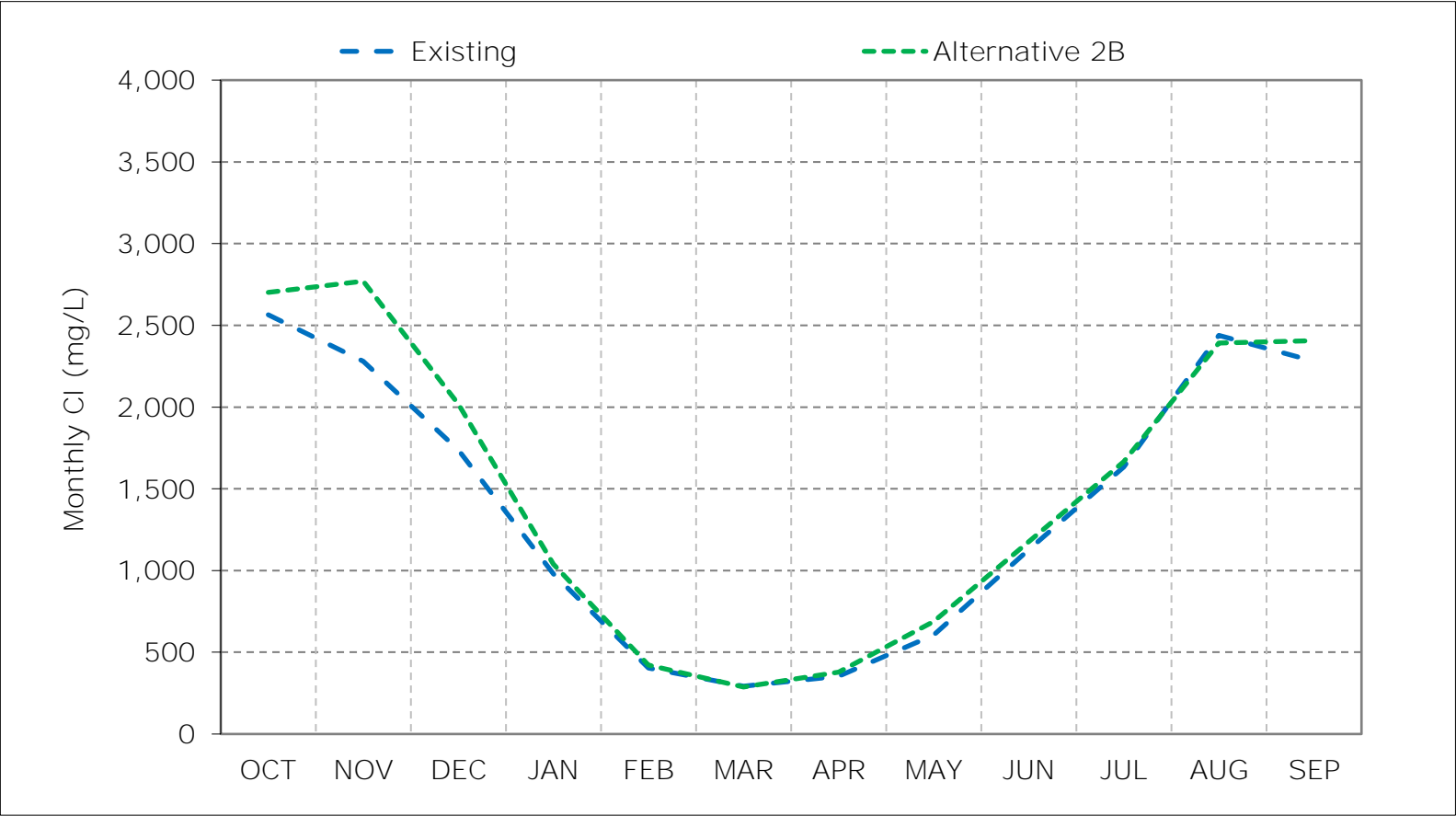
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Chloride (Cl).

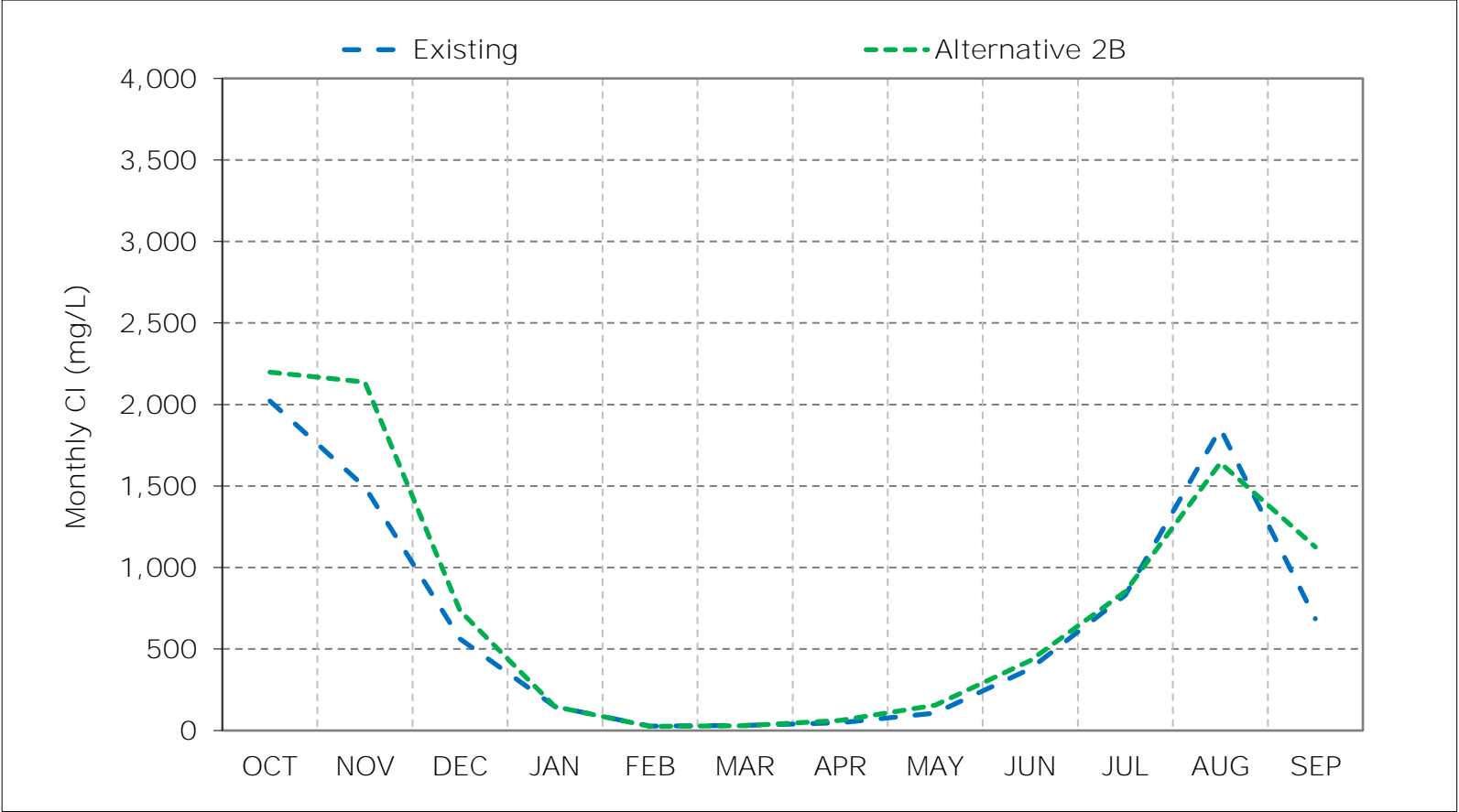
Figure 1-1. Sacramento River at Mallard Slough Chloride, Long-Term Average Cl



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

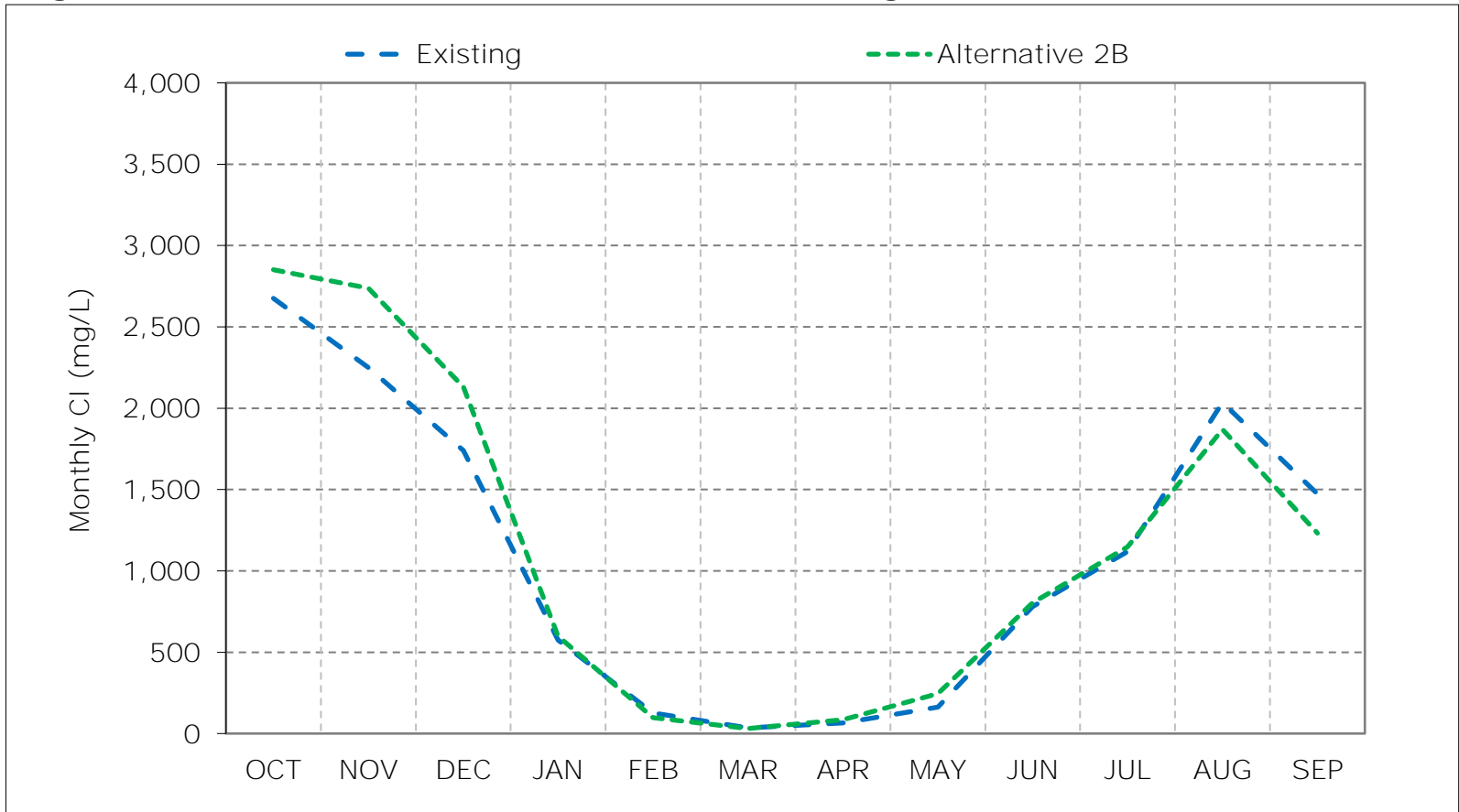


Figure 1-2. Sacramento River at Mallard Slough Chloride, Wet Year Average Cl



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

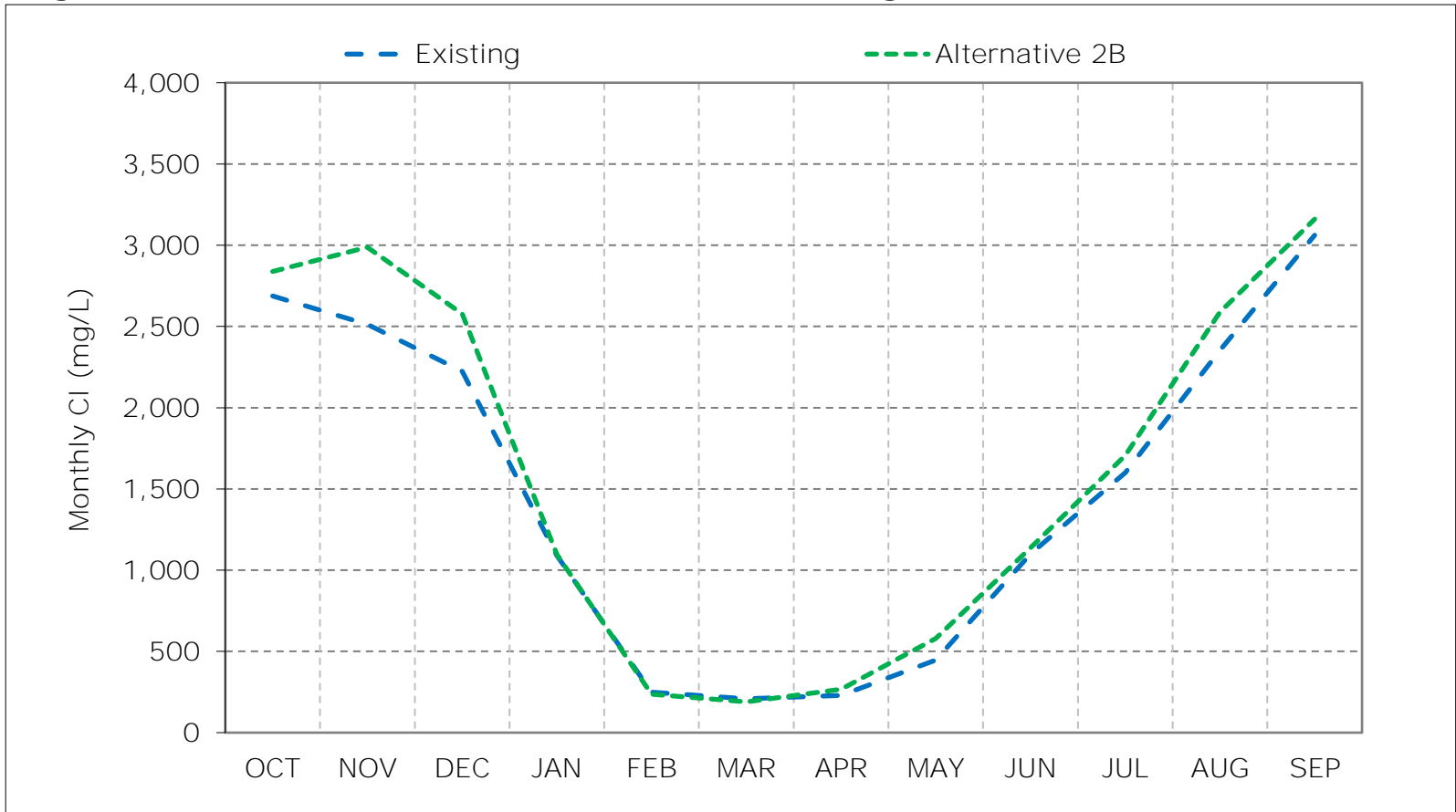
Figure 1-3. Sacramento River at Mallard Slough Chloride, Above Normal Year Average C



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

\*These results are displayed with water year - year type sorting.

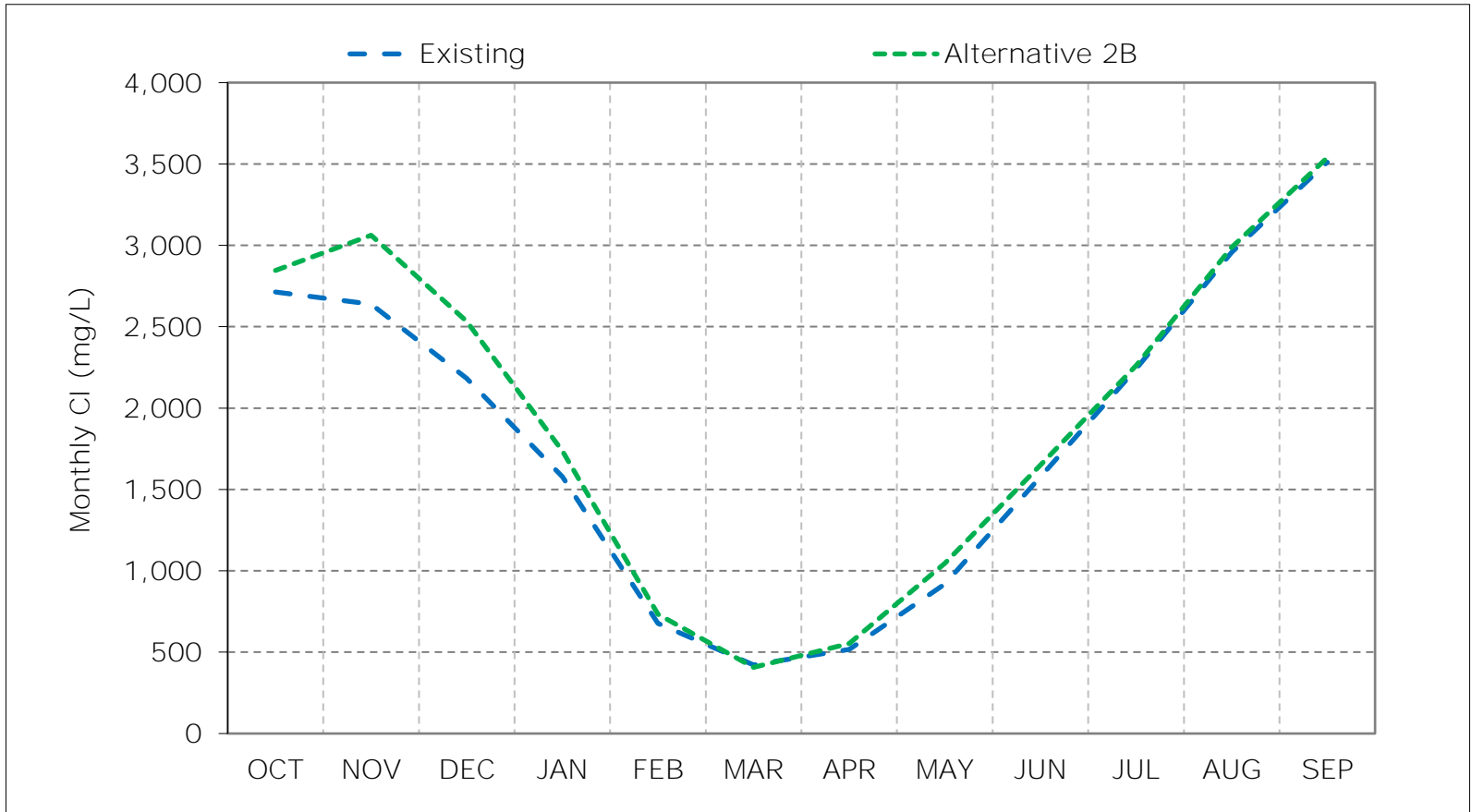
Figure 1-4. Sacramento River at Mallard Slough Chloride, Below Normal Year Average C



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

\*These results are displayed with water year - year type sorting.

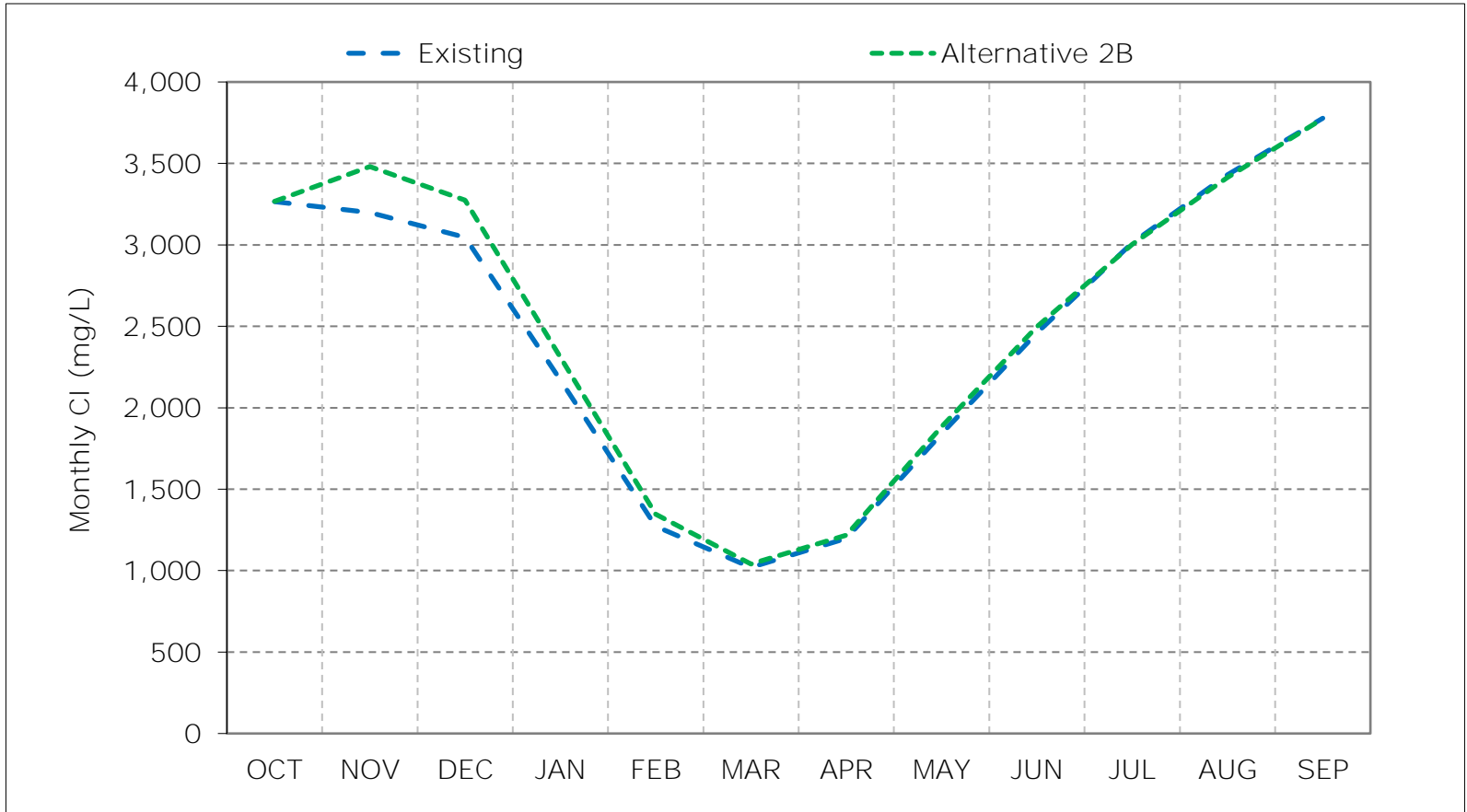
Figure 1-5. Sacramento River at Mallard Slough Chloride, Dry Year Average CI



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

\*These results are displayed with water year - year type sorting.

Figure 1-6. Sacramento River at Mallard Slough Chloride, 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 water year - year type sorting.

Figure 1-7. Sacramento River at Mallard Slough Chloride, January CI

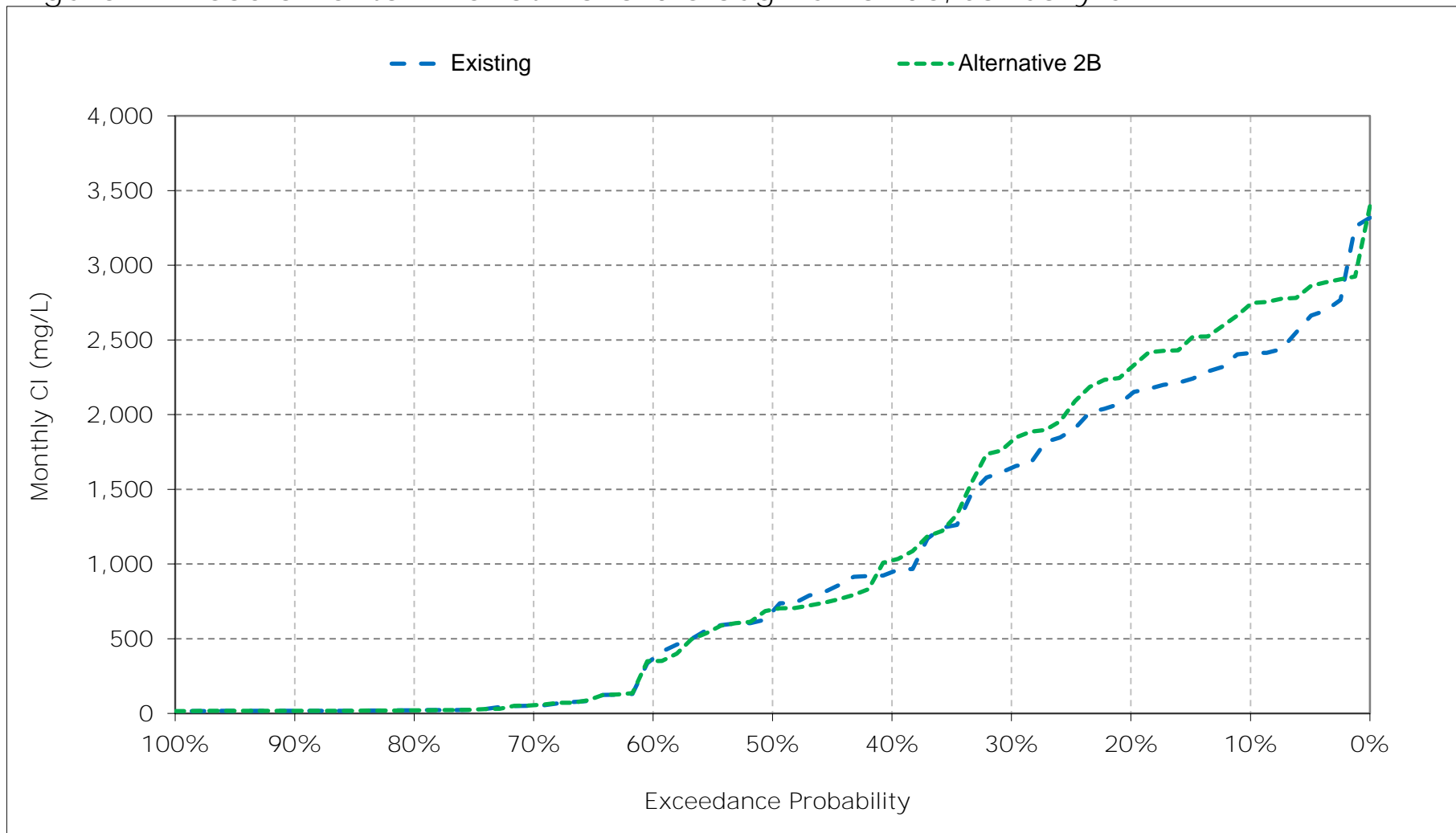


Figure 1-8. Sacramento River at Mallard Slough Chloride, February CI

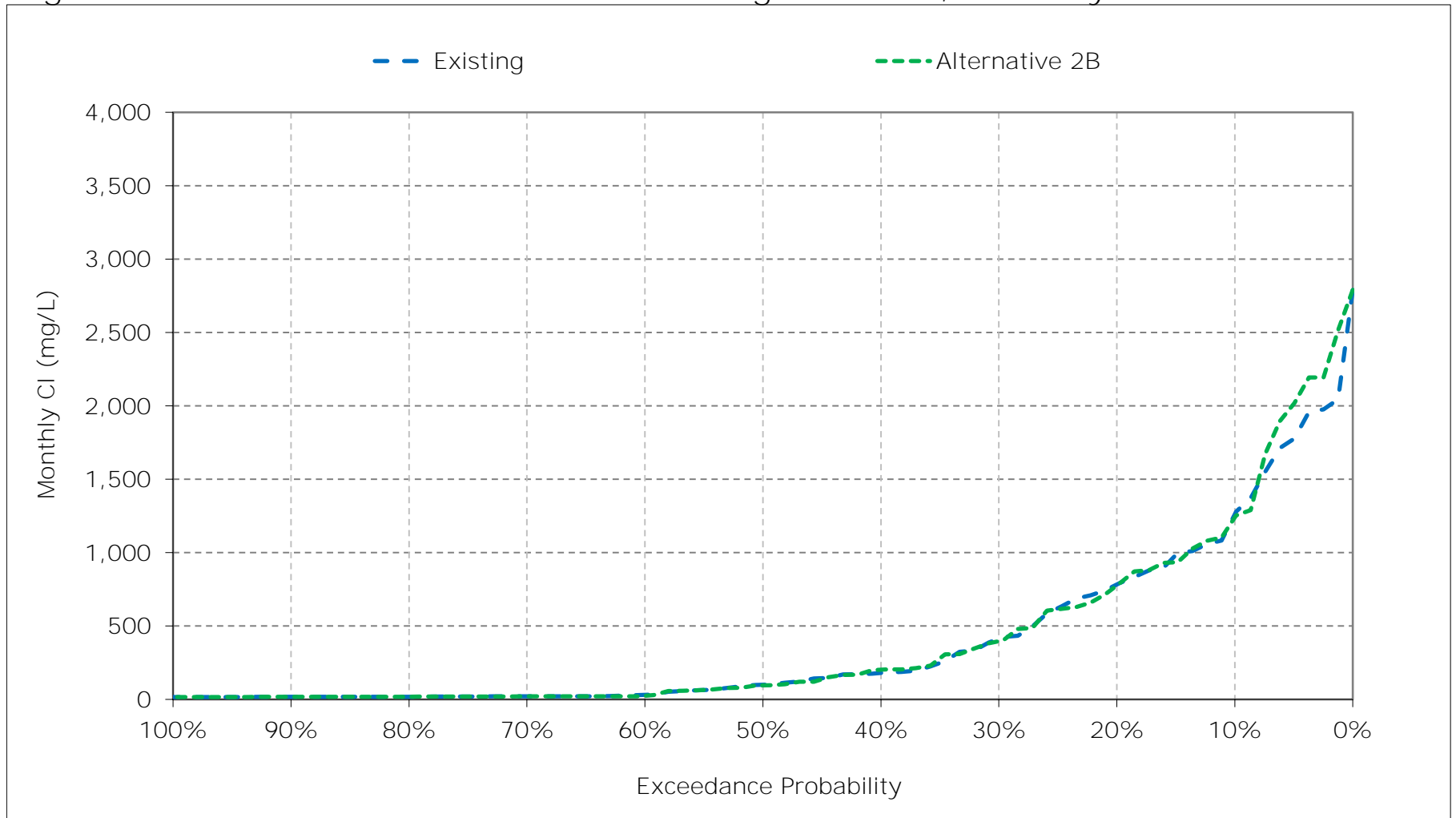


Figure 1-9. Sacramento River at Mallard Slough Chloride, March CI

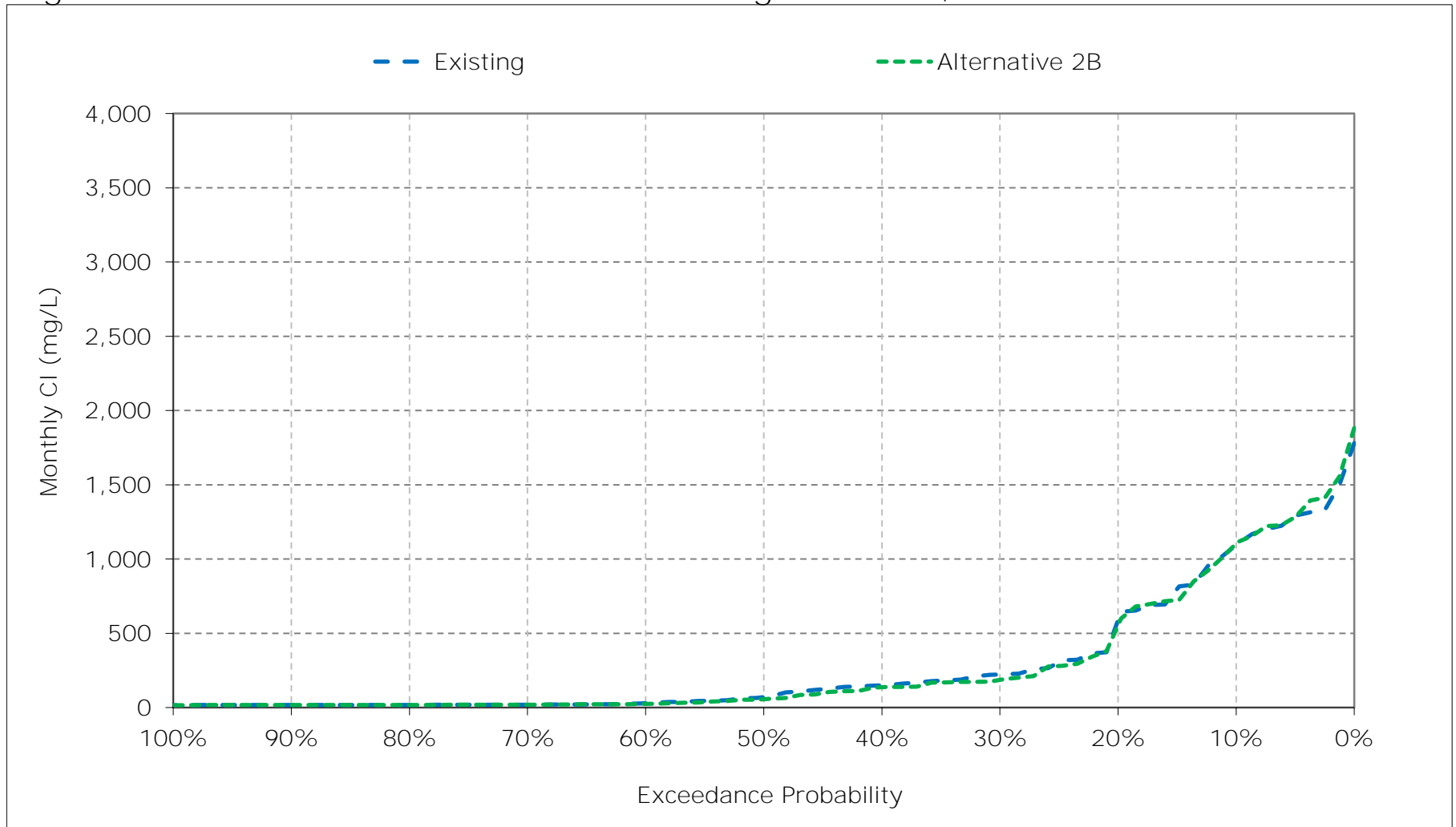




Figure 1-10. Sacramento River at Mallard Slough Chloride, April CI

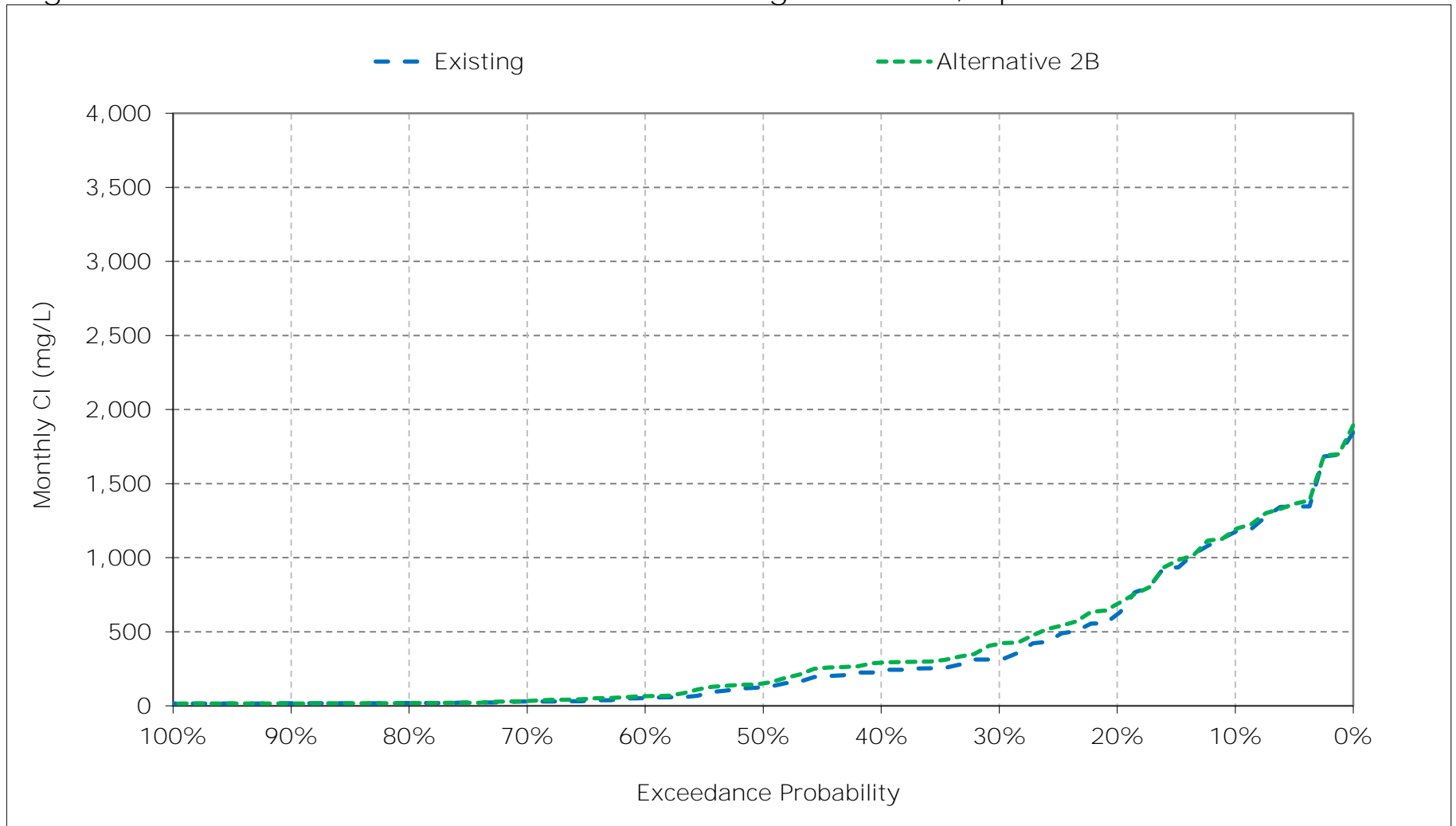


Figure 1-11. Sacramento River at Mallard Slough Chloride, May CI

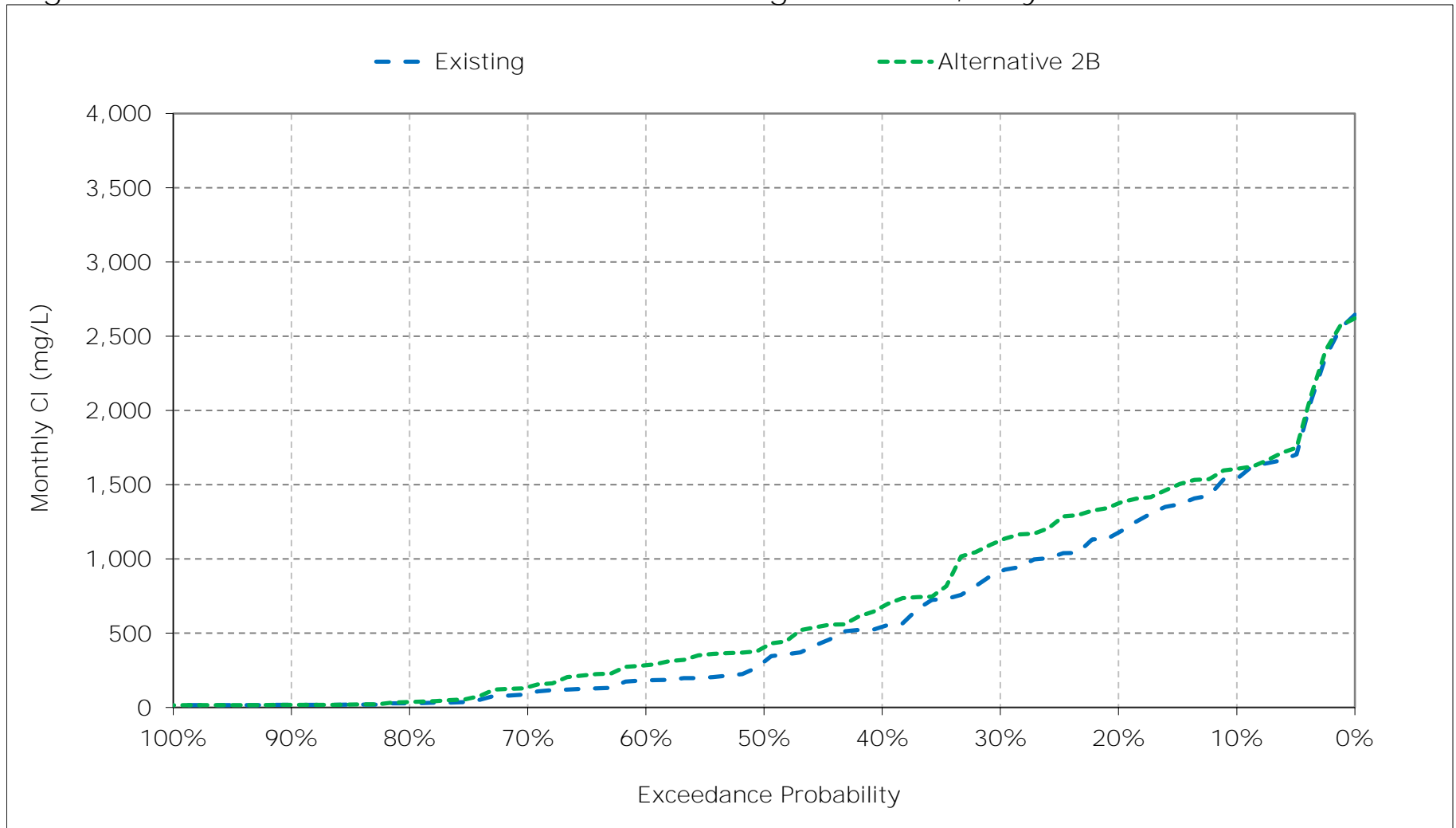


Figure 1-12. Sacramento River at Mallard Slough Chloride, June CI

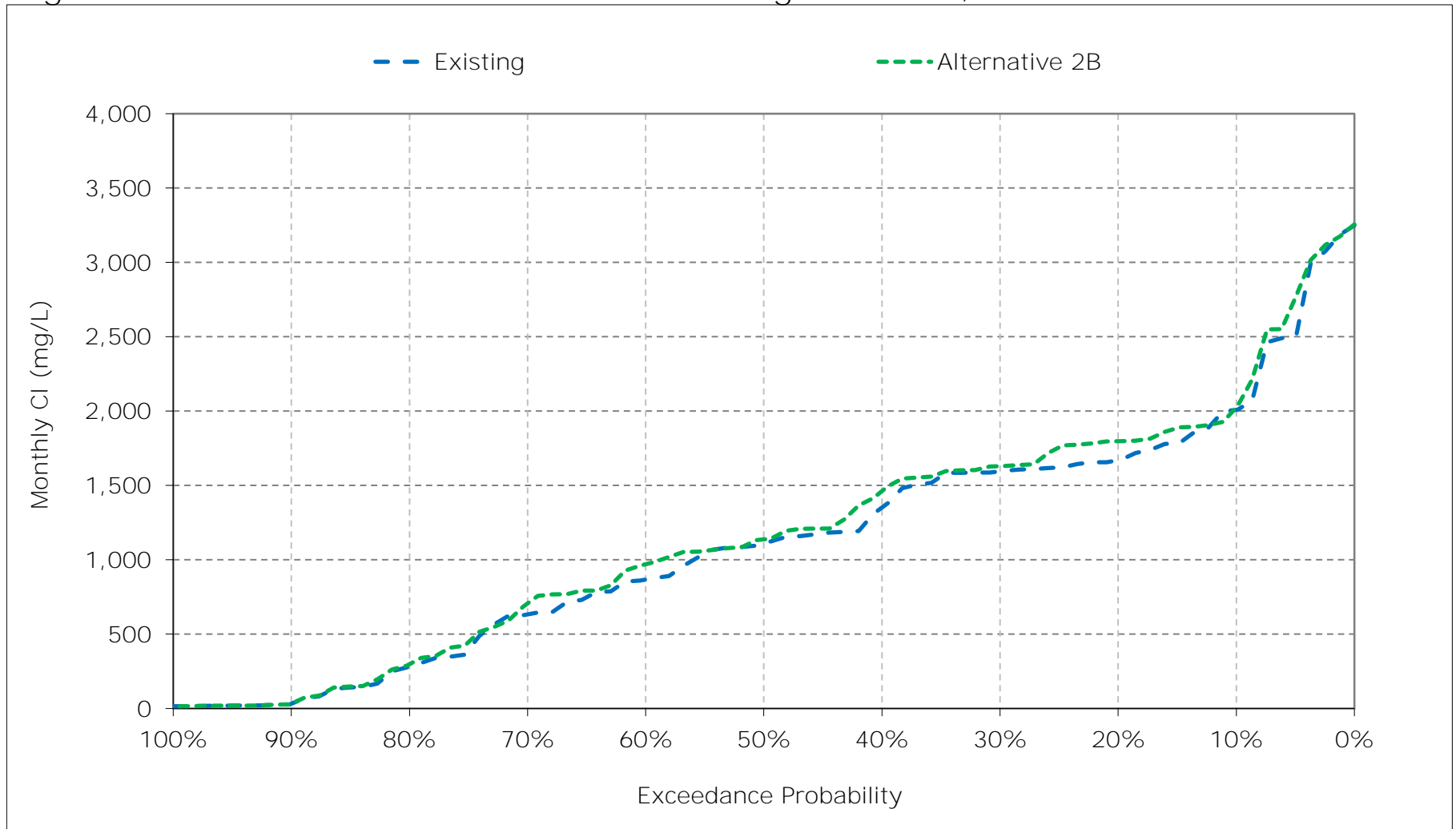


Figure 1-13. Sacramento River at Mallard Slough Chloride, July CI

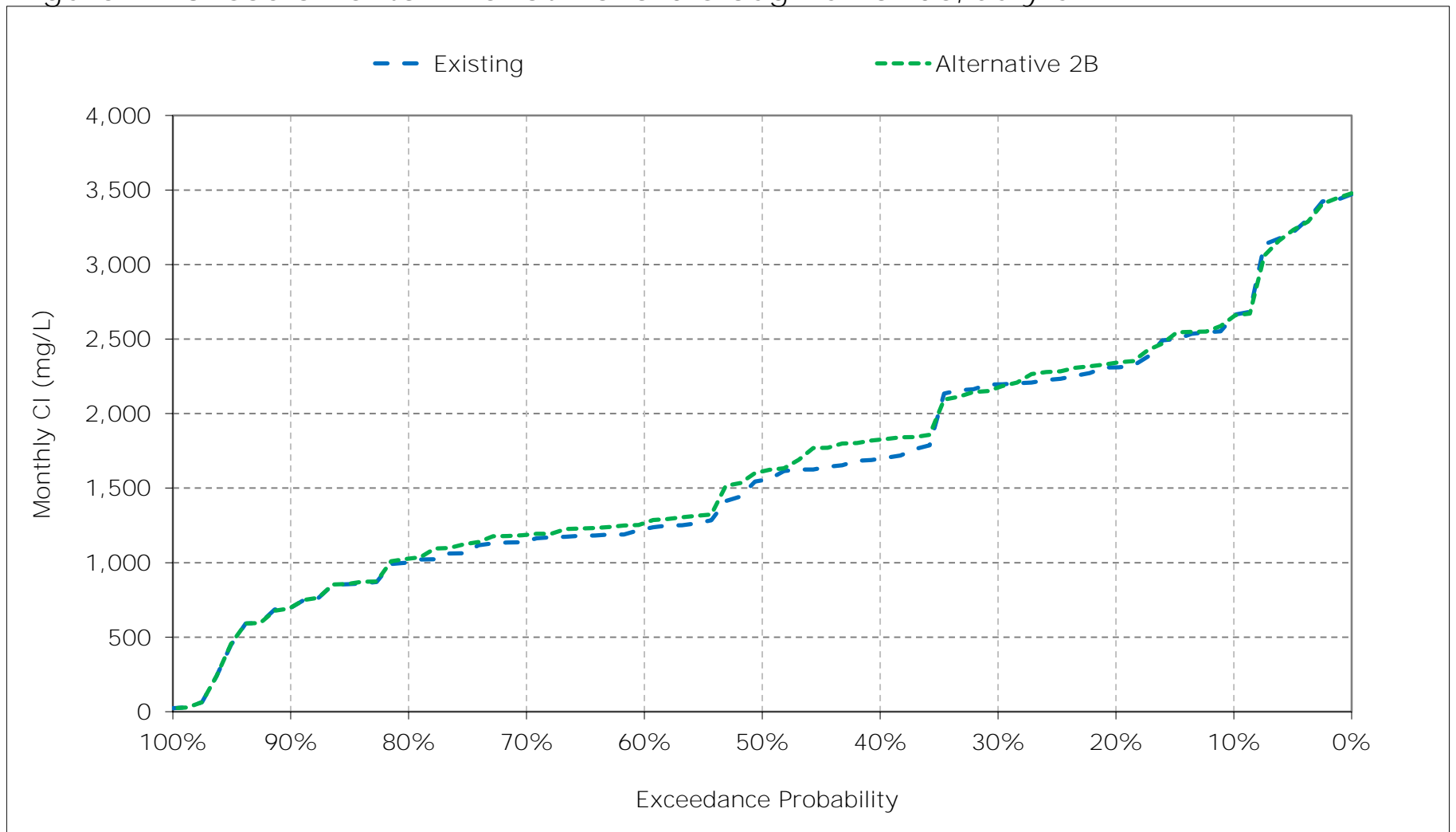


Figure 1-14. Sacramento River at Mallard Slough Chloride, August CI

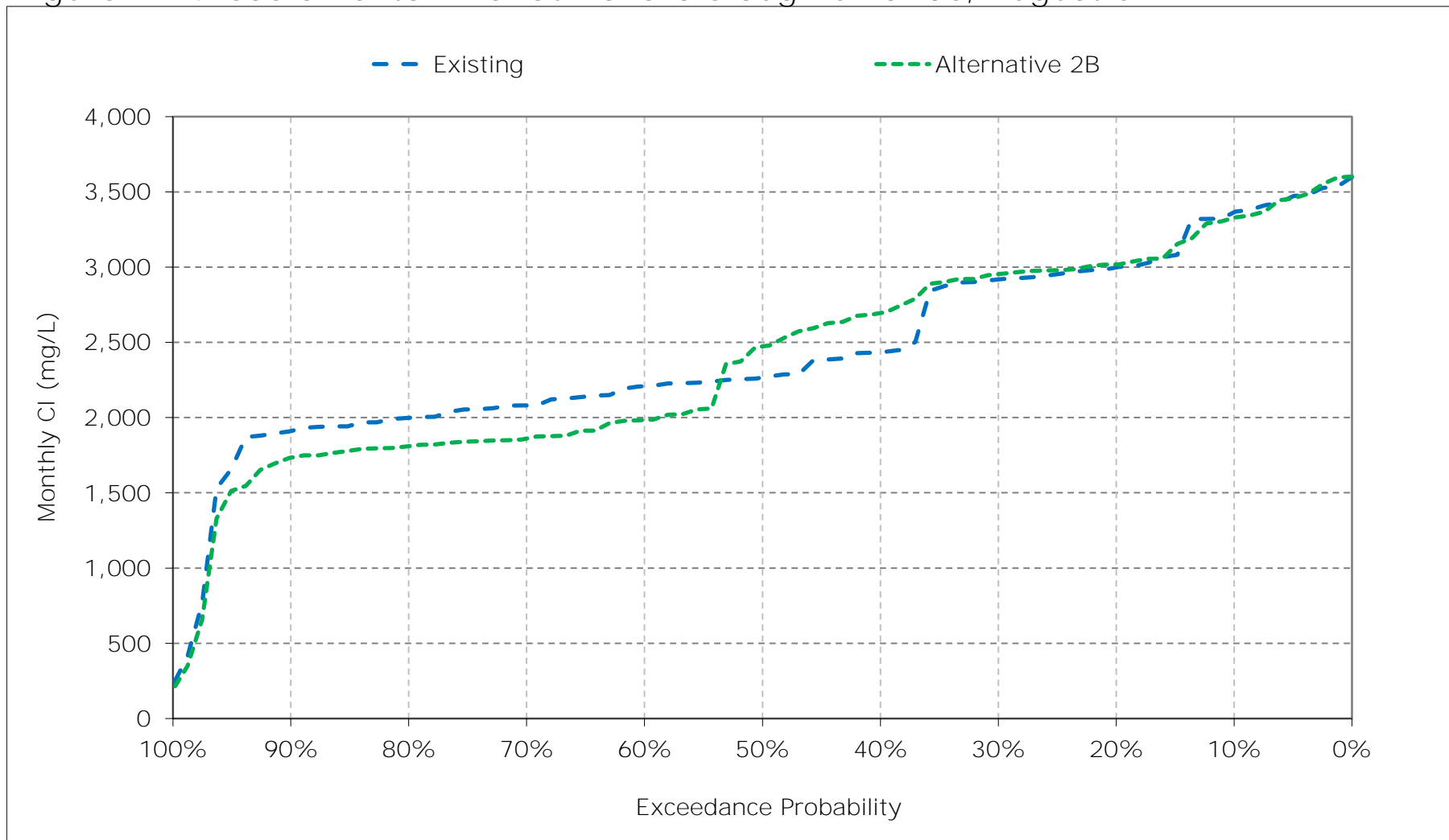


Figure 1-15. Sacramento River at Mallard Slough Chloride, September CI



Figure 1-16. Sacramento River at Mallard Slough Chloride, October CI

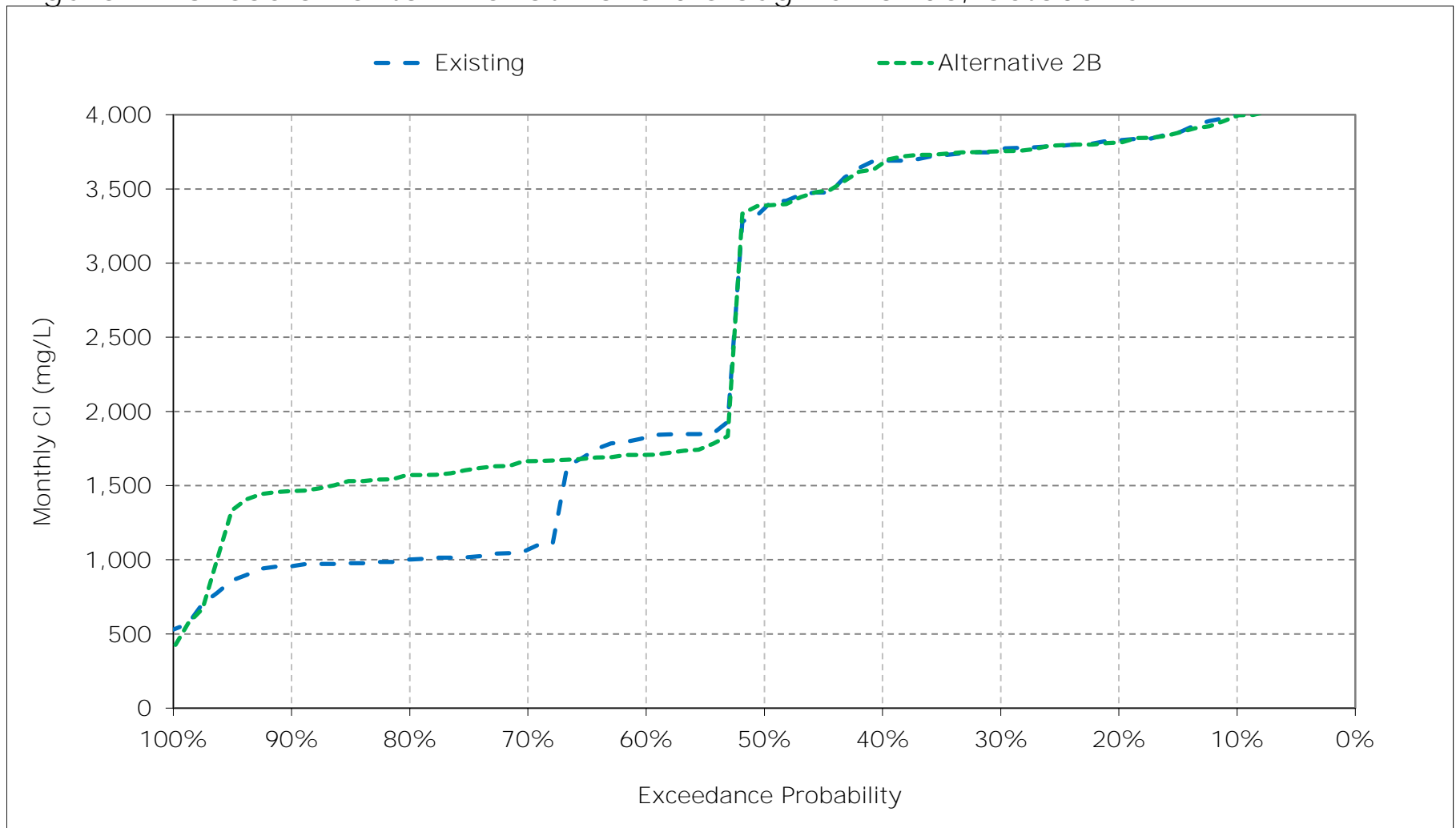


Figure 1-17. Sacramento River at Mallard Slough Chloride, November CI

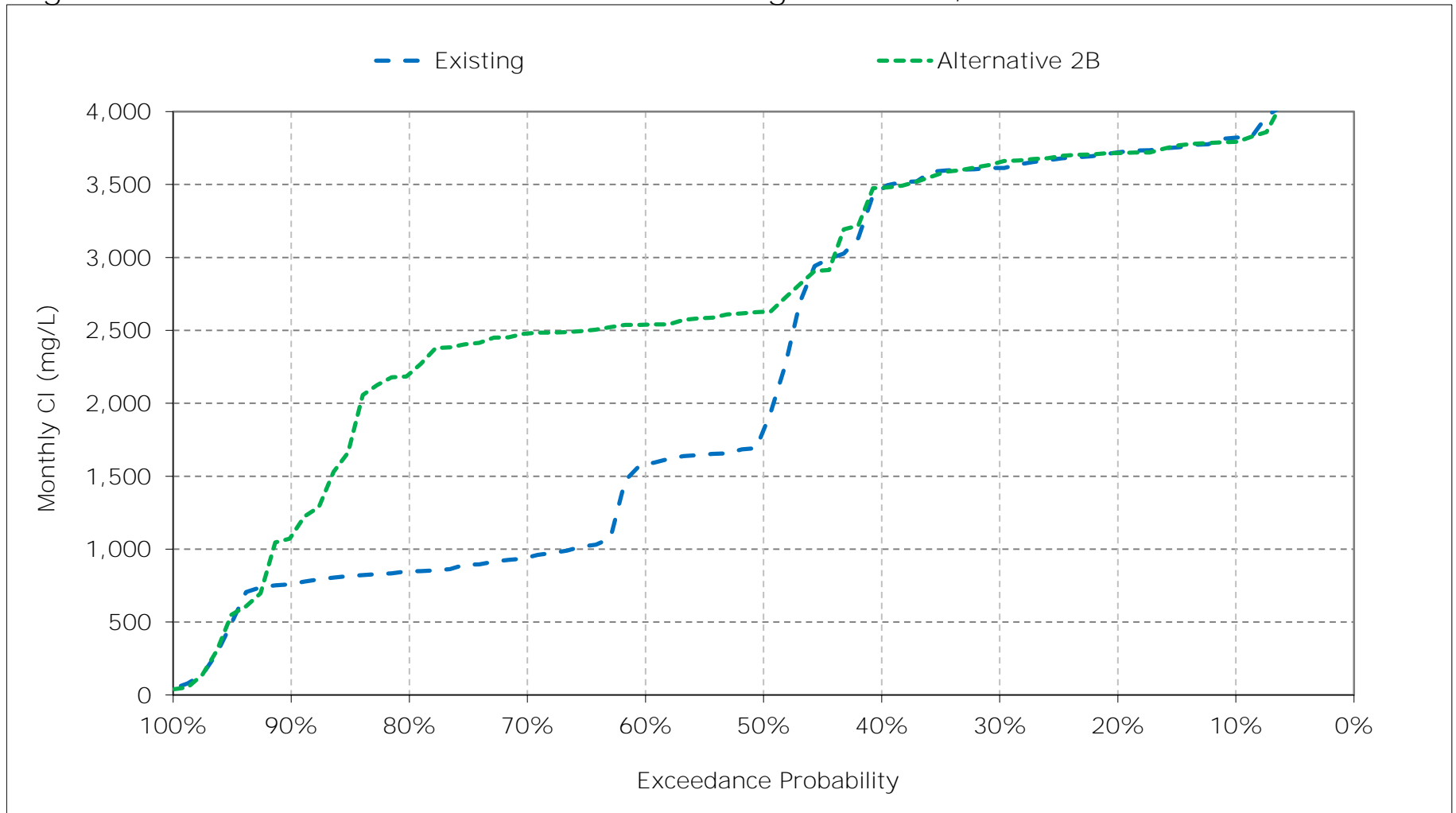




Figure 1-18. Sacramento River at Mallard Slough Chloride, December CI

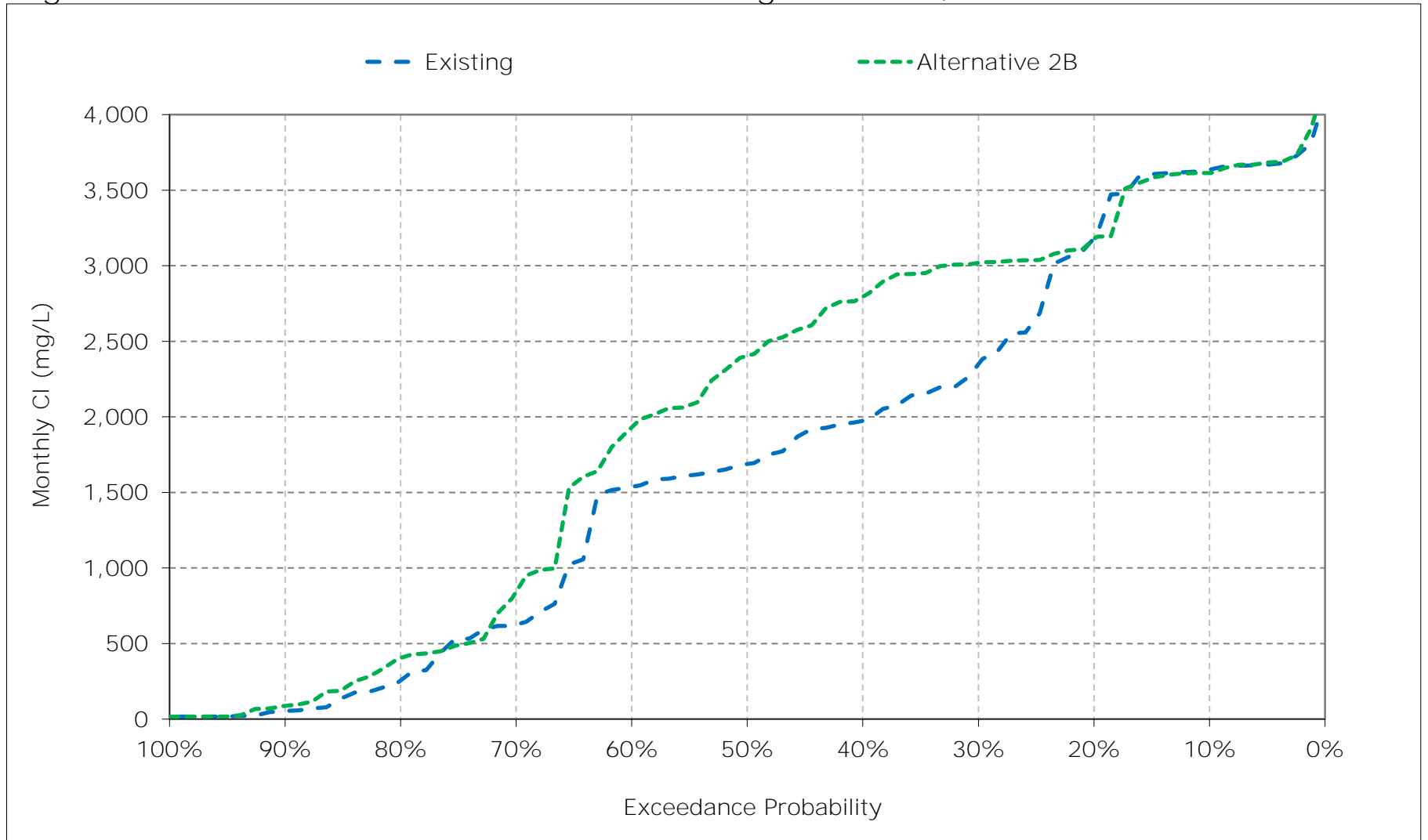


Table 2-1. Sacramento River at Rio Vista Chloride, Monthly Cl

Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	90	70	55	25	18	17	17	18	20	30	55	80
20%	70	52	34	22	17	16	16	17	18	23	44	60
30%	64	46	23	20	17	16	16	16	17	21	40	56
40%	56	35	20	19	17	16	16	16	17	18	24	44
50%	42	18	19	18	16	15	15	16	17	17	23	31
60%	18	16	18	17	16	15	15	15	16	16	22	17
70%	16	15	16	17	15	15	15	15	16	16	21	15
80%	16	15	16	16	15	15	15	15	15	16	20	15
90%	16	15	15	15	15	15	15	15	15	15	20	15
Long Term												
Full Simulation Period <sup>a</sup>	45	35	26	19	16	16	16	16	19	22	31	39
Water Year Types <sup>b</sup>												
Wet (32%)	34	22	17	16	15	15	15	15	15	16	20	15
Above Normal (15%)	45	36	22	18	16	15	15	15	16	16	21	17
Below Normal (17%)	44	31	32	19	16	16	16	16	16	17	23	38
Dry (22%)	50	43	27	21	17	16	16	16	18	22	41	57
Critical (15%)	61	55	45	25	19	17	17	21	32	45	60	87

Alternative 2B

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	82	71	53	27	18	17	17	18	20	29	56	78
20%	71	55	36	24	17	16	16	17	18	23	43	62
30%	64	49	32	21	17	16	16	16	17	21	39	57
40%	54	36	27	19	17	16	16	16	17	18	25	51
50%	43	25	23	18	16	15	15	15	16	17	24	35
60%	17	23	21	17	16	15	15	15	16	16	19	16
70%	17	23	17	17	15	15	15	15	15	16	18	16
80%	17	21	16	16	15	15	15	15	15	16	18	16
90%	16	16	15	15	15	15	15	15	15	15	18	15
Long Term												
Full Simulation Period <sup>a</sup>	44	38	29	20	17	16	16	16	19	21	30	40
Water Year Types <sup>b</sup>												
Wet (32%)	33	25	17	16	15	15	15	15	15	16	18	16
Above Normal (15%)	44	39	26	18	16	15	15	15	16	16	18	16
Below Normal (17%)	45	34	36	19	16	16	16	15	16	17	24	44
Dry (22%)	49	47	31	22	17	16	16	16	18	22	41	59
Critical (15%)	61	58	49	27	19	17	17	21	33	44	59	85

Alternative 2B minus Existing

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

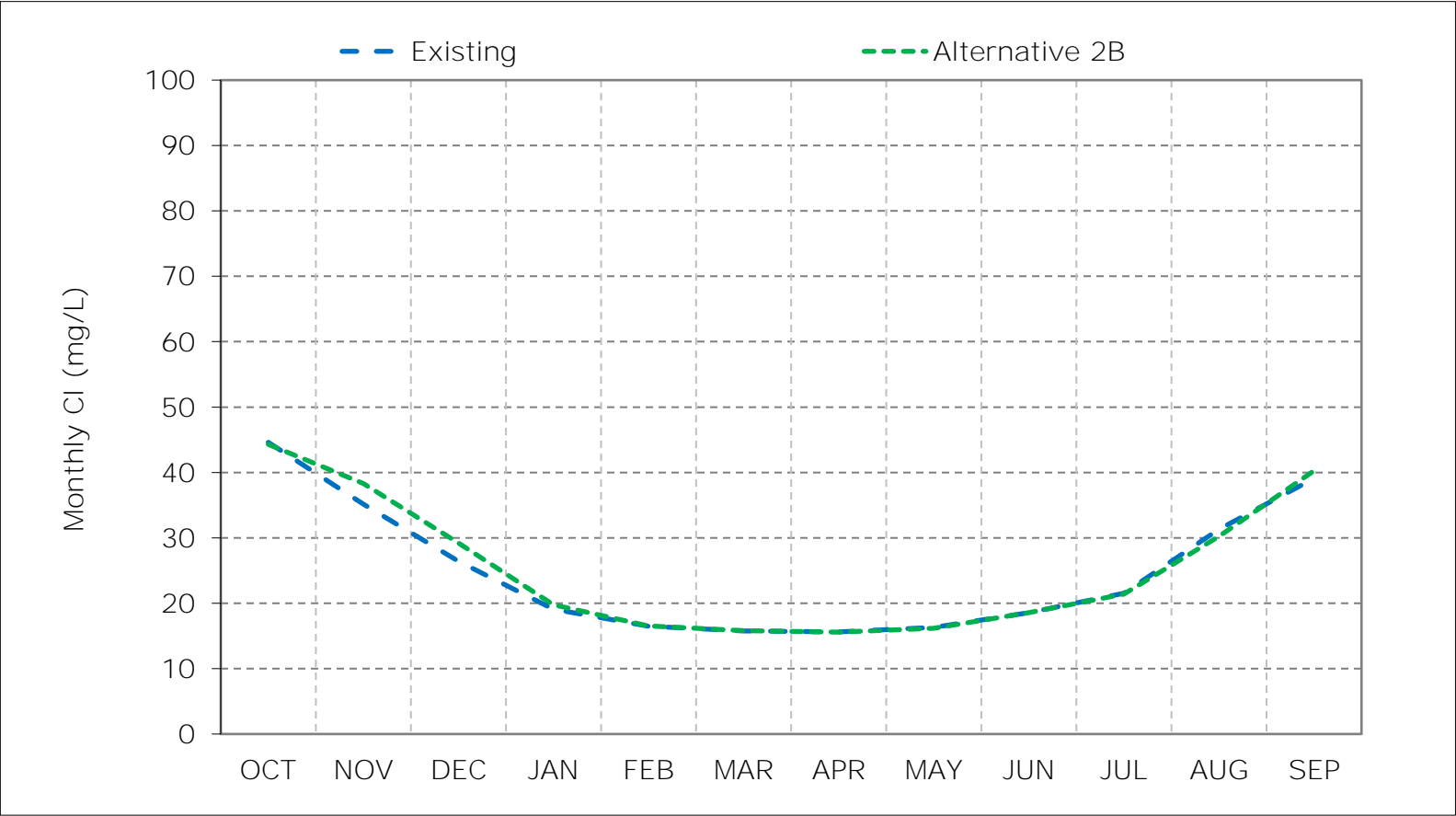
a Based on the 82-year simulation period.

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 water year - year type sorting.

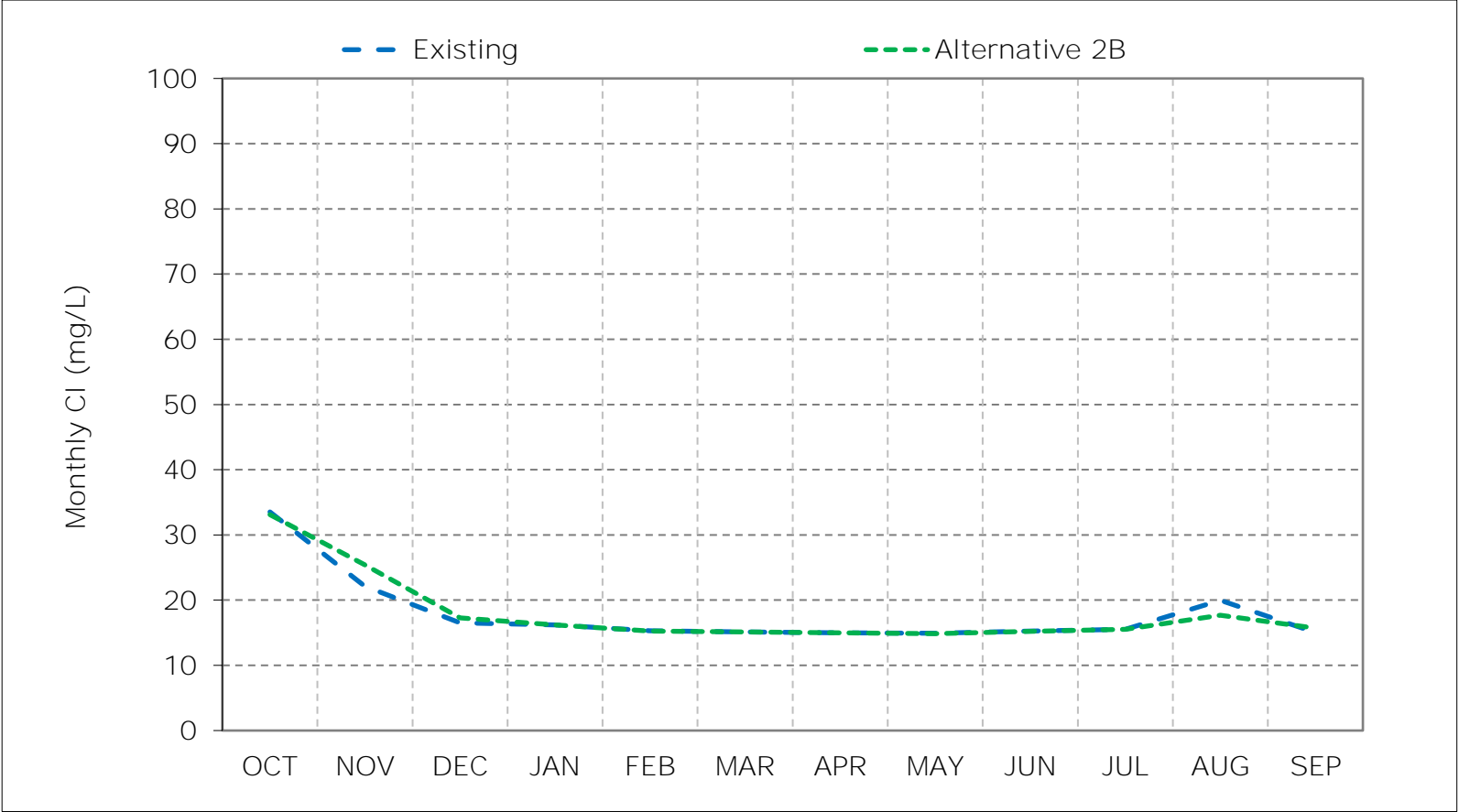
d Positive differences are highted in red color which indicate increase in Chloride (Cl).

Figure 2-1. Sacramento River at Rio Vista Chloride, Long-Term Average Cl



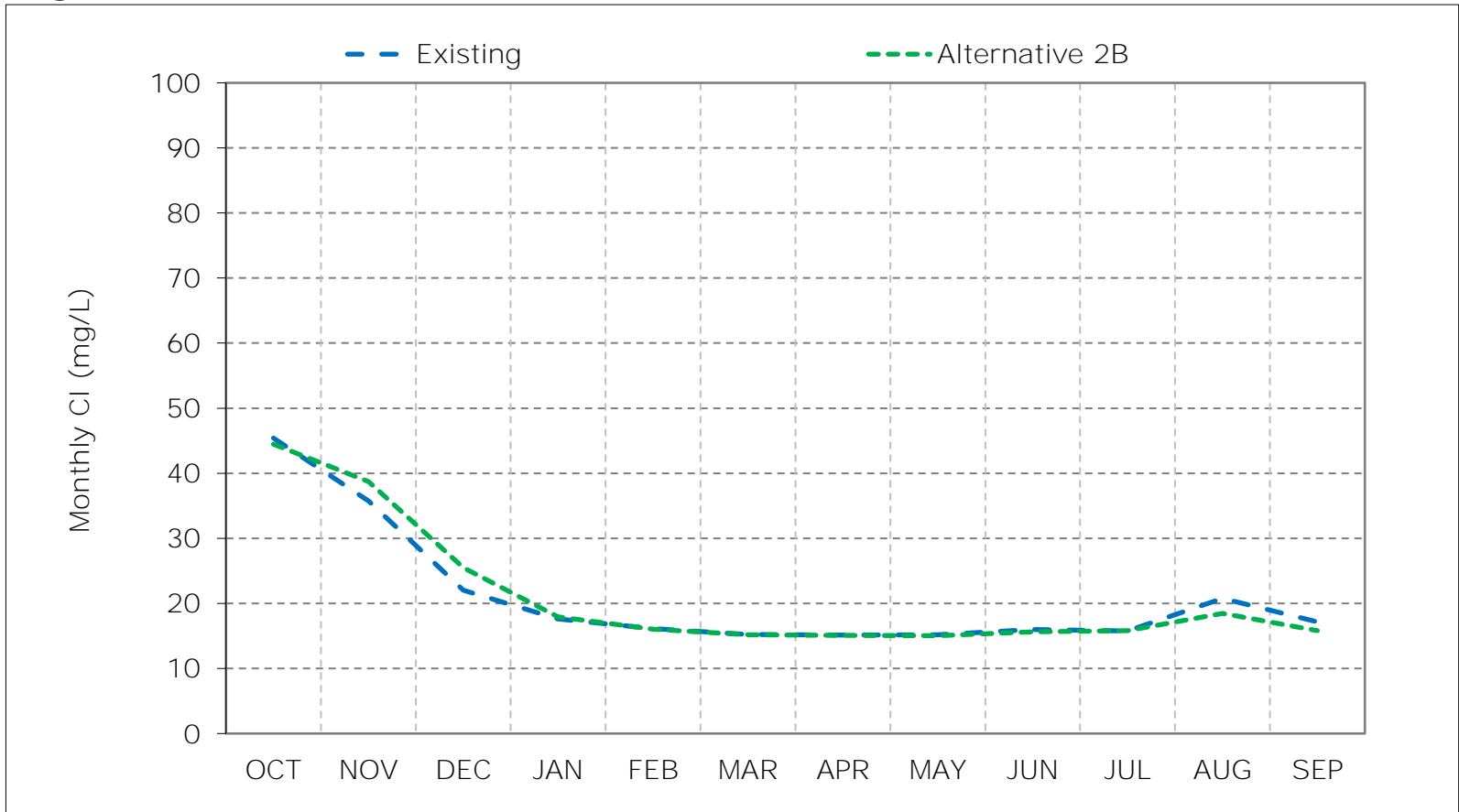
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 2-2. Sacramento River at Rio Vista Chloride, 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 water year - year type sorting.

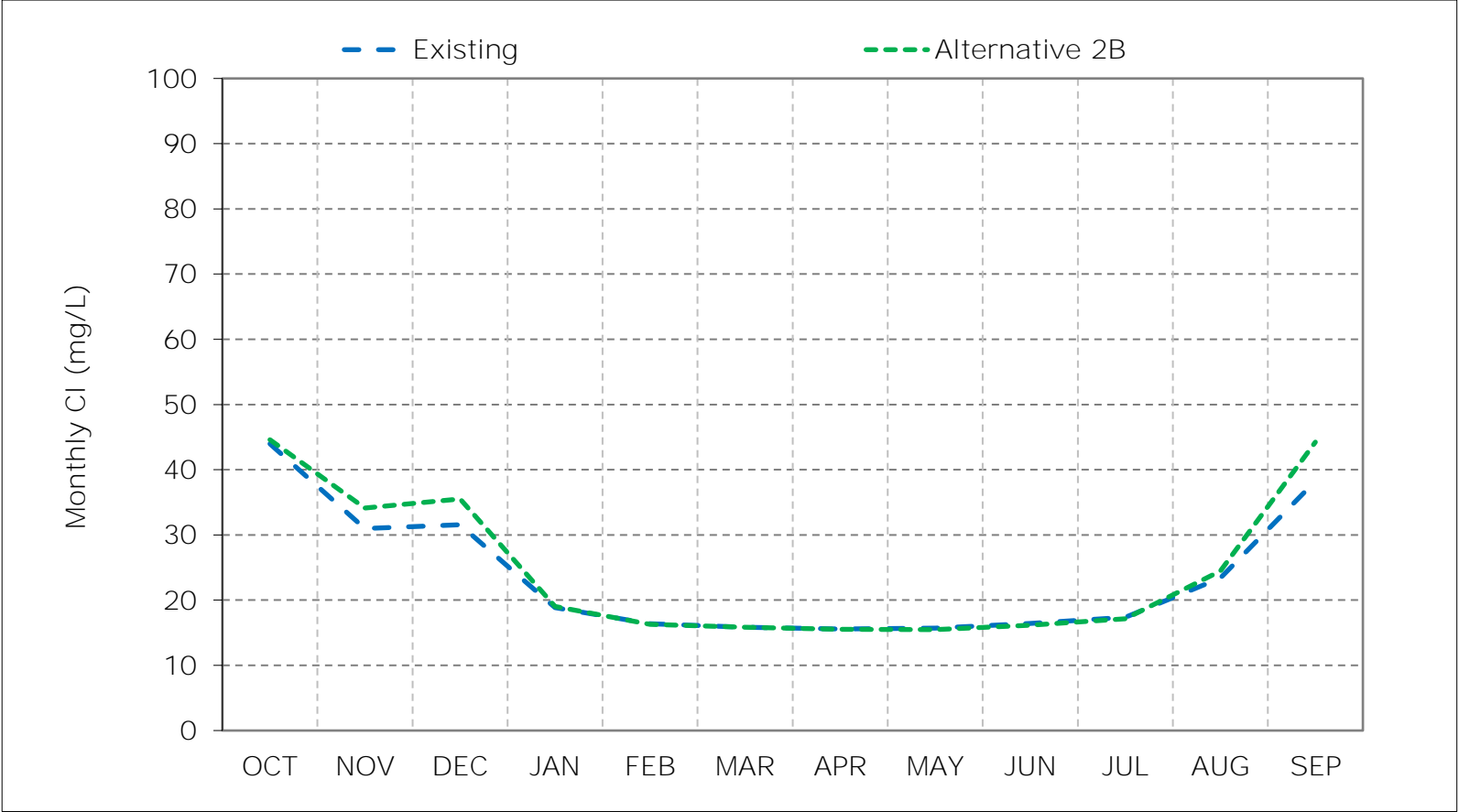
Figure 2-3. Sacramento River at Rio Vista Chloride, Above Normal Year Average Cl



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

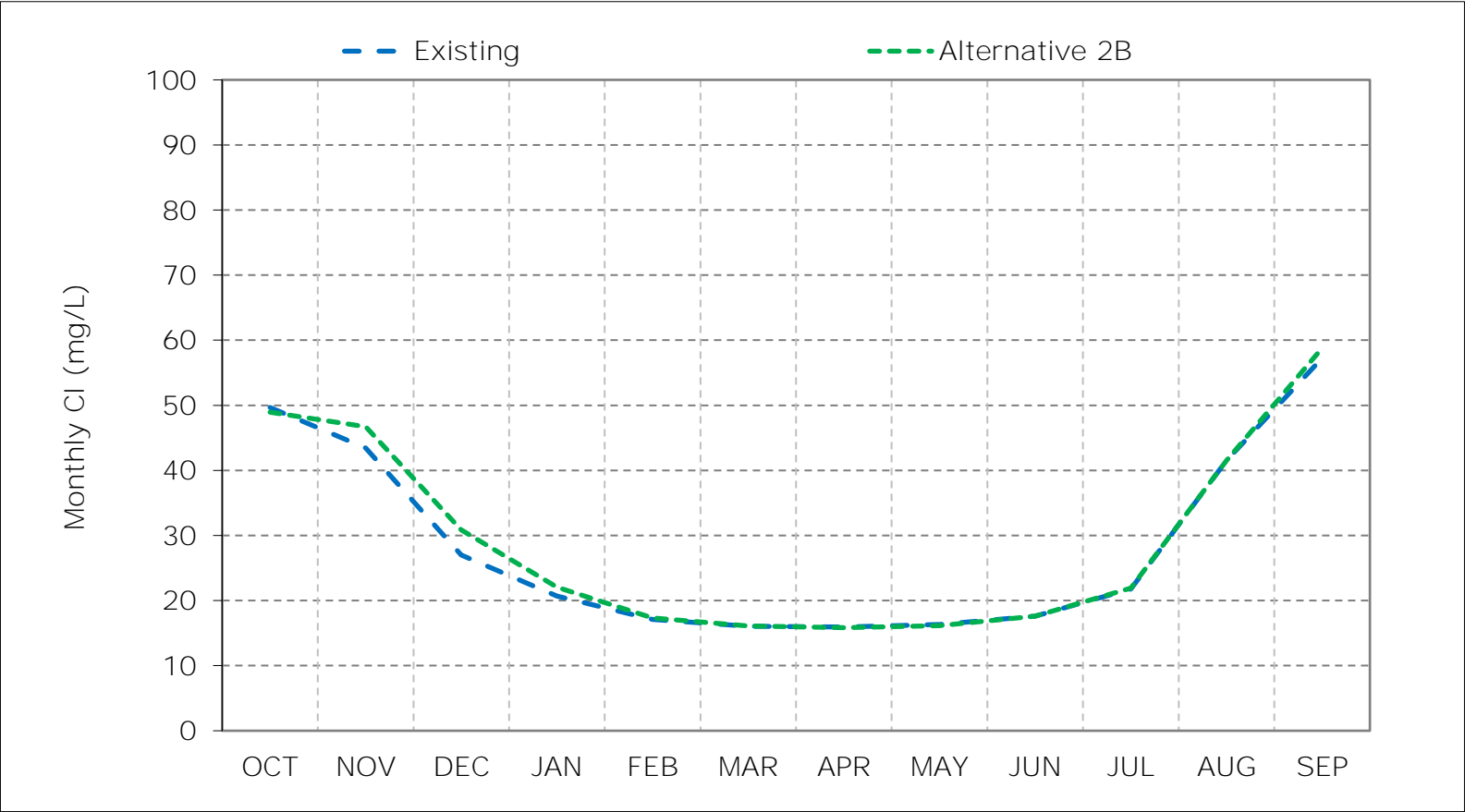
\*These results are displayed with water year - year type sorting.

Figure 2-4. Sacramento River at Rio Vista Chloride, Below Normal Year Average Cl



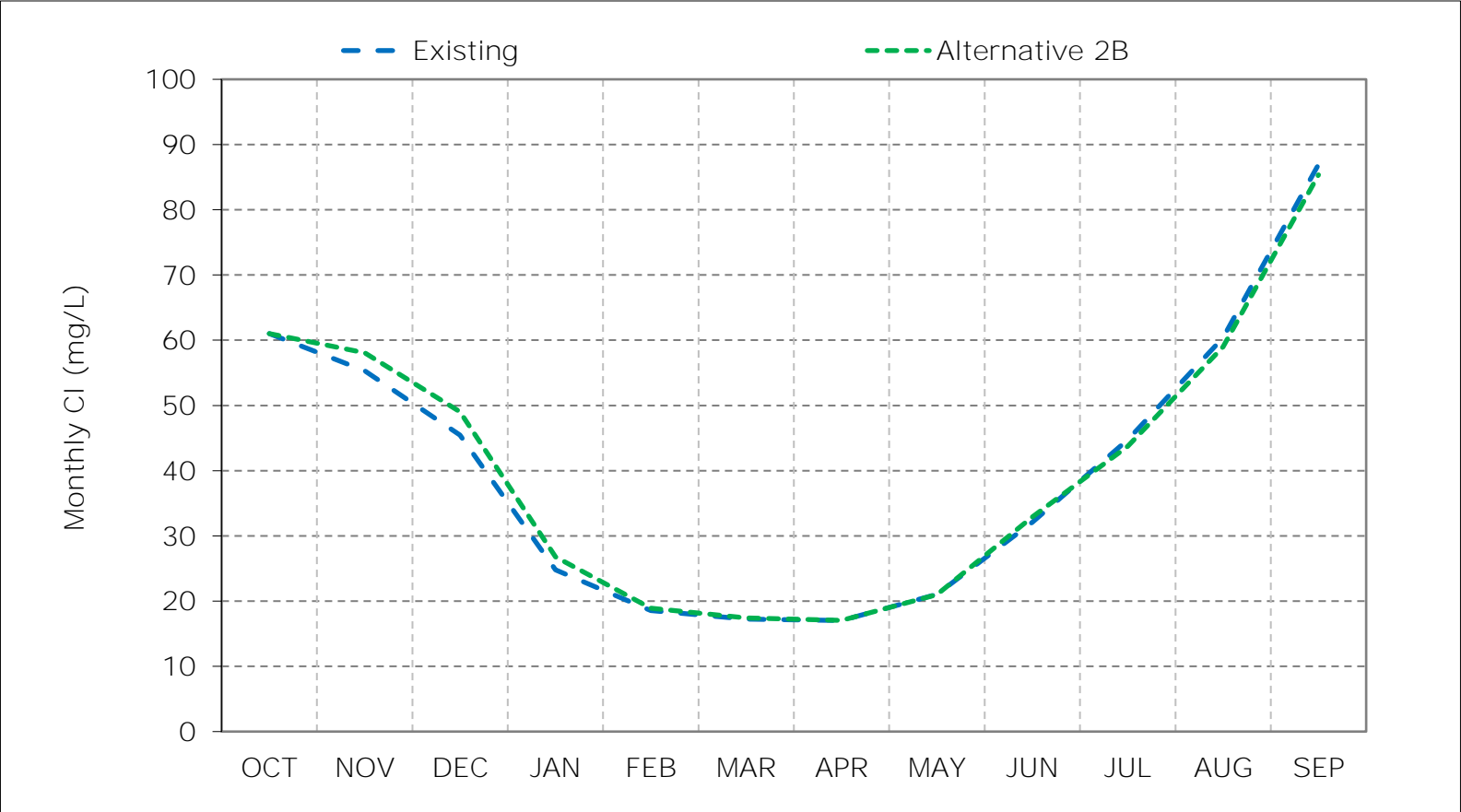
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 2-5. Sacramento River at Rio Vista Chloride, 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 water year - year type sorting.

Figure 2-6. Sacramento River at Rio Vista Chloride, 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 water year - year type sorting.



Figure 2-7. Sacramento River at Rio Vista Chloride, January CI

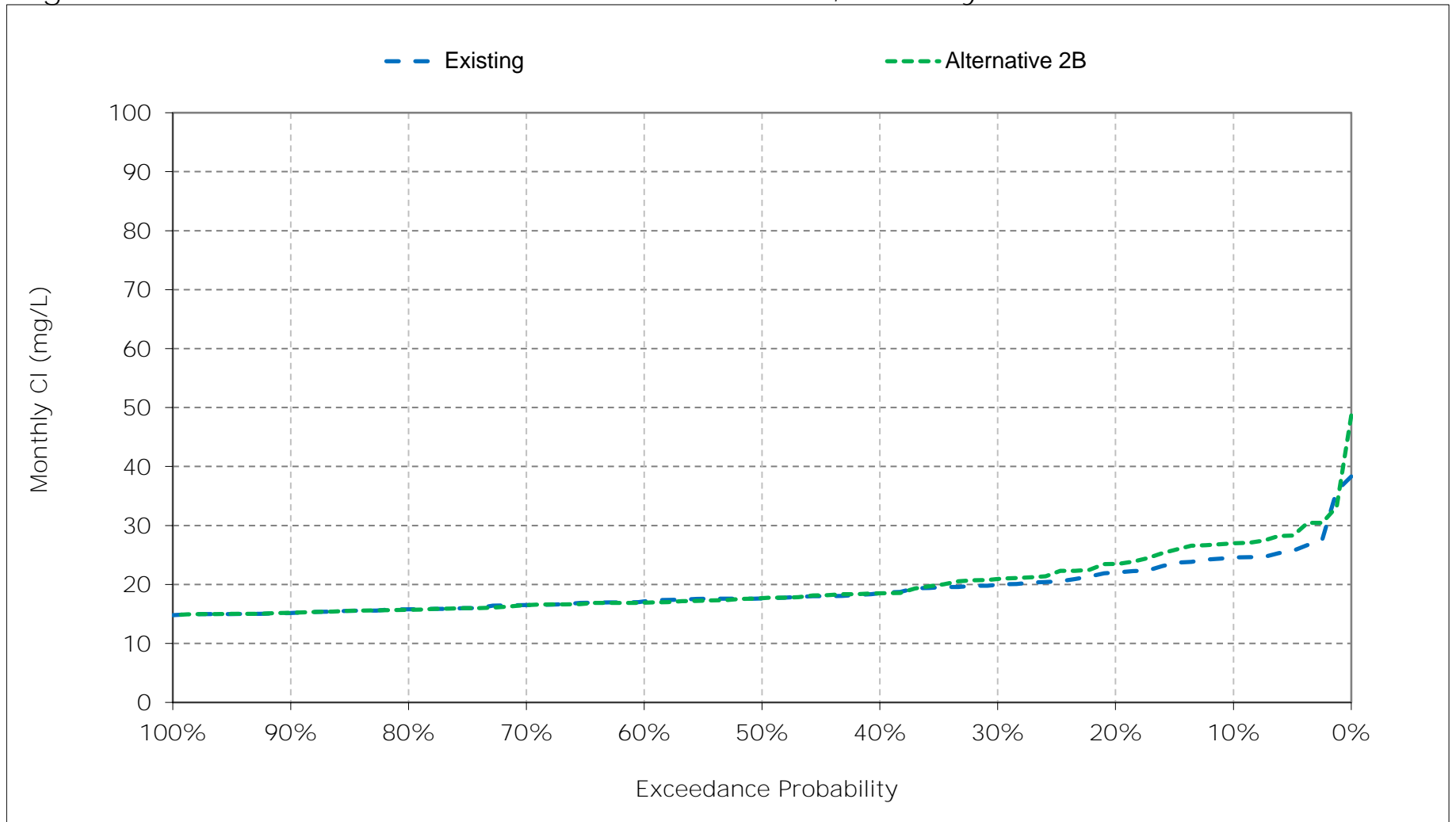


Figure 2-8. Sacramento River at Rio Vista Chloride, February CI

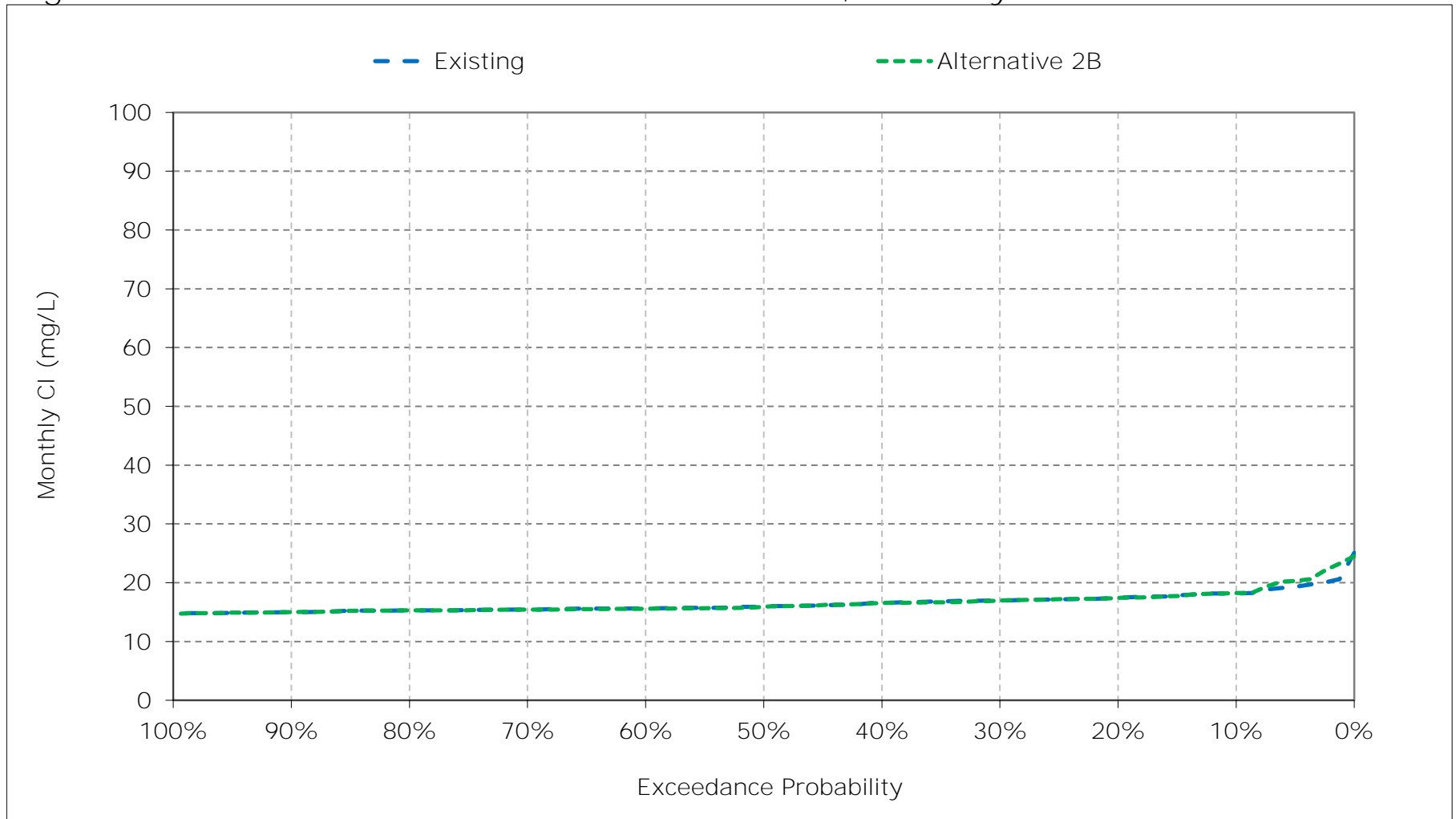


Figure 2-9. Sacramento River at Rio Vista Chloride, March CI

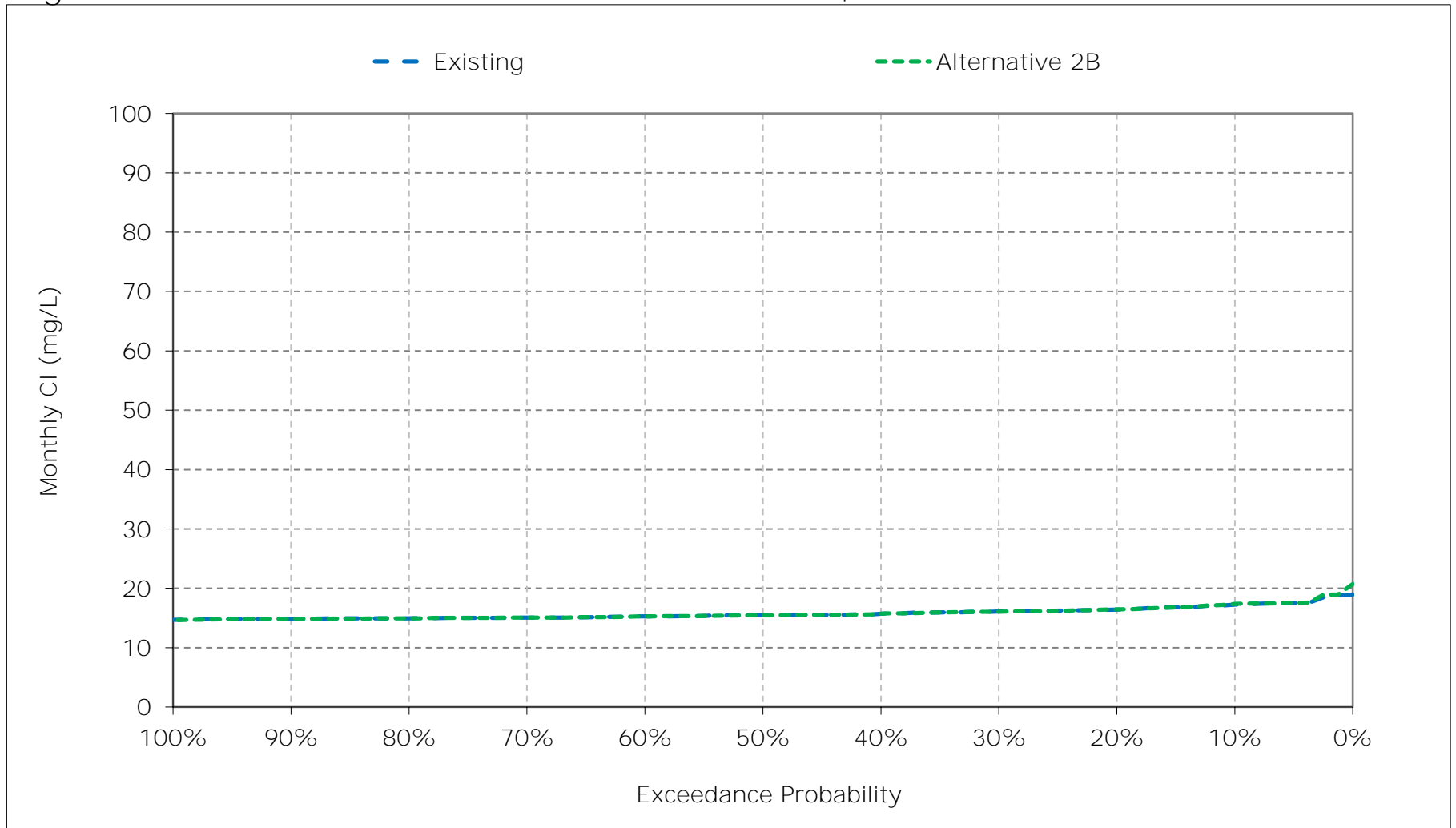


Figure 2-10. Sacramento River at Rio Vista Chloride, April CI

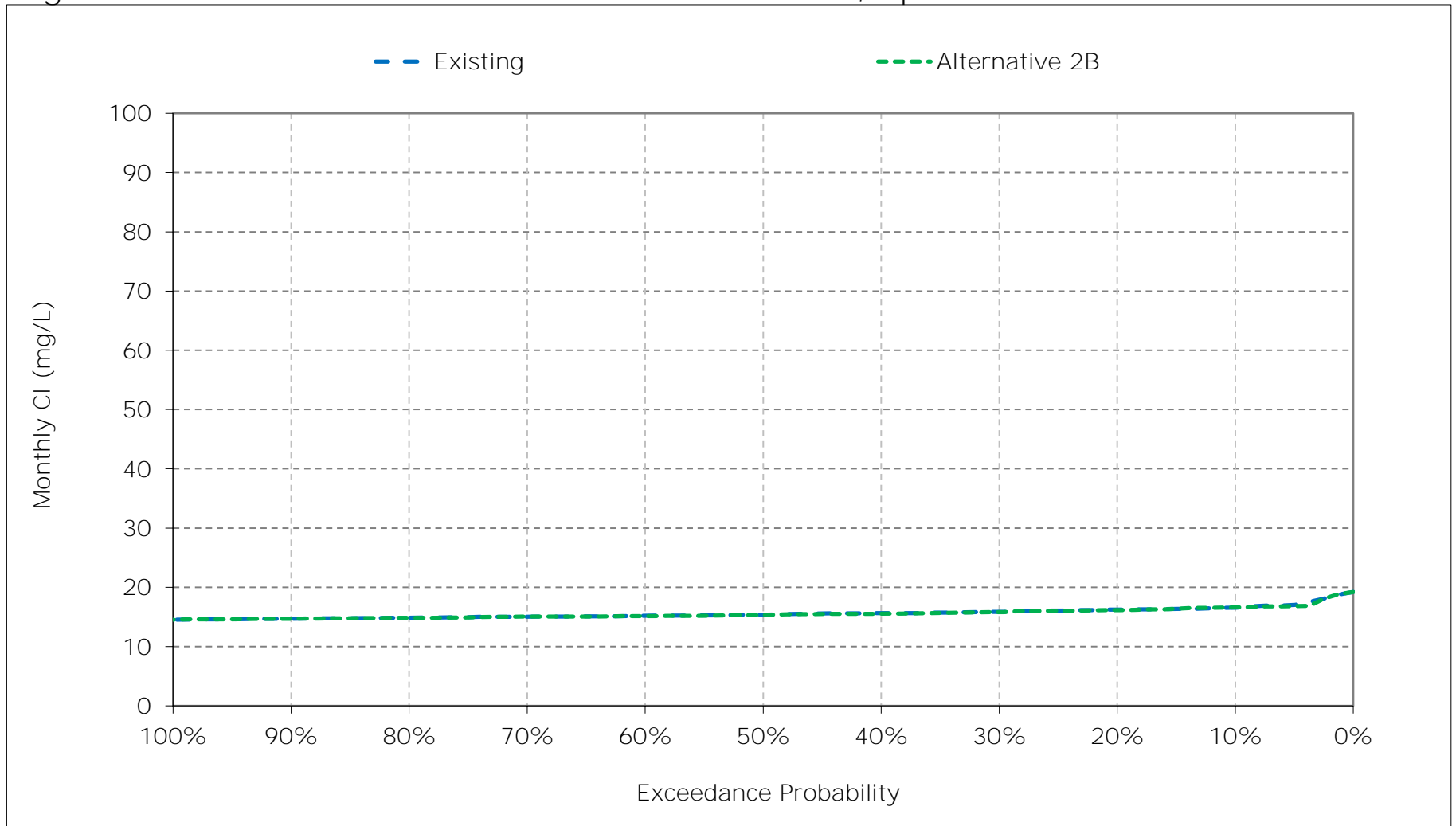


Figure 2-11. Sacramento River at Rio Vista Chloride, May CI

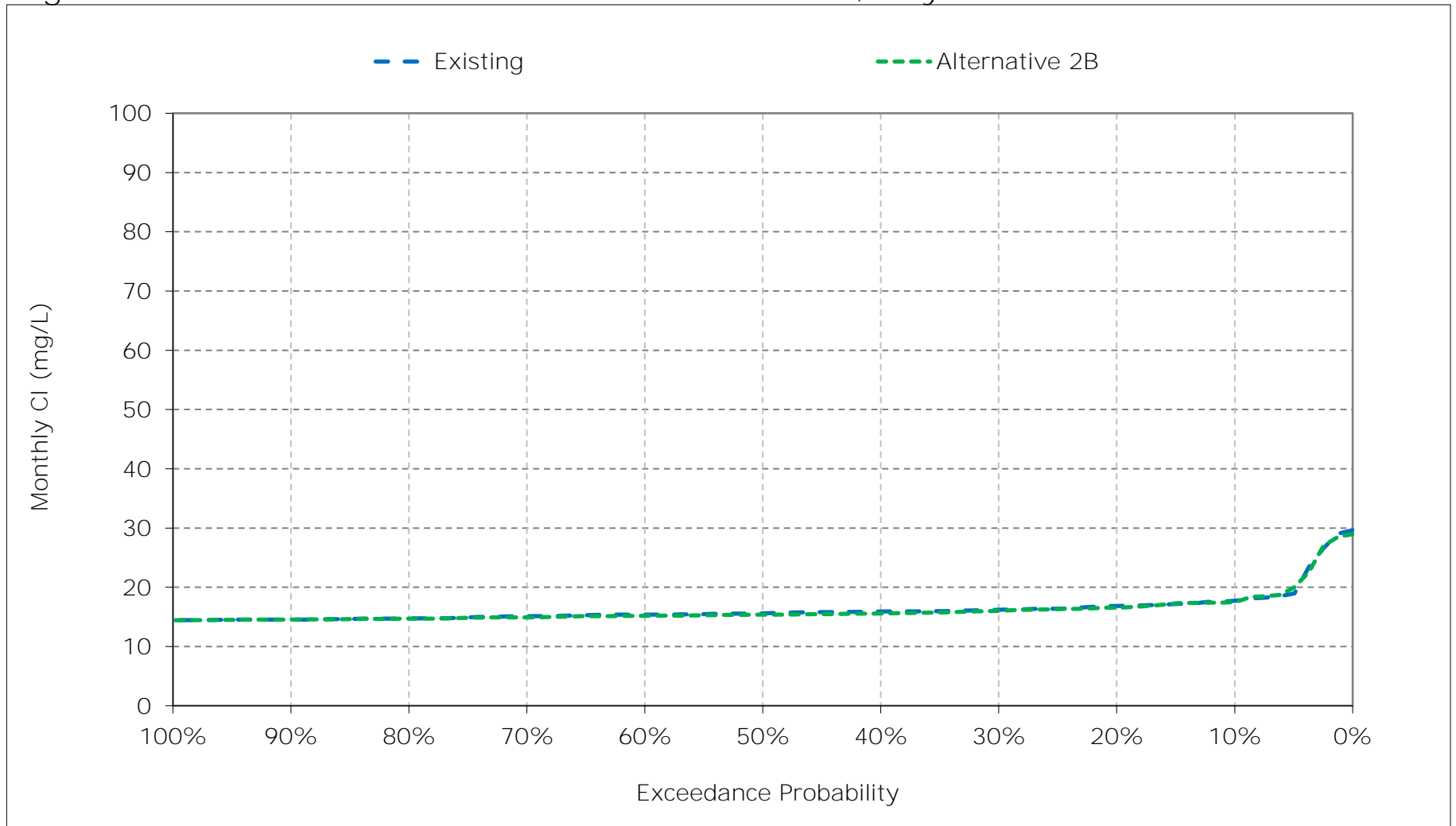


Figure 2-12. Sacramento River at Rio Vista Chloride, June CI

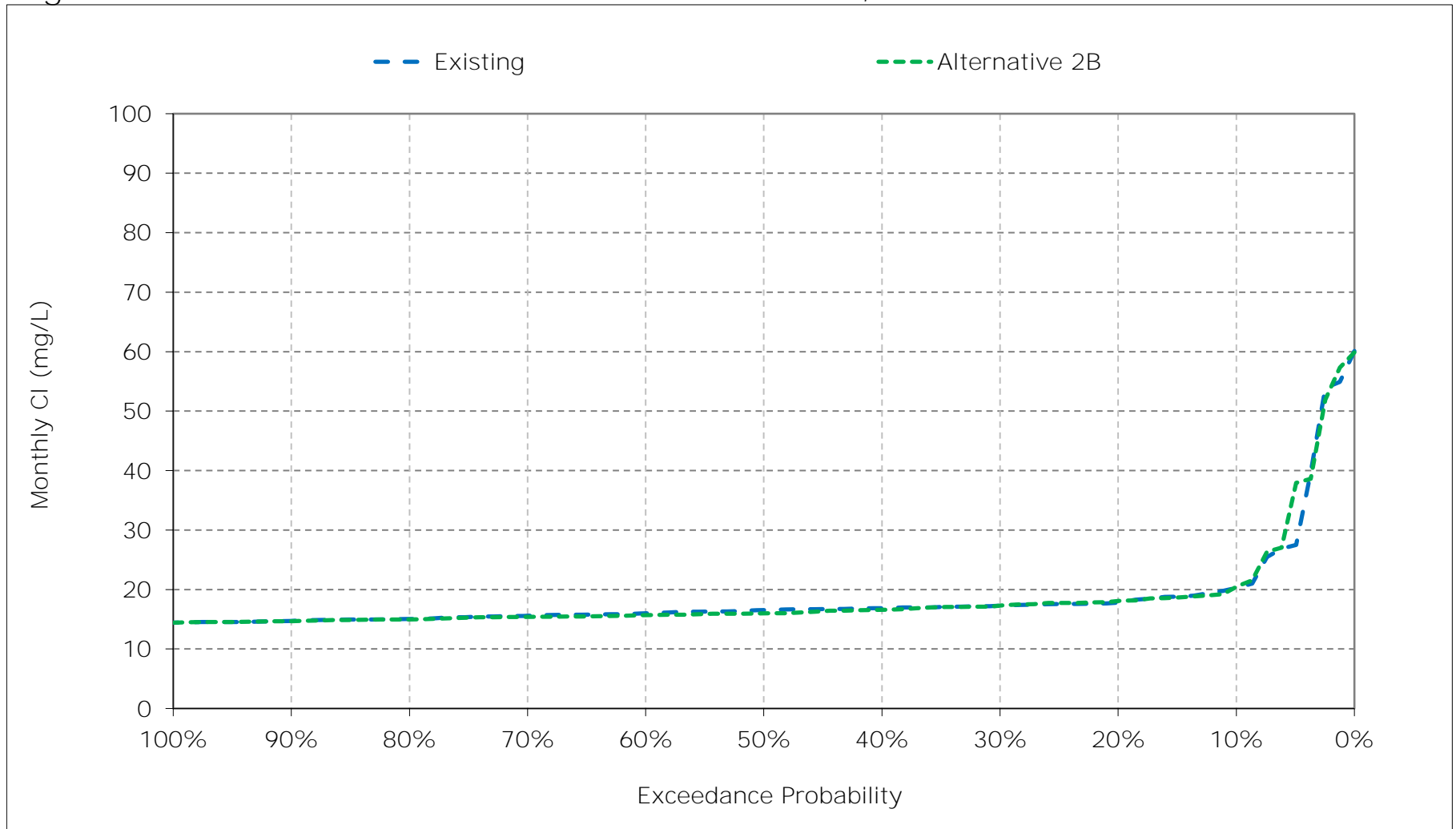


Figure 2-13. Sacramento River at Rio Vista Chloride, July CI

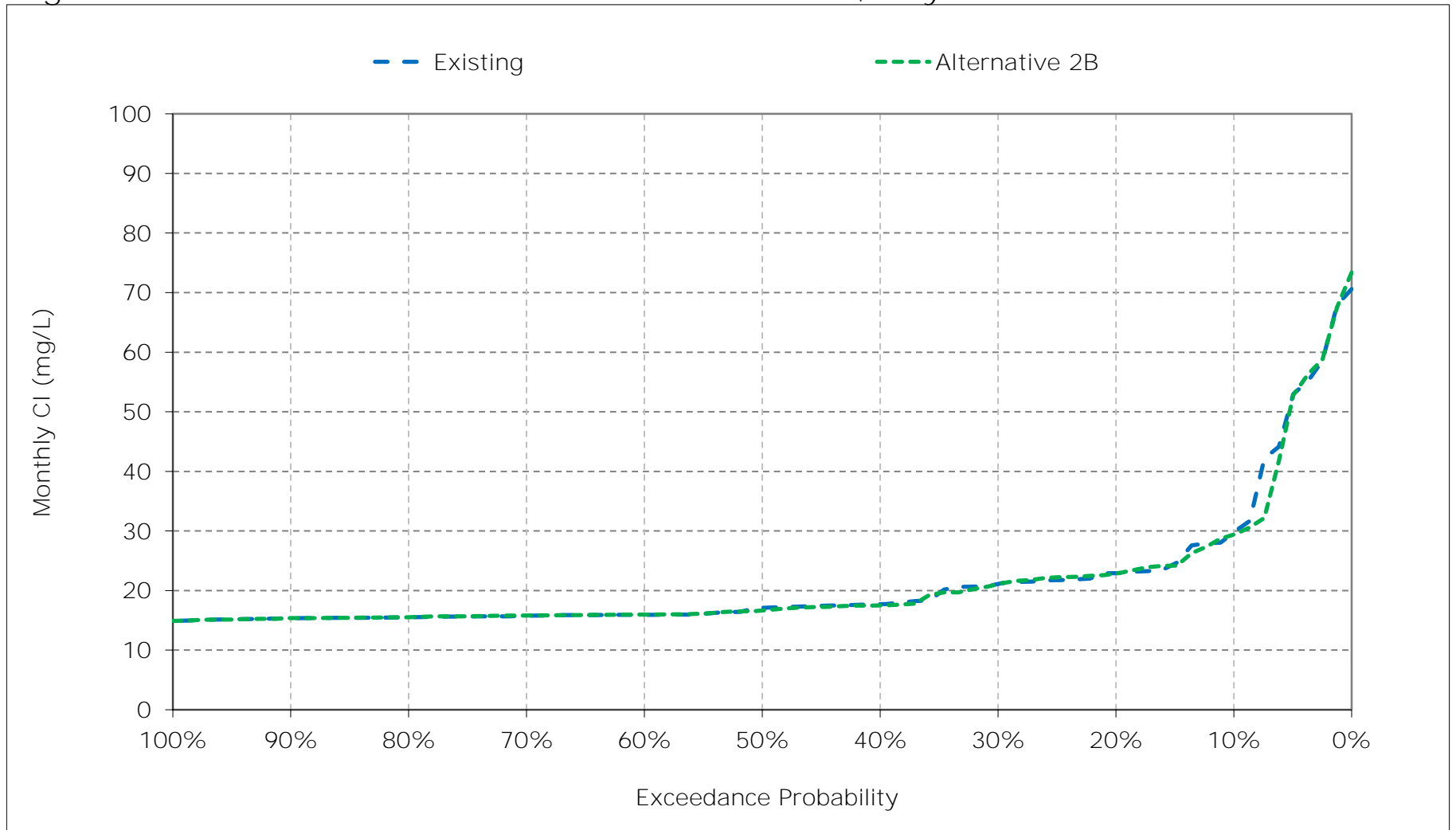


Figure 2-14. Sacramento River at Rio Vista Chloride, August Cl

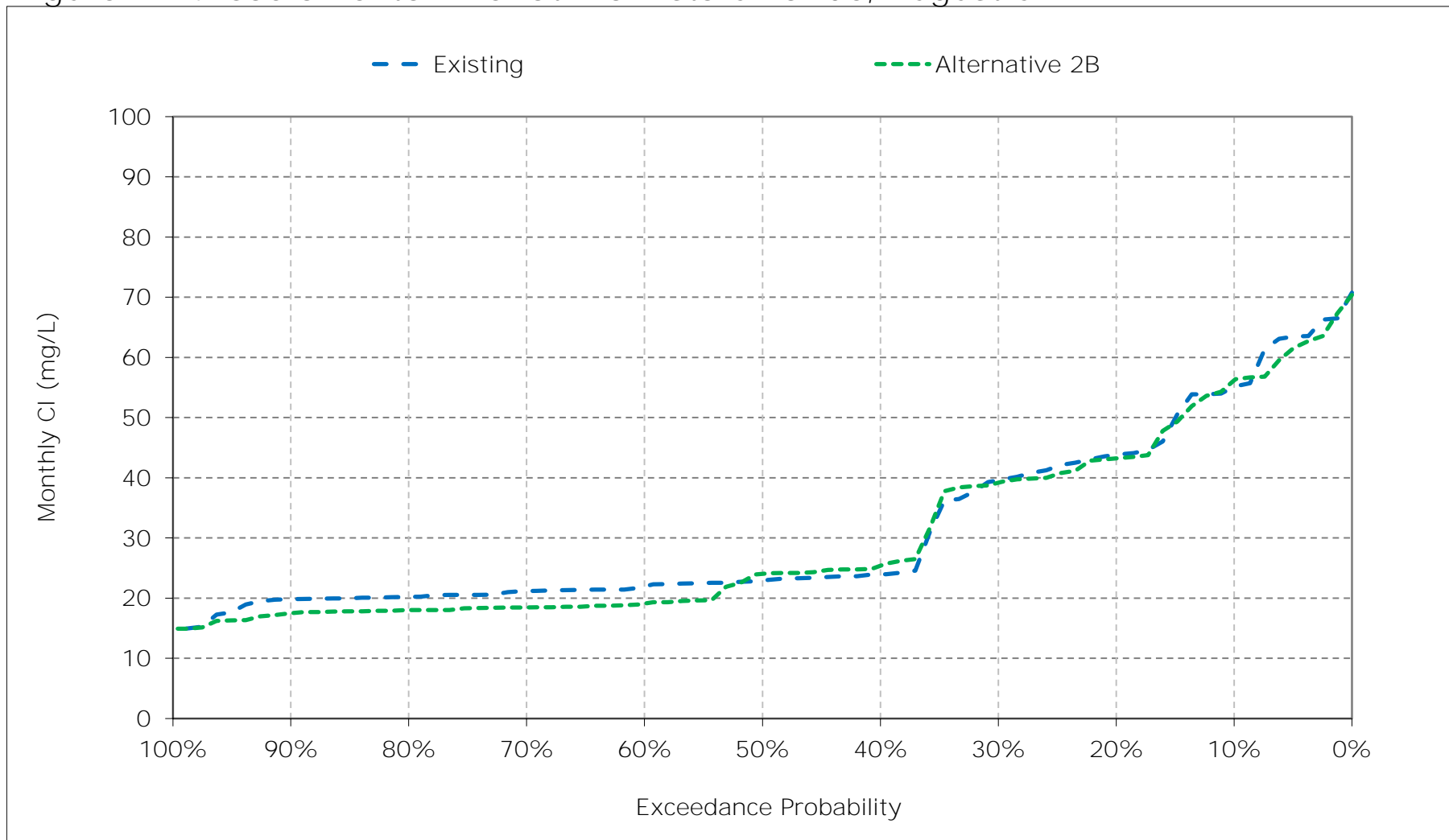




Figure 2-15. Sacramento River at Rio Vista Chloride, September CI

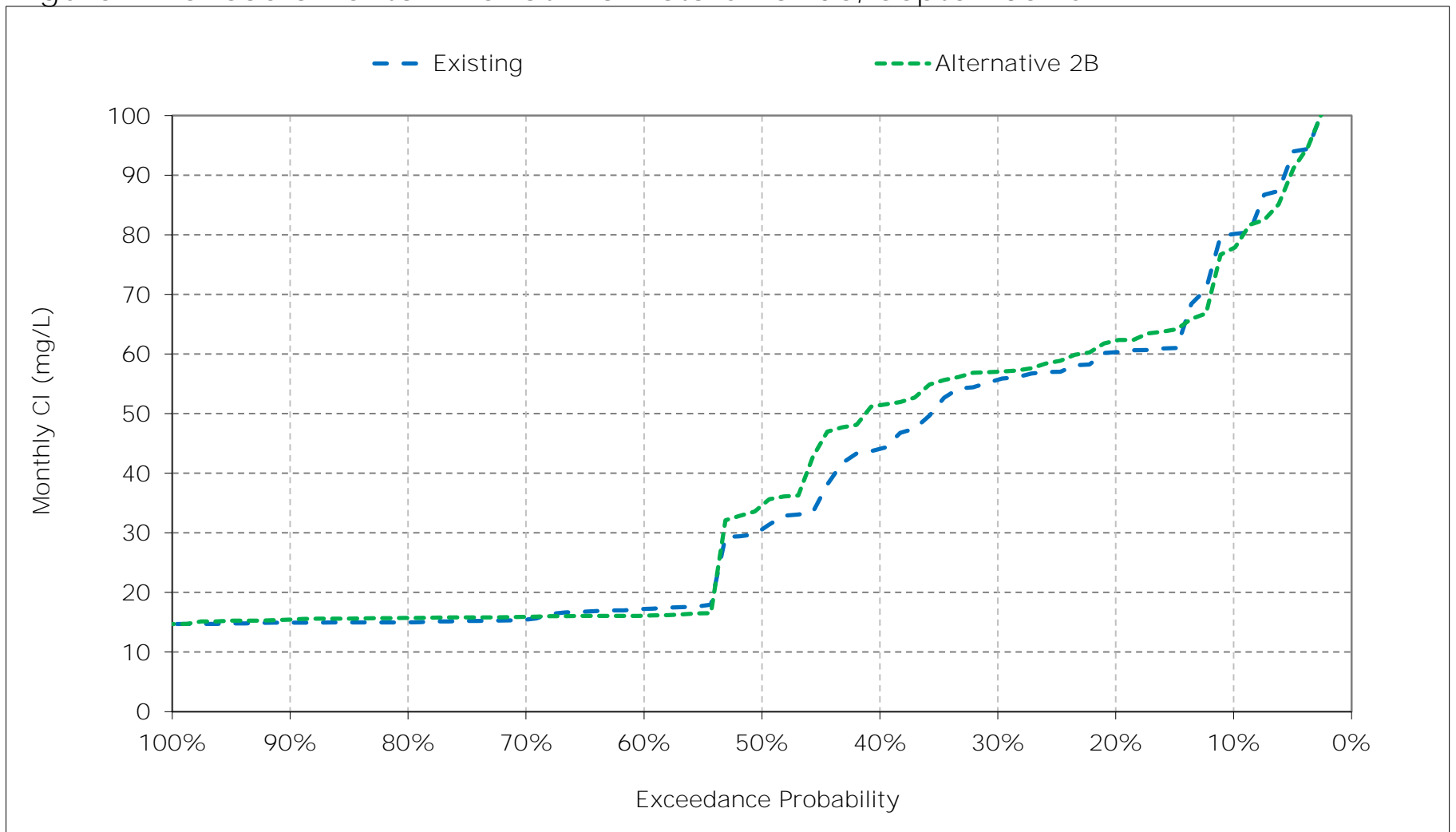


Figure 2-16. Sacramento River at Rio Vista Chloride, October CI

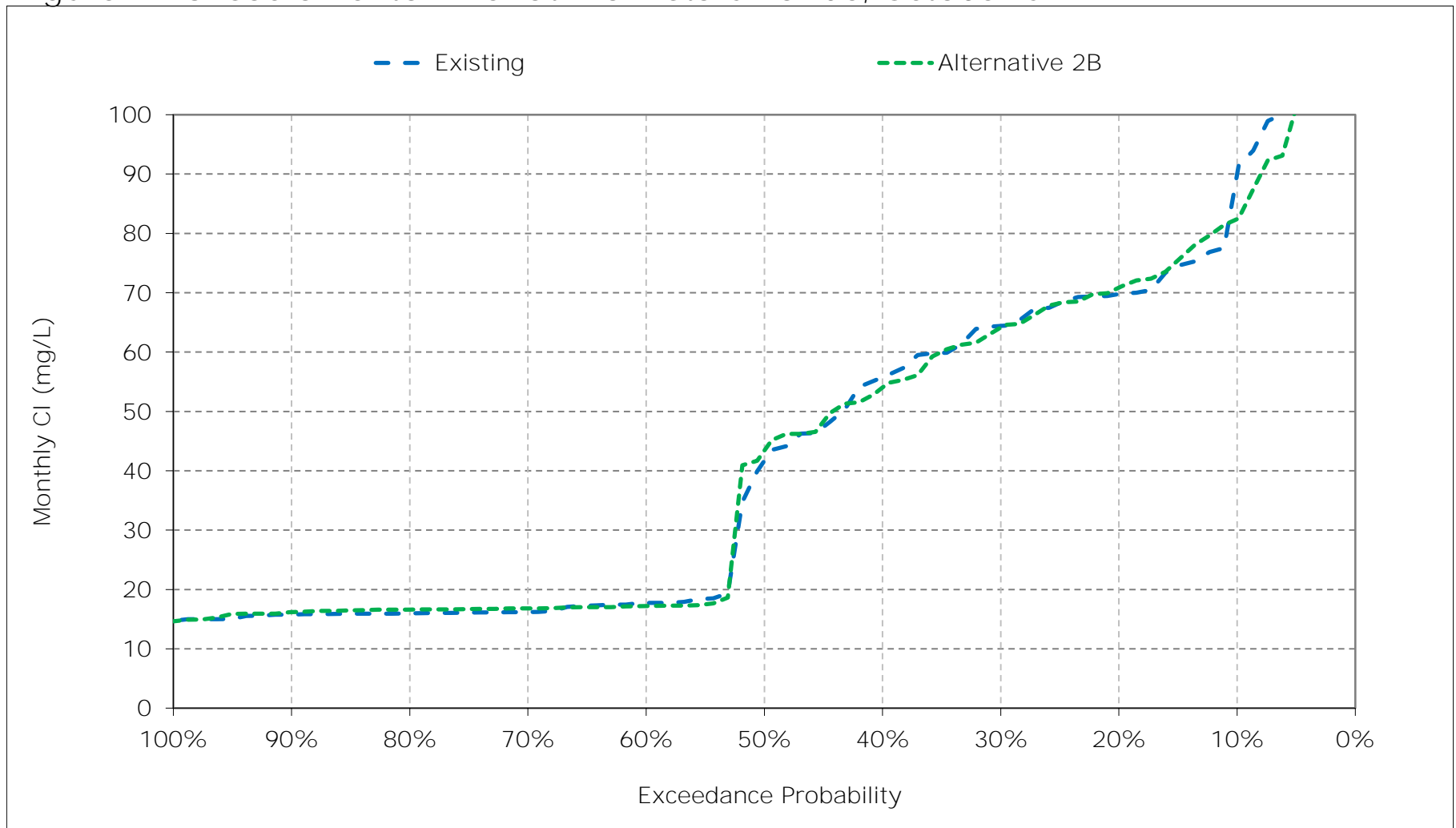


Figure 2-17. Sacramento River at Rio Vista Chloride, November CI

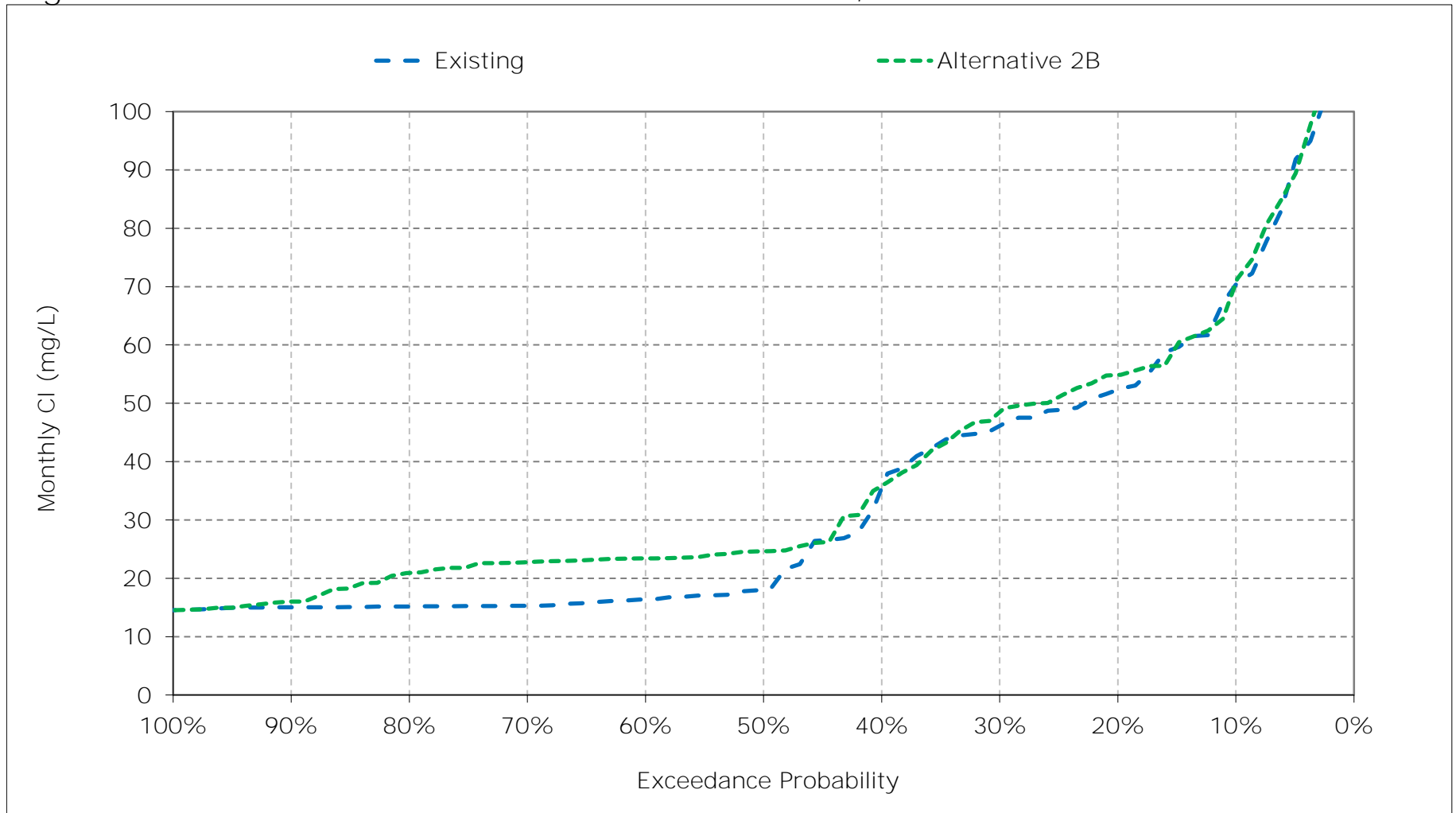


Figure 2-18. Sacramento River at Rio Vista Chloride, December CI

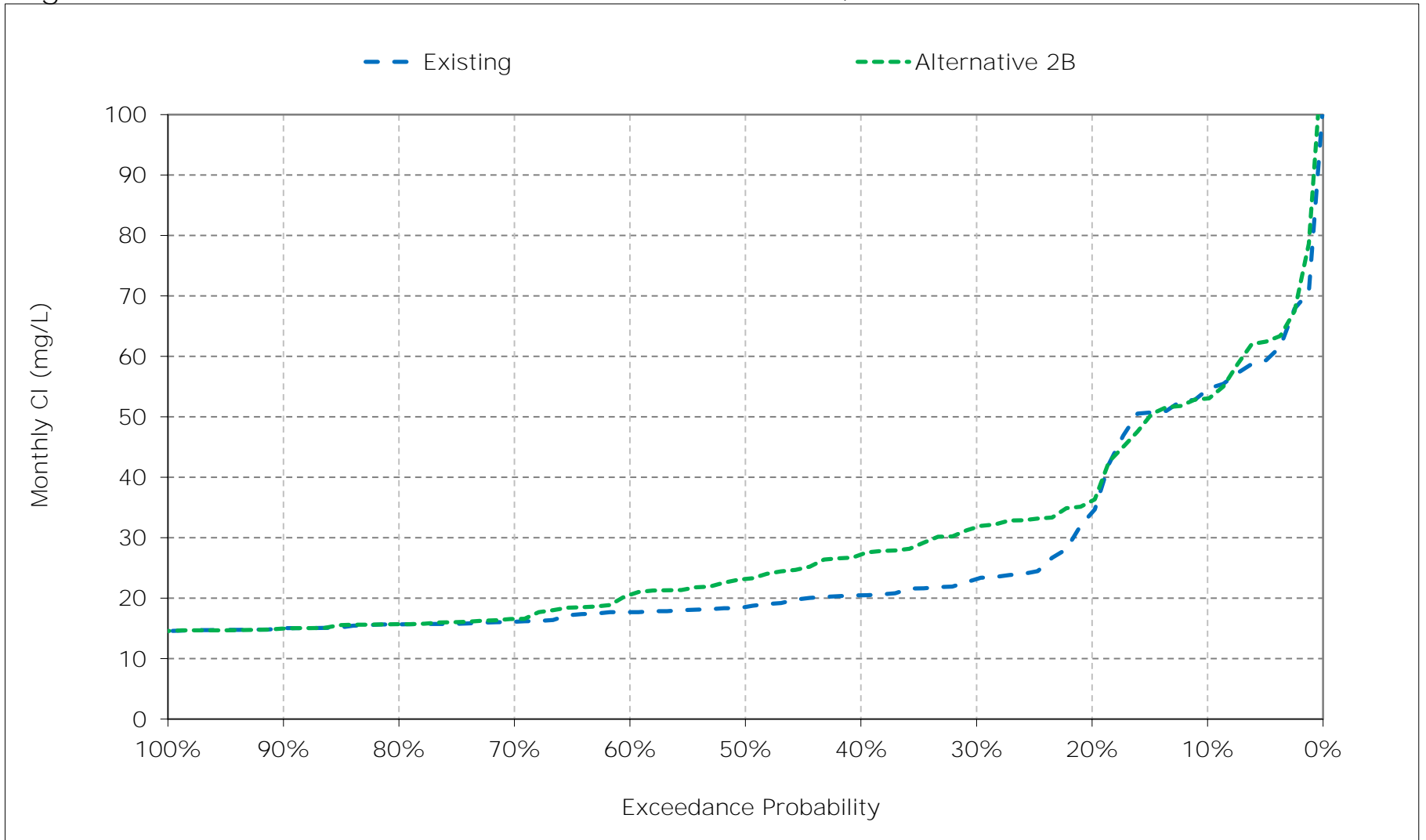


Table 3-1. Sacramento River at Collinsville Chloride, Monthly Cl

Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,964	2,757	2,546	1,405	564	475	527	828	1,134	1,699	2,329	2,681
20%	2,755	2,593	2,051	1,164	332	225	243	552	893	1,378	1,993	2,497
30%	2,699	2,527	1,366	835	142	67	103	399	851	1,249	1,923	2,440
40%	2,607	2,353	1,119	422	62	39	66	193	676	874	1,456	2,189
50%	2,303	928	893	304	37	24	30	94	555	752	1,331	1,866
60%	1,010	788	826	135	20	19	21	49	375	560	1,295	739
70%	520	412	239	23	18	17	19	27	258	508	1,204	359
80%	479	342	98	19	17	16	17	18	83	433	1,135	309
90%	444	307	22	16	16	16	16	16	18	304	1,068	278
Long Term												
Full Simulation Period <sup>a</sup>	1,724	1,470	1,062	533	190	126	153	295	603	906	1,519	1,479
Water Year Types <sup>b</sup>												
Wet (32%)	1,290	859	281	74	19	18	23	43	161	366	1,053	279
Above Normal (15%)	1,810	1,460	1,010	283	56	19	27	51	364	504	1,163	719
Below Normal (17%)	1,814	1,610	1,401	563	99	72	80	175	533	807	1,393	2,014
Dry (22%)	1,847	1,752	1,317	851	303	167	201	413	832	1,297	1,952	2,468
Critical (15%)	2,290	2,221	2,029	1,268	634	471	574	1,048	1,539	2,007	2,383	2,732

Alternative 2B

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,927	2,720	2,539	1,659	553	481	538	864	1,151	1,682	2,283	2,628
20%	2,750	2,612	2,059	1,304	341	205	258	660	966	1,399	2,006	2,516
30%	2,691	2,558	1,941	955	161	54	144	505	857	1,222	1,945	2,462
40%	2,591	2,373	1,740	465	58	33	85	254	723	970	1,712	2,321
50%	2,308	1,667	1,360	280	40	22	38	132	542	801	1,520	1,916
60%	943	1,581	1,009	121	20	19	22	79	413	592	1,098	595
70%	891	1,521	367	24	18	17	19	33	295	531	997	571
80%	828	1,304	182	18	17	16	17	18	88	460	968	528
90%	732	556	37	16	16	16	16	16	18	306	904	461
Long Term												
Full Simulation Period <sup>a</sup>	1,803	1,837	1,268	580	202	126	162	333	627	928	1,479	1,547
Water Year Types <sup>b</sup>												
Wet (32%)	1,395	1,331	391	72	18	18	26	61	186	379	870	496
Above Normal (15%)	1,910	1,812	1,302	309	42	18	31	78	363	520	1,009	548
Below Normal (17%)	1,906	1,961	1,667	577	94	67	94	233	543	890	1,613	2,128
Dry (22%)	1,923	2,085	1,579	966	336	163	216	481	874	1,313	1,978	2,493
Critical (15%)	2,281	2,439	2,203	1,377	687	484	582	1,074	1,570	1,992	2,365	2,728

Alternative 2B minus Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-38	-37	-7	254	-10	6	10	36	17	-17	-46	-53
20%	-5	19	8	140	8	-20	16	108	73	21	13	19
30%	-8	31	575	120	19	-12	41	106	6	-27	23	21
40%	-16	20	621	43	-4	-7	19	62	47	97	256	132
50%	5	739	467	-24	3	-2	7	38	-13	49	189	50
60%	-67	793	183	-14	0	-1	0	30	38	32	-197	-144
70%	372	1,108	128	1	0	0	1	6	36	23	-207	212
80%	349	962	84	0	0	0	-1	0	5	27	-168	219
90%	288	249	15	0	0	0	0	-1	0	1	-164	183
Long Term												
Full Simulation Period <sup>a</sup>	79	366	206	47	12	0	9	39	23	22	-40	68
Water Year Types <sup>b</sup>												
Wet (32%)	105	472	110	-1	-1	0	4	19	25	13	-182	217
Above Normal (15%)	100	352	292	26	-14	-1	5	27	-1	17	-154	-171
Below Normal (17%)	92	351	266	14	-5	-4	14	58	9	83	220	114
Dry (22%)	77	333	262	115	34	-4	15	69	42	17	26	26
Critical (15%)	-9	218	174	109	52	13	8	25	31	-14	-19	-5

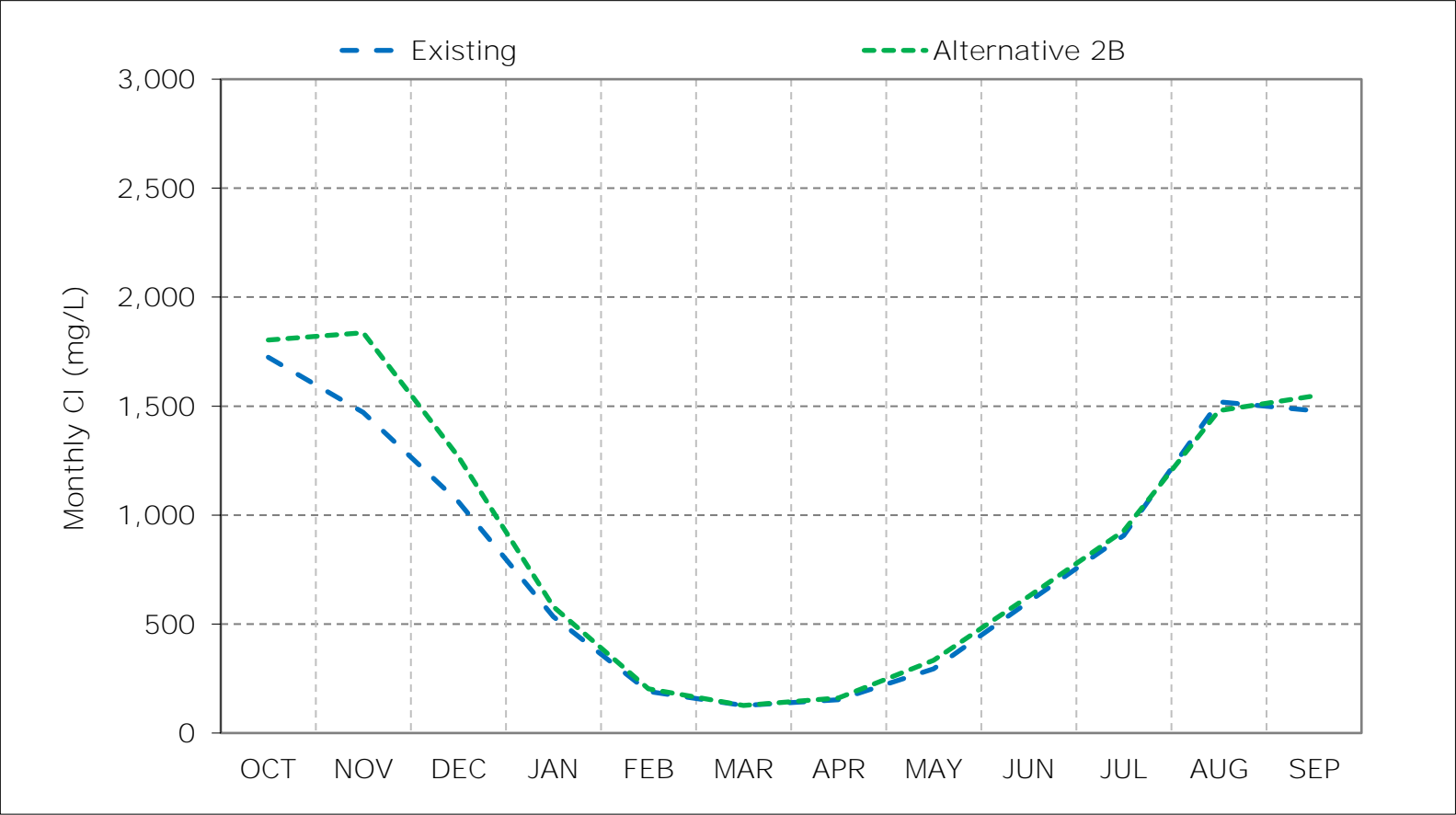
a Based on the 82-year simulation period.

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 water year - year type sorting.

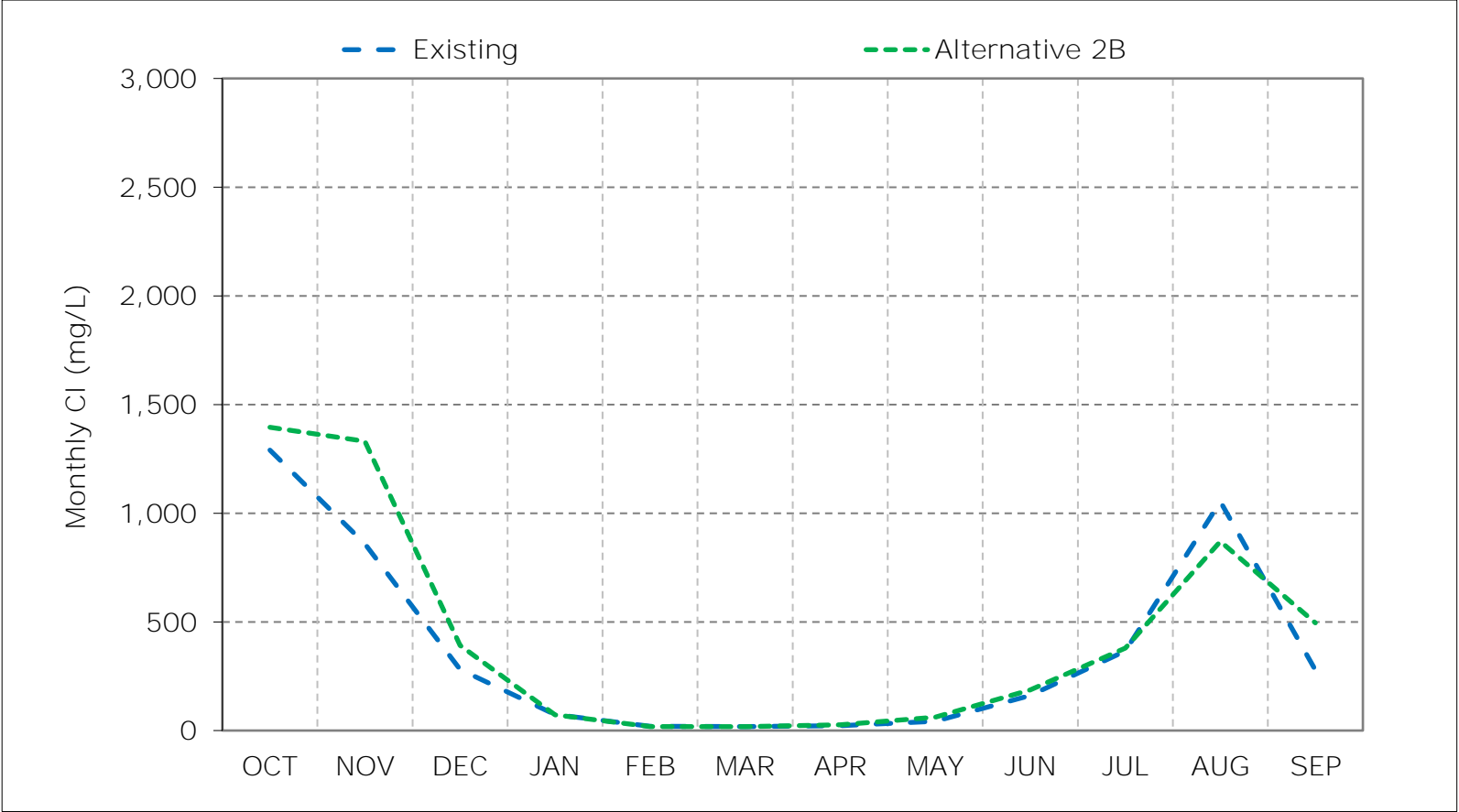
d Positive differences are highted in red color which indicate increase in Chloride (Cl).

Figure 3-1. Sacramento River at Collinsville Chloride, Long-Term Average Cl



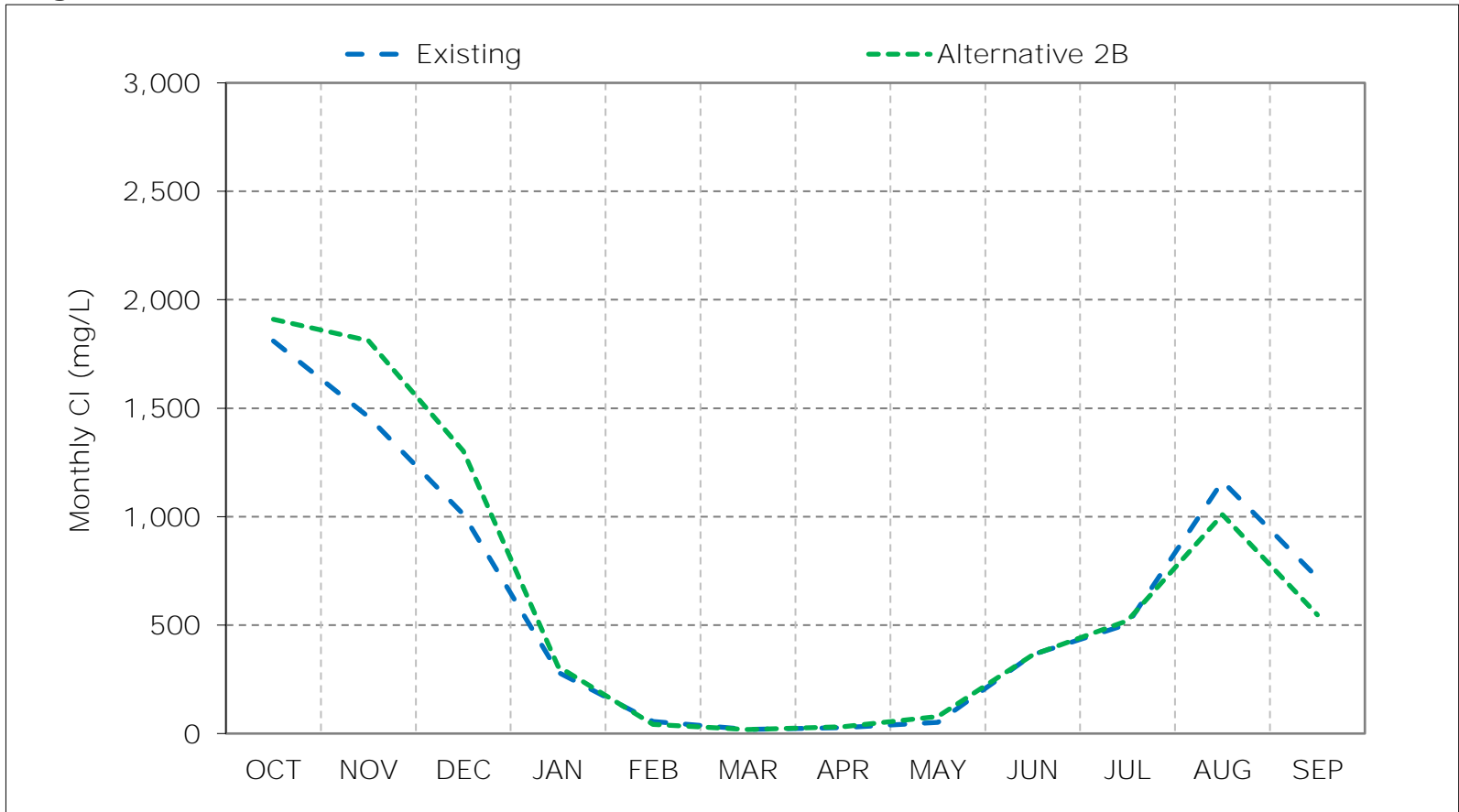
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 3-2. Sacramento River at Collinsville Chloride, 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 water year - year type sorting.

Figure 3-3. Sacramento River at Collinsville Chloride, Above Normal Year Average C

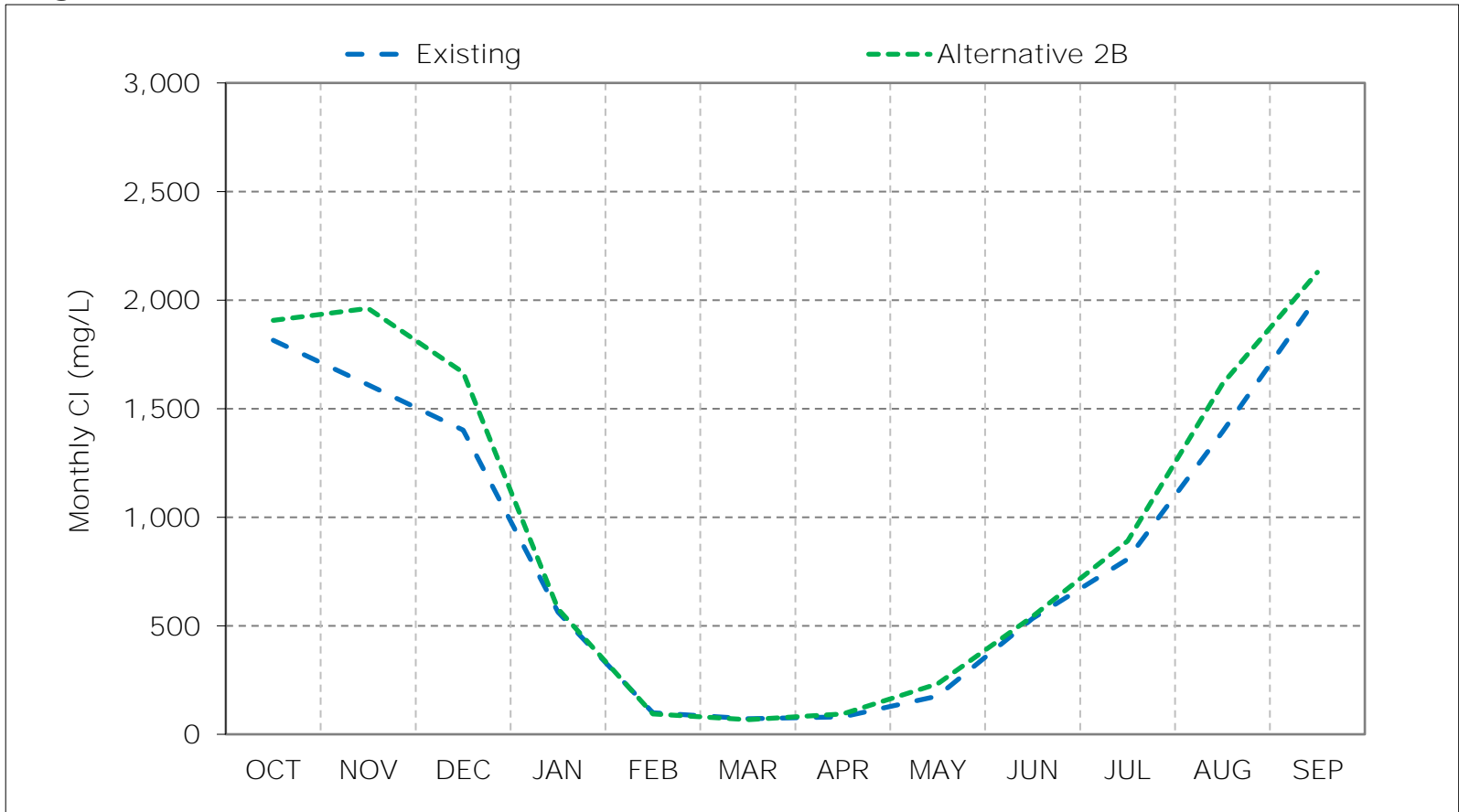


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



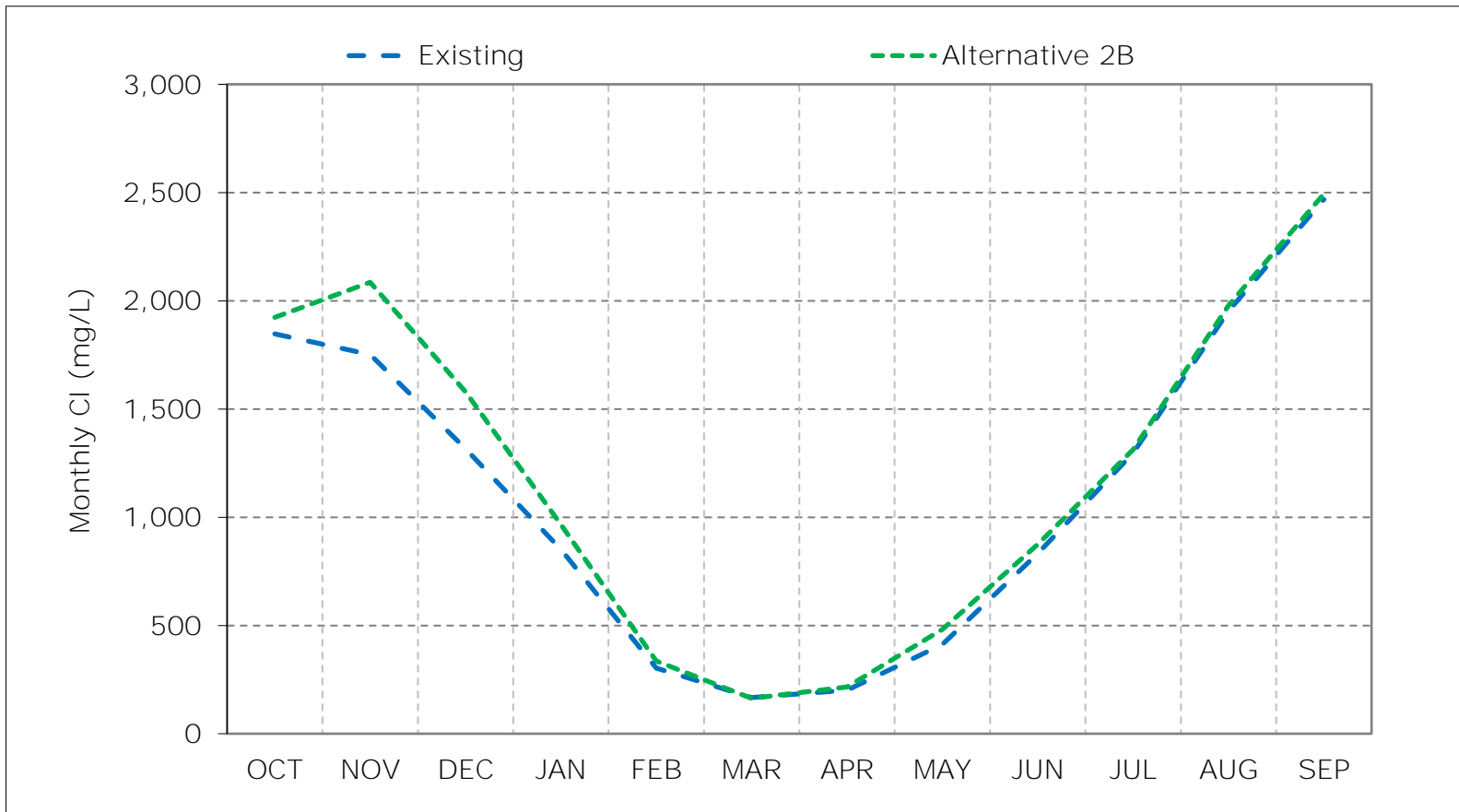
Figure 3-4. Sacramento River at Collinsville Chloride, Below Normal Year Average C



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

\*These results are displayed with water year - year type sorting.

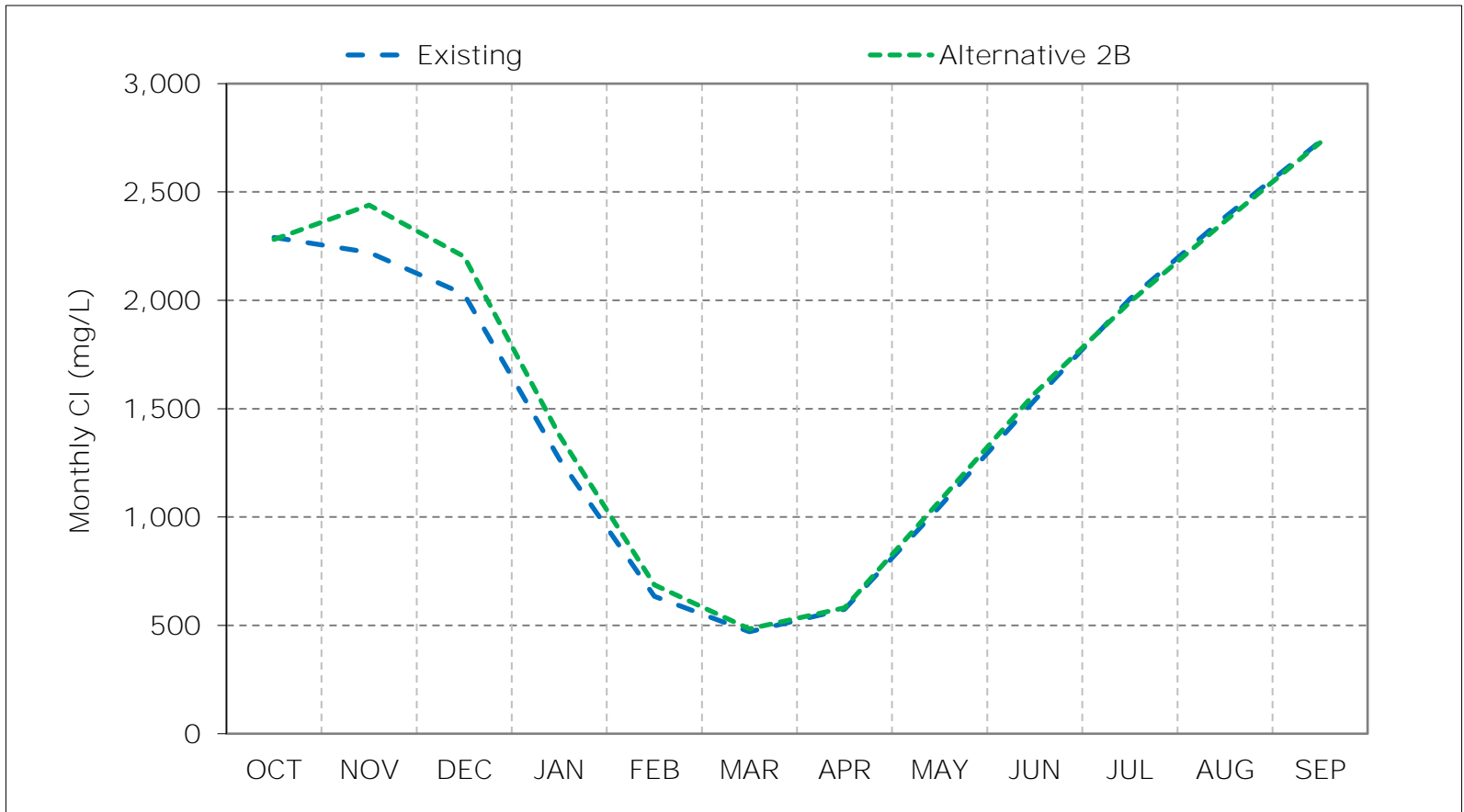
Figure 3-5. Sacramento River at Collinsville Chloride, Dry Year Average Cl



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

\*These results are displayed with water year - year type sorting.

Figure 3-6. Sacramento River at Collinsville Chloride, 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 water year - year type sorting.

Figure 3-7. Sacramento River at Collinsville Chloride, January CI

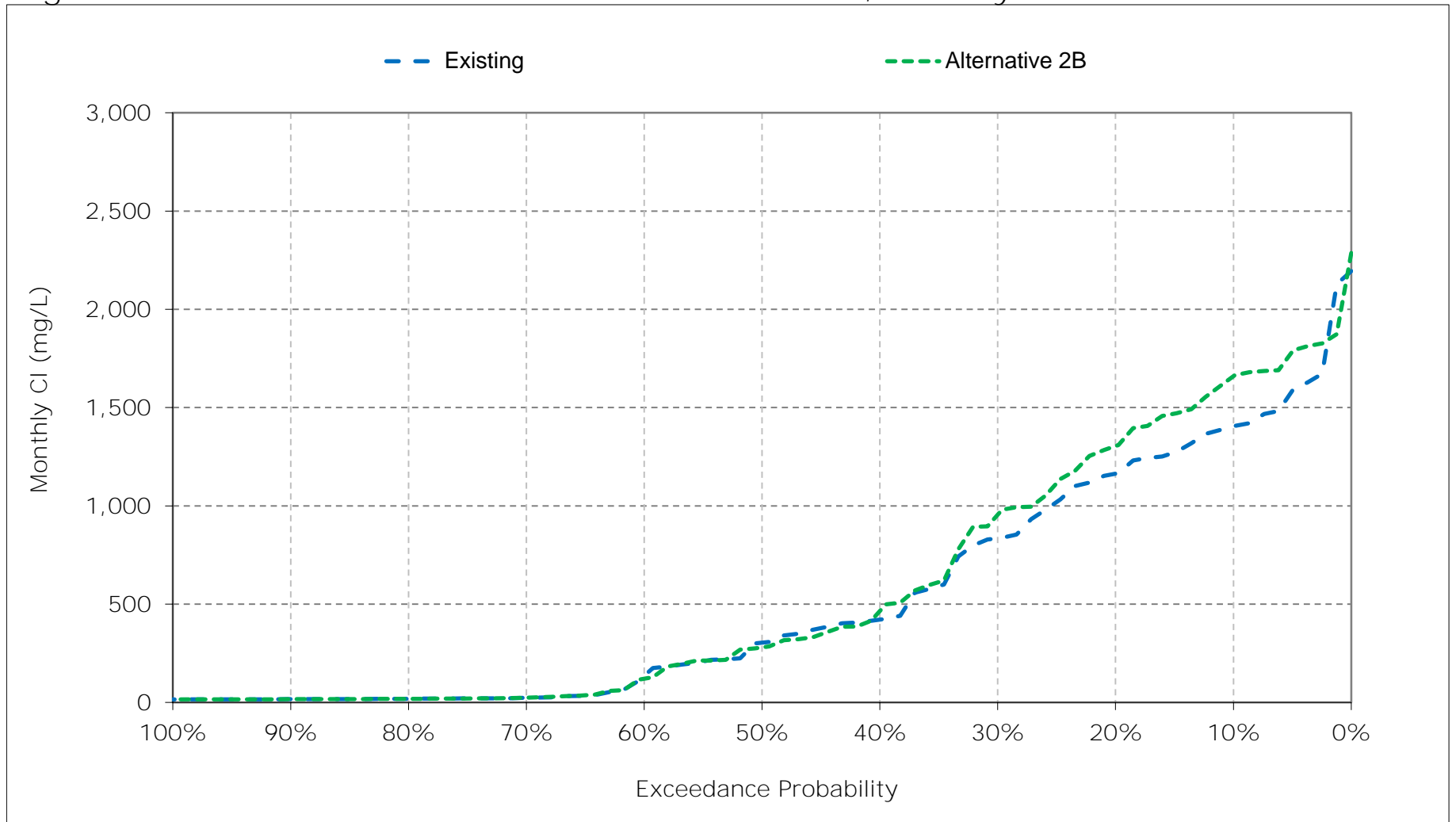


Figure 3-8. Sacramento River at Collinsville Chloride, February CI

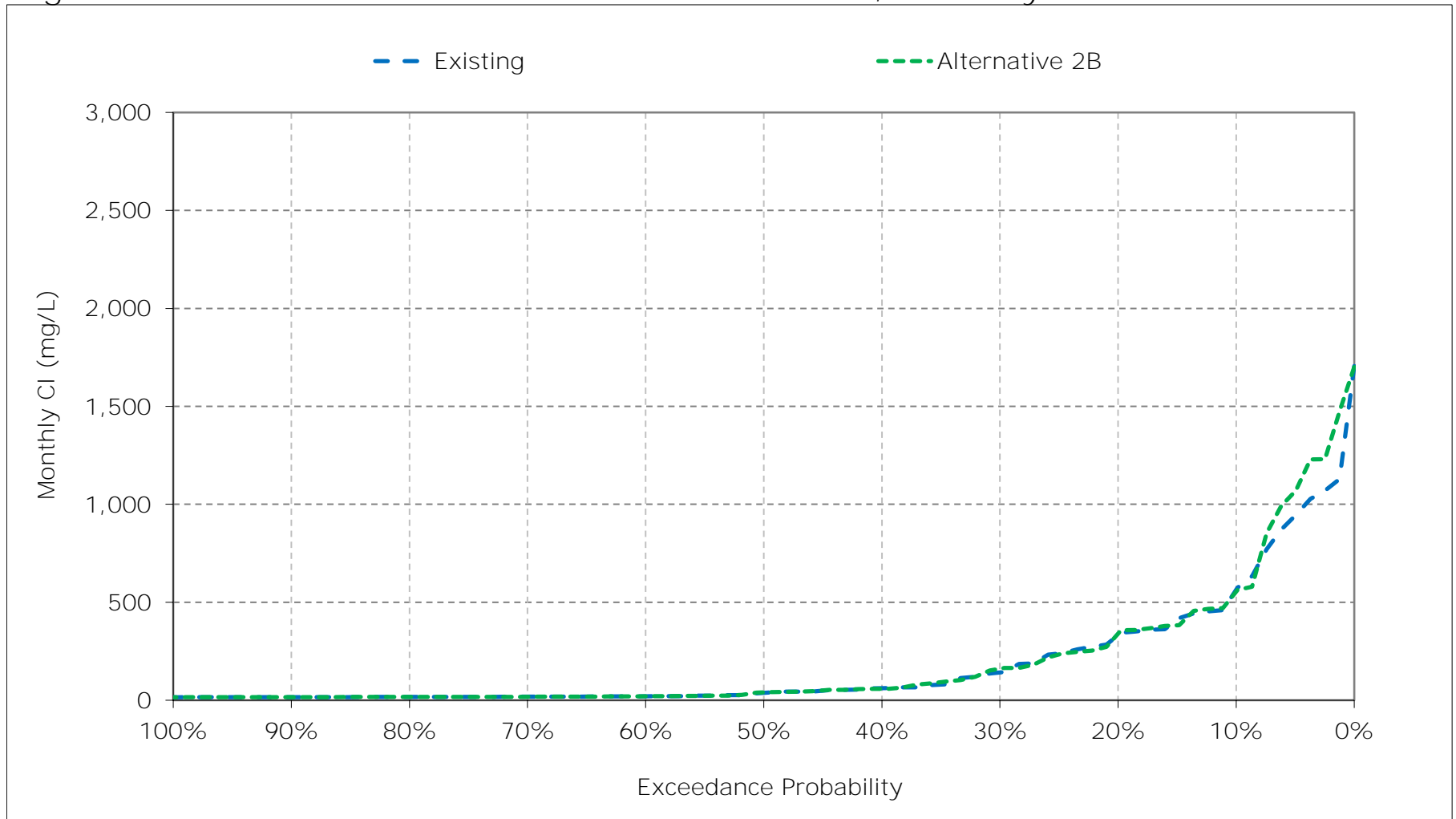


Figure 3-9. Sacramento River at Collinsville Chloride, March CI

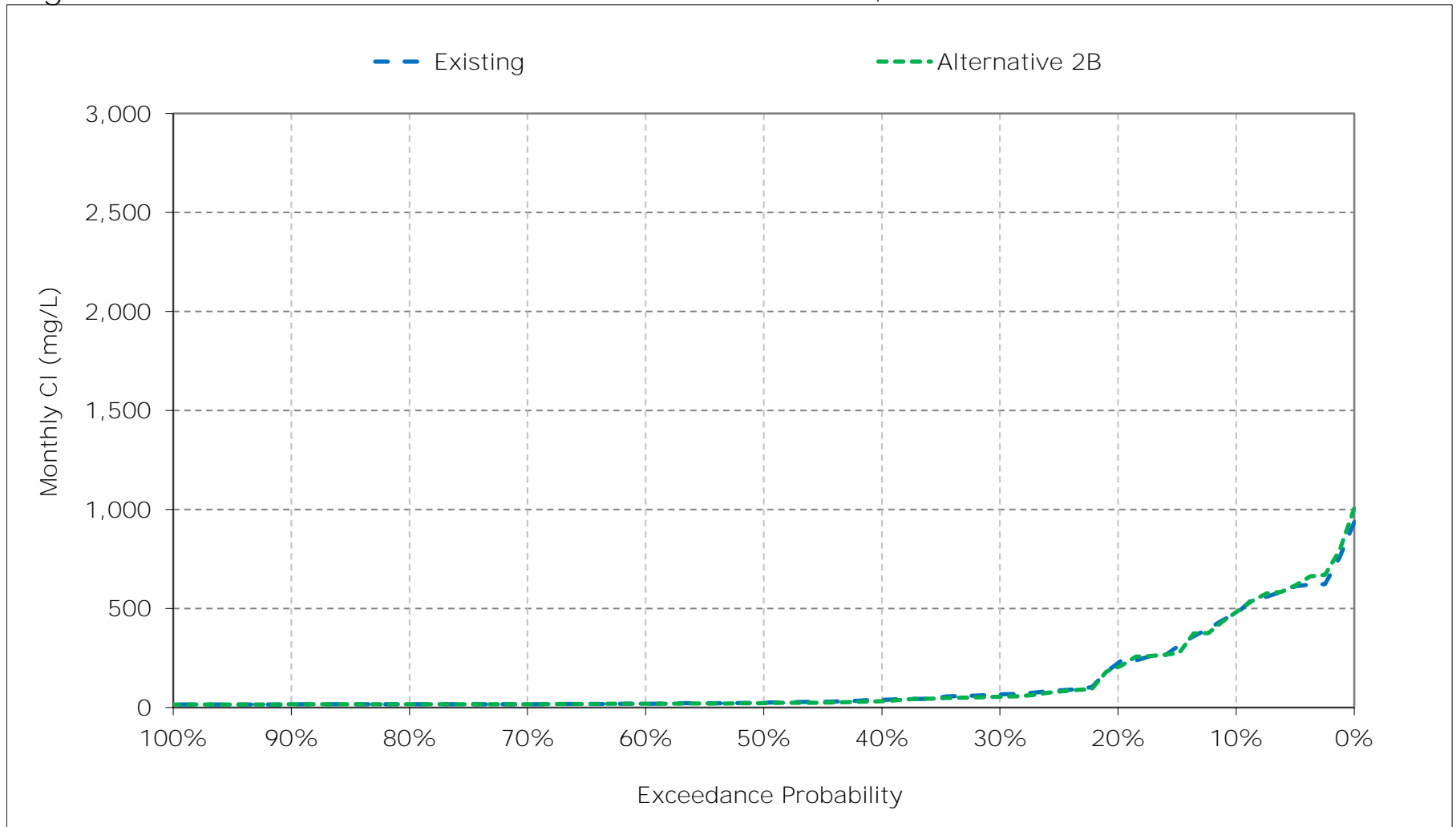


Figure 3-10. Sacramento River at Collinsville Chloride, April CI

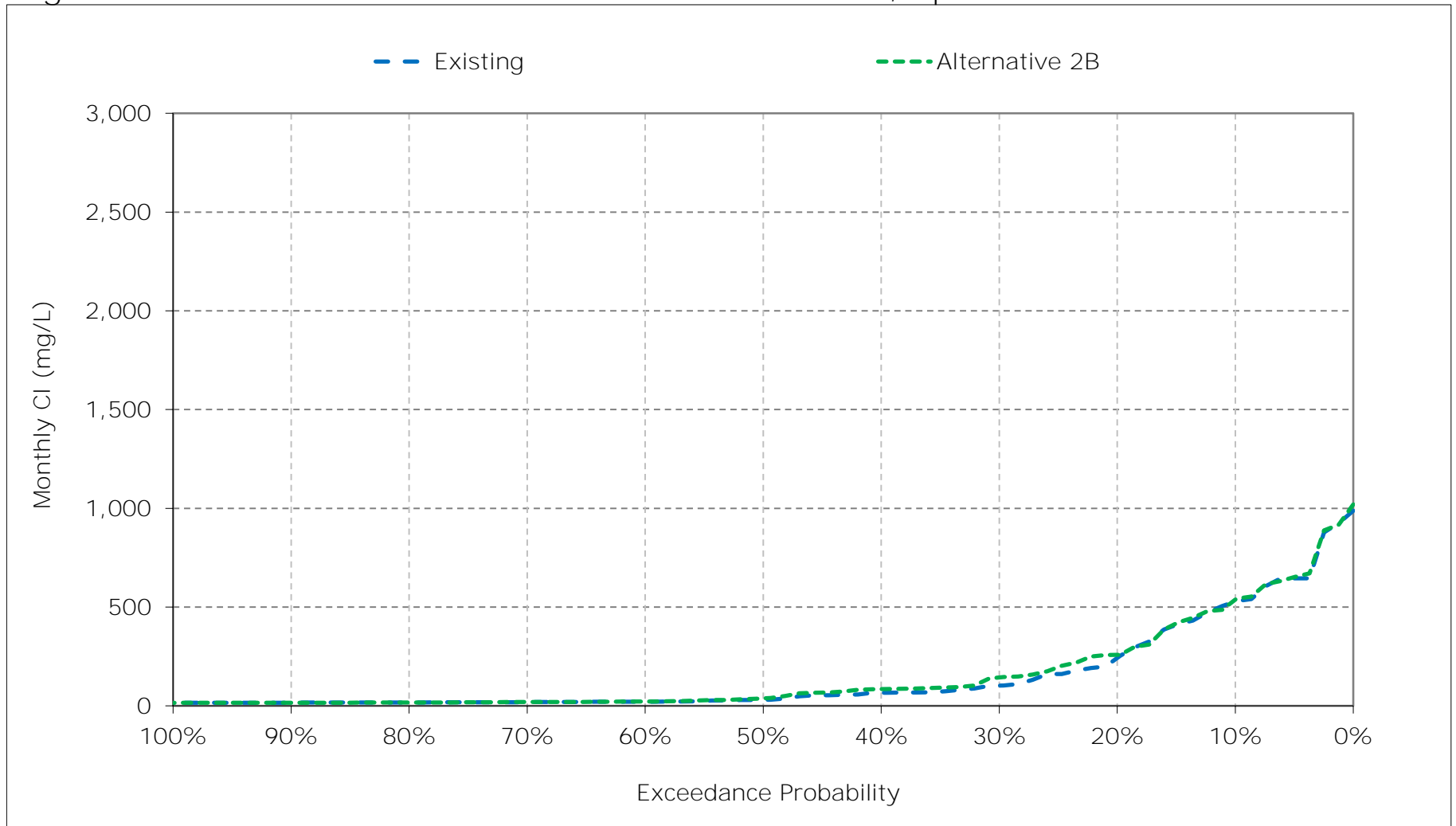


Figure 3-11. Sacramento River at Collinsville Chloride, May CI

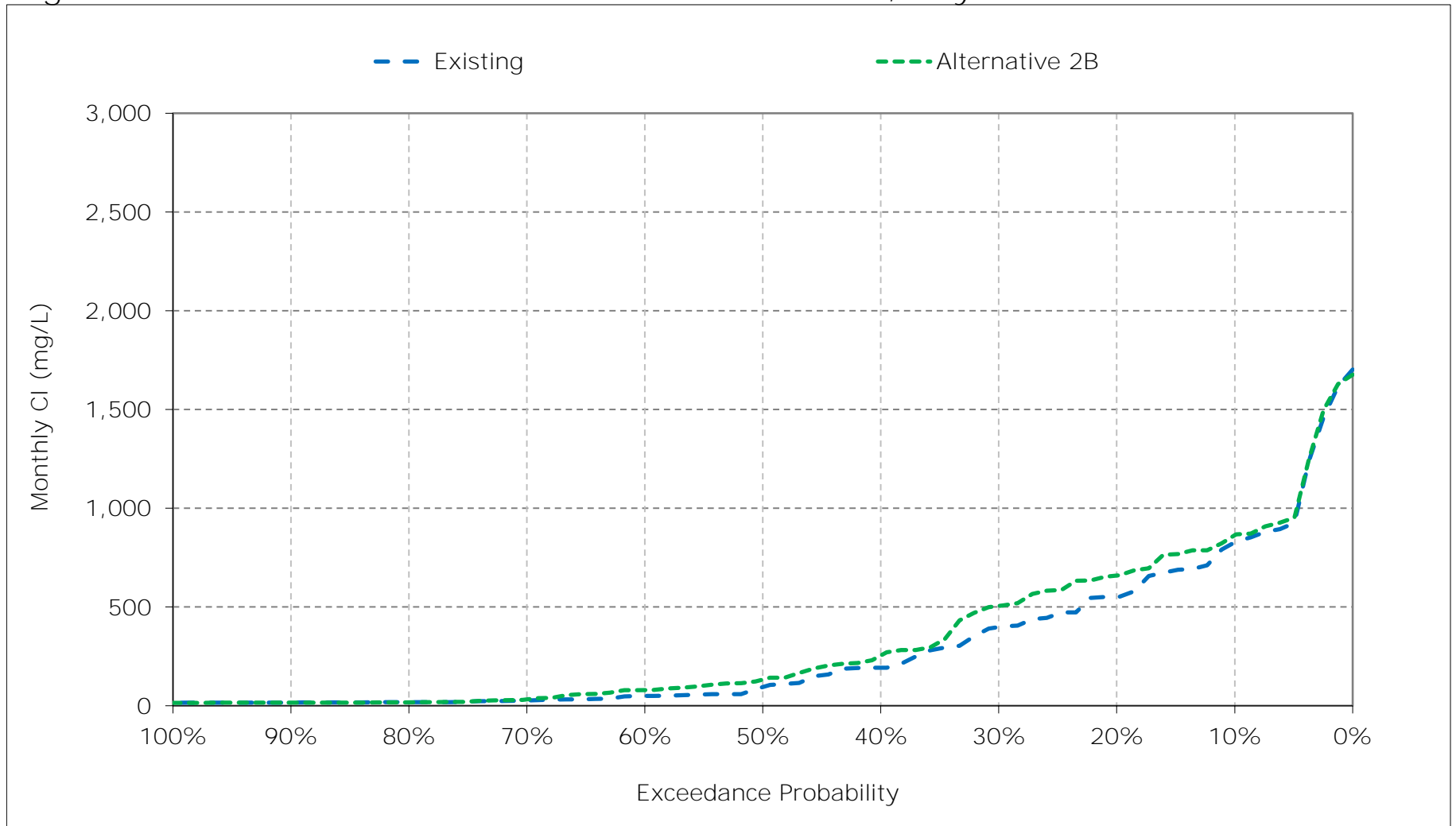




Figure 3-12. Sacramento River at Collinsville Chloride, June CI

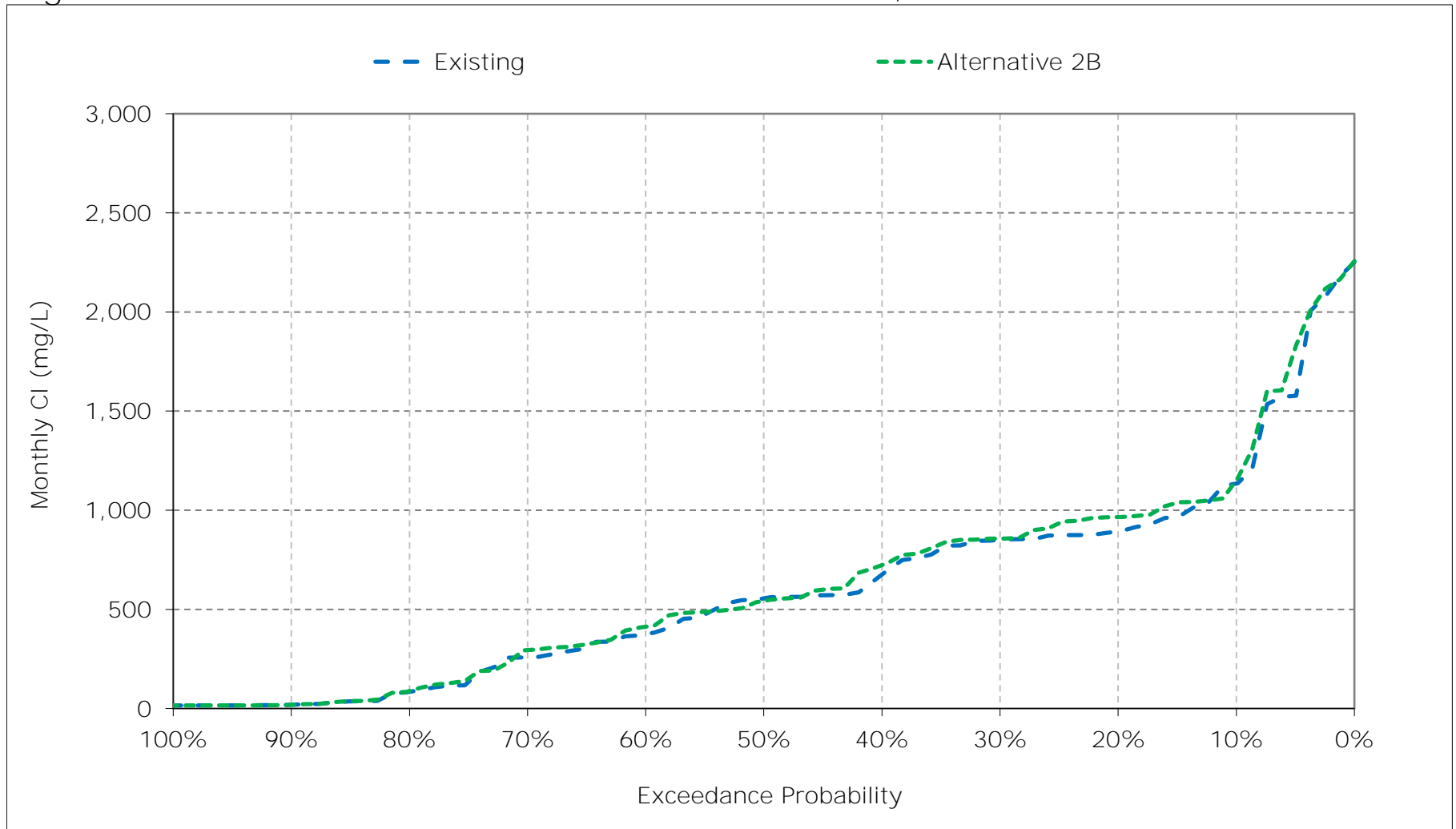


Figure 3-13. Sacramento River at Collinsville Chloride, July CI

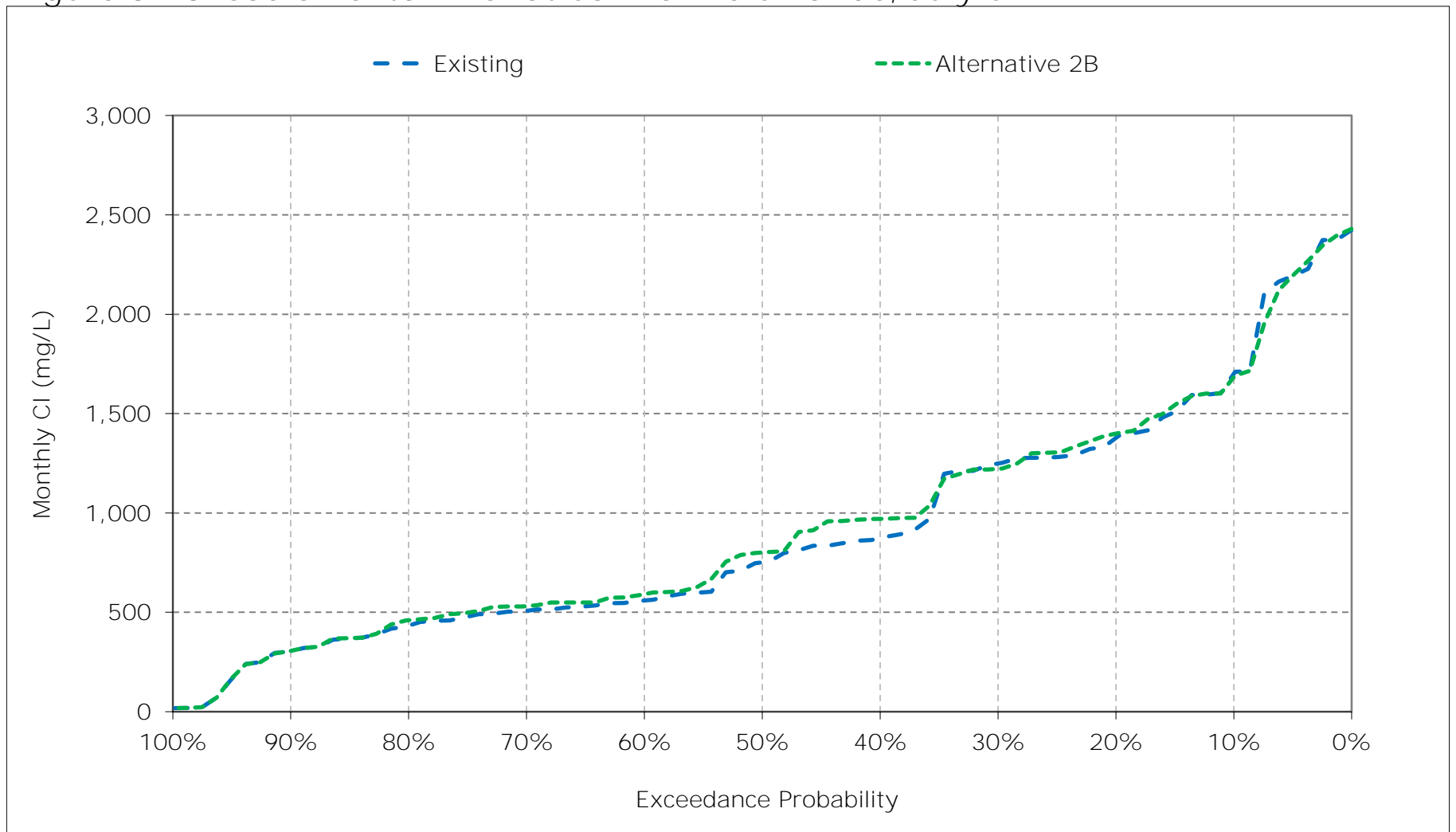


Figure 3-14. Sacramento River at Collinsville Chloride, August CI

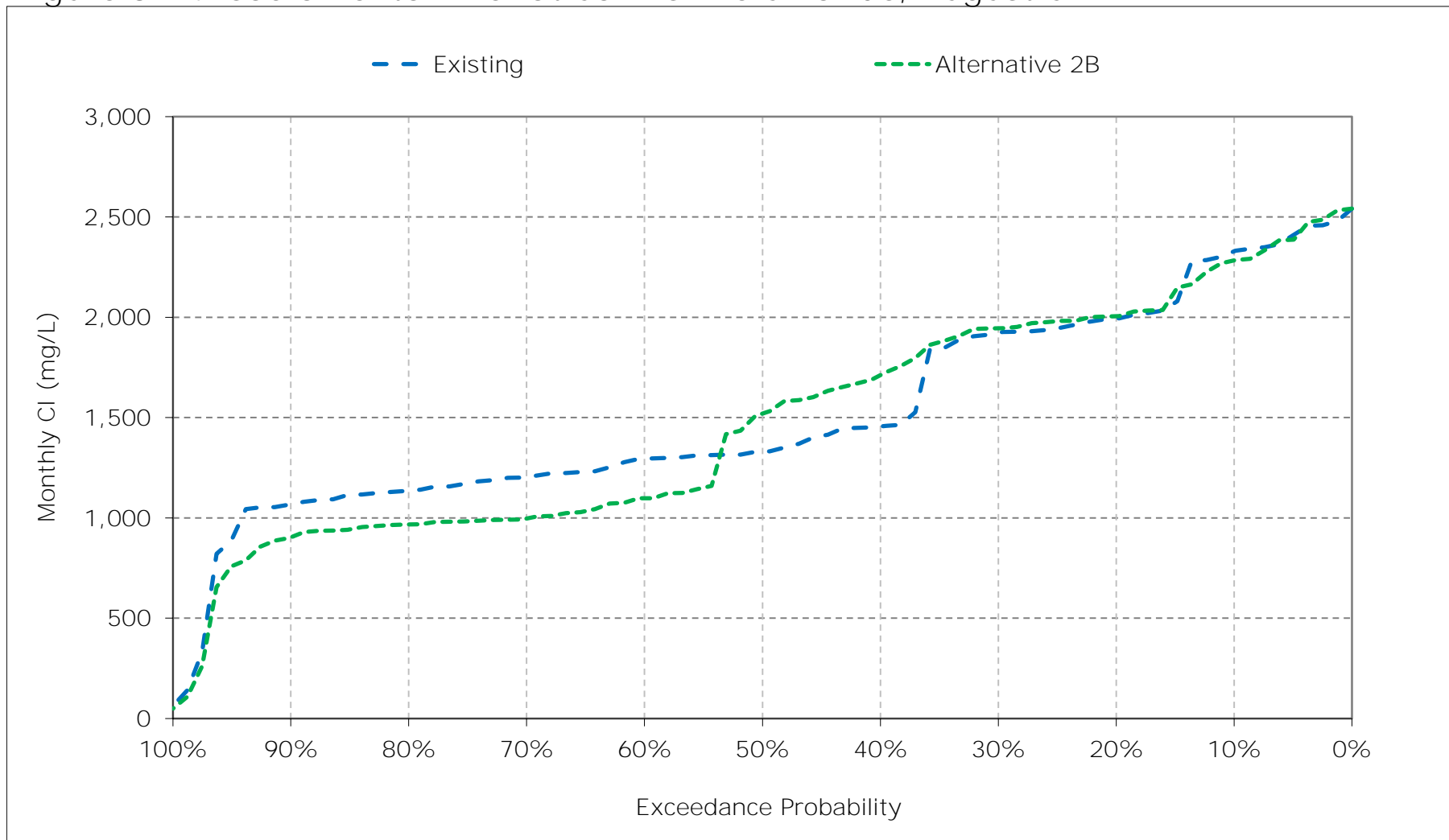


Figure 3-15. Sacramento River at Collinsville Chloride, September CI

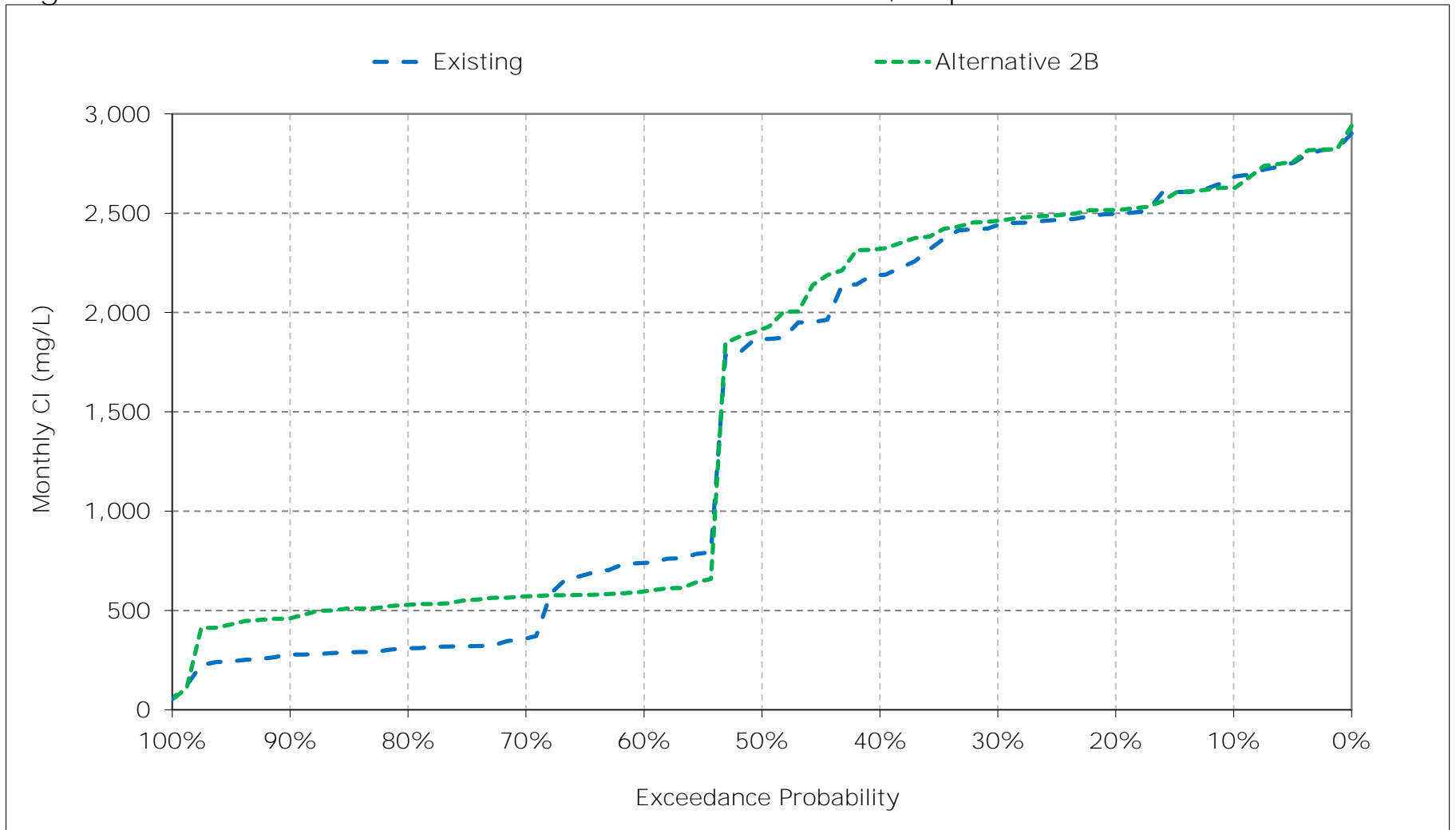


Figure 3-16. Sacramento River at Collinsville Chloride, October CI

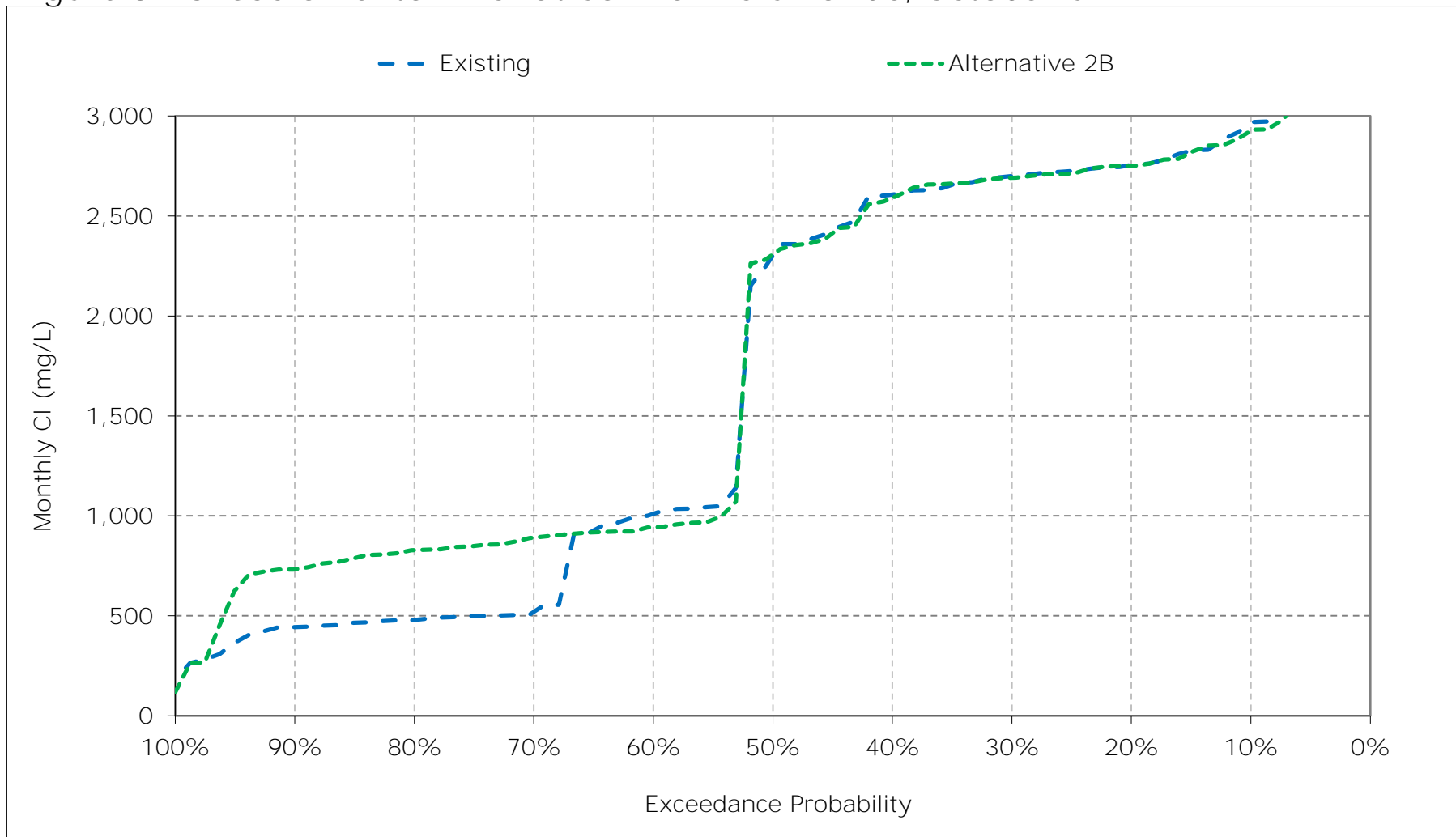


Figure 3-17. Sacramento River at Collinsville Chloride, November CI

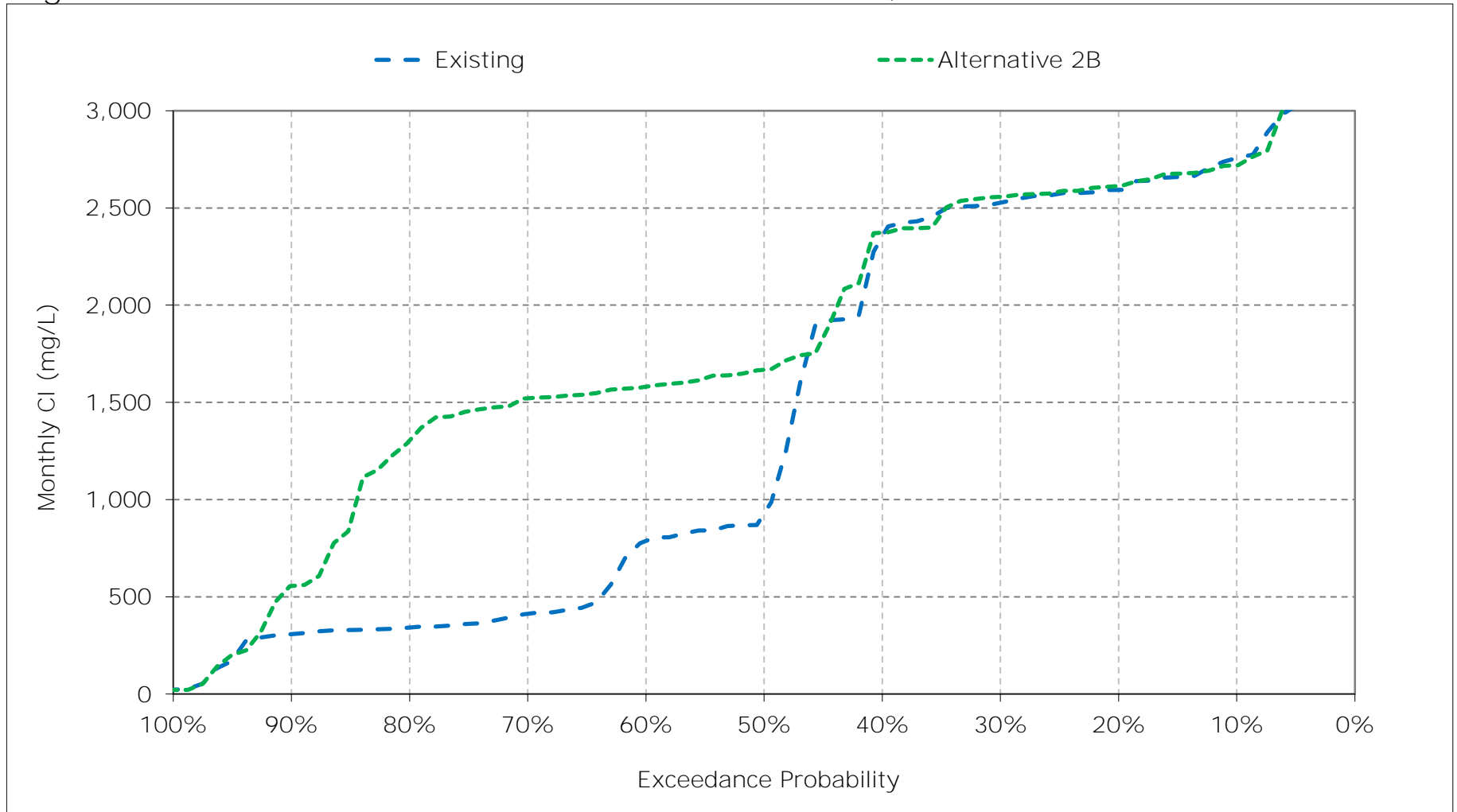


Figure 3-18. Sacramento River at Collinsville Chloride, December CI

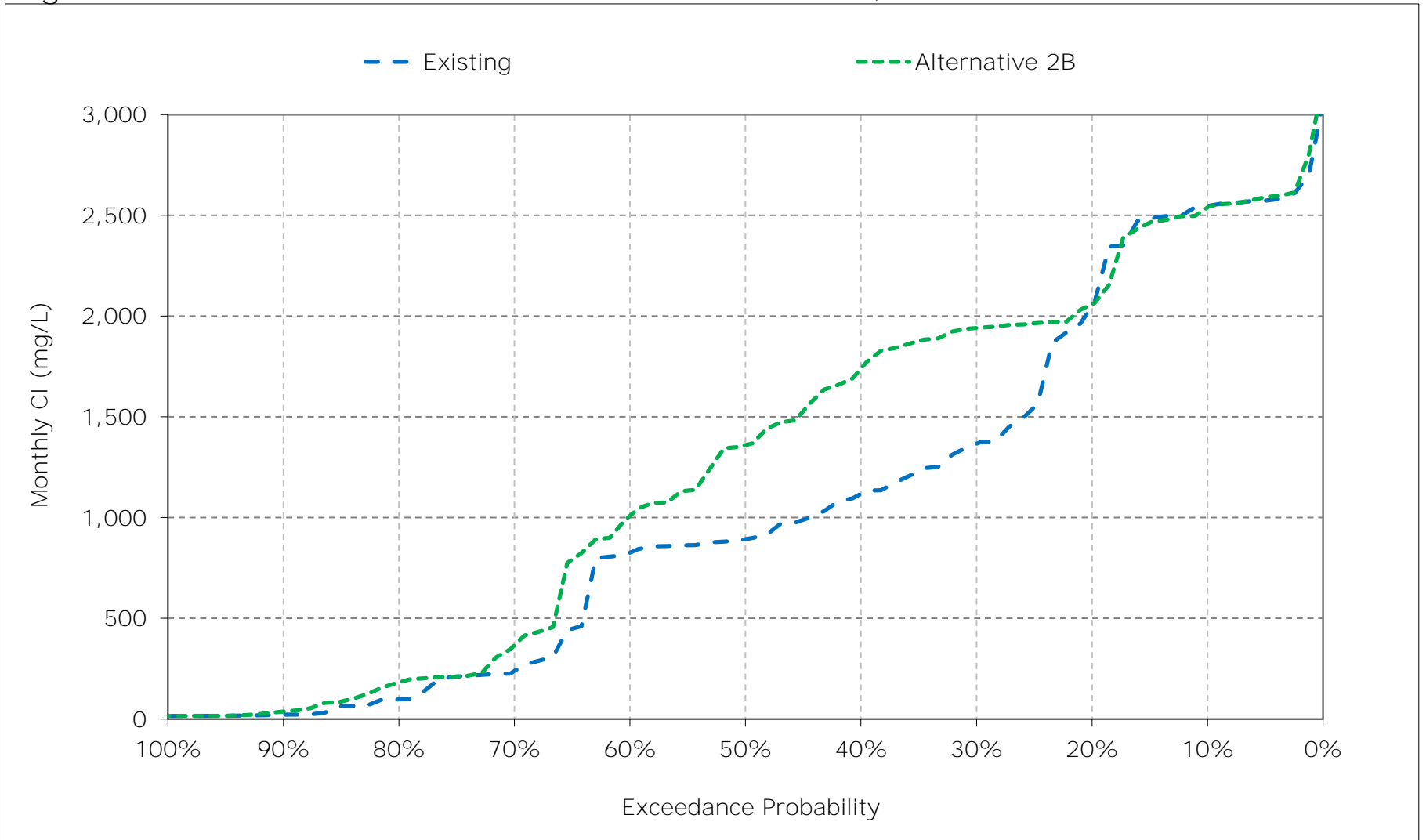


Table 4-1. San Joaquin River at Jersey Point Chloride, Monthly Cl

Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	645	636	613	338	112	47	37	63	110	358	447	640
20%	593	592	535	271	63	29	25	36	84	274	391	612
30%	565	557	387	203	38	25	23	28	77	203	370	591
40%	538	488	312	142	33	23	23	25	54	180	342	556
50%	456	316	187	97	29	22	22	24	39	120	320	494
60%	110	132	162	50	26	21	21	23	26	90	294	243
70%	55	64	95	28	24	20	21	22	23	76	277	226
80%	39	42	38	23	21	19	20	21	19	46	254	209
90%	32	28	20	21	20	18	19	19	18	25	235	200
Long Term												
Full Simulation Period <sup>a</sup>	336	324	274	143	51	29	26	36	68	166	322	410
Water Year Types <sup>b</sup>												
Wet (32%)	242	208	91	34	23	21	21	20	22	48	233	184
Above Normal (15%)	376	317	268	99	30	21	22	22	32	73	270	219
Below Normal (17%)	354	368	360	163	35	23	23	25	46	163	349	602
Dry (22%)	357	386	336	197	63	28	24	31	78	275	370	594
Critical (15%)	448	439	485	315	132	61	46	102	213	353	461	591

Alternative 2B

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	629	631	655	406	128	50	37	70	120	361	458	689
20%	604	592	609	328	68	29	25	46	95	262	424	655
30%	564	551	574	259	44	25	22	29	78	208	388	619
40%	528	489	498	187	35	24	22	23	53	169	364	565
50%	454	448	409	96	29	23	21	21	33	111	320	511
60%	123	378	351	58	26	22	20	20	26	90	214	141
70%	104	363	162	28	23	20	20	19	22	79	176	124
80%	84	317	96	24	21	19	19	18	18	47	159	115
90%	65	155	29	22	20	18	19	17	18	25	125	86
Long Term												
Full Simulation Period <sup>a</sup>	348	430	374	166	58	30	25	37	70	165	290	384
Water Year Types <sup>b</sup>												
Wet (32%)	262	343	160	39	24	21	20	19	22	49	139	95
Above Normal (15%)	394	416	390	126	32	22	20	20	28	73	181	128
Below Normal (17%)	375	469	475	187	37	23	22	26	44	154	397	662
Dry (22%)	360	480	471	250	78	30	24	37	85	270	383	610
Critical (15%)	440	513	555	329	153	68	49	110	225	362	465	600

Alternative 2B minus Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-15	-5	42	68	16	3	0	7	10	3	11	49
20%	10	0	74	57	5	0	-1	9	11	-11	33	42
30%	-1	-6	187	56	5	0	-1	1	1	5	18	28
40%	-10	1	185	45	2	0	-1	-2	-1	-11	22	9
50%	-2	132	222	-1	1	1	-1	-3	-5	-8	0	17
60%	13	246	189	8	0	1	-1	-3	-1	0	-81	-102
70%	49	299	68	1	0	0	-1	-3	-1	3	-102	-102
80%	45	275	58	1	0	0	-1	-3	-1	1	-94	-95
90%	33	127	9	1	0	0	-1	-2	-1	0	-110	-113
Long Term												
Full Simulation Period <sup>a</sup>	12	106	99	23	7	1	0	2	2	-1	-32	-26
Water Year Types <sup>b</sup>												
Wet (32%)	20	135	69	5	0	0	-1	-2	0	1	-94	-89
Above Normal (15%)	18	99	122	27	2	1	-1	-3	-4	1	-90	-90
Below Normal (17%)	21	101	116	25	1	0	-1	1	-1	-8	47	60
Dry (22%)	2	93	135	53	15	1	0	5	7	-5	12	16
Critical (15%)	-7	74	71	13	21	7	3	8	11	9	4	10

a Based on the 82-year simulation period.

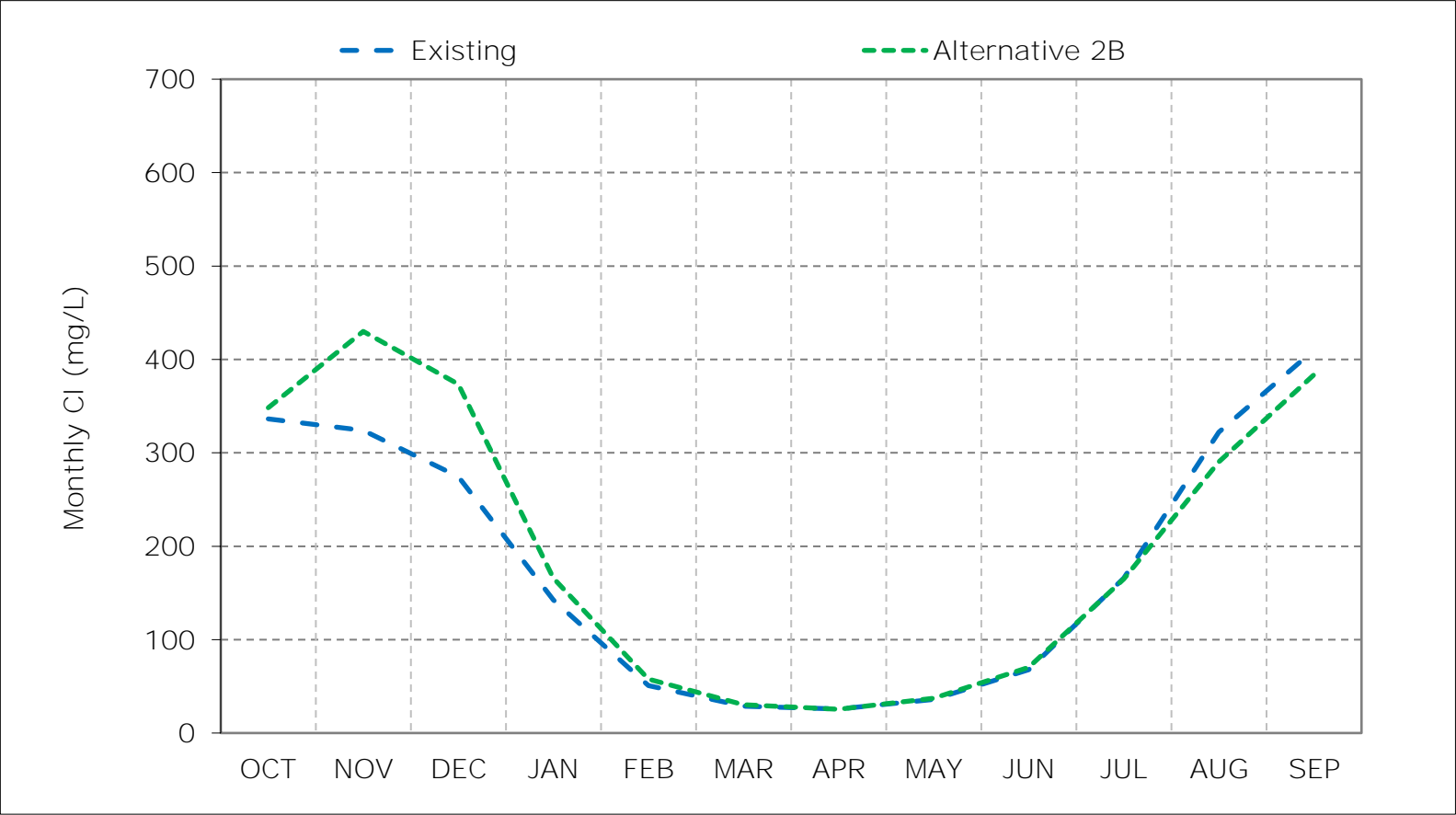
b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

d Positive differences are highted in red color which indicate increase in Chloride (Cl).

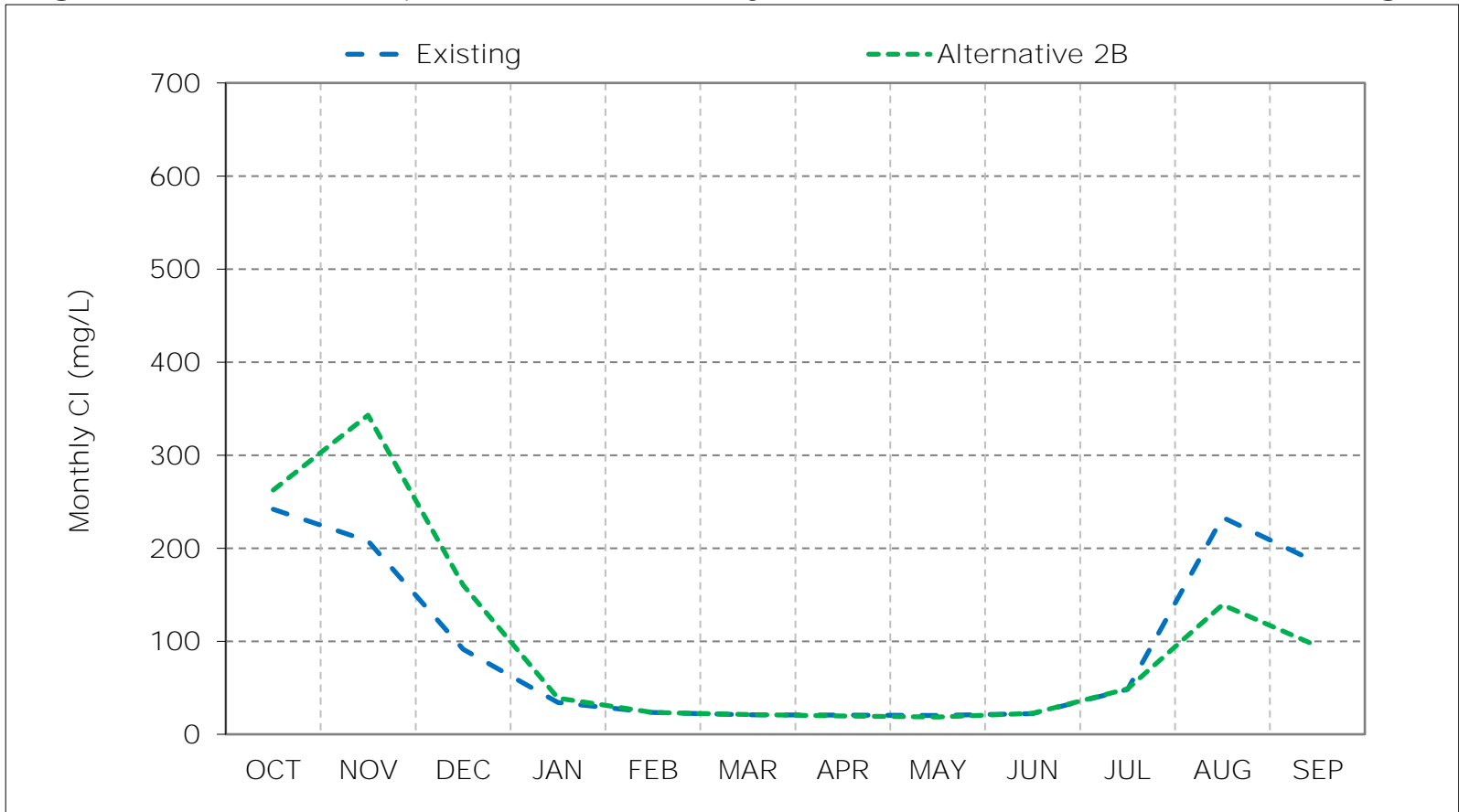


Figure 4-1. San Joaquin River at Jersey Point Chloride, Long-Term Average Cl



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

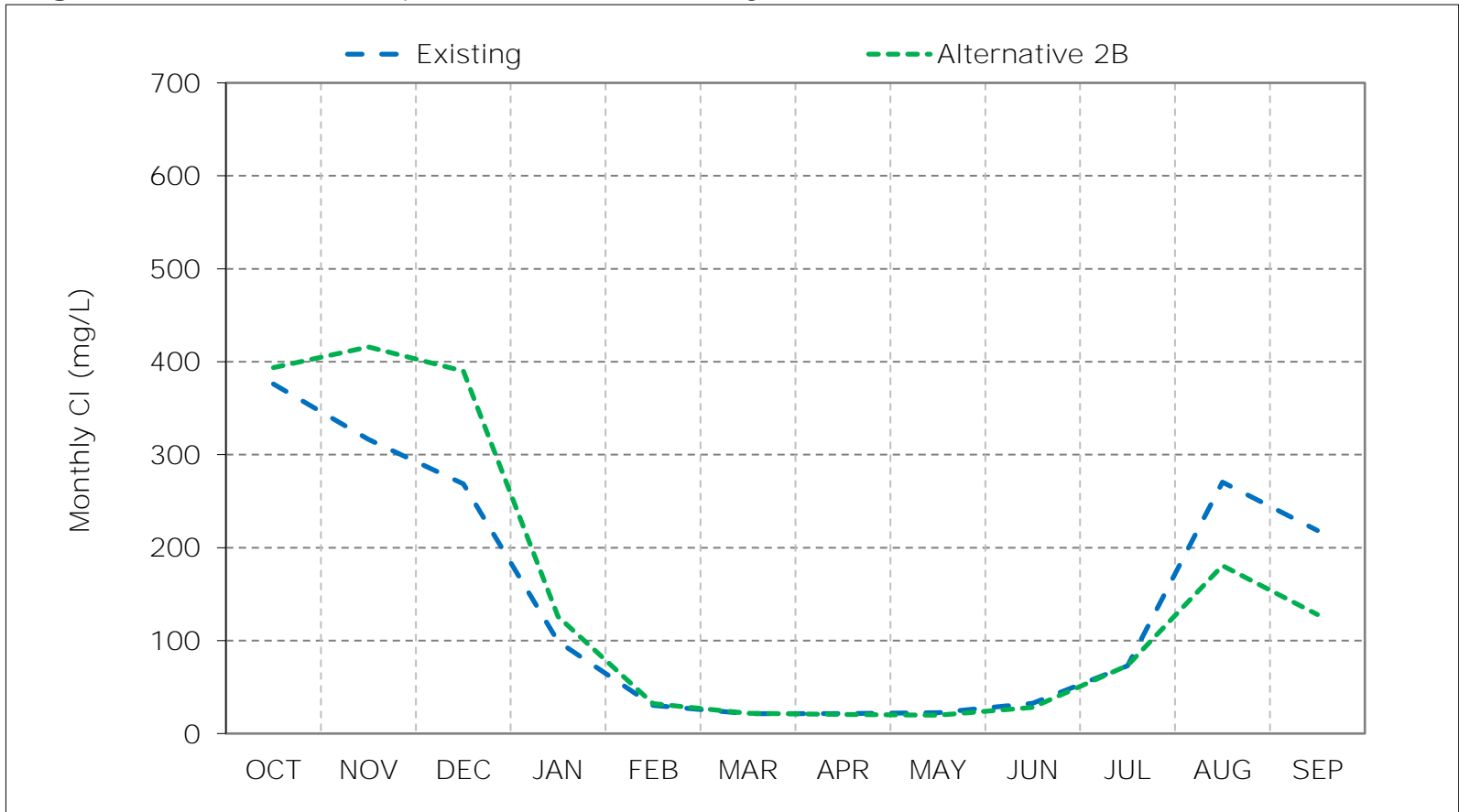
Figure 4-2. San Joaquin River at Jersey Point Chloride, Wet Year Average Cl



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

\*These results are displayed with water year - year type sorting.

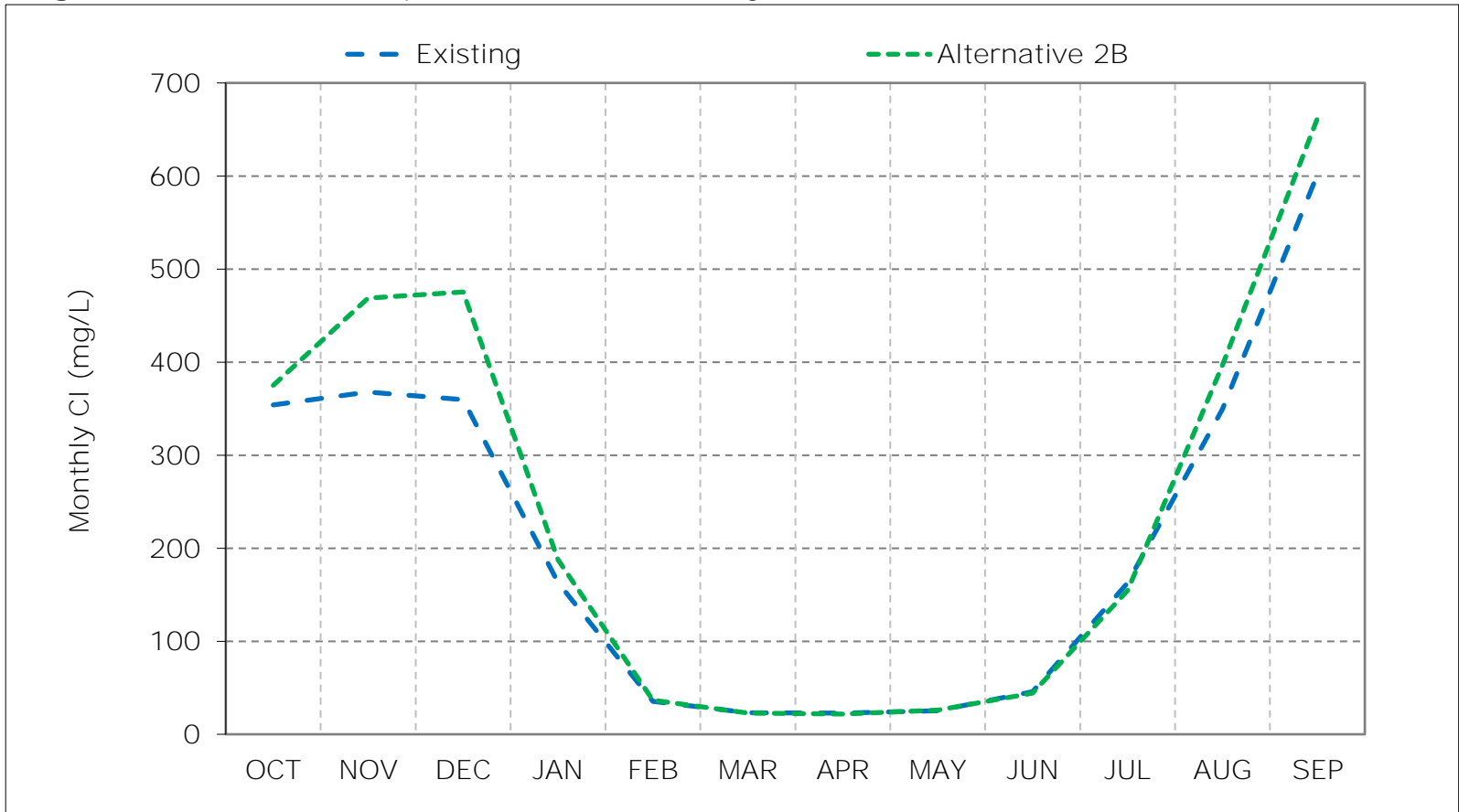
Figure 4-3. San Joaquin River at Jersey Point Chloride, Above Normal Year Average C



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

\*These results are displayed with water year - year type sorting.

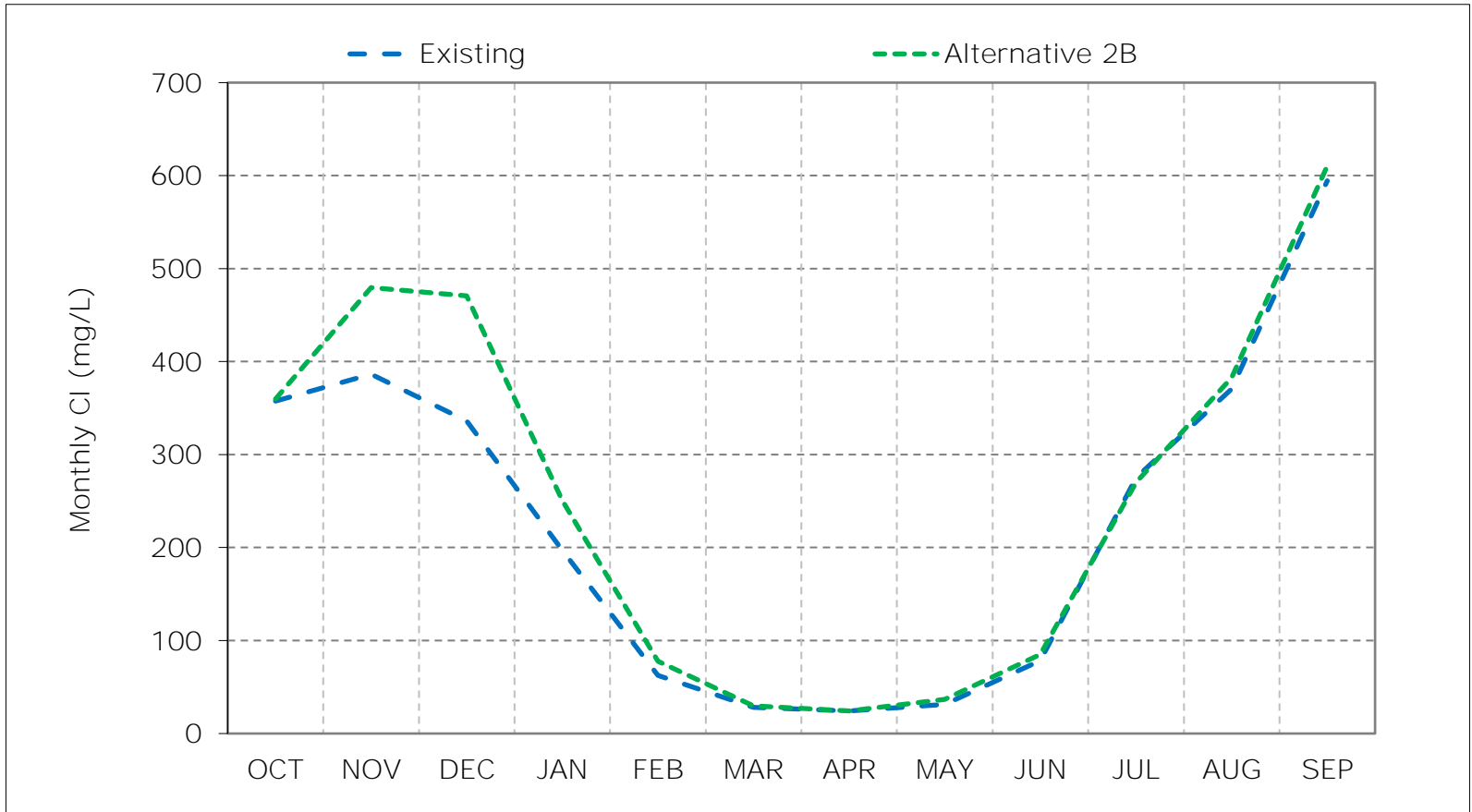
Figure 4-4. San Joaquin River at Jersey Point Chloride, Below Normal Year Average C



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

\*These results are displayed with water year - year type sorting.

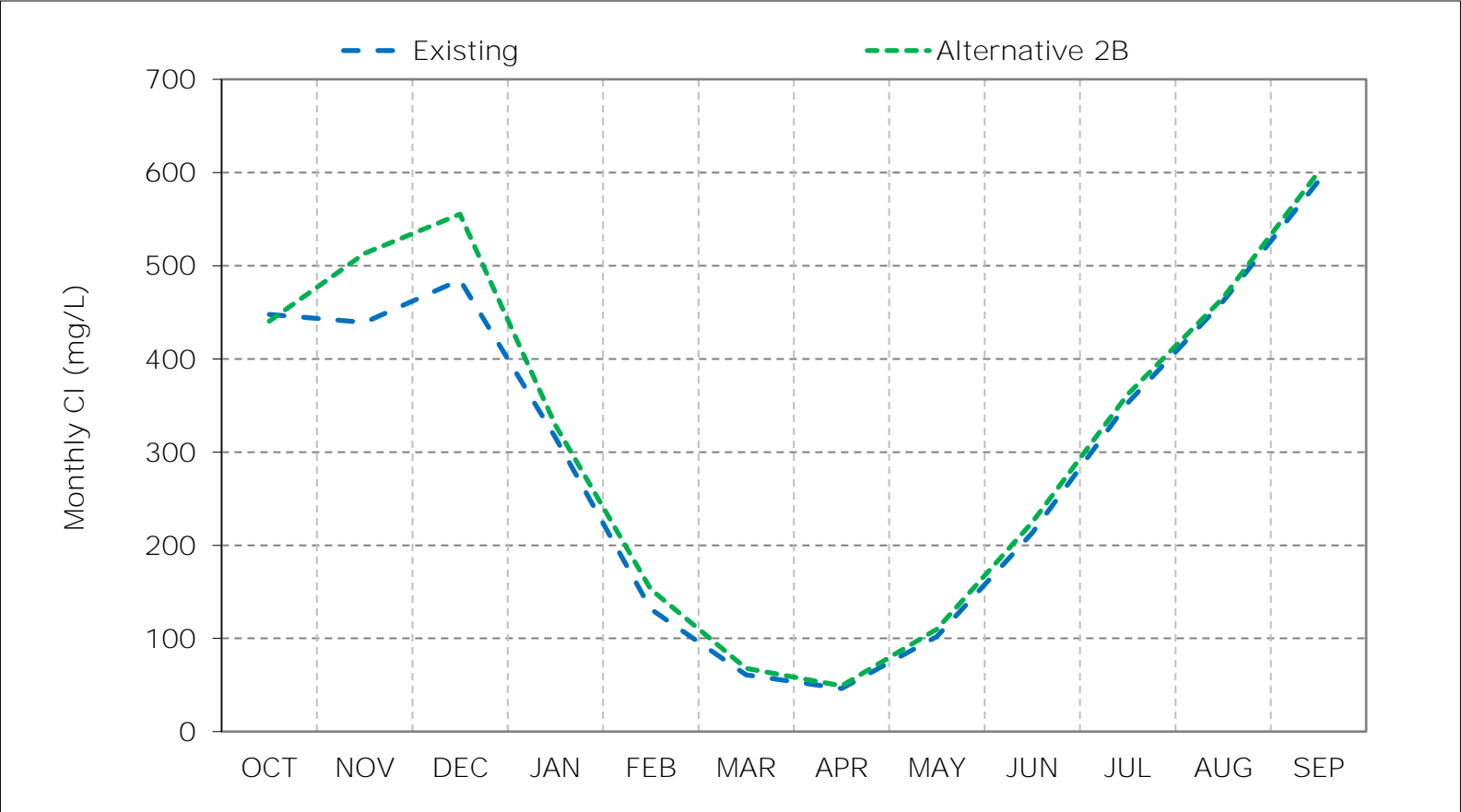
Figure 4-5. San Joaquin River at Jersey Point Chloride, Dry Year Average Cl



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

\*These results are displayed with water year - year type sorting.

Figure 4-6. San Joaquin River at Jersey Point Chloride, 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 water year - year type sorting.

Figure 4-7. San Joaquin River at Jersey Point Chloride, January CI



Figure 4-8. San Joaquin River at Jersey Point Chloride, February CI

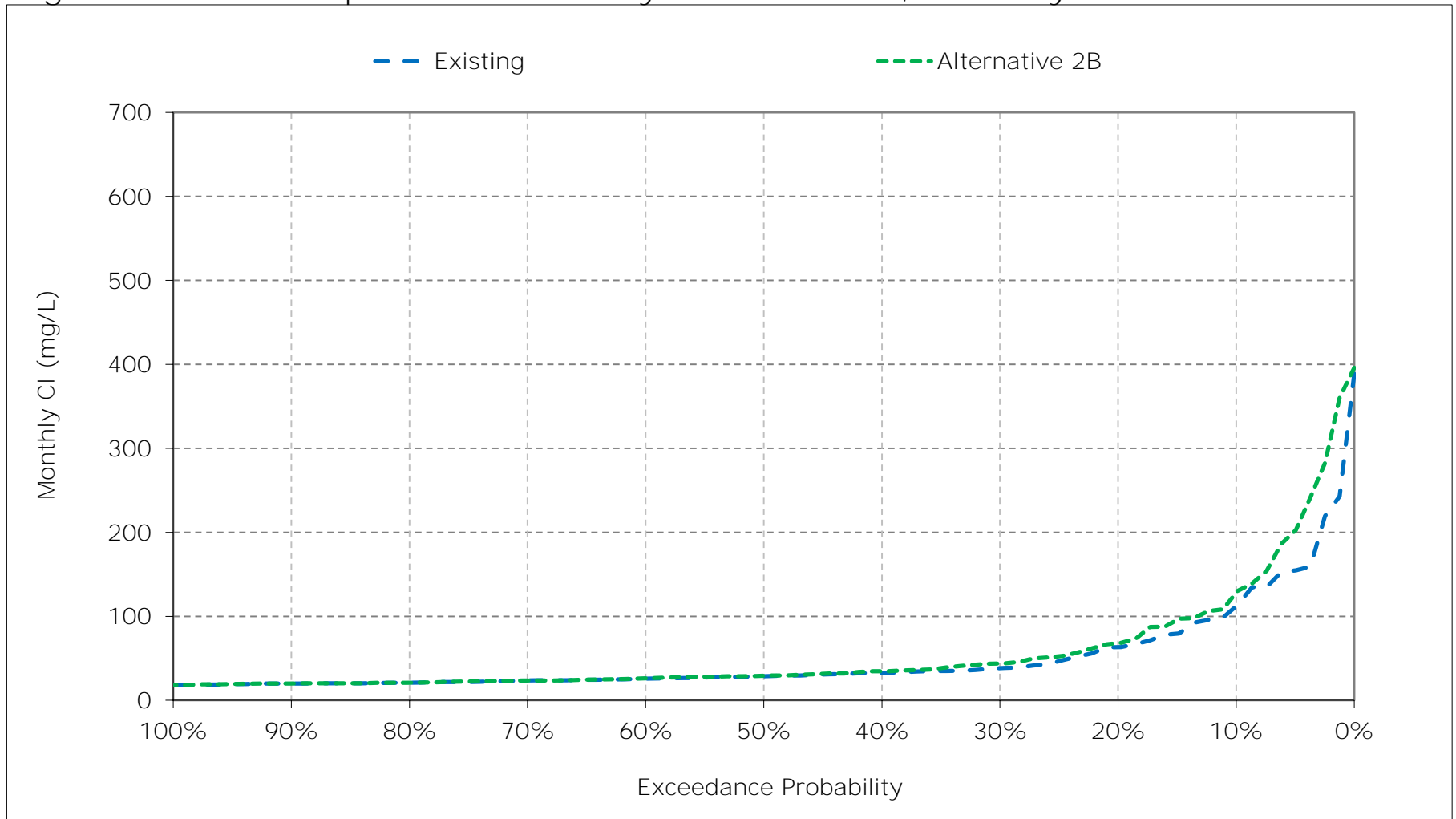




Figure 4-9. San Joaquin River at Jersey Point Chloride, March CI

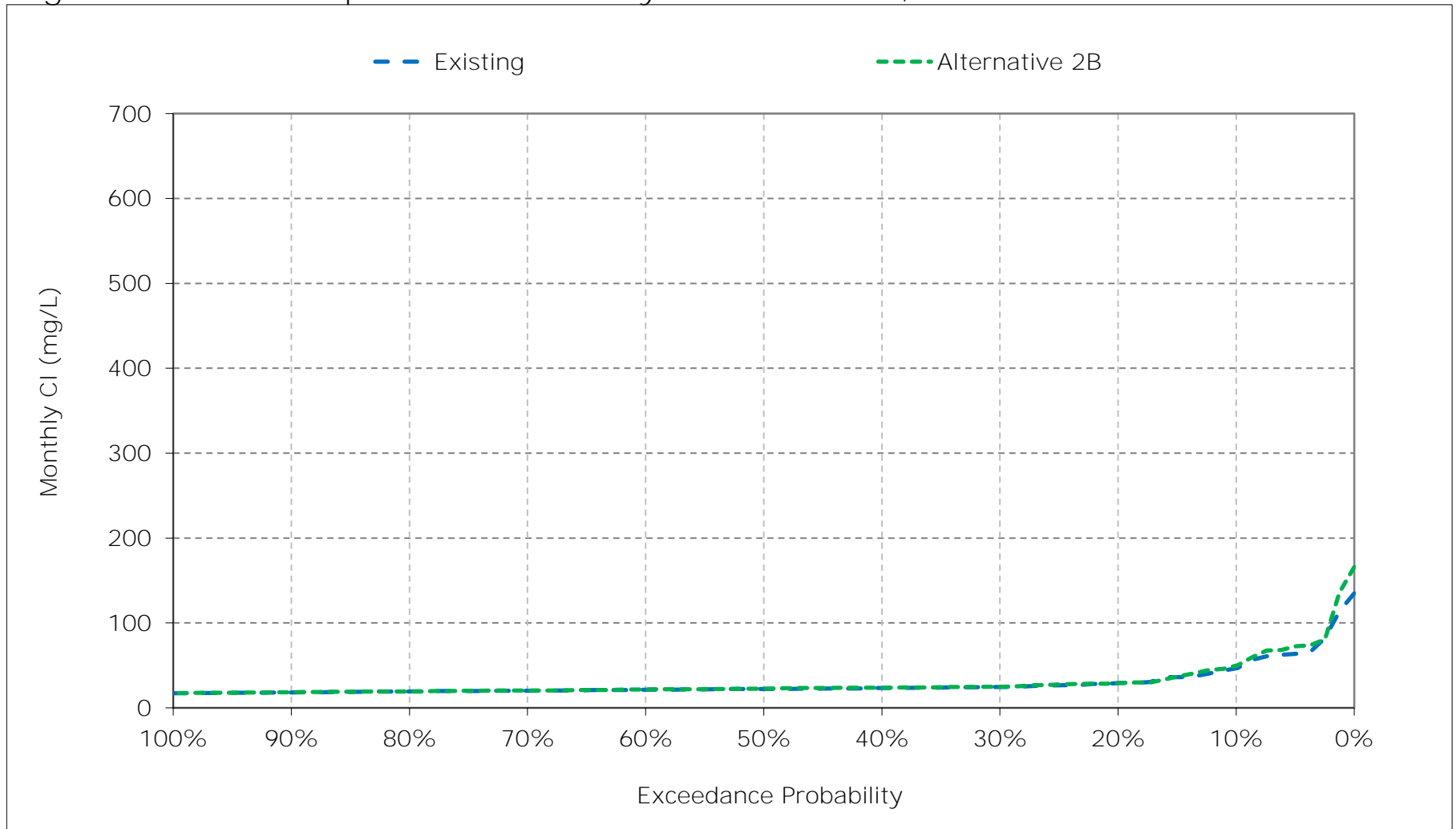


Figure 4-10. San Joaquin River at Jersey Point Chloride, April CI

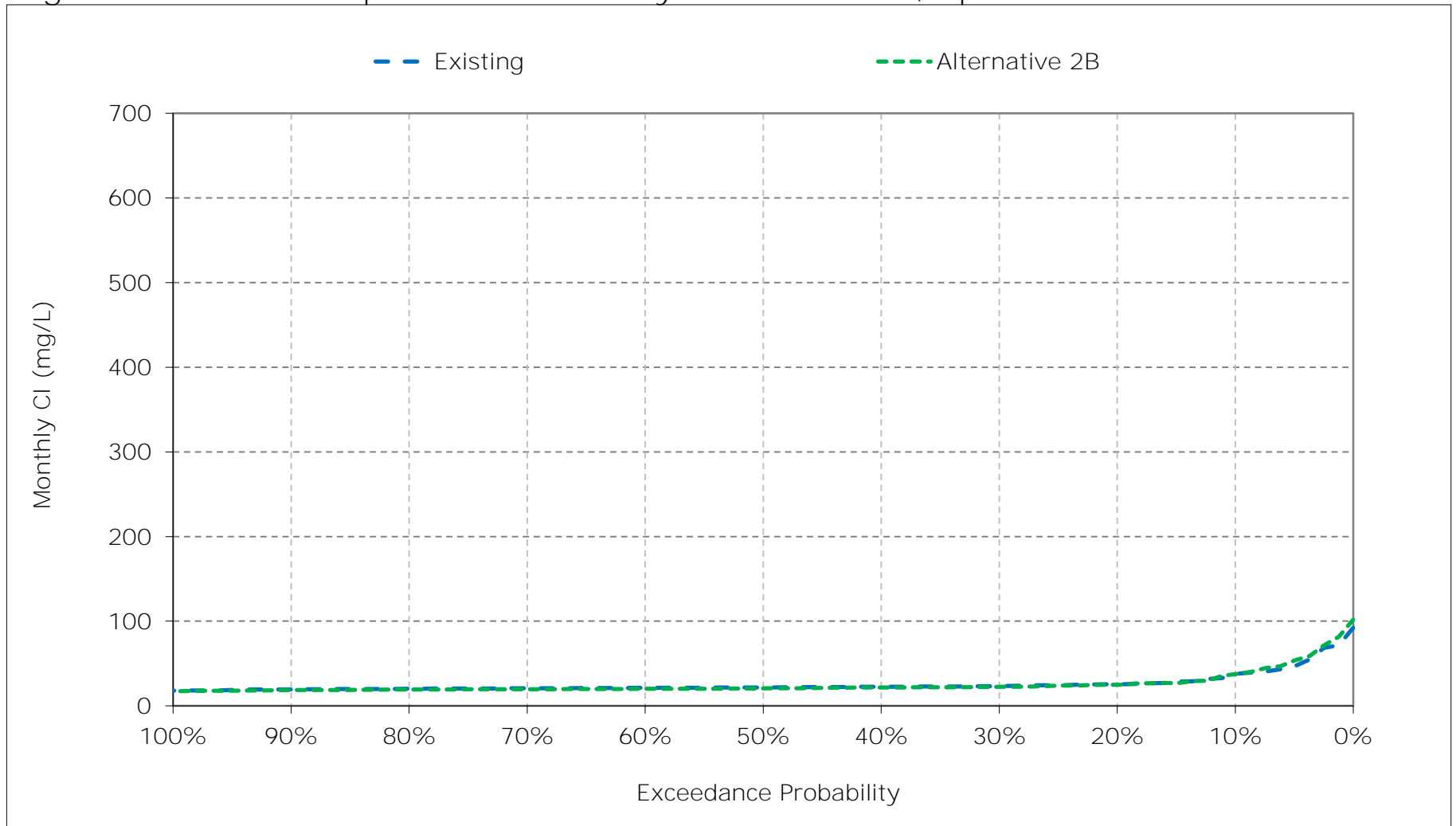


Figure 4-11. San Joaquin River at Jersey Point Chloride, May CI

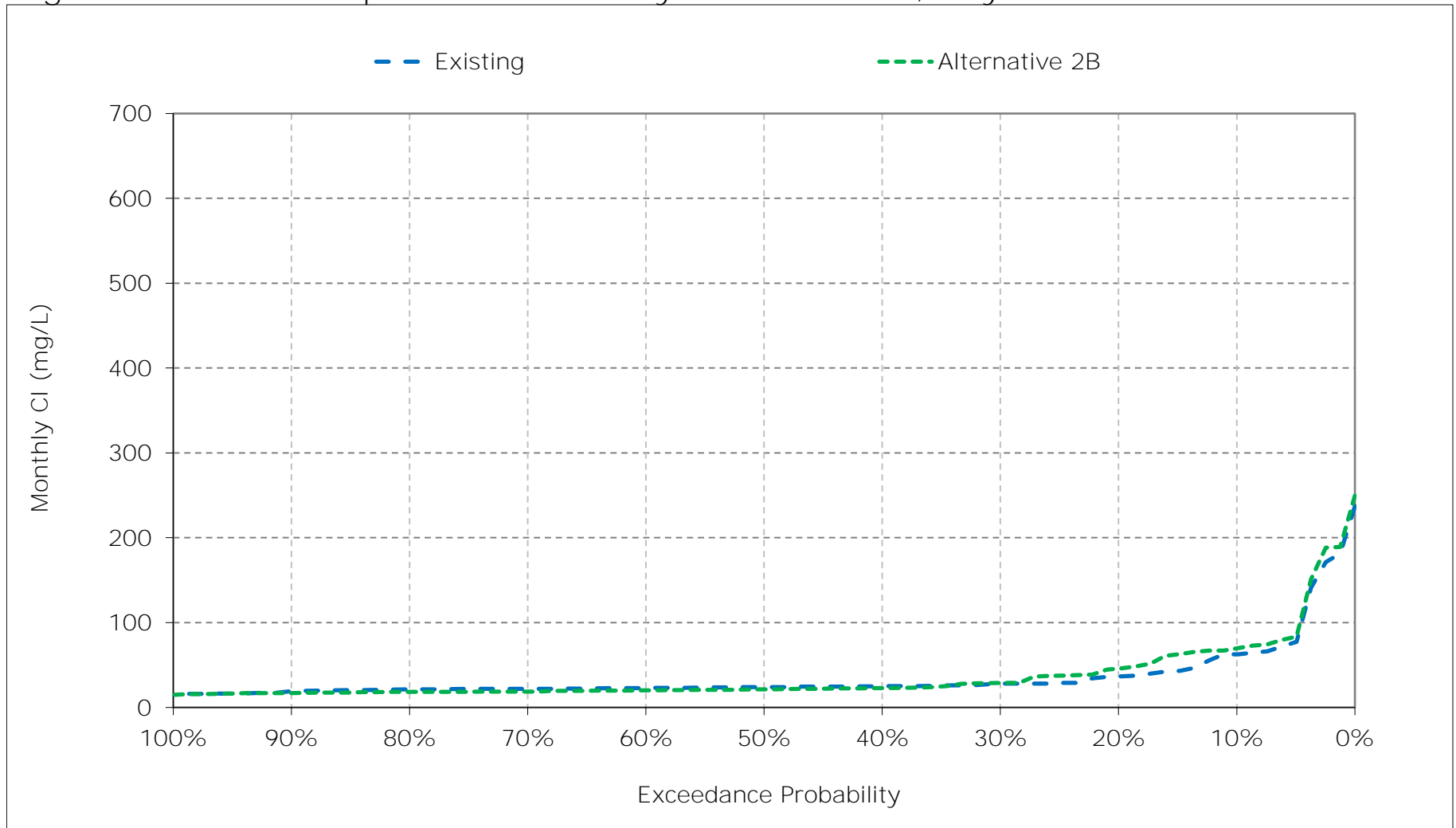


Figure 4-12. San Joaquin River at Jersey Point Chloride, June CI

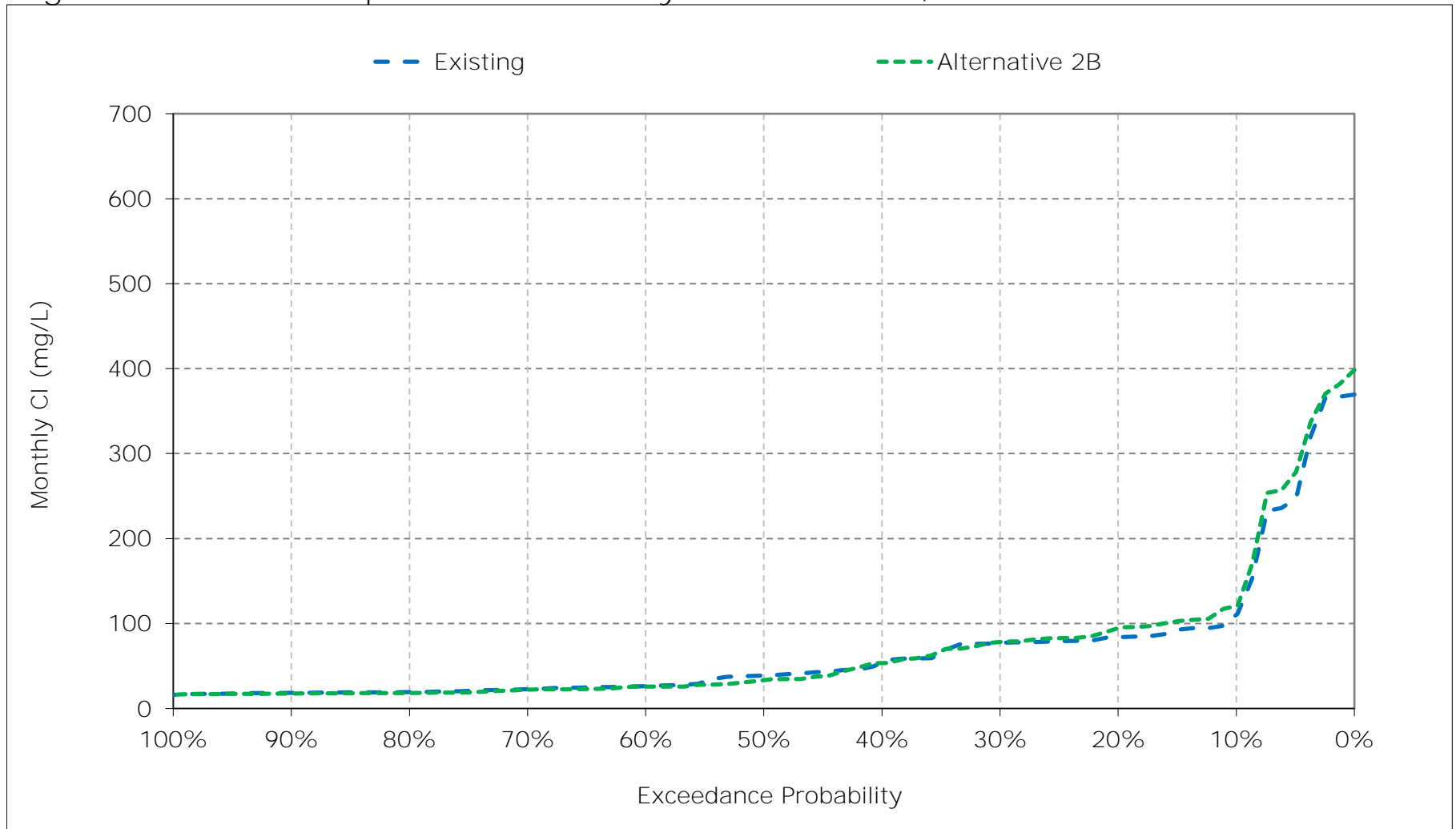


Figure 4-13. San Joaquin River at Jersey Point Chloride, July CI

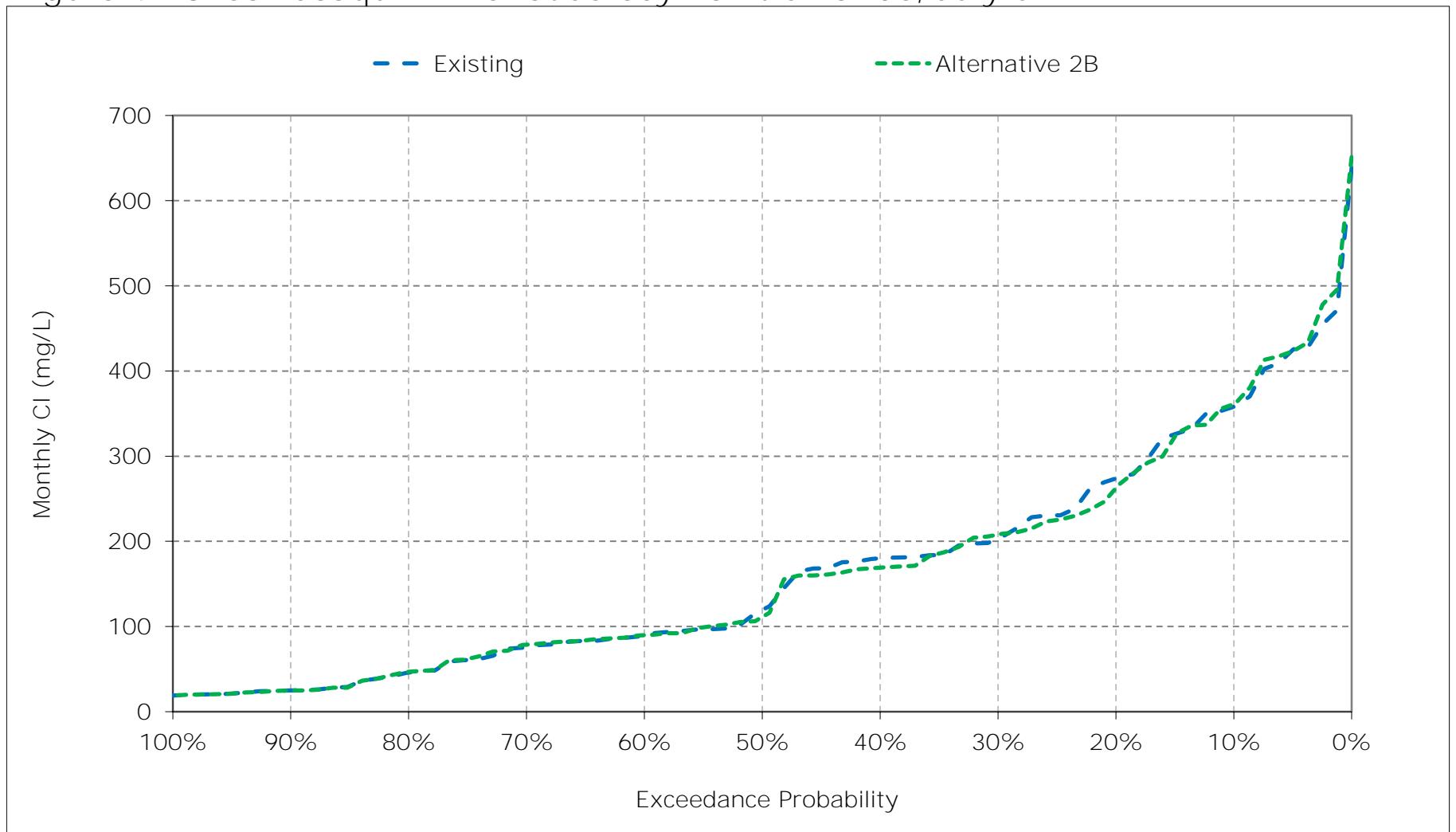


Figure 4-14. San Joaquin River at Jersey Point Chloride, August CI

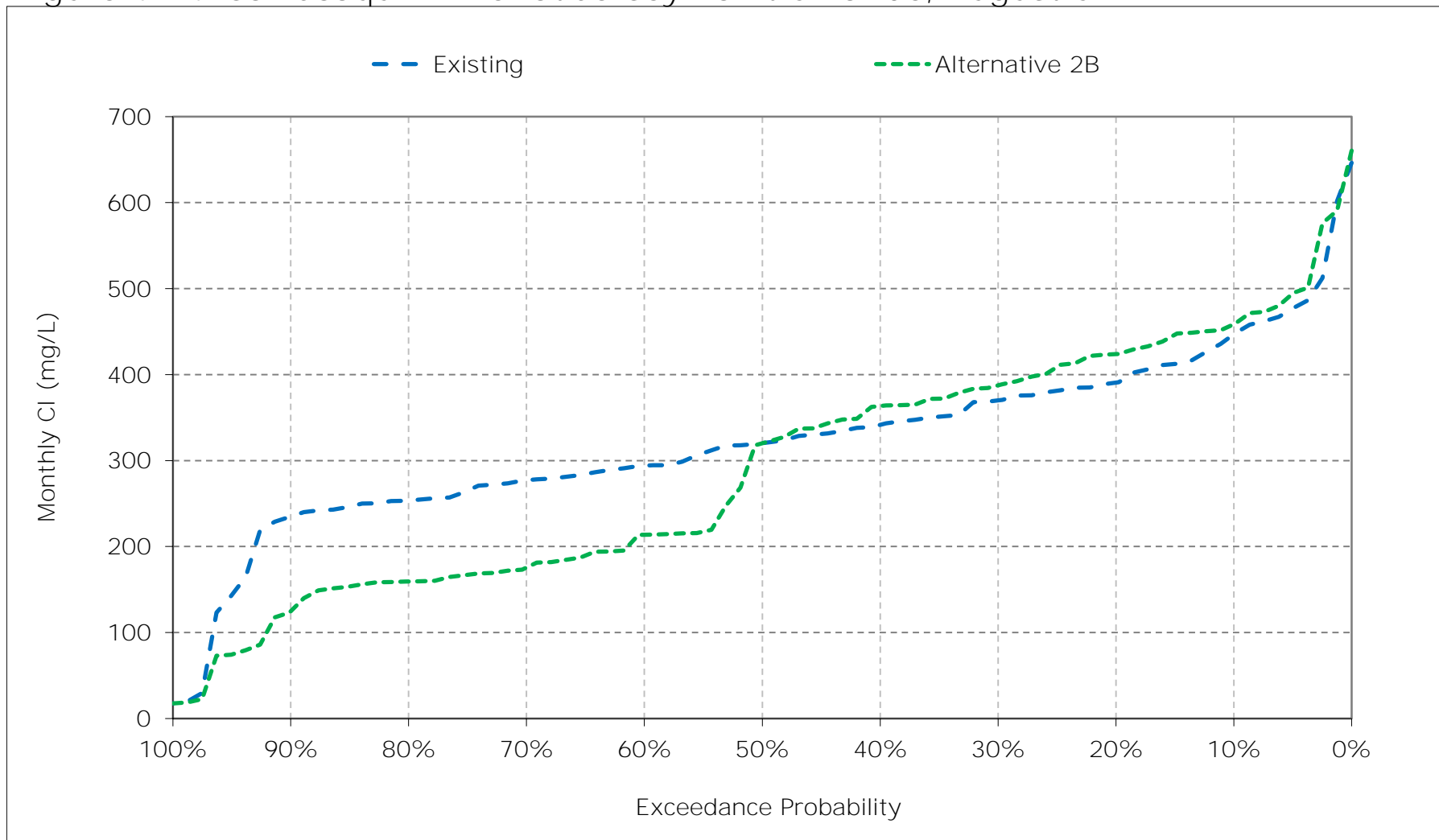


Figure 4-15. San Joaquin River at Jersey Point Chloride, September CI

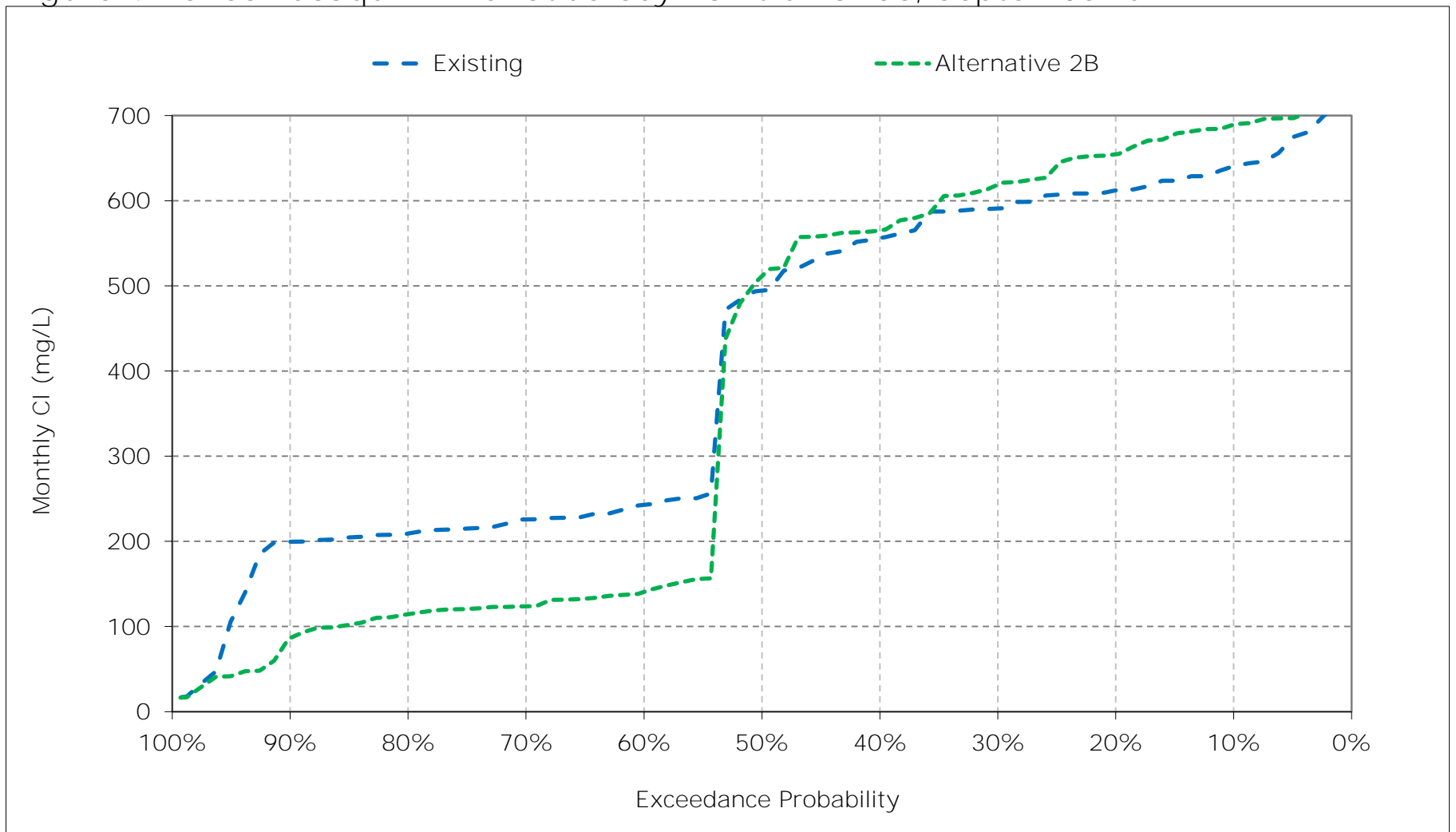


Figure 4-16. San Joaquin River at Jersey Point Chloride, October CI

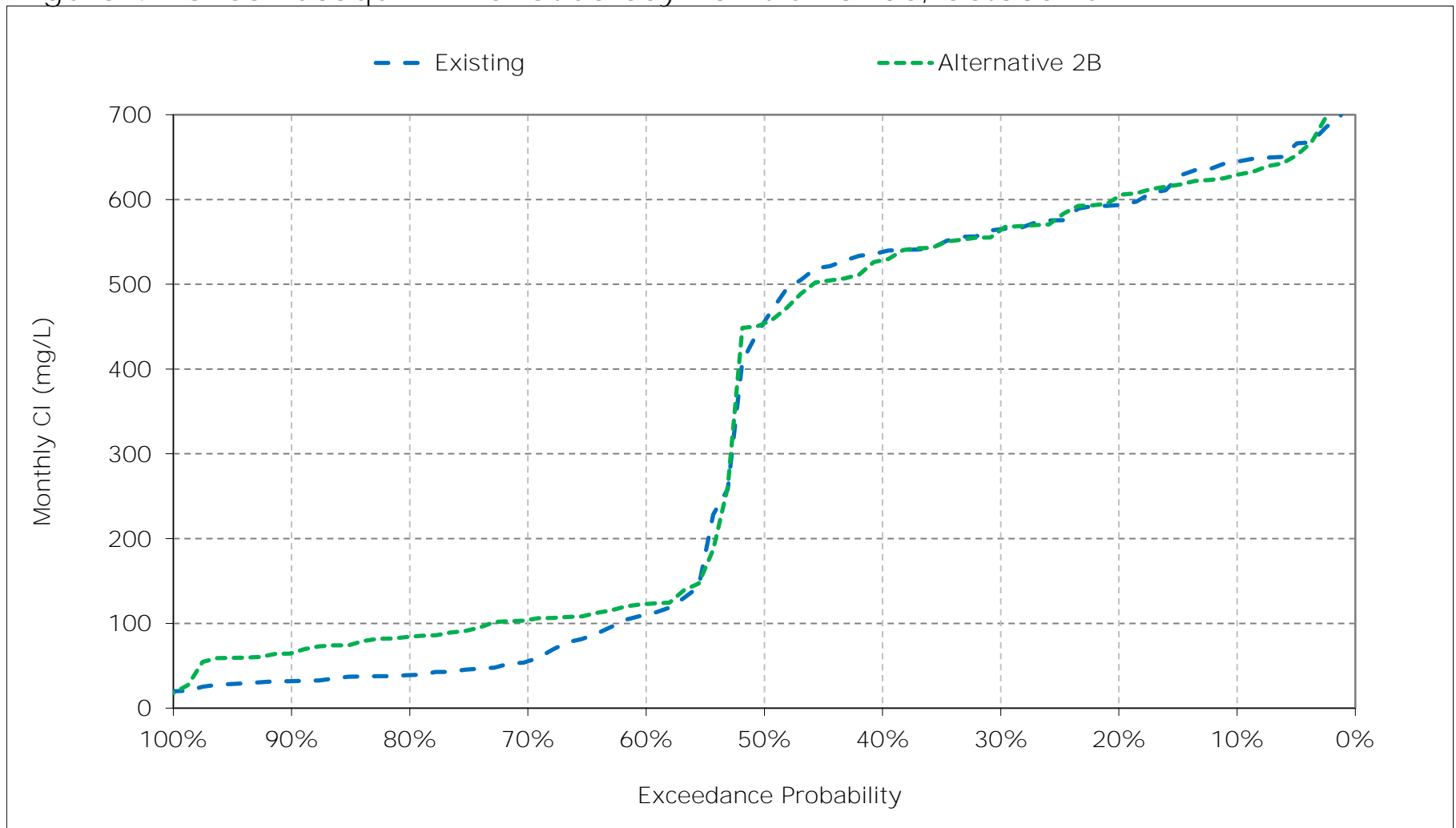




Figure 4-17. San Joaquin River at Jersey Point Chloride, November CI

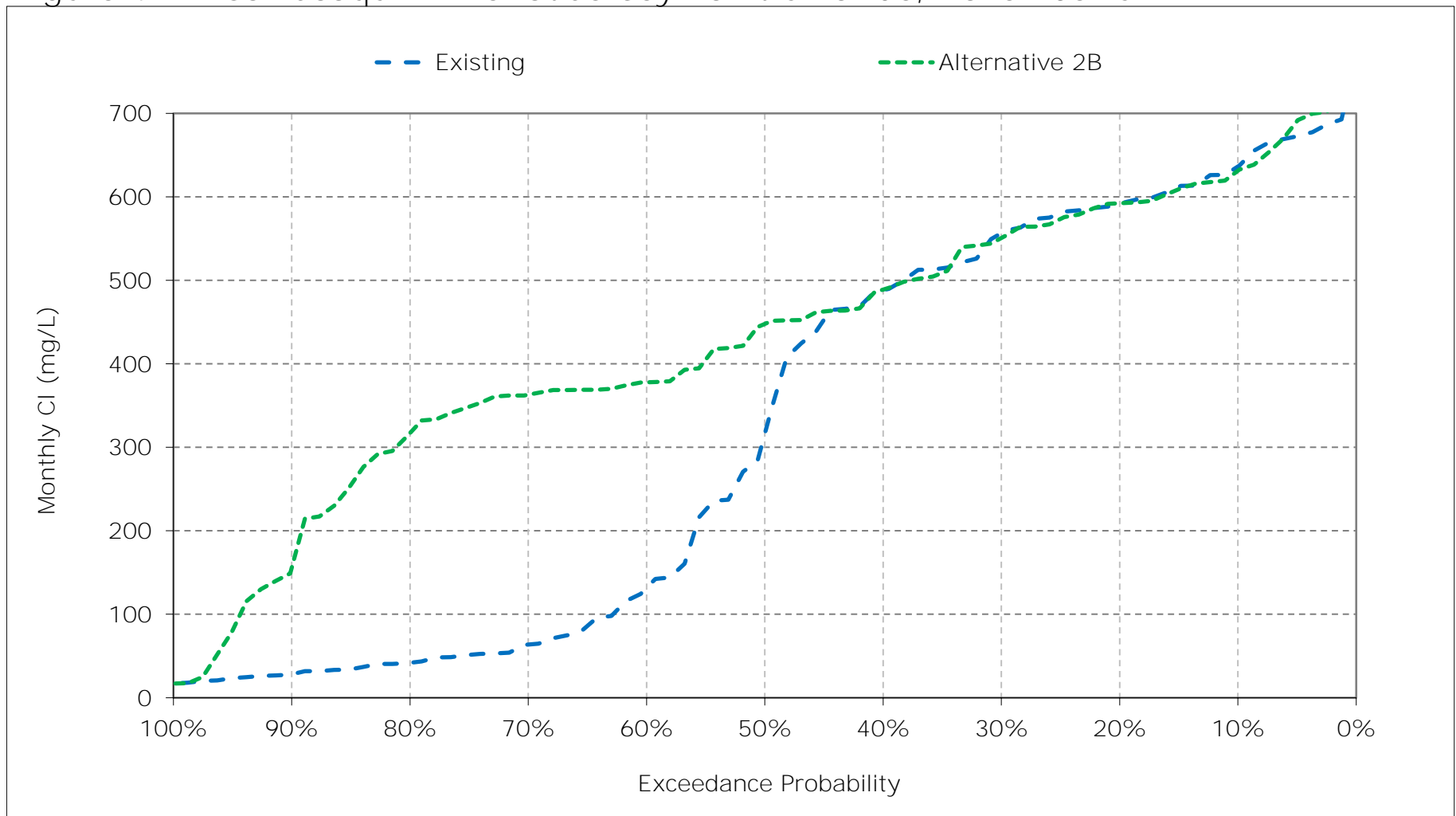


Figure 4-18. San Joaquin River at Jersey Point Chloride, December CI

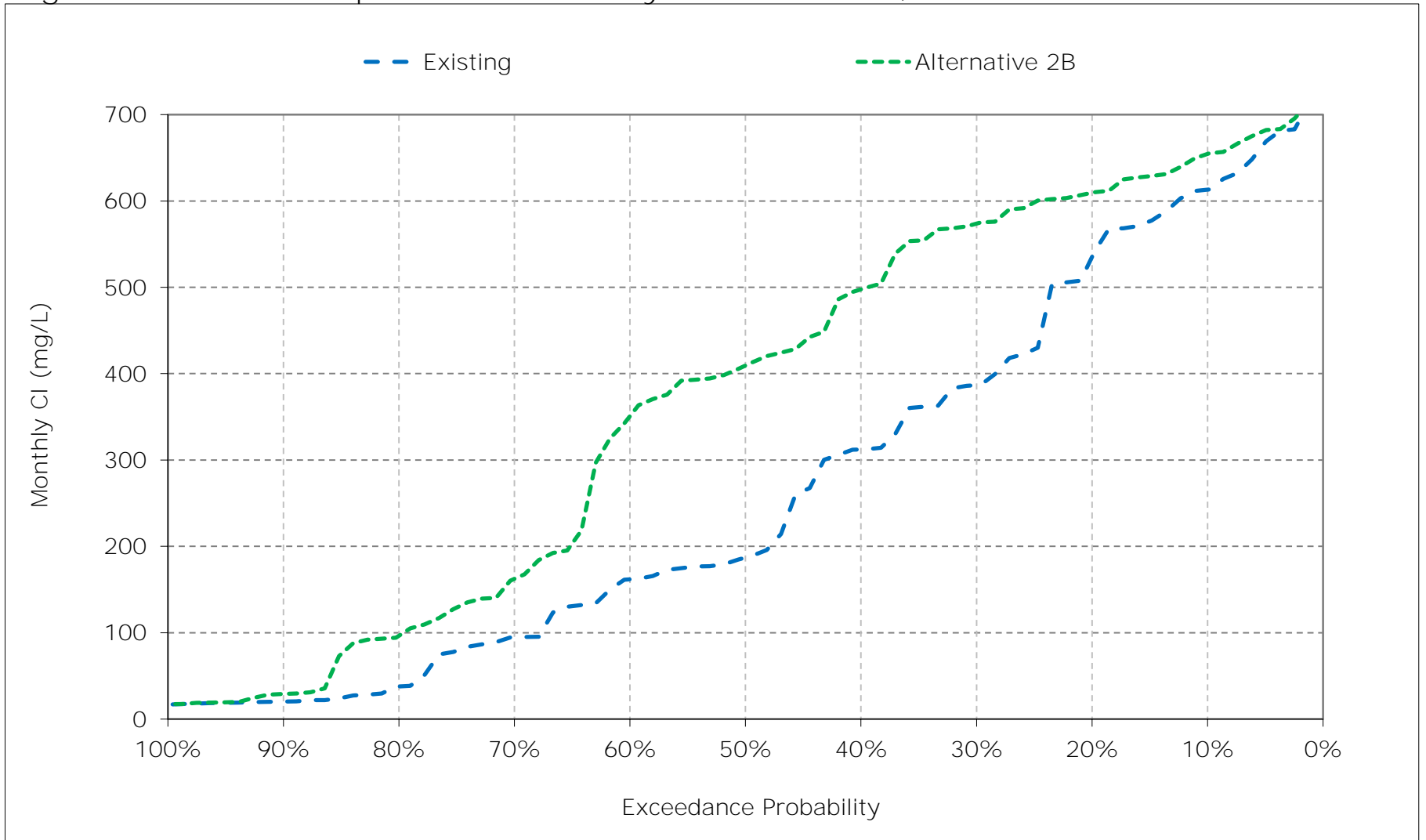


Table 5-1. San Joaquin River at San Andreas Chloride, Monthly Cl

Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	136	132	148	112	41	23	24	25	23	53	84	117
20%	117	117	136	91	29	22	23	24	21	36	71	112
30%	111	110	116	68	25	21	22	24	20	28	61	104
40%	105	99	84	53	23	20	21	23	19	26	52	97
50%	92	70	42	38	22	19	20	22	19	21	47	84
60%	21	27	33	27	21	18	20	21	18	19	42	67
70%	20	20	27	22	19	18	19	20	17	19	33	56
80%	19	19	21	20	18	17	19	19	17	18	31	37
90%	18	18	17	18	17	17	17	16	16	17	29	29
Long Term												
Full Simulation Period <sup>a</sup>	71	71	72	54	26	20	21	22	21	30	51	78
Water Year Types <sup>b</sup>												
Wet (32%)	53	49	33	23	19	18	18	18	17	18	31	52
Above Normal (15%)	81	70	70	41	22	18	20	21	18	19	34	31
Below Normal (17%)	72	76	89	61	23	20	21	22	19	25	51	102
Dry (22%)	75	82	85	68	29	20	22	23	20	38	67	100
Critical (15%)	94	94	119	107	46	26	23	29	39	62	86	124

Alternative 2B

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	133	136	162	144	49	24	22	22	24	54	84	127
20%	124	120	152	112	30	22	21	22	21	33	69	118
30%	114	111	147	93	26	21	20	20	19	28	63	112
40%	109	102	131	69	23	20	20	20	19	25	56	99
50%	100	89	124	38	22	19	19	19	17	21	48	91
60%	23	67	105	27	21	19	18	18	17	19	28	23
70%	20	56	48	23	19	18	18	17	17	19	24	22
80%	19	47	30	20	18	17	17	17	16	18	23	21
90%	18	30	19	18	17	17	16	15	16	17	21	20
Long Term												
Full Simulation Period <sup>a</sup>	72	86	102	65	28	21	19	20	21	30	48	71
Water Year Types <sup>b</sup>												
Wet (32%)	55	68	53	25	19	18	17	17	17	18	22	20
Above Normal (15%)	81	86	108	52	23	19	19	18	17	19	25	22
Below Normal (17%)	74	90	121	71	23	20	20	19	18	23	56	116
Dry (22%)	75	95	126	91	33	21	20	20	20	38	68	104
Critical (15%)	96	105	142	116	52	29	23	28	41	63	86	125

Alternative 2B minus Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-3	4	14	32	8	1	-2	-2	0	1	0	10
20%	7	3	16	21	1	0	-1	-3	0	-3	-1	7
30%	4	2	31	25	1	0	-1	-3	-1	0	2	9
40%	4	3	47	16	0	1	-1	-3	-1	-2	4	3
50%	8	18	83	0	0	0	-1	-2	-1	0	1	7
60%	2	40	72	0	0	0	-1	-2	-1	0	-14	-44
70%	0	36	20	0	0	0	-1	-3	0	0	-9	-34
80%	0	29	9	0	0	0	-1	-2	-1	0	-8	-16
90%	-1	13	2	0	0	0	-1	-1	0	0	-8	-9
Long Term												
Full Simulation Period <sup>a</sup>	1	15	30	10	2	1	-1	-2	0	0	-3	-8
Water Year Types <sup>b</sup>												
Wet (32%)	2	20	19	2	0	0	-1	-2	0	0	-9	-32
Above Normal (15%)	0	16	38	11	1	0	-1	-3	-1	0	-9	-9
Below Normal (17%)	2	14	32	10	0	0	-2	-3	-1	-2	4	14
Dry (22%)	0	13	41	23	4	1	-2	-3	0	-1	0	4
Critical (15%)	2	11	23	8	6	3	0	-1	2	2	0	1

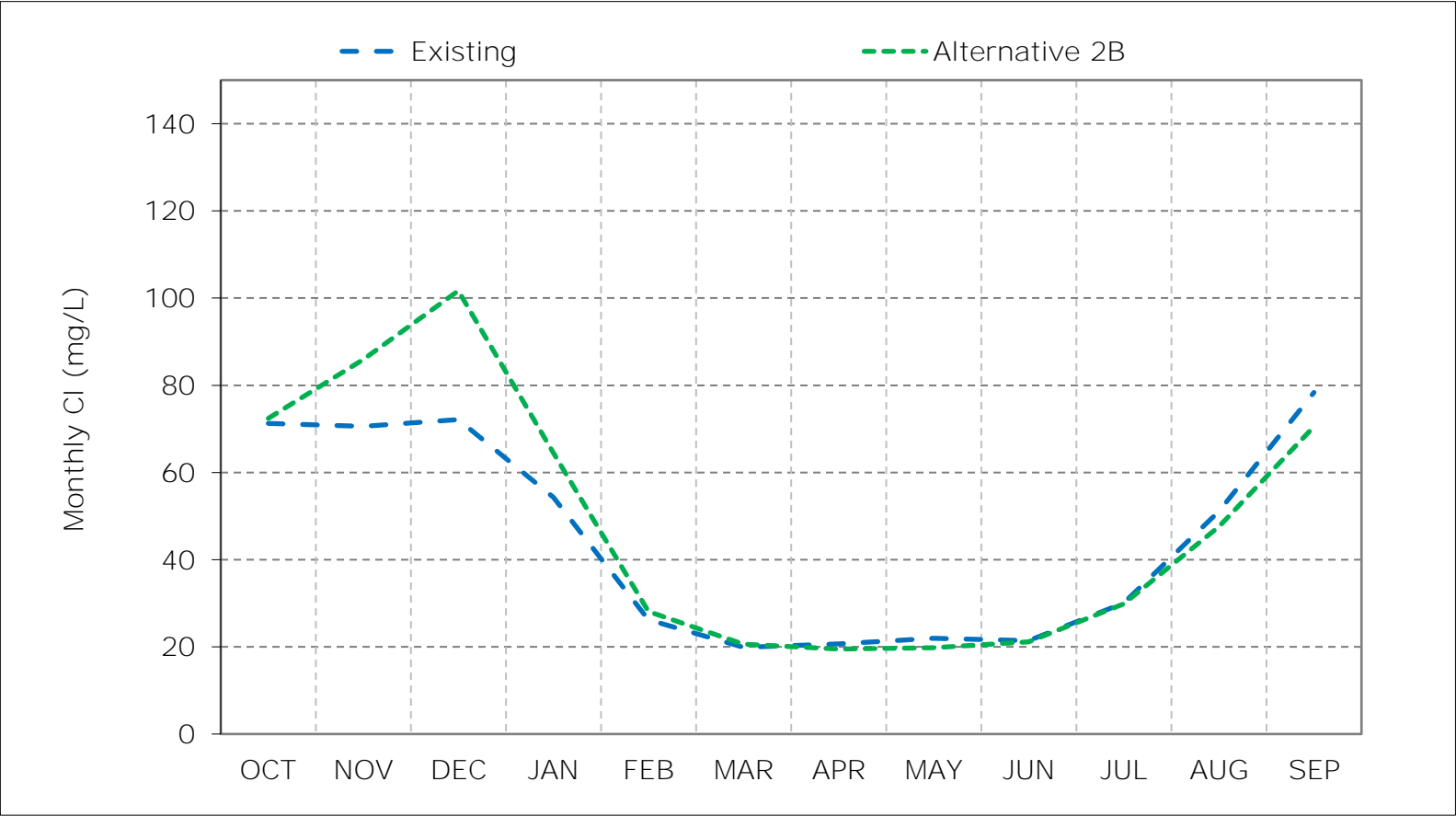
a Based on the 82-year simulation period.

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 water year - year type sorting.

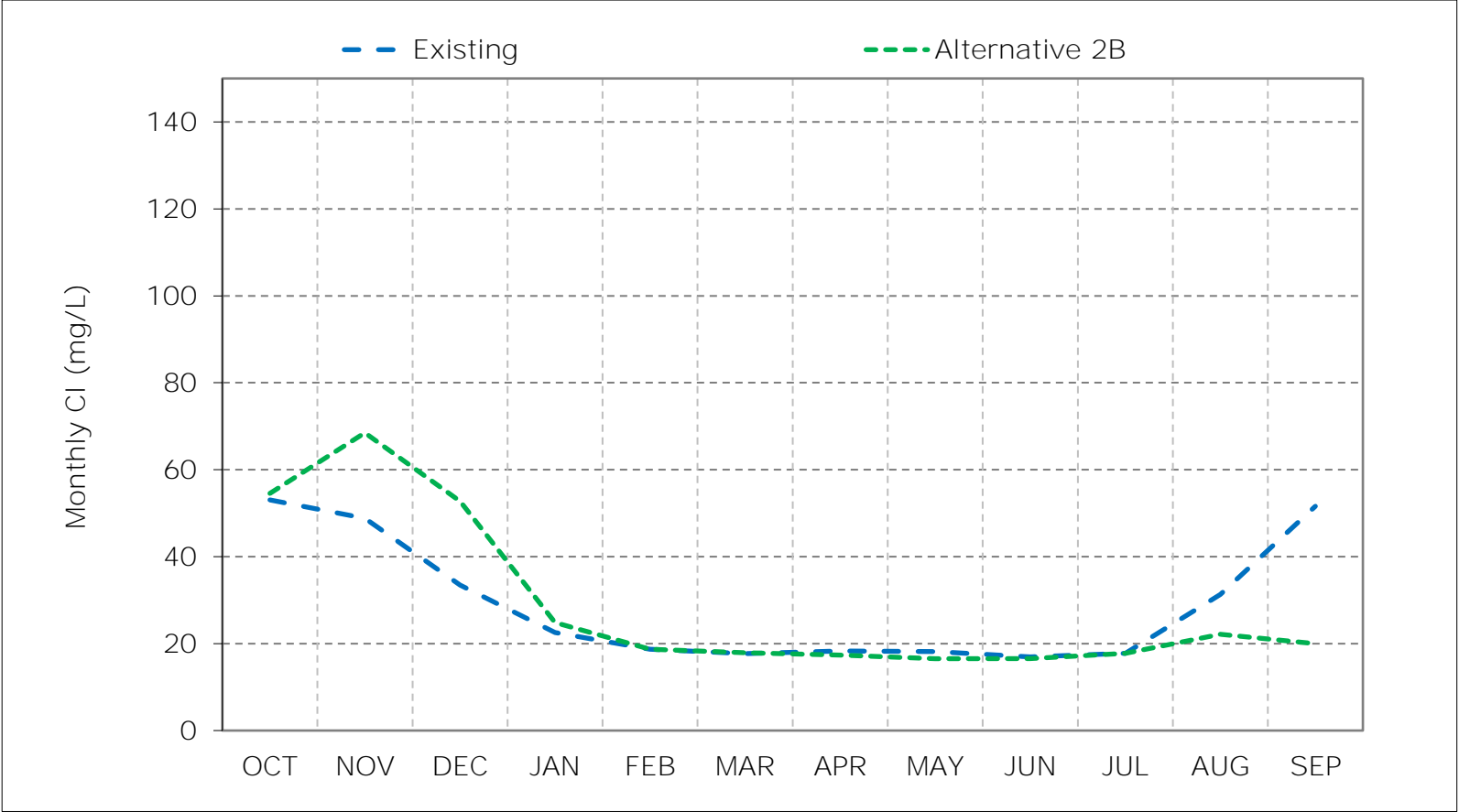
d Positive differences are highted in red color which indicate increase in Chloride (Cl).

Figure 5-1. San Joaquin River at San Andreas Chloride, Long-Term Average Cl



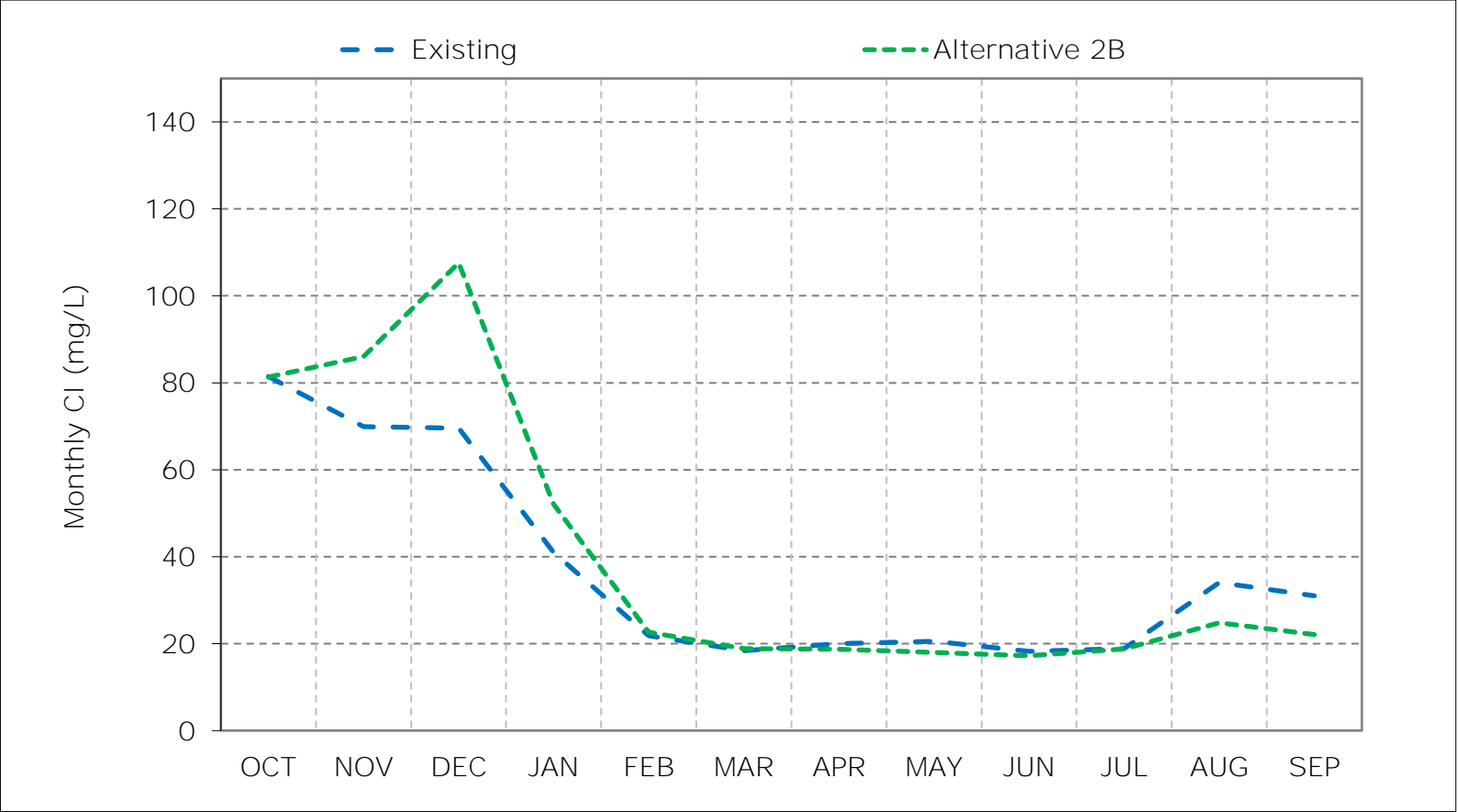
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 5-2. San Joaquin River at San Andreas Chloride, Wet Year Average Cl



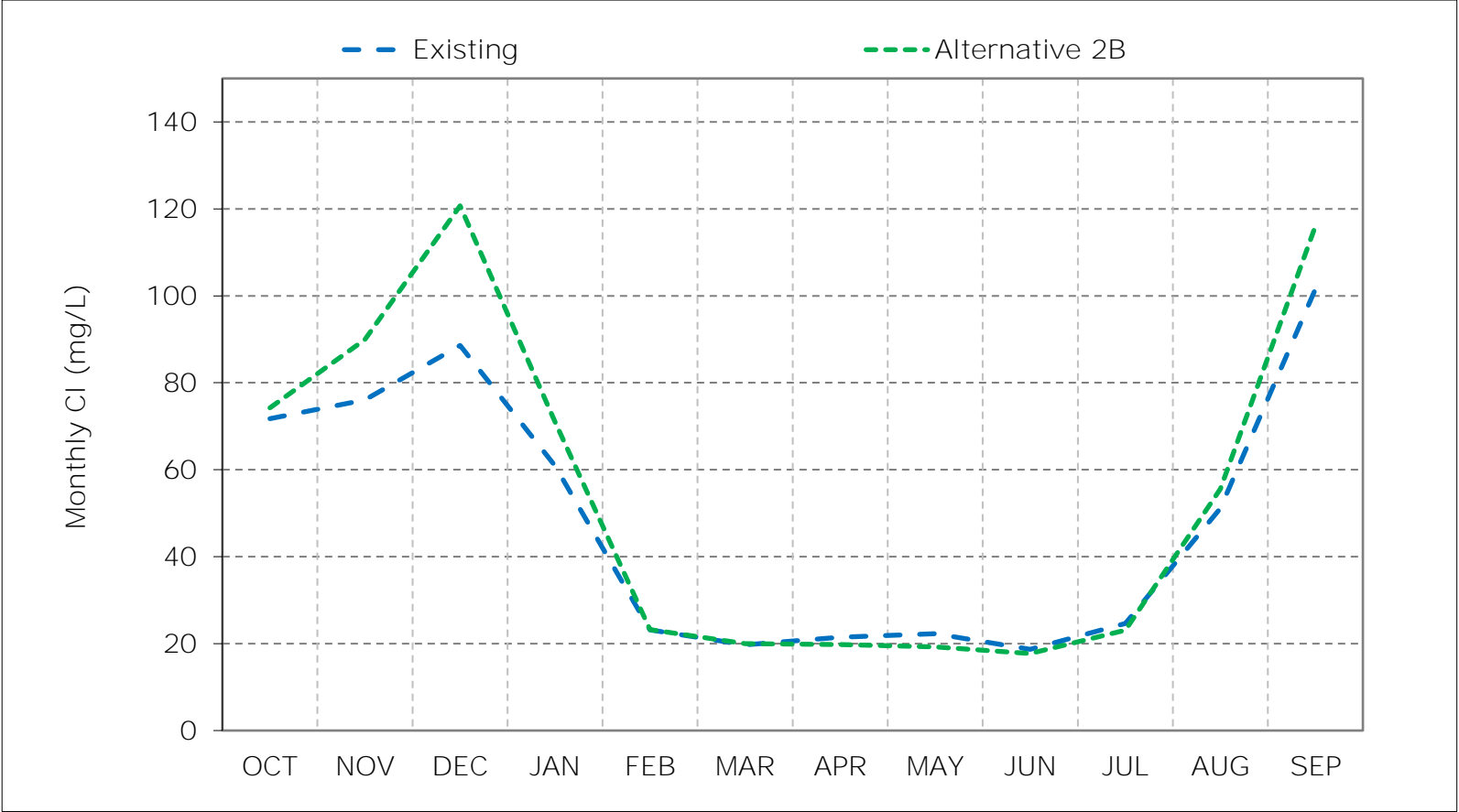
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 5-3. San Joaquin River at San Andreas Chloride, Above Normal Year Average C



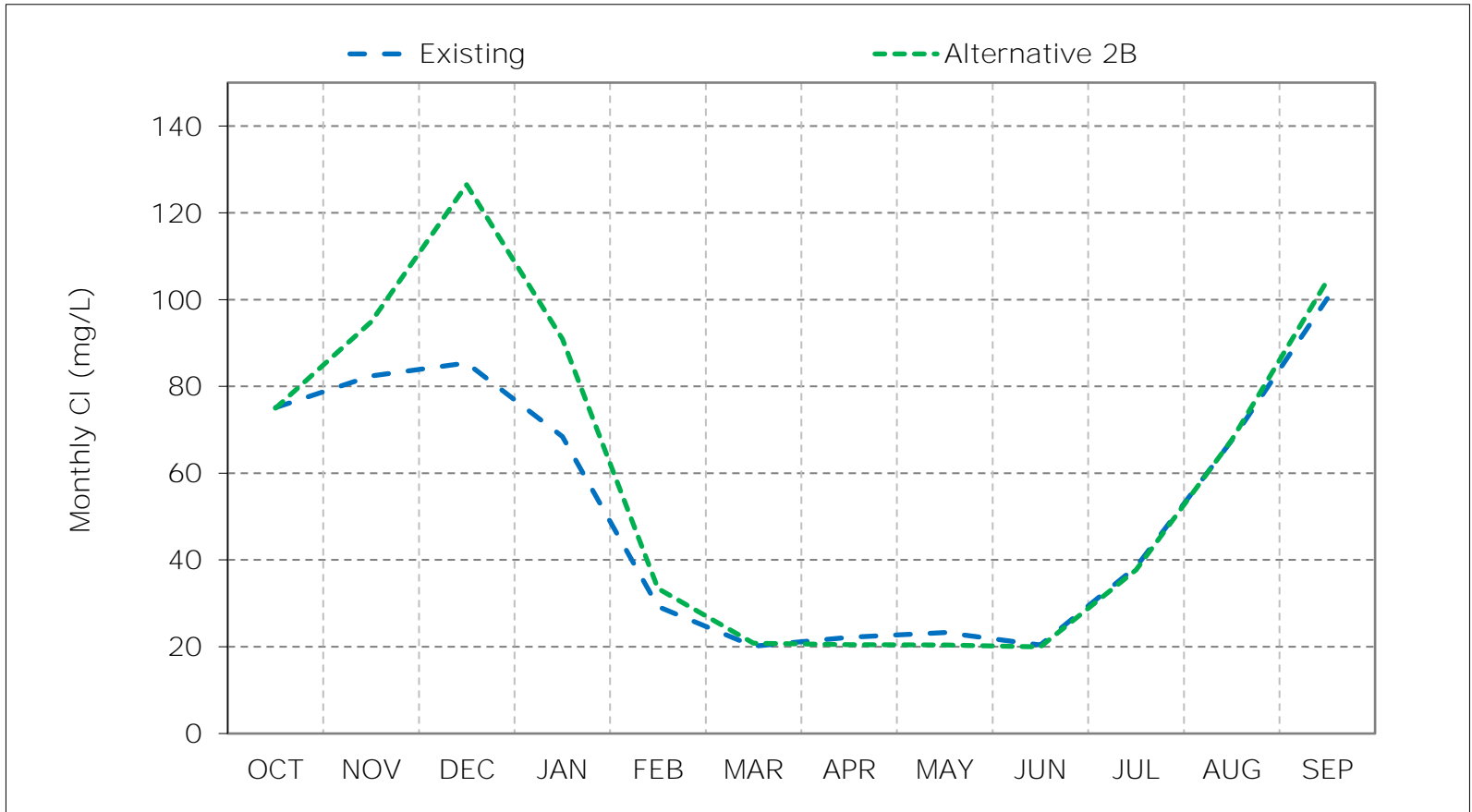
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 5-4. San Joaquin River at San Andreas Chloride, Below Normal Year Average C



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 5-5. San Joaquin River at San Andreas Chloride, Dry Year Average Cl

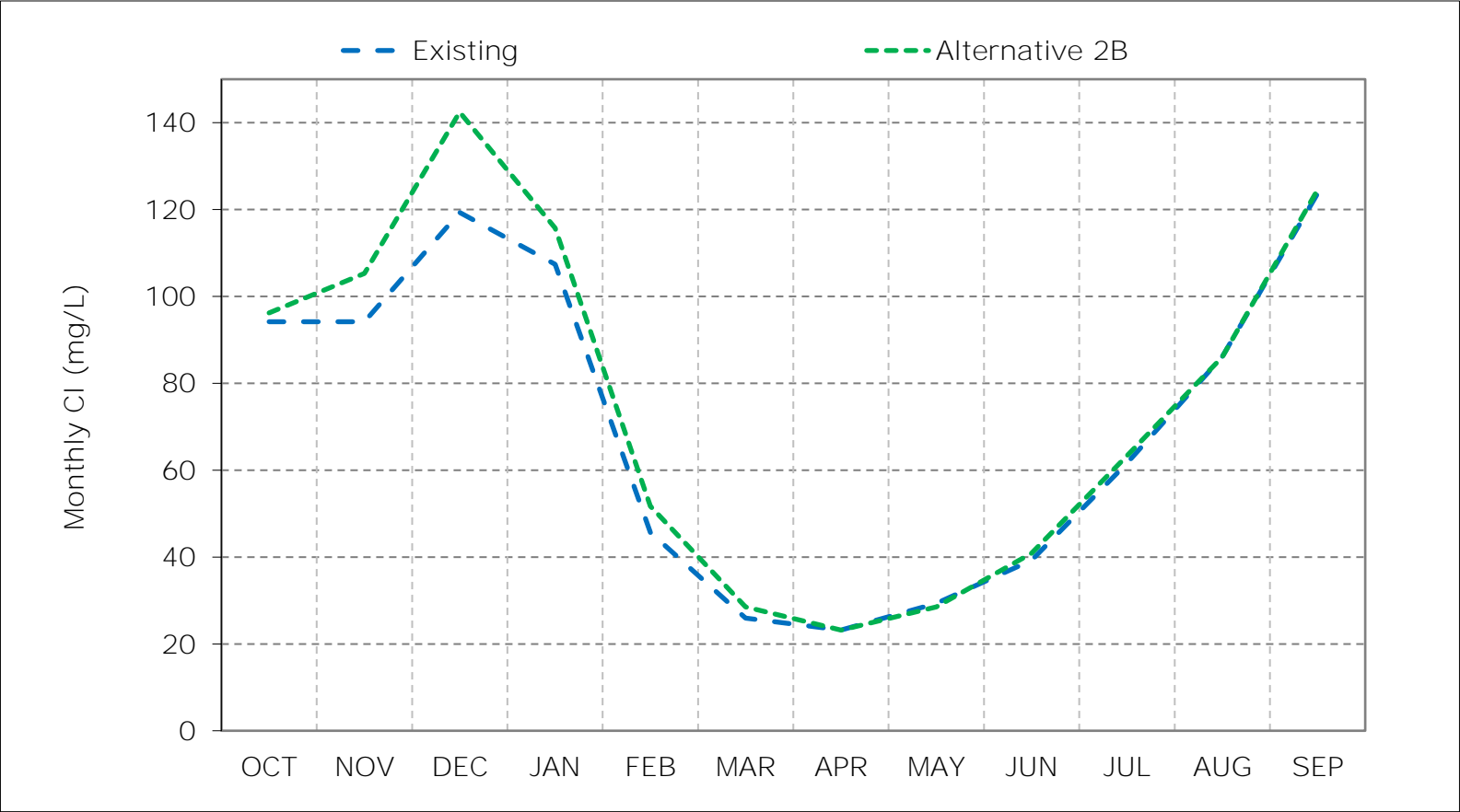


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



Figure 5-6. San Joaquin River at San Andreas Chloride, 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 water year - year type sorting.

Figure 5-7. San Joaquin River at San Andreas Chloride, January CI

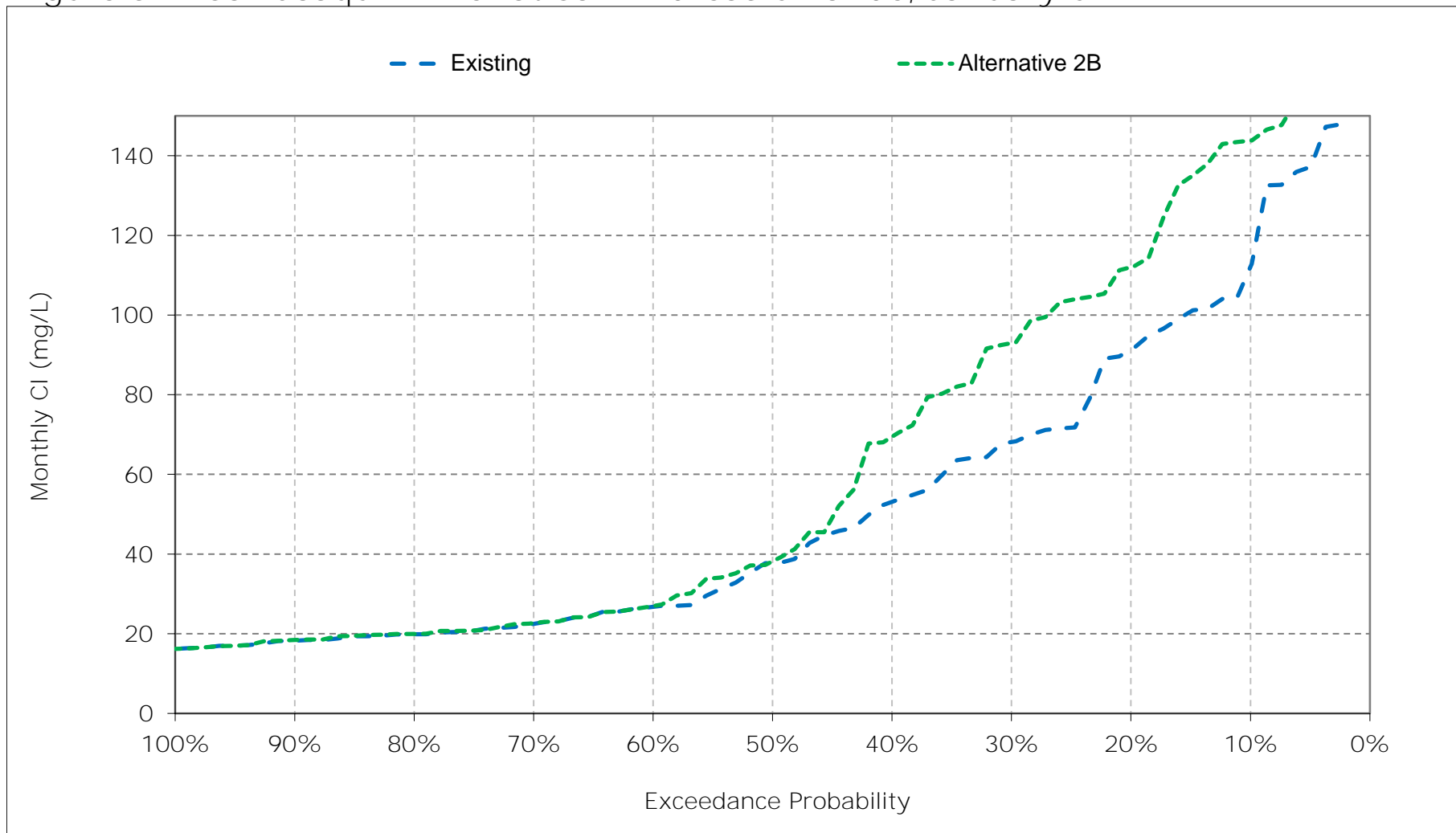


Figure 5-8. San Joaquin River at San Andreas Chloride, February CI

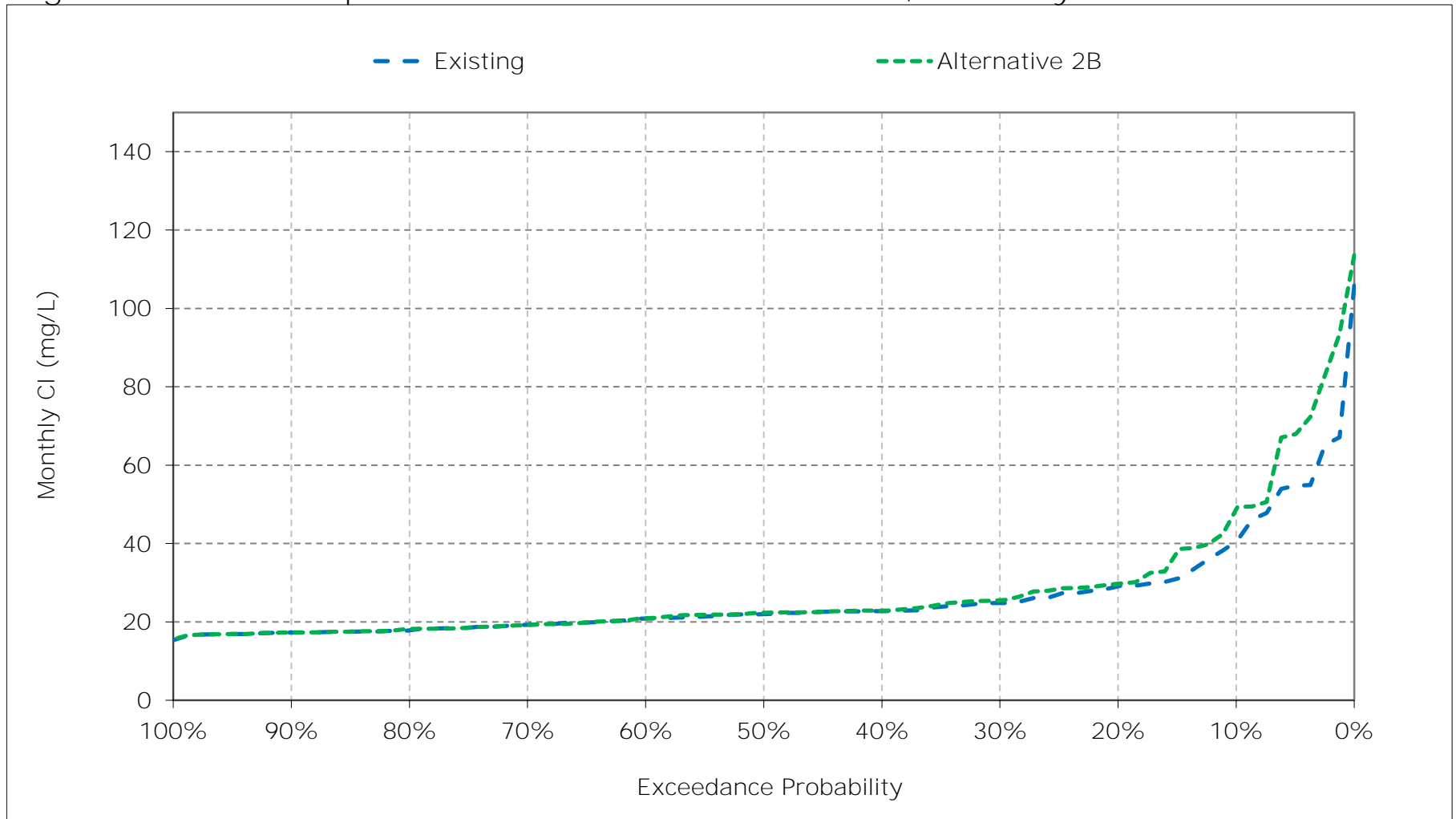


Figure 5-9. San Joaquin River at San Andreas Chloride, March CI

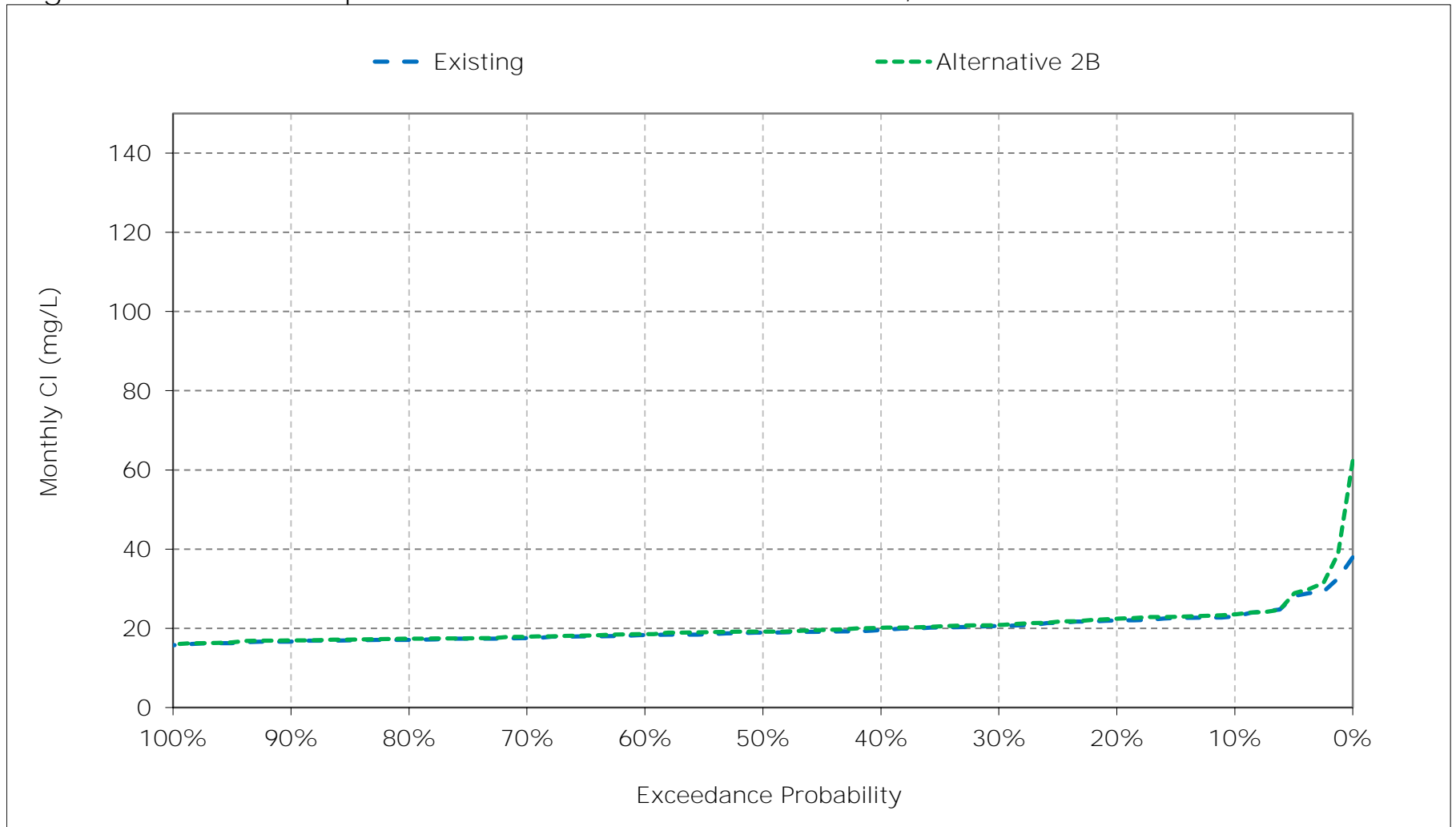


Figure 5-10. San Joaquin River at San Andreas Chloride, April CI

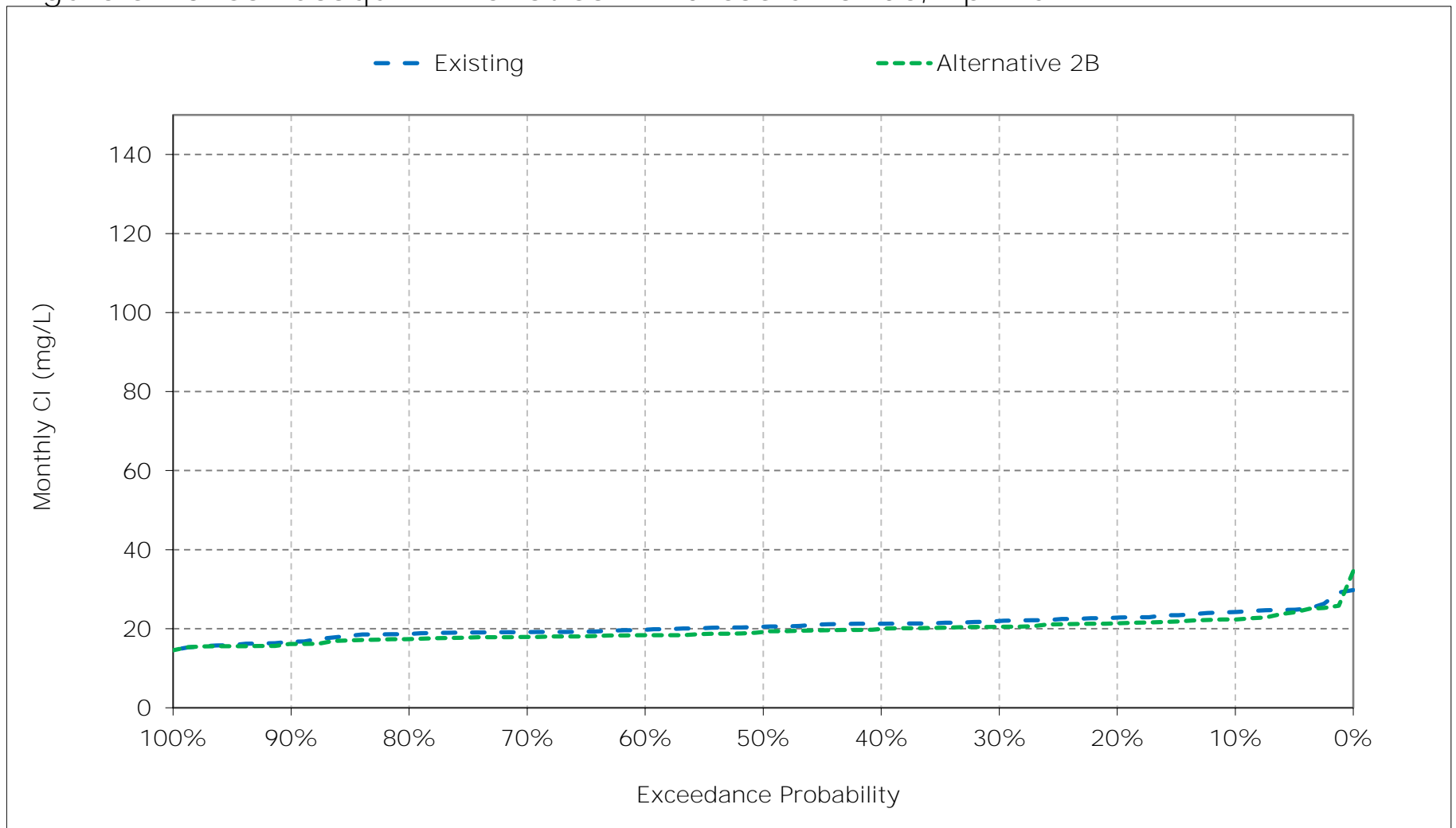


Figure 5-11. San Joaquin River at San Andreas Chloride, May CI

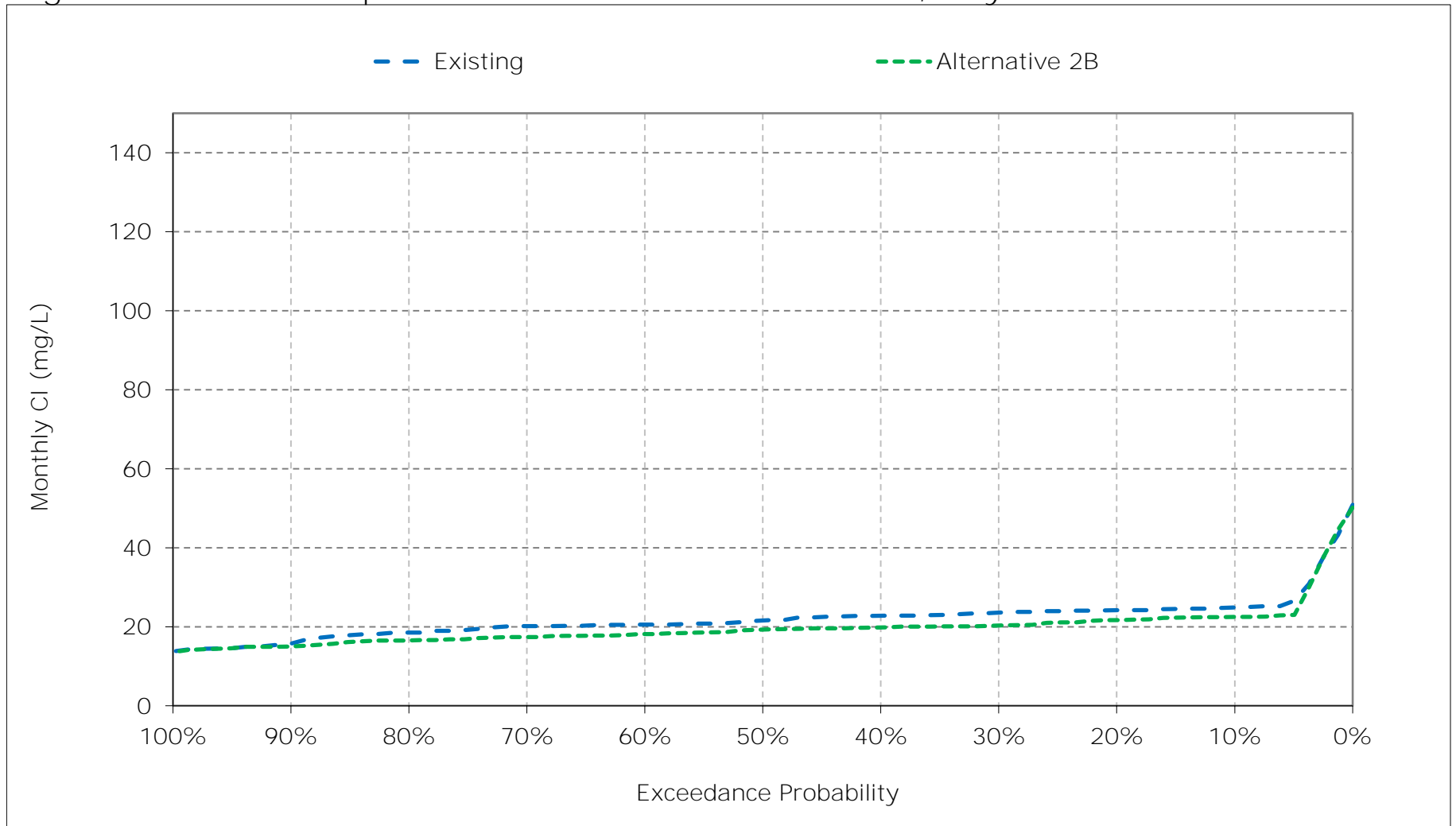


Figure 5-12. San Joaquin River at San Andreas Chloride, June Cl

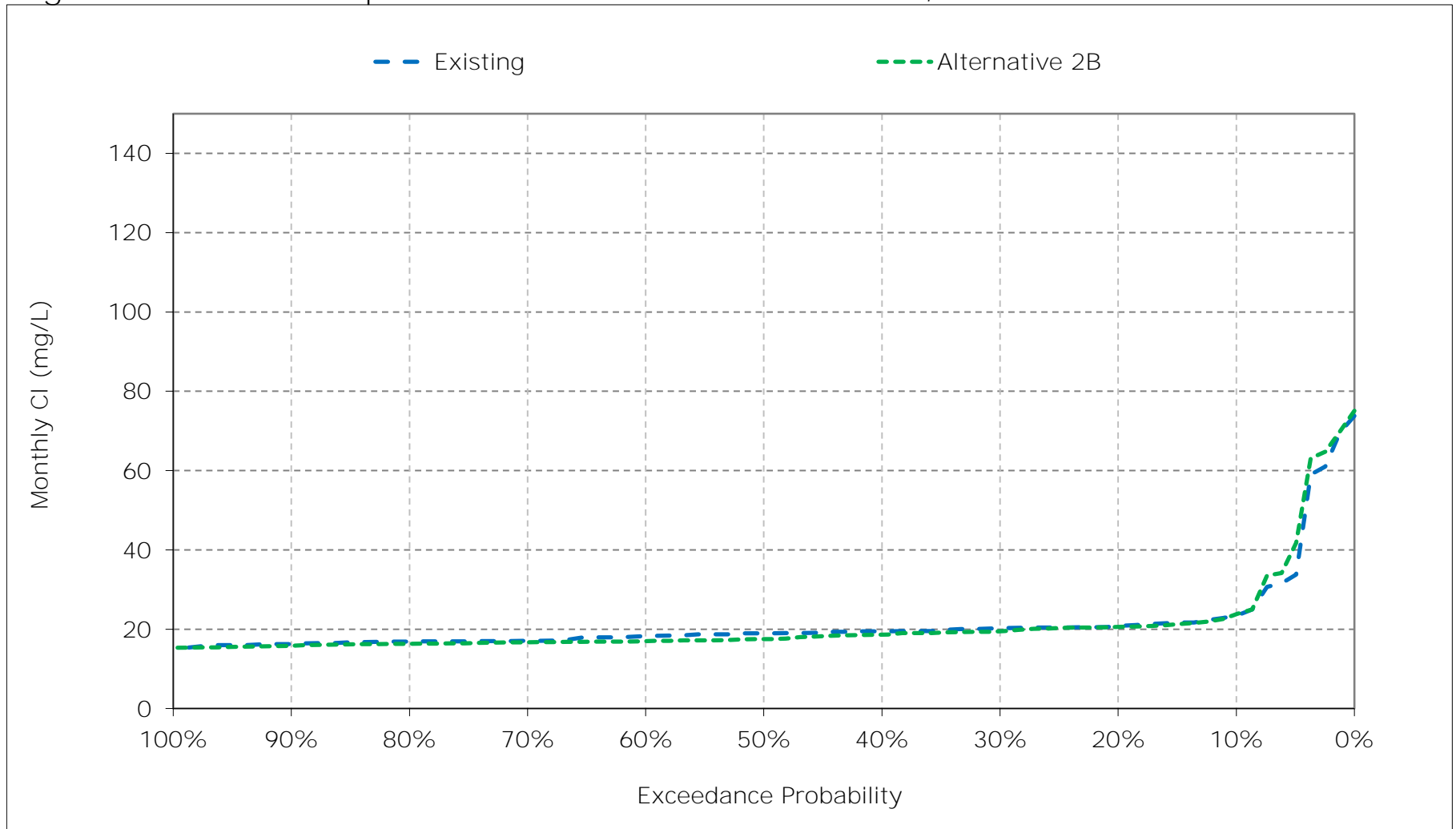


Figure 5-13. San Joaquin River at San Andreas Chloride, July CI

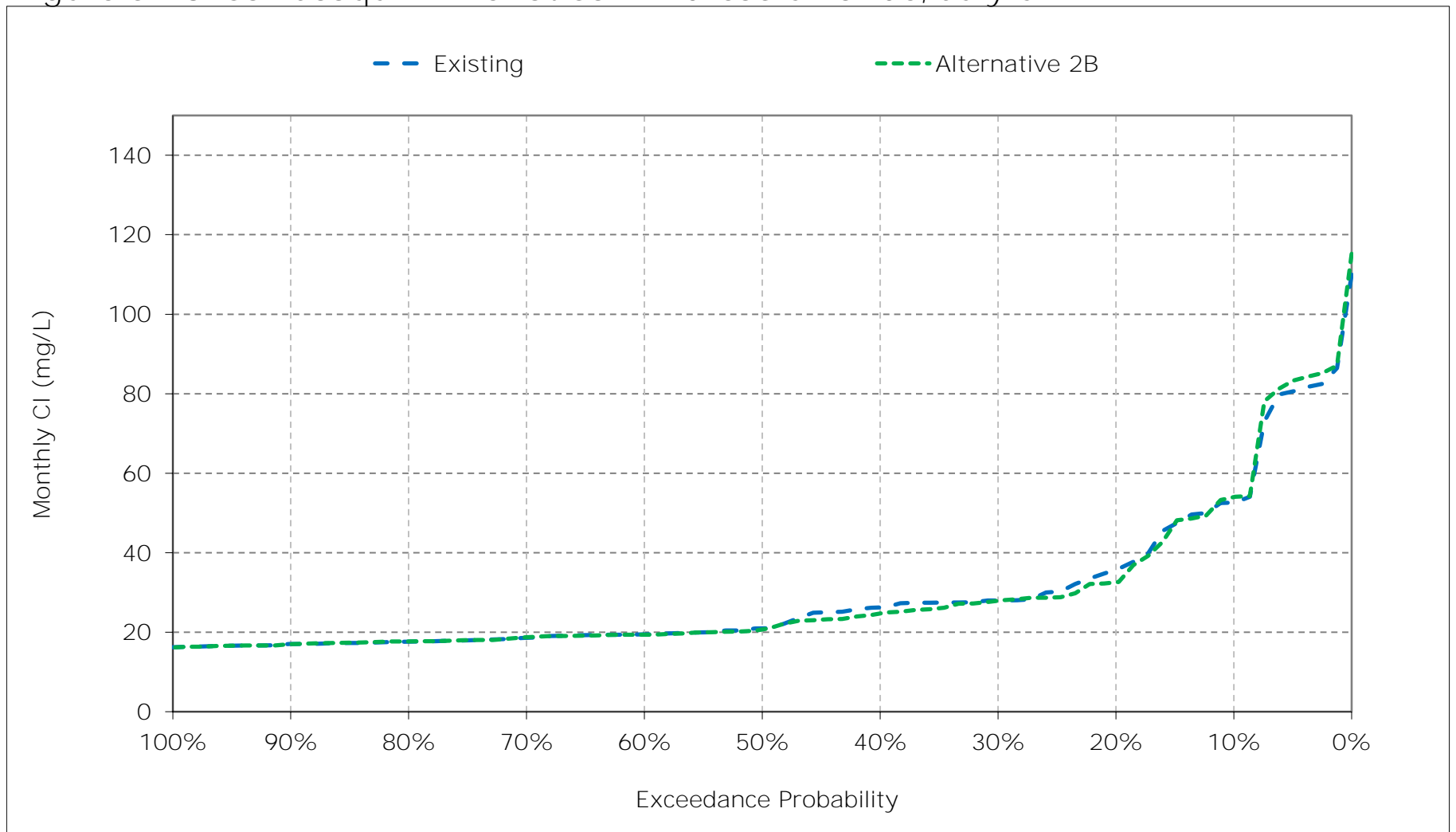




Figure 5-14. San Joaquin River at San Andreas Chloride, August Cl

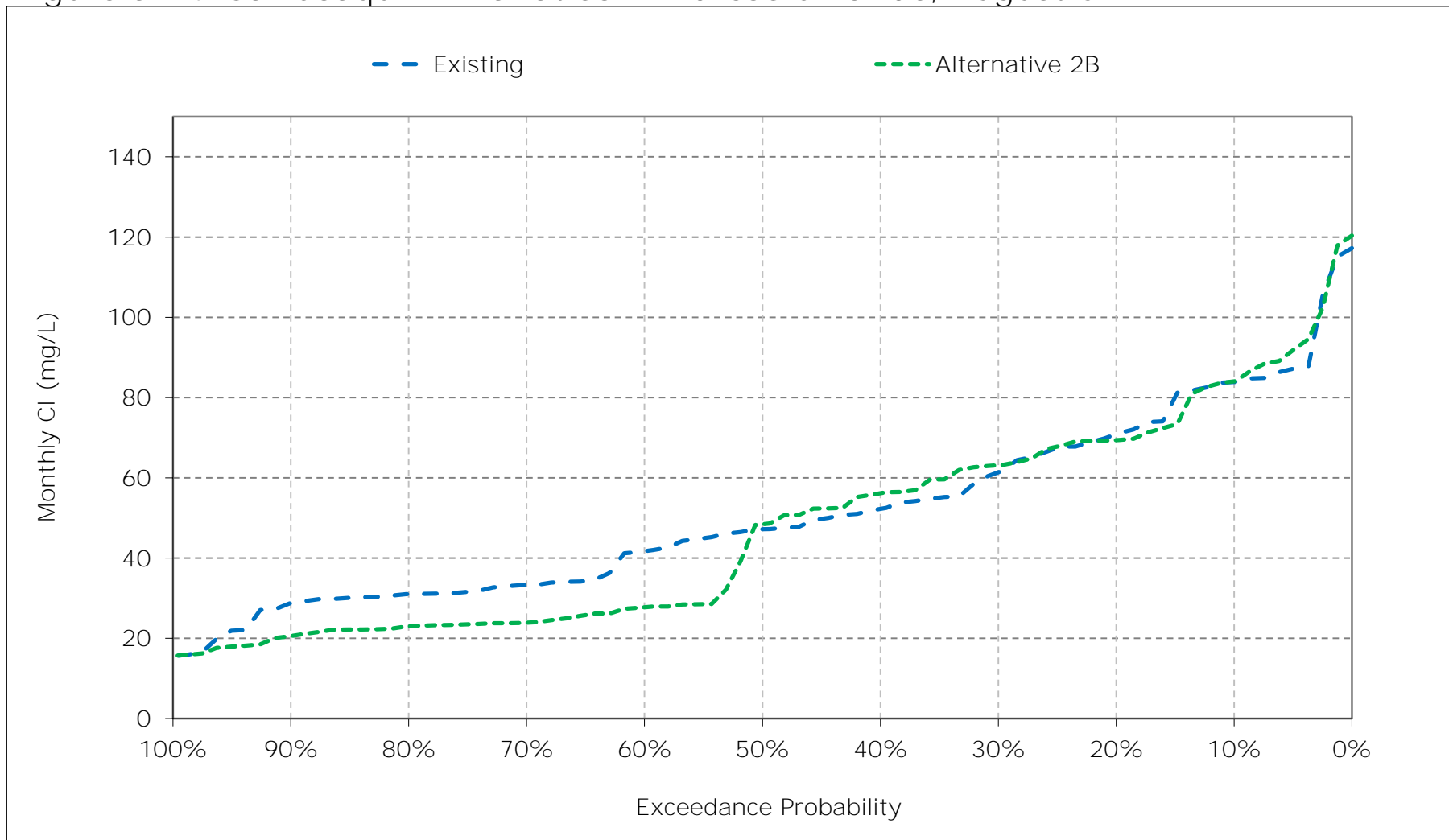


Figure 5-15. San Joaquin River at San Andreas Chloride, September Cl

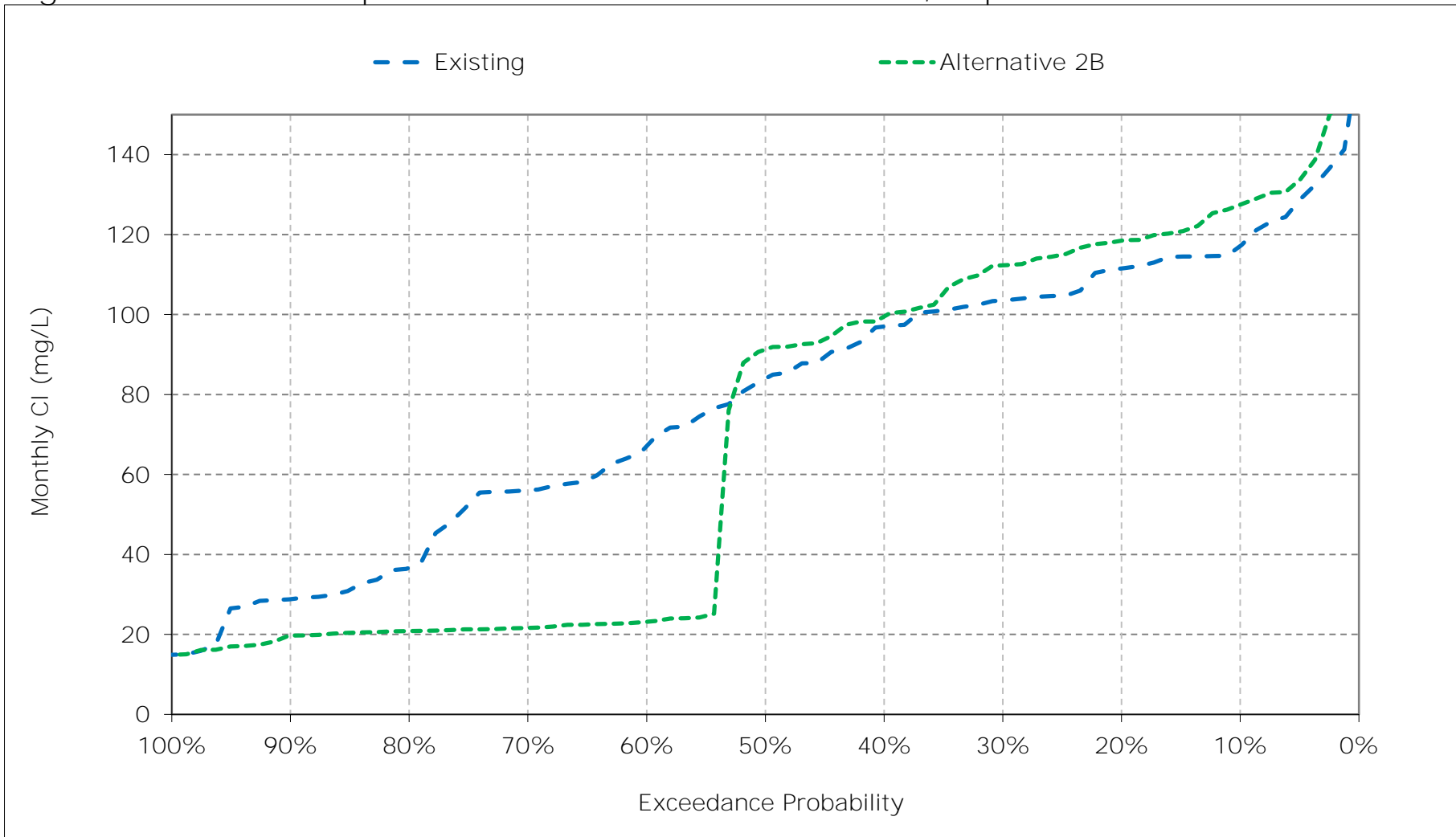


Figure 5-16. San Joaquin River at San Andreas Chloride, October CI

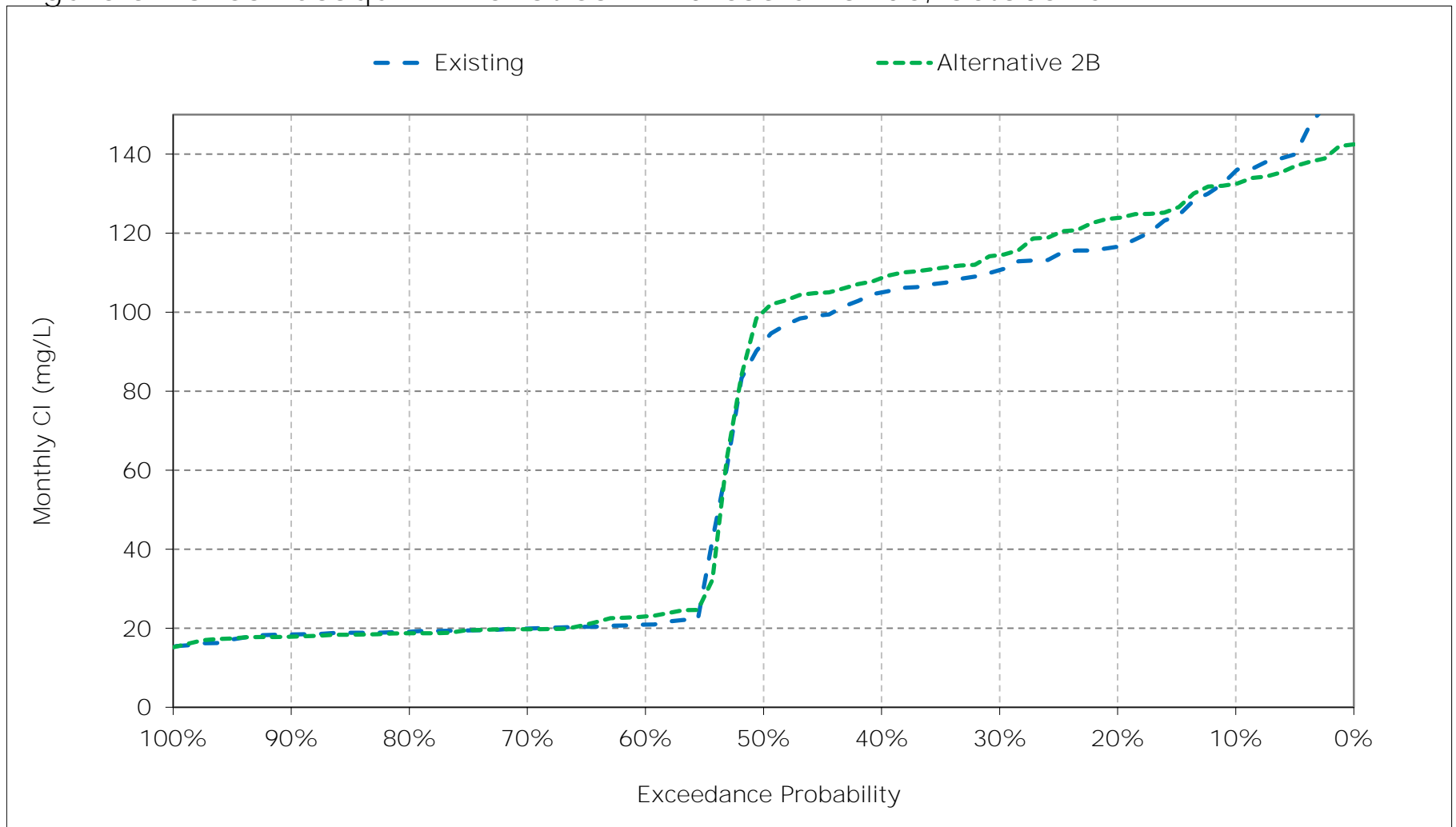


Figure 5-17. San Joaquin River at San Andreas Chloride, November CI

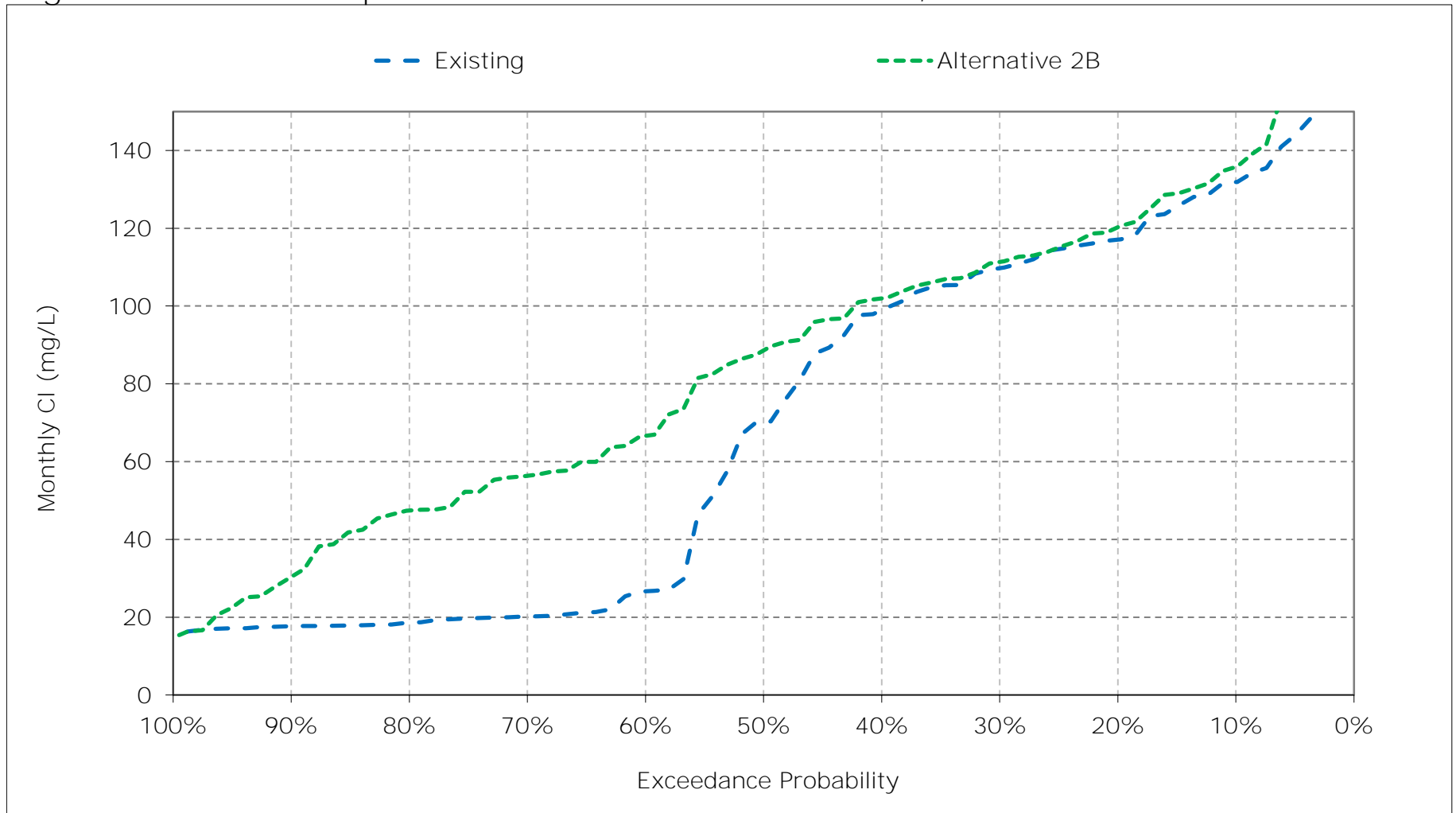


Figure 5-18. San Joaquin River at San Andreas Chloride, December CI

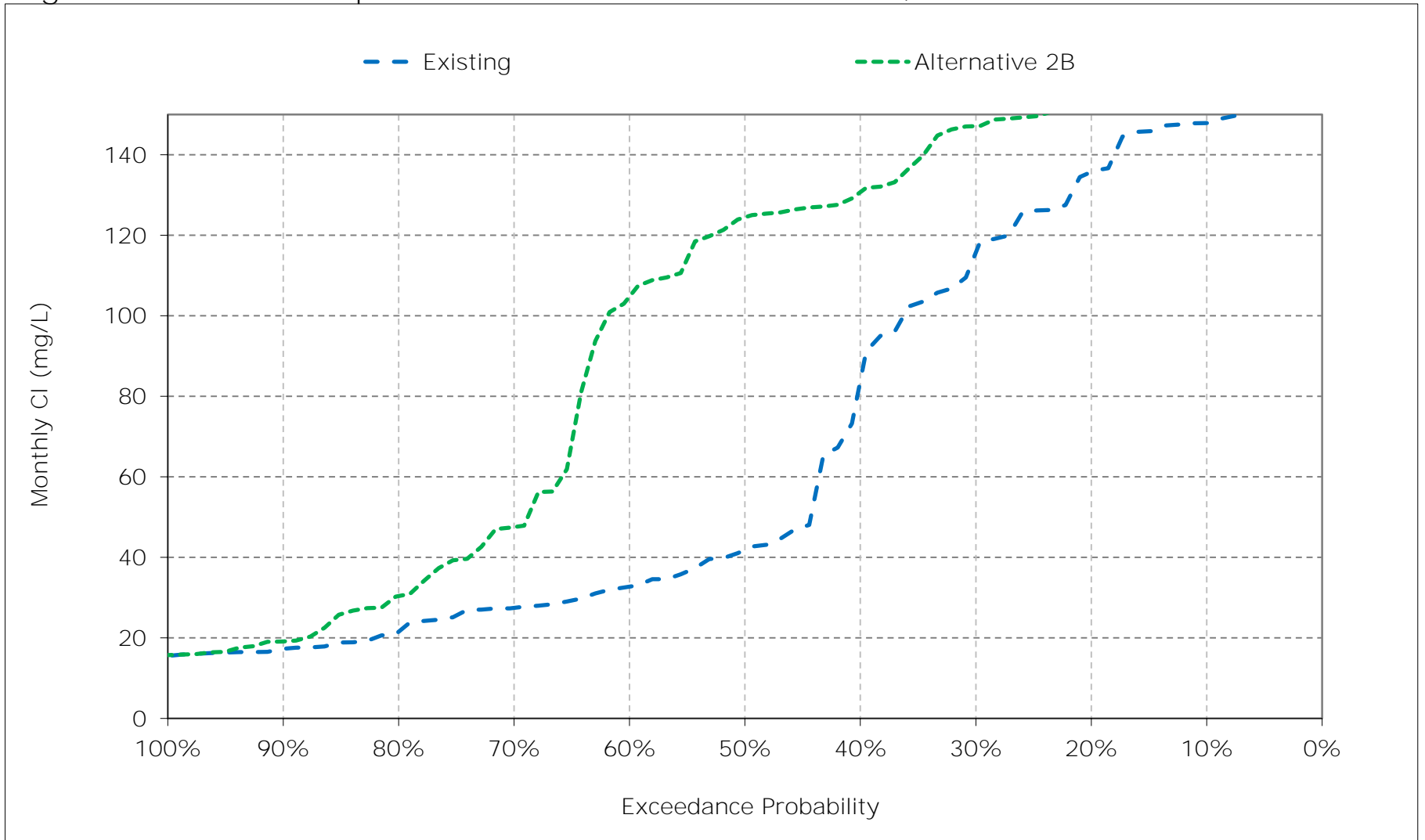


Table 6-1. San Joaquin River at Prisoners Point Chloride, Monthly Cl

Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	121	120	146	135	76	47	54	50	33	57	85	112
20%	111	107	135	105	63	42	51	46	29	36	66	107
30%	107	99	118	95	59	38	47	44	28	30	58	98
40%	102	88	94	71	51	35	44	42	26	27	52	91
50%	91	78	57	65	45	31	40	40	25	26	46	82
60%	27	29	38	57	40	29	39	37	24	23	40	74
70%	25	24	31	49	32	28	34	36	24	22	32	67
80%	23	23	26	41	30	26	29	31	23	21	30	52
90%	22	22	24	31	28	24	27	22	22	19	29	42
Long Term												
Full Simulation Period <sup>a</sup>	69	67	76	75	48	34	40	39	28	32	50	80
Water Year Types <sup>b</sup>												
Wet (32%)	55	51	45	46	40	32	31	30	26	22	31	61
Above Normal (15%)	80	69	75	69	52	39	41	38	26	21	33	45
Below Normal (17%)	72	72	91	87	48	35	47	43	24	26	53	106
Dry (22%)	71	74	88	81	46	32	48	45	25	40	66	92
Critical (15%)	86	83	110	121	62	37	41	44	42	59	79	104

Alternative 2B

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	121	118	159	163	77	51	46	34	32	57	86	129
20%	116	109	148	144	67	45	42	31	28	33	68	117
30%	110	102	141	123	62	40	38	29	26	28	60	103
40%	107	95	134	100	55	36	34	28	24	27	53	90
50%	96	81	128	69	49	33	32	28	22	25	47	76
60%	22	61	113	60	40	31	30	27	22	23	29	27
70%	20	50	76	50	34	29	28	26	21	21	24	26
80%	20	39	60	42	30	27	26	25	21	20	23	25
90%	19	30	33	33	28	25	24	20	20	19	22	23
Long Term												
Full Simulation Period <sup>a</sup>	70	78	109	90	50	36	34	28	26	32	47	69
Water Year Types <sup>b</sup>												
Wet (32%)	55	65	71	51	40	33	28	24	24	22	23	23
Above Normal (15%)	80	81	114	87	53	42	35	28	24	21	25	26
Below Normal (17%)	73	82	123	103	48	37	38	29	21	24	56	121
Dry (22%)	70	82	130	109	52	36	38	29	22	39	66	97
Critical (15%)	89	90	137	130	69	39	32	33	40	62	80	107

Alternative 2B minus Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-1	13	27	0	4	-8	-16	-1	0	1	17
20%	5	2	13	38	4	3	-8	-15	-1	-3	2	10
30%	3	3	24	28	3	2	-9	-15	-2	-2	2	5
40%	5	7	41	29	4	1	-10	-13	-2	0	0	-1
50%	5	2	72	5	3	2	-8	-12	-3	-1	0	-6
60%	-5	31	76	2	0	1	-9	-11	-3	0	-11	-46
70%	-5	26	45	1	2	1	-6	-10	-3	0	-7	-41
80%	-4	17	34	2	0	1	-3	-5	-3	0	-7	-28
90%	-3	8	9	1	0	1	-3	-1	-3	0	-6	-19
Long Term												
Full Simulation Period <sup>a</sup>	1	11	33	14	3	2	-7	-11	-2	0	-3	-11
Water Year Types <sup>b</sup>												
Wet (32%)	0	14	26	5	0	0	-3	-6	-1	0	-8	-38
Above Normal (15%)	0	12	39	17	2	3	-6	-10	-3	0	-8	-19
Below Normal (17%)	1	10	33	16	0	2	-9	-14	-3	-2	3	15
Dry (22%)	-1	8	42	28	7	4	-10	-16	-3	-1	0	4
Critical (15%)	3	7	27	9	7	2	-8	-11	-2	3	1	3

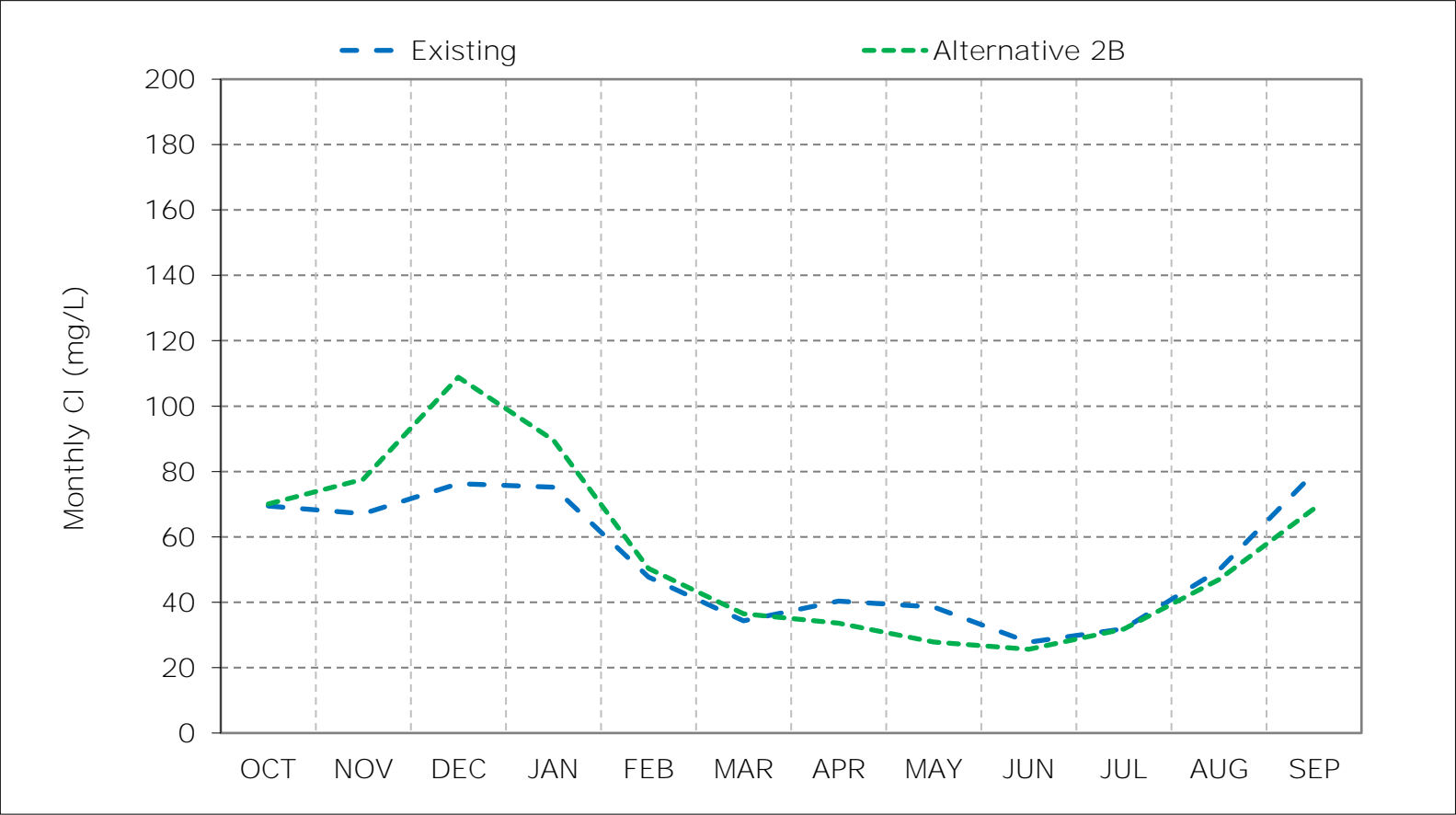
a Based on the 82-year simulation period.

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 water year - year type sorting.

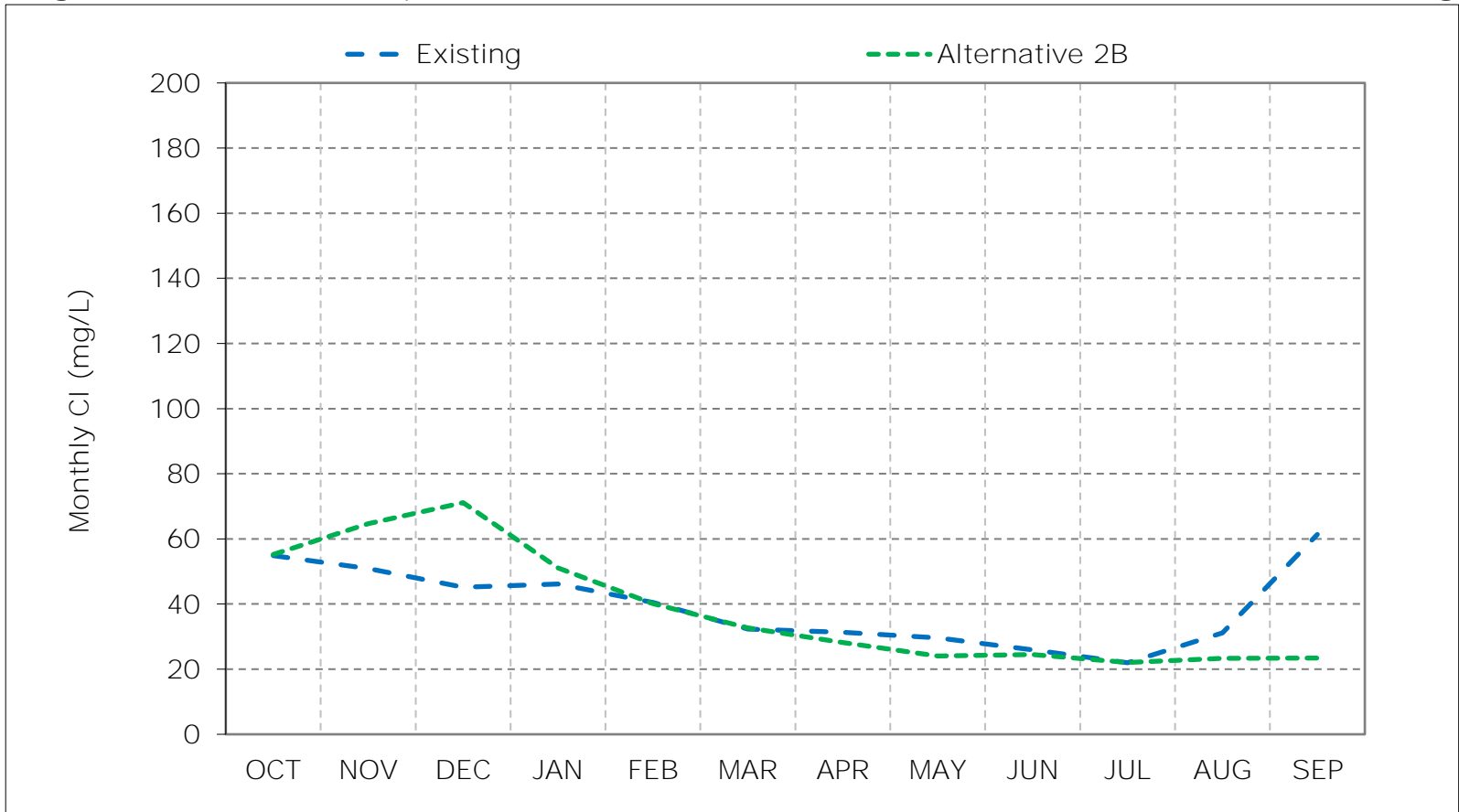
d Positive differences are highted in red color which indicate increase in Chloride (Cl).

Figure 6-1. San Joaquin River at Prisoners Point Chloride, 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 water year - year type sorting.

Figure 6-2. San Joaquin River at Prisoners Point Chloride, Wet Year Average Cl

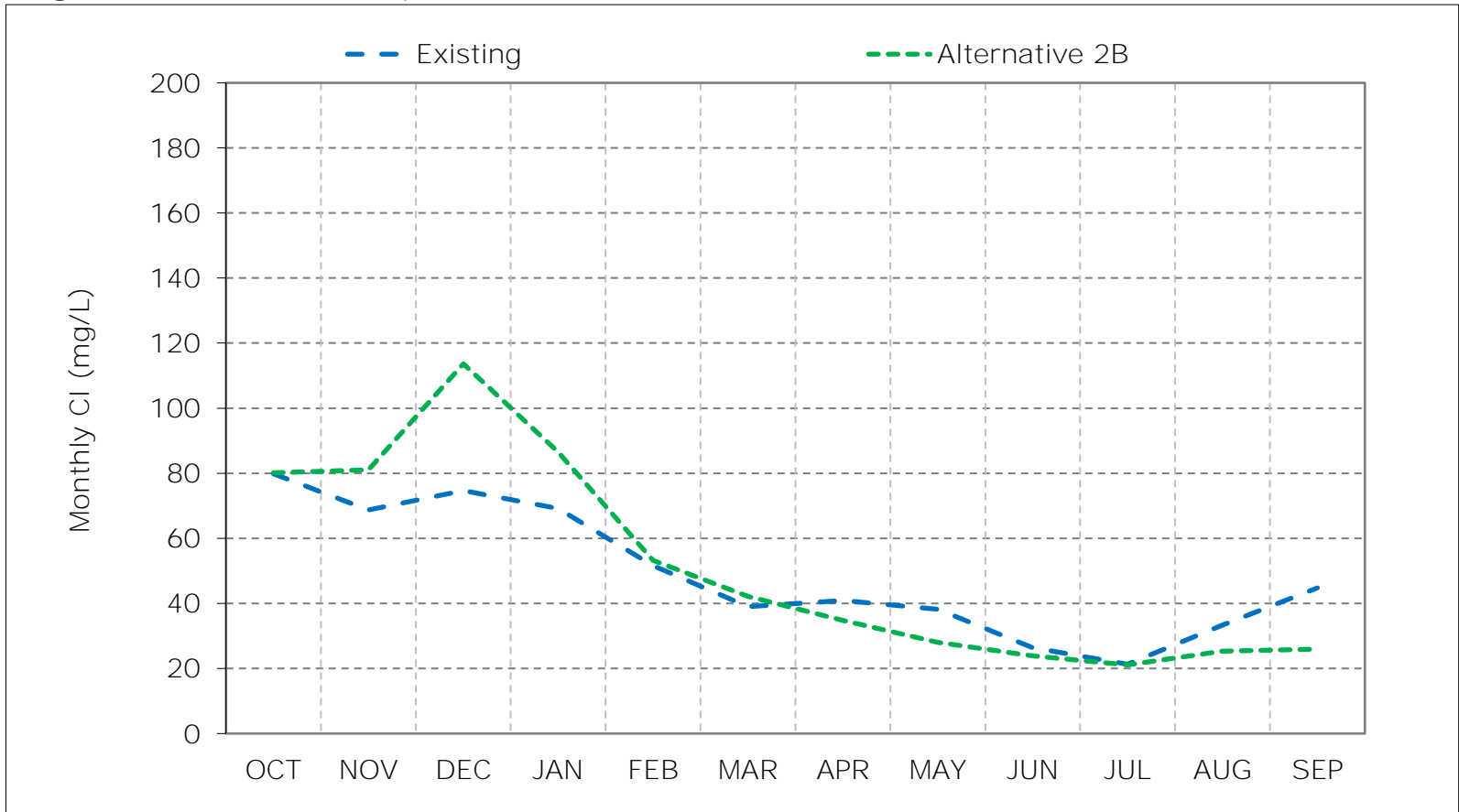


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



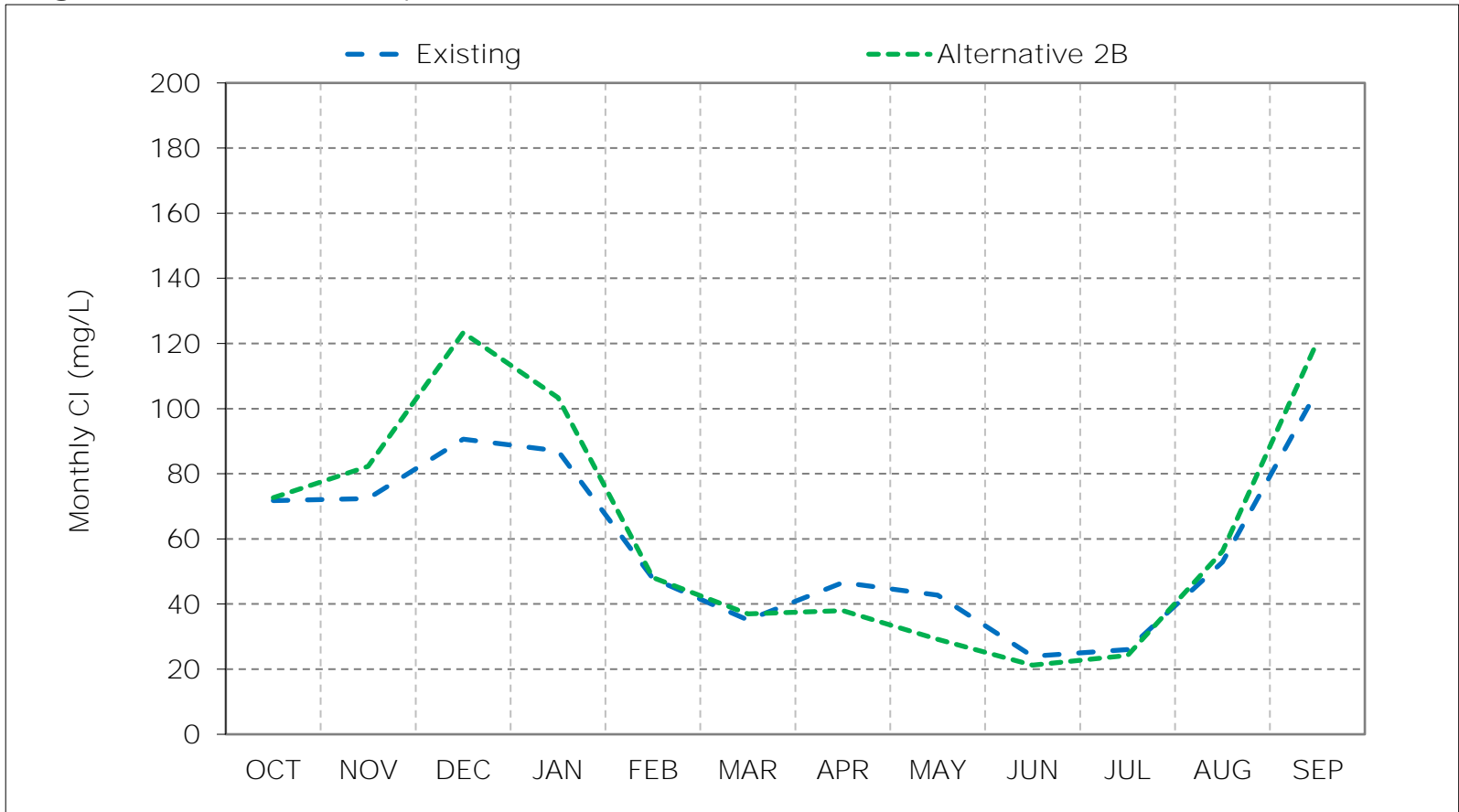
Figure 6-3. San Joaquin River at Prisoners Point Chloride, Above Normal Year Average C



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

\*These results are displayed with water year - year type sorting.

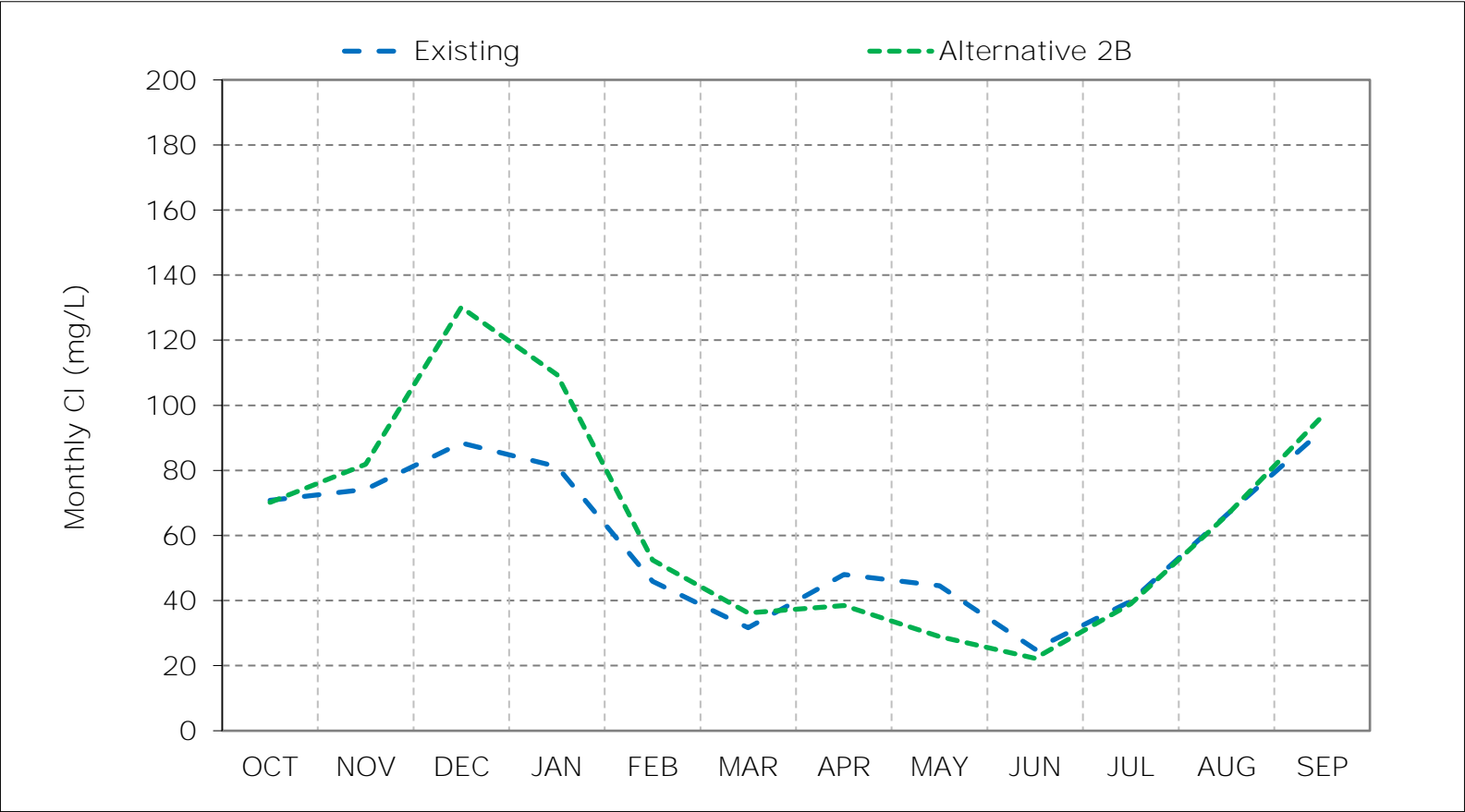
Figure 6-4. San Joaquin River at Prisoners Point Chloride, Below Normal Year Average C



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

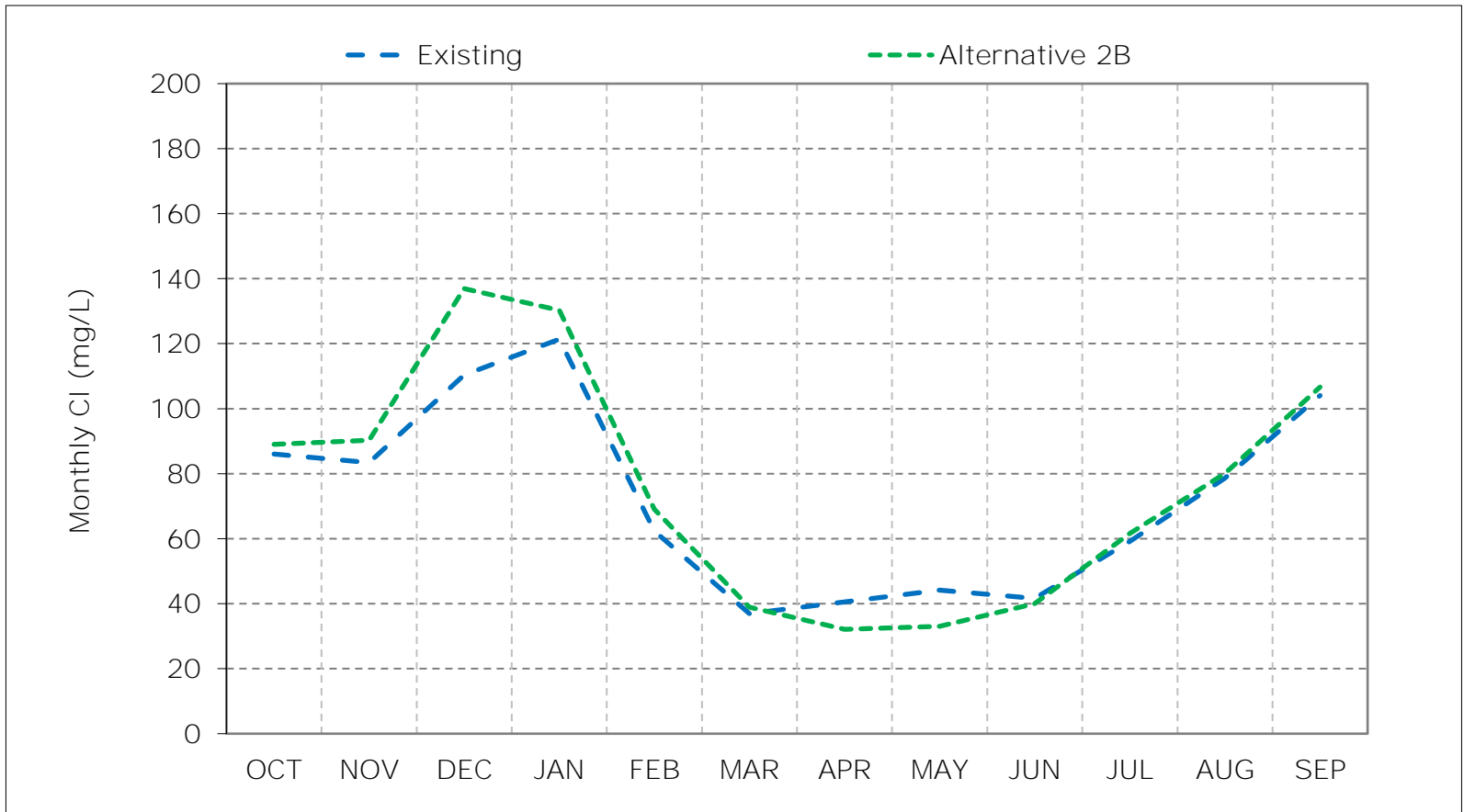
\*These results are displayed with water year - year type sorting.

Figure 6-5. San Joaquin River at Prisoners Point Chloride, 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 water year - year type sorting.

Figure 6-6. San Joaquin River at Prisoners Point Chloride, 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 water year - year type sorting.

Figure 6-7. San Joaquin River at Prisoners Point Chloride, January CI

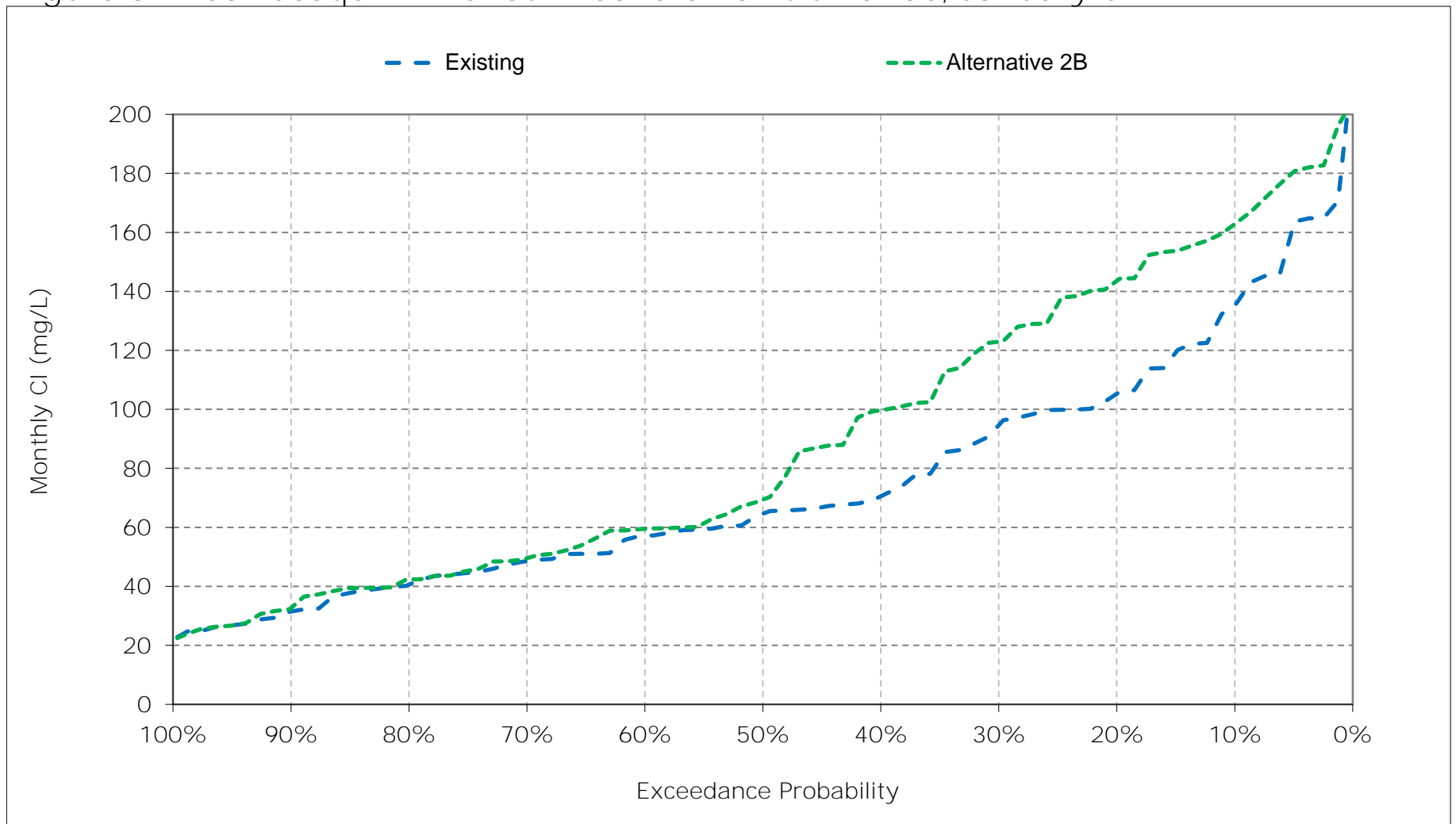


Figure 6-8. San Joaquin River at Prisoners Point Chloride, February CI

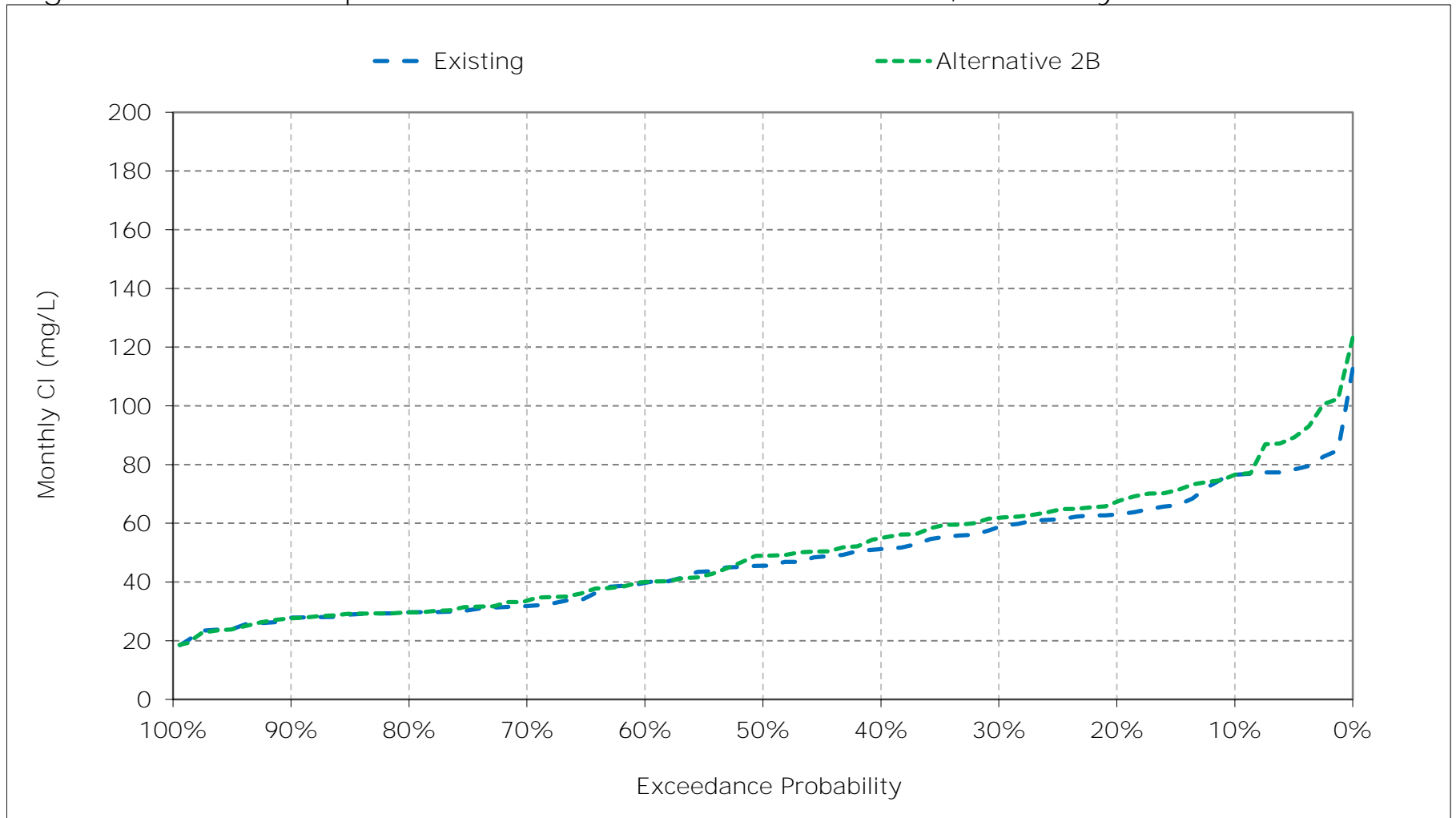


Figure 6-9. San Joaquin River at Prisoners Point Chloride, March CI

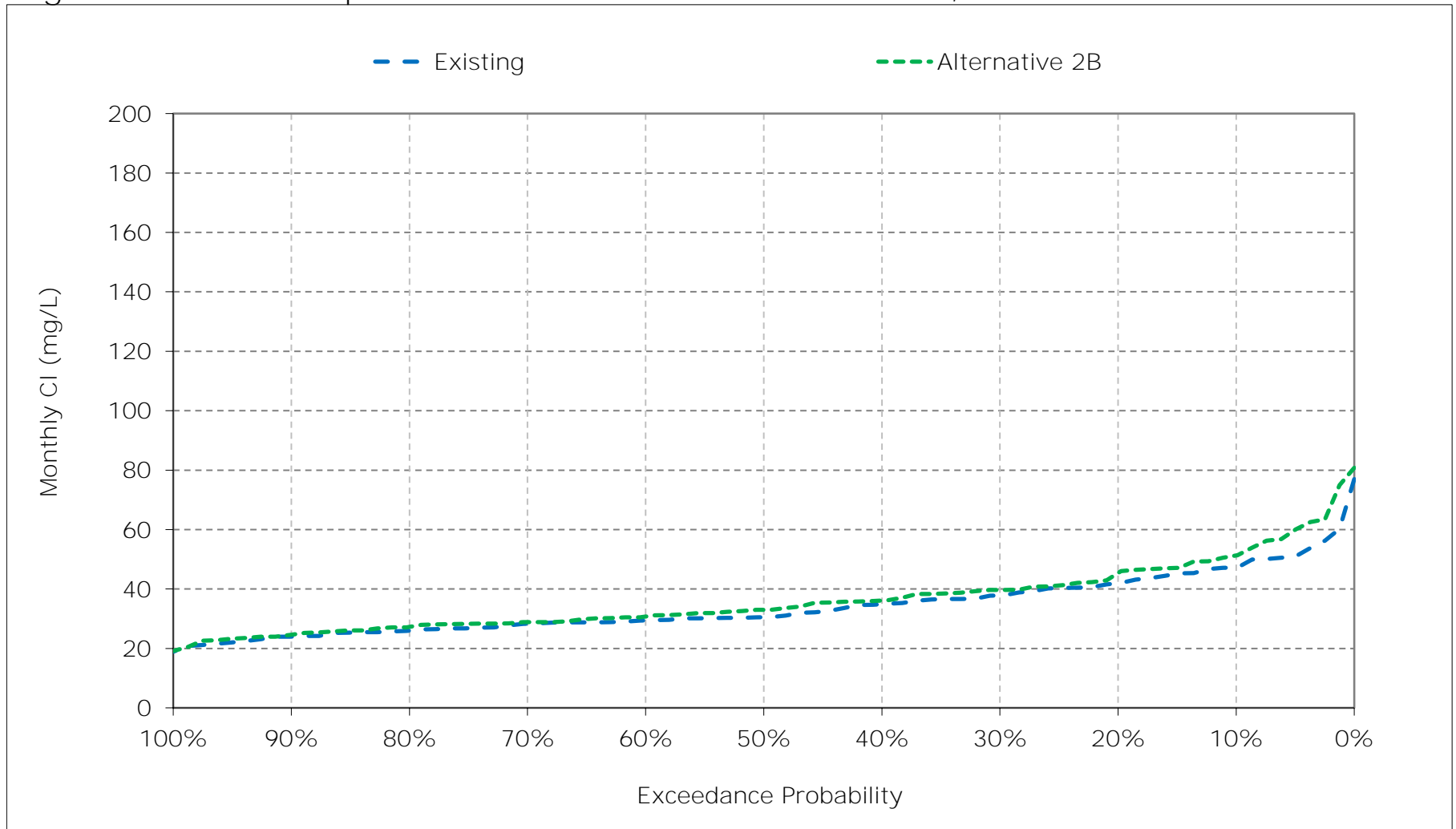


Figure 6-10. San Joaquin River at Prisoners Point Chloride, April CI

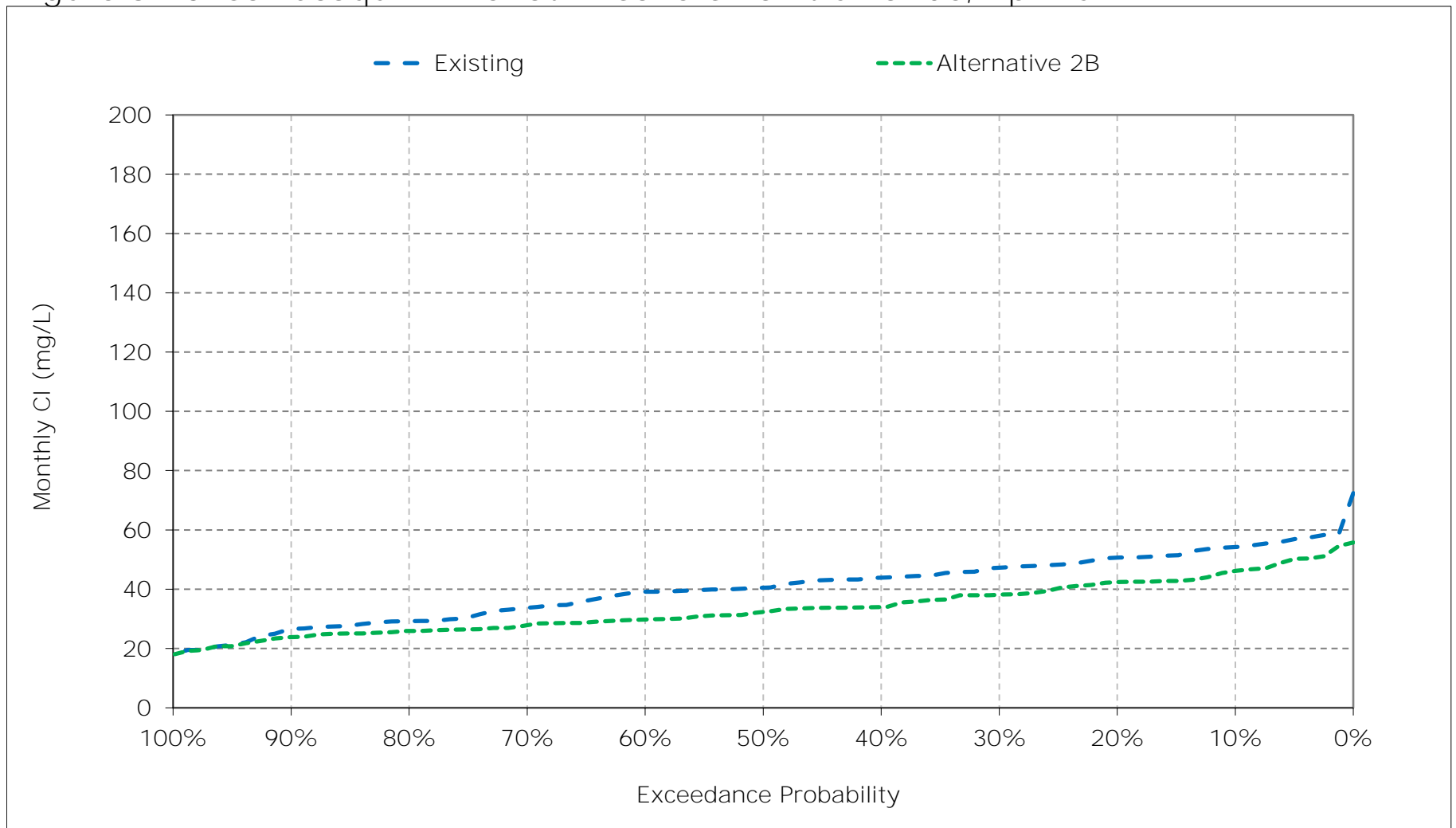




Figure 6-11. San Joaquin River at Prisoners Point Chloride, May CI

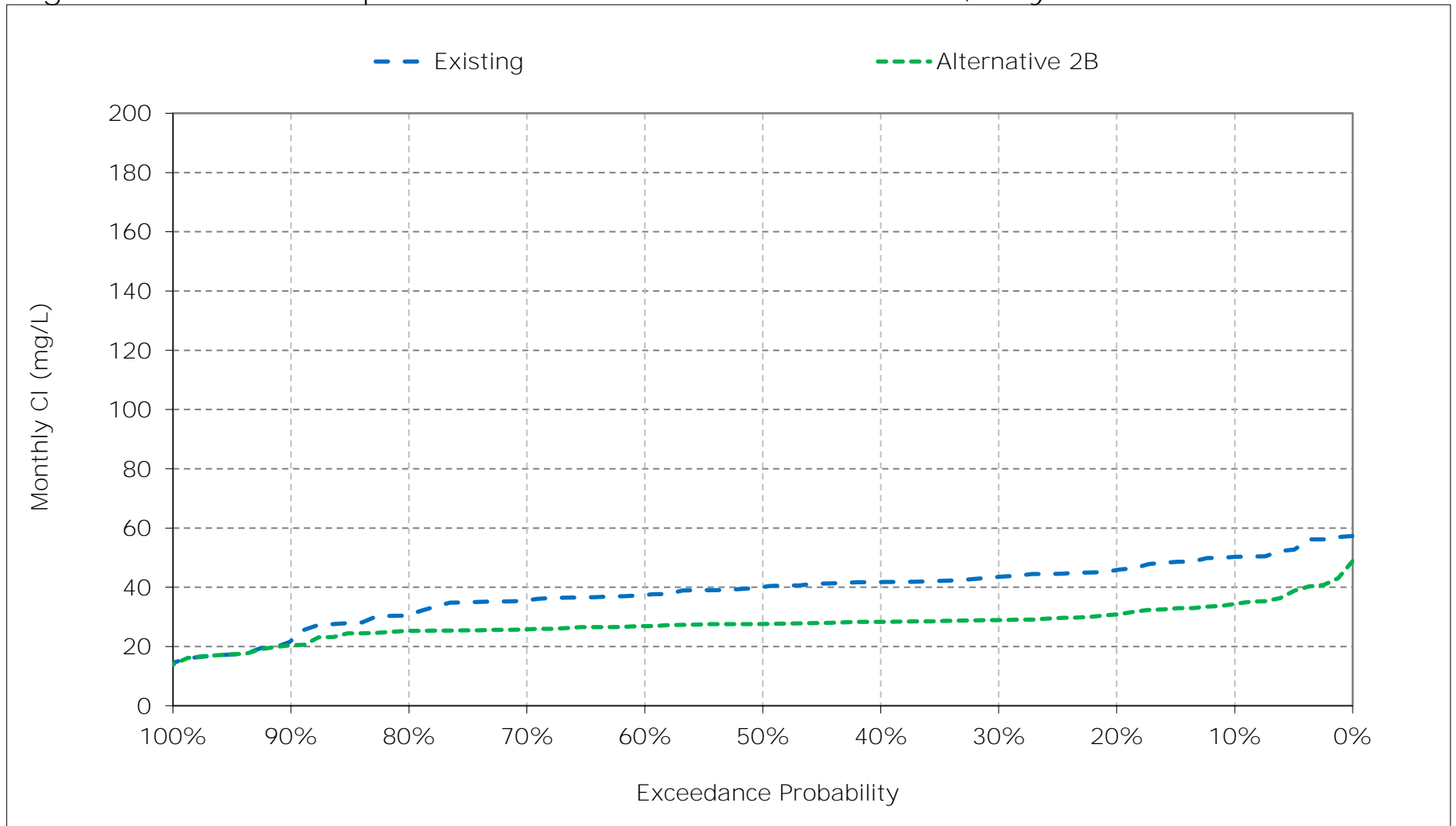


Figure 6-12. San Joaquin River at Prisoners Point Chloride, June CI

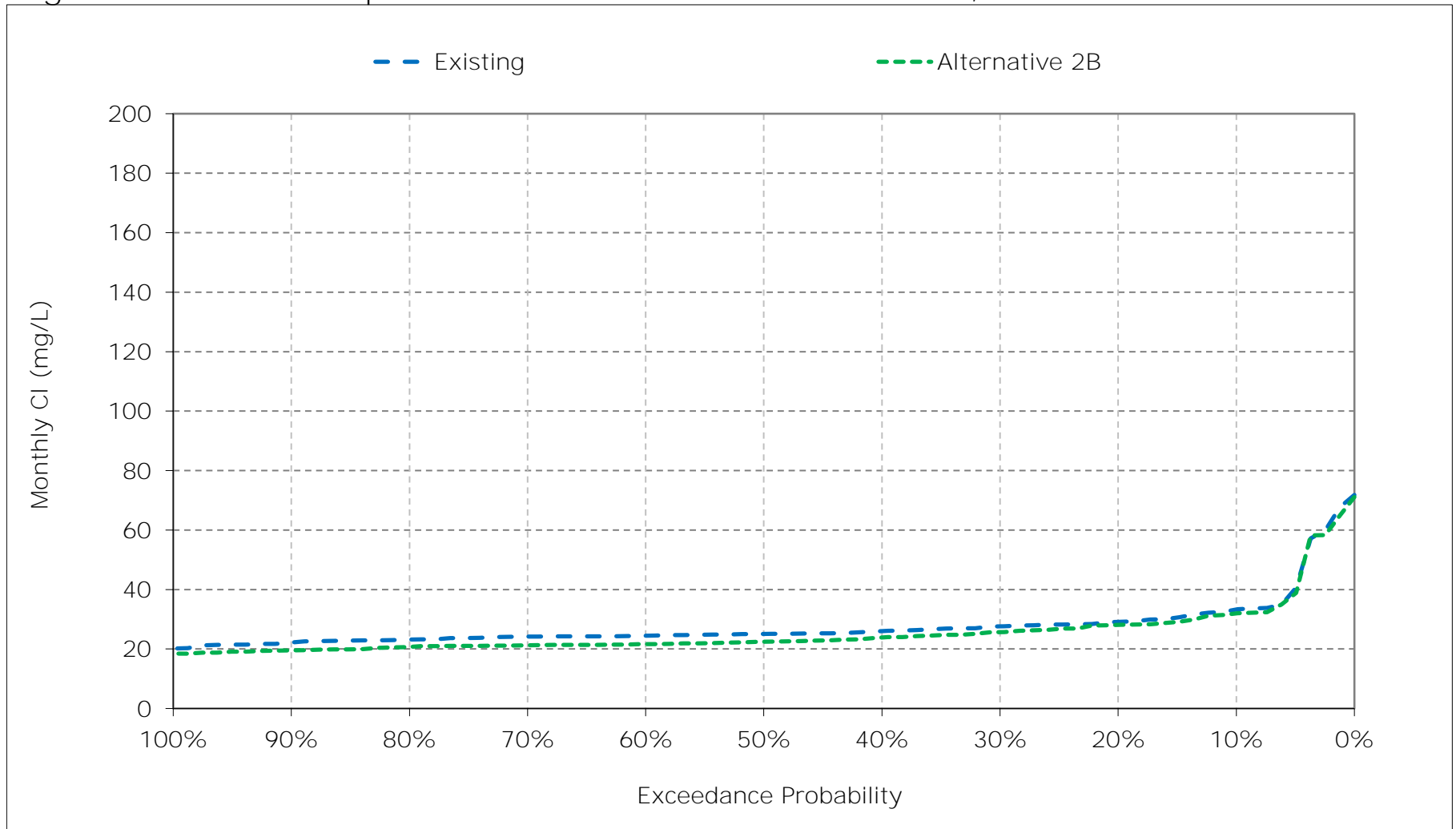


Figure 6-13. San Joaquin River at Prisoners Point Chloride, July CI

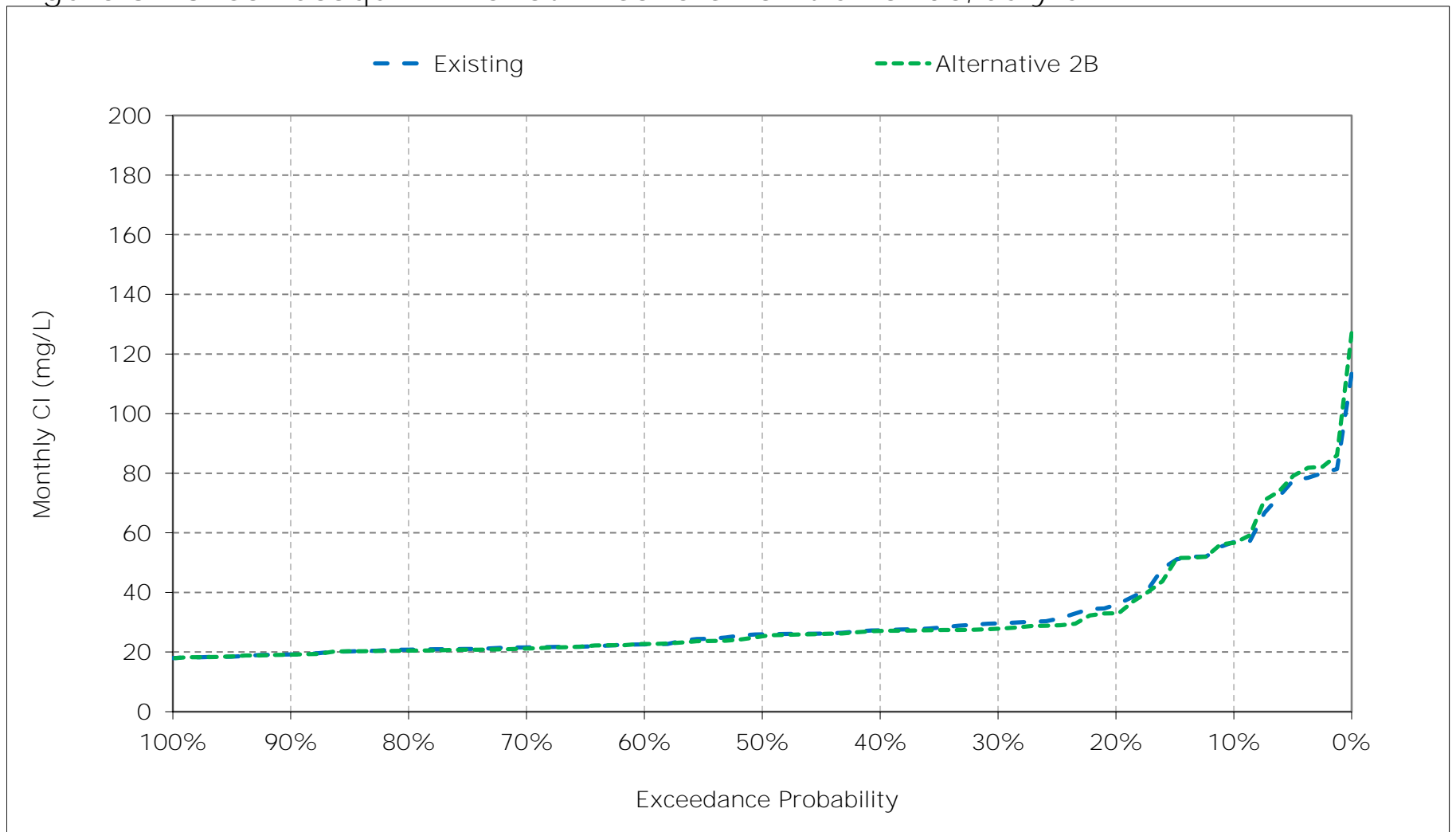


Figure 6-14. San Joaquin River at Prisoners Point Chloride, August CI

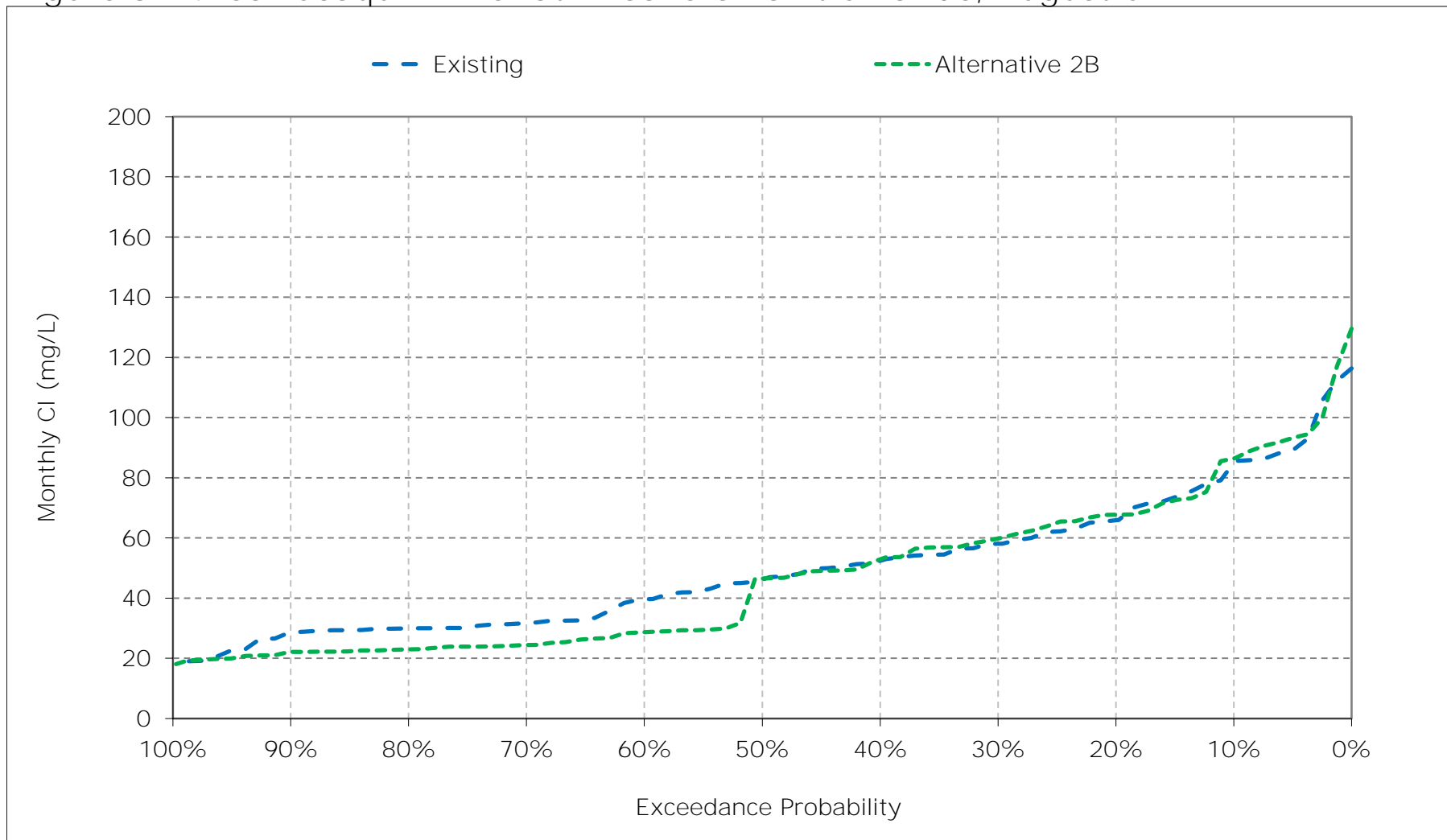


Figure 6-15. San Joaquin River at Prisoners Point Chloride, September CI

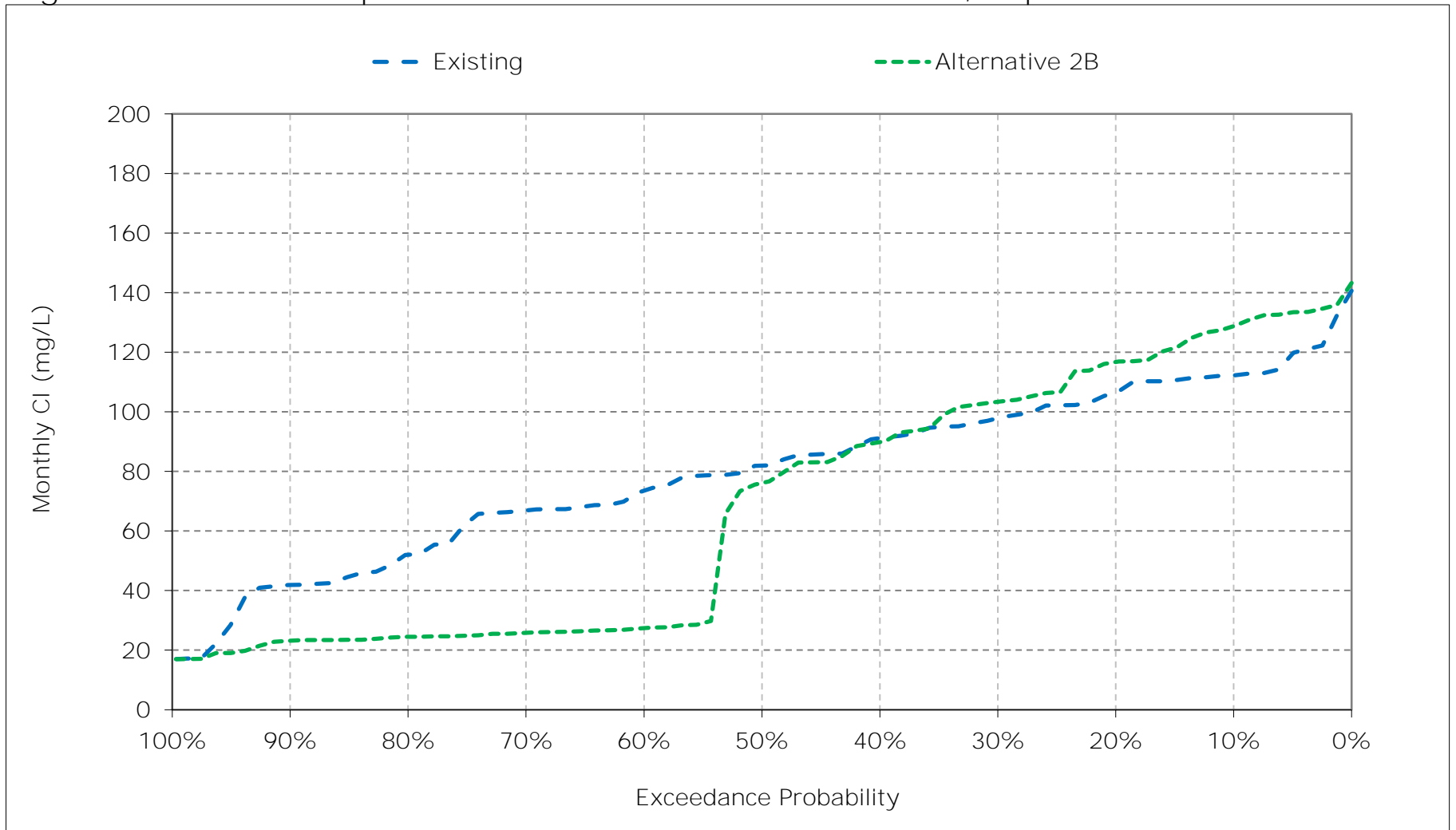


Figure 6-16. San Joaquin River at Prisoners Point Chloride, October CI

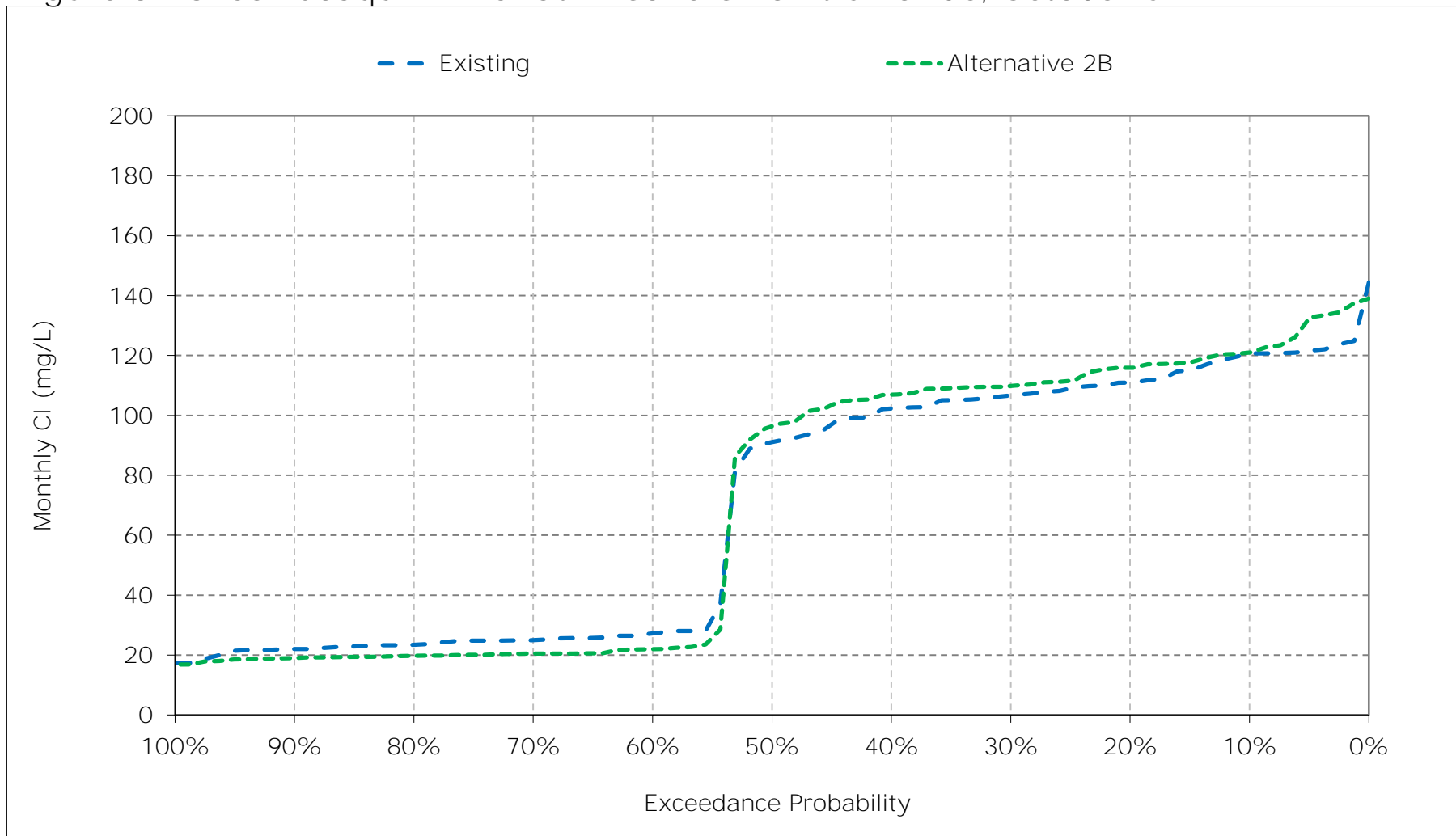


Figure 6-17. San Joaquin River at Prisoners Point Chloride, November CI

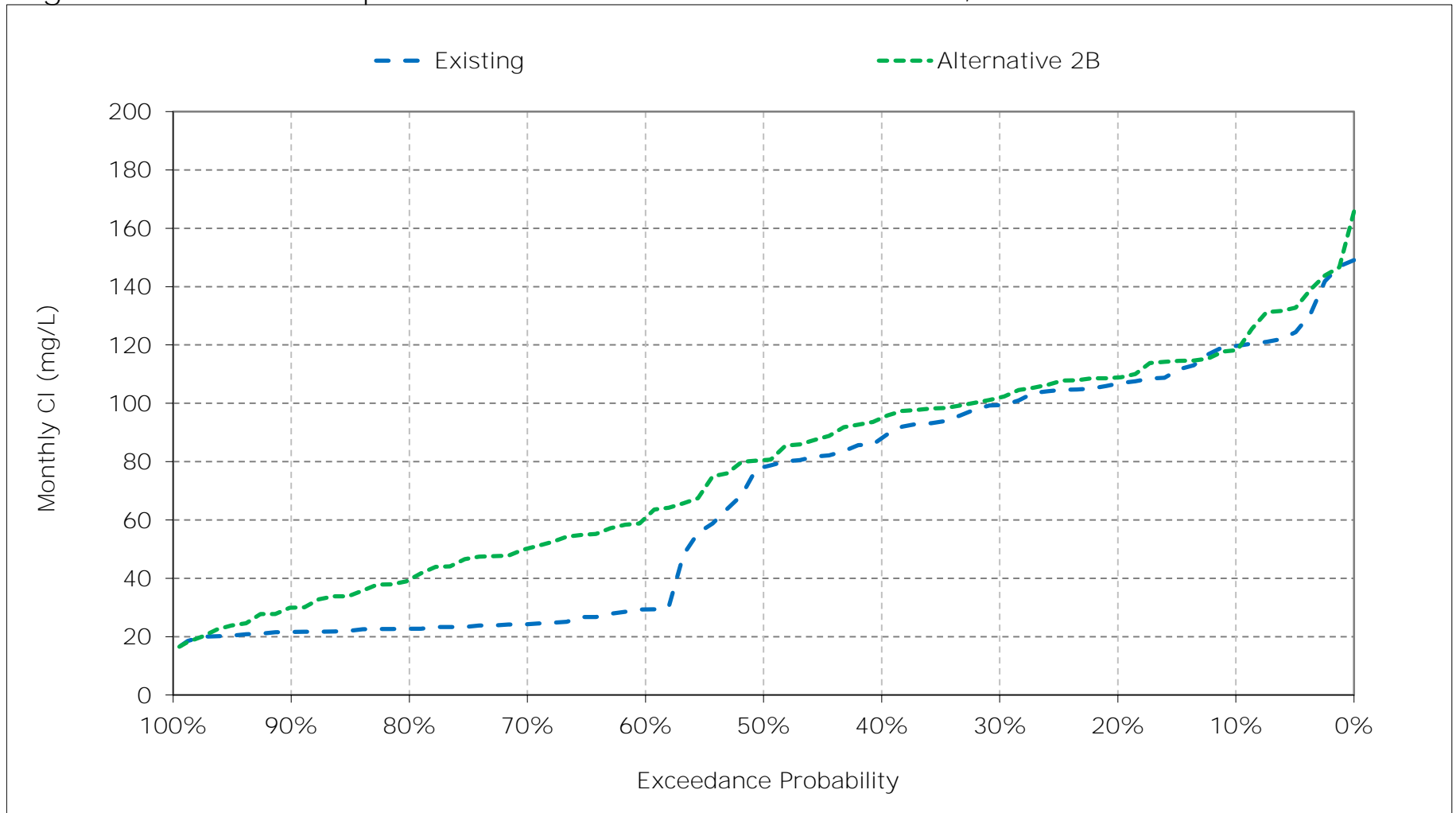


Figure 6-18. San Joaquin River at Prisoners Point Chloride, December CI

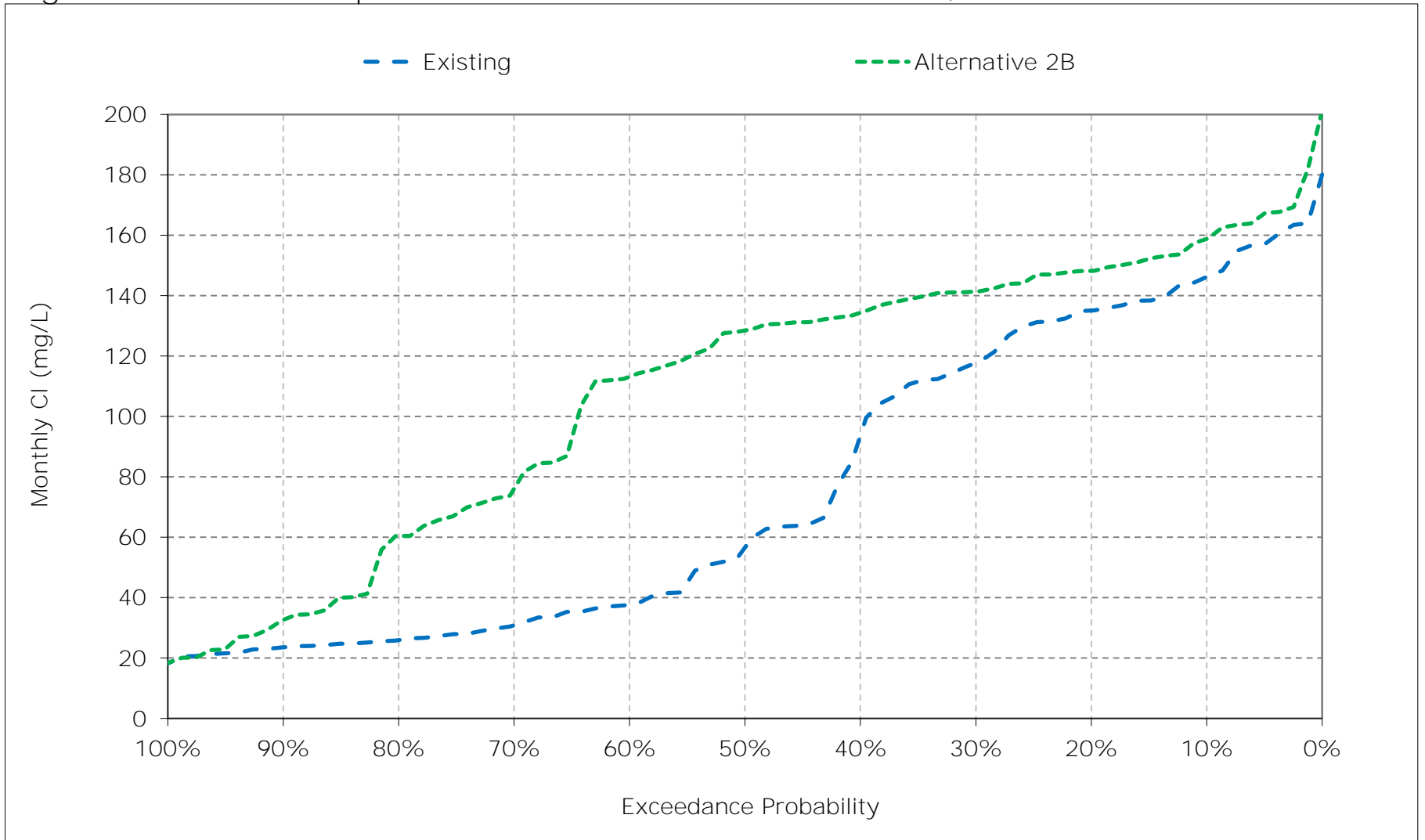




Table 7-1. Old River at Highway 4 Chloride, Monthly Cl

Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	165	161	180	173	109	74	69	69	53	71	112	146
20%	157	143	169	155	96	66	64	65	43	50	87	138
30%	152	135	156	124	89	55	58	61	40	45	76	128
40%	143	127	125	110	81	52	56	60	38	40	71	118
50%	131	115	71	97	70	49	53	58	38	33	60	109
60%	41	42	55	84	60	46	50	55	36	29	54	97
70%	36	31	39	72	54	42	46	51	35	28	44	91
80%	33	29	31	56	49	39	35	44	31	27	41	78
90%	30	28	30	50	43	32	25	21	29	26	38	69
Long Term												
Full Simulation Period <sup>a</sup>	98	91	98	107	74	52	51	53	40	43	67	106
Water Year Types <sup>b</sup>												
Wet (32%)	78	68	63	69	61	45	36	38	32	28	41	83
Above Normal (15%)	111	97	97	104	78	51	50	54	37	28	45	73
Below Normal (17%)	102	96	113	124	70	49	54	58	37	36	70	137
Dry (22%)	98	100	114	115	76	52	61	62	40	53	90	120
Critical (15%)	121	115	135	161	99	69	67	66	66	80	104	133

Alternative 2B

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	170	158	185	219	125	88	73	61	46	72	116	163
20%	161	145	177	197	105	70	67	52	37	49	89	148
30%	154	135	173	170	93	62	63	50	33	42	78	132
40%	146	129	166	146	83	58	56	48	32	37	69	116
50%	135	116	159	112	73	54	54	46	30	31	62	101
60%	28	75	144	94	67	49	51	43	30	29	41	44
70%	27	64	115	77	56	46	47	40	29	27	32	41
80%	26	55	95	65	50	42	42	38	28	27	30	36
90%	25	42	43	53	44	36	31	30	27	26	28	33
Long Term												
Full Simulation Period <sup>a</sup>	96	102	138	128	78	57	54	46	35	42	62	90
Water Year Types <sup>b</sup>												
Wet (32%)	76	84	99	78	61	49	39	35	29	28	31	34
Above Normal (15%)	110	109	142	130	80	58	53	43	31	27	34	41
Below Normal (17%)	100	108	151	148	72	54	56	46	30	32	73	155
Dry (22%)	95	107	160	151	86	60	64	53	33	52	89	124
Critical (15%)	124	120	167	174	107	71	68	62	61	82	106	136

Alternative 2B minus Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6	-3	5	46	15	14	4	-8	-6	1	3	16
20%	4	2	8	42	9	4	3	-13	-6	-1	2	10
30%	1	0	17	45	4	7	4	-11	-6	-2	2	4
40%	2	2	42	36	3	5	0	-11	-7	-2	-1	-2
50%	5	0	88	15	3	6	0	-11	-7	-2	2	-8
60%	-13	34	89	9	7	3	1	-11	-7	0	-13	-53
70%	-10	32	76	4	2	4	1	-10	-6	-1	-12	-51
80%	-8	26	64	9	1	3	7	-6	-4	0	-11	-41
90%	-5	14	13	3	0	4	6	9	-2	0	-10	-37
Long Term												
Full Simulation Period <sup>a</sup>	-1	11	39	21	4	5	3	-7	-5	-1	-4	-16
Water Year Types <sup>b</sup>												
Wet (32%)	-2	16	36	9	1	4	4	-3	-3	0	-11	-49
Above Normal (15%)	-1	13	45	27	2	7	2	-11	-6	-1	-11	-32
Below Normal (17%)	-2	12	38	24	2	5	2	-12	-7	-4	3	18
Dry (22%)	-3	7	46	35	10	8	2	-10	-7	-1	-1	4
Critical (15%)	3	5	32	13	8	2	2	-4	-5	2	1	2

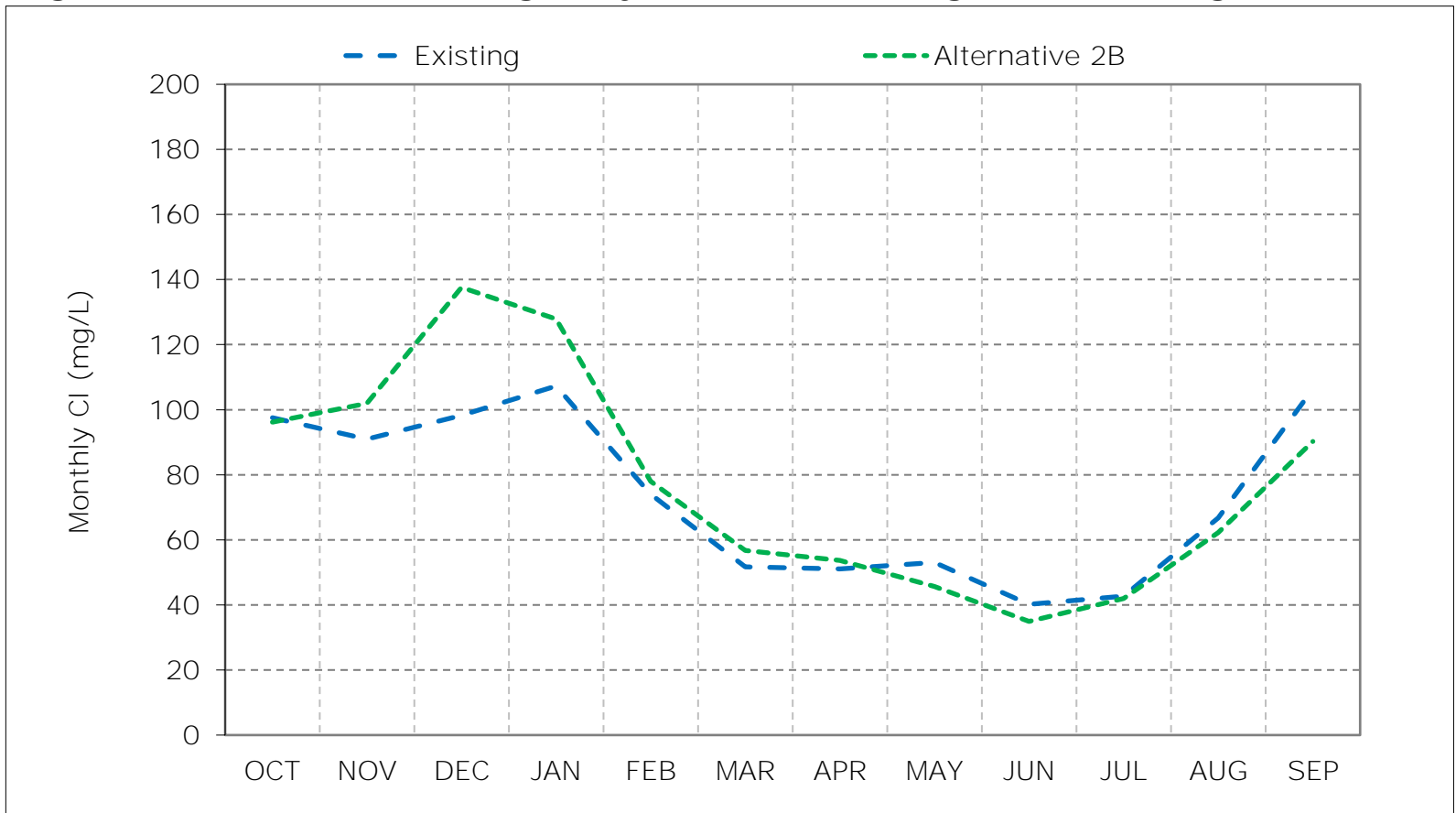
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Chloride (Cl).

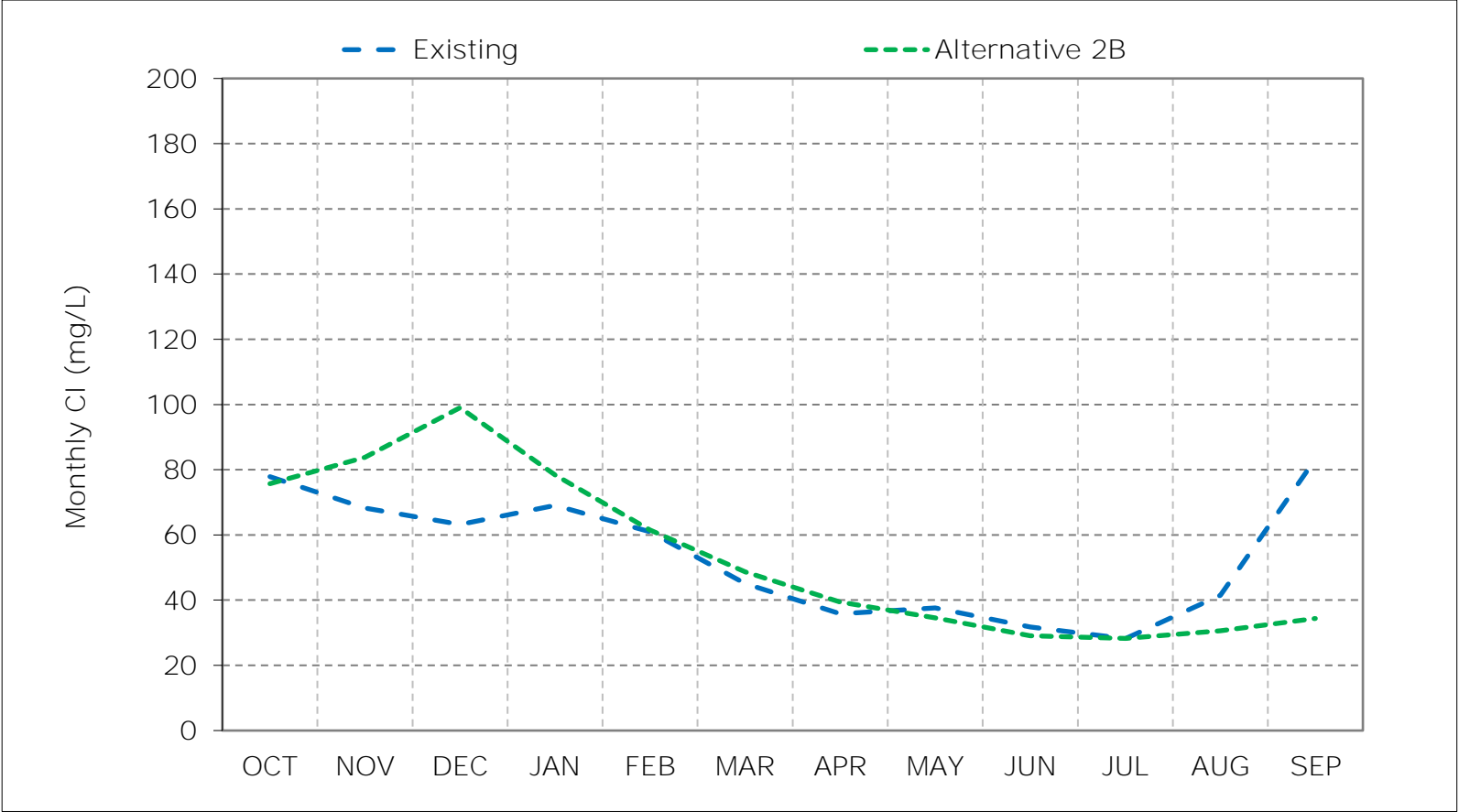
Figure 7-1. Old River at Highway 4 Chloride, Long-Term Average CI



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

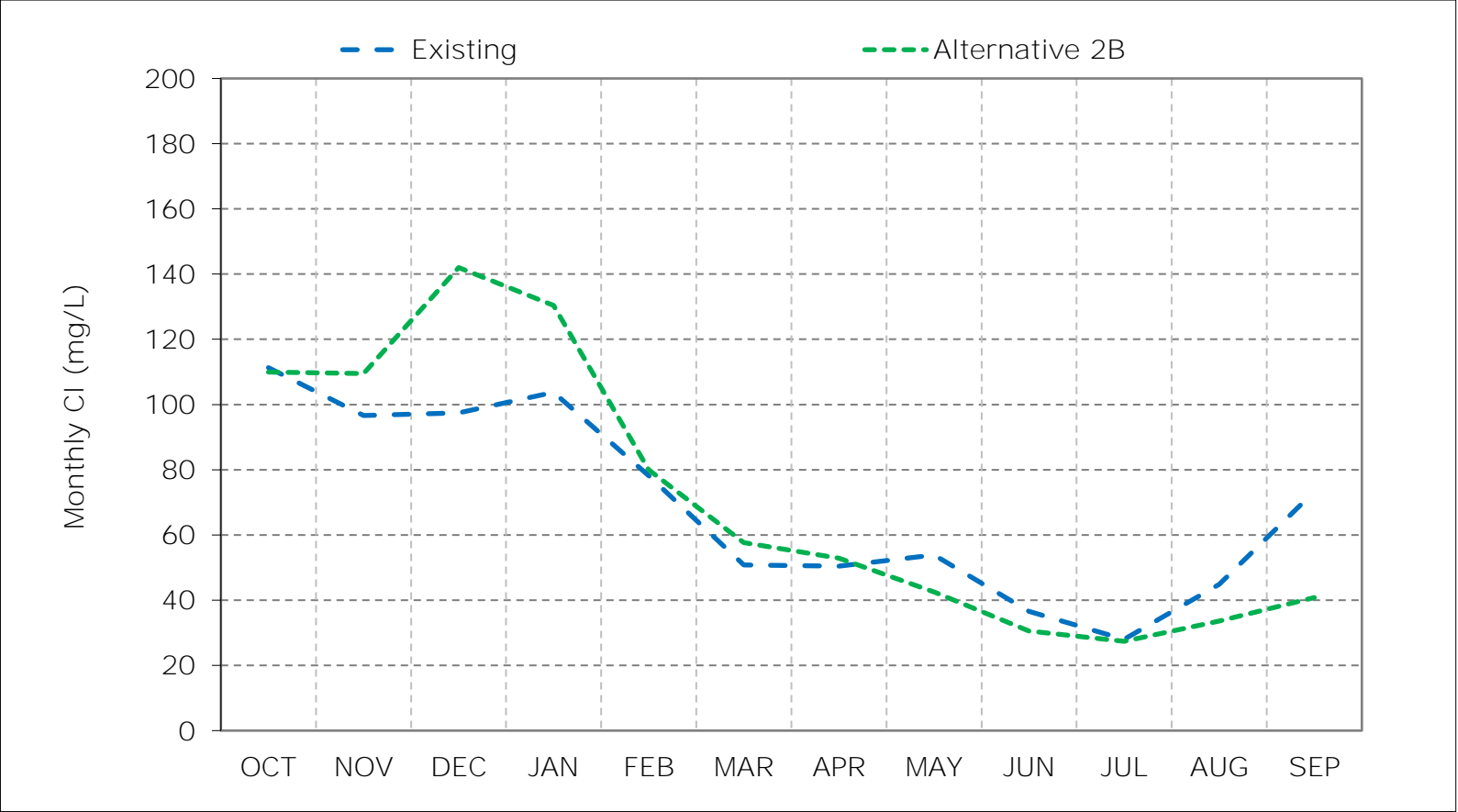
\*These results are displayed with water year - year type sorting.

Figure 7-2. Old River at Highway 4 Chloride, Wet Year Average Cl



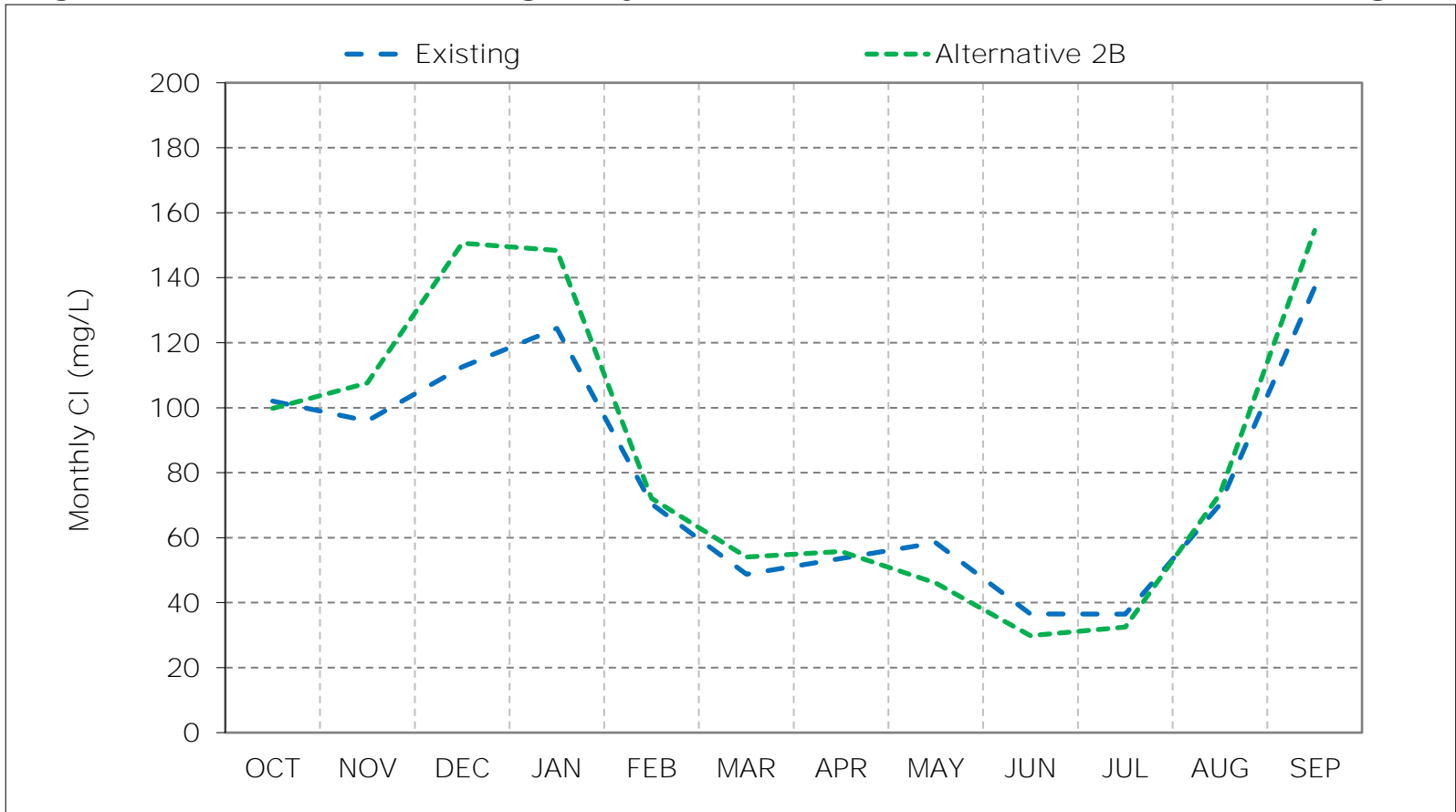
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 7-3. Old River at Highway 4 Chloride, 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 water year - year type sorting.

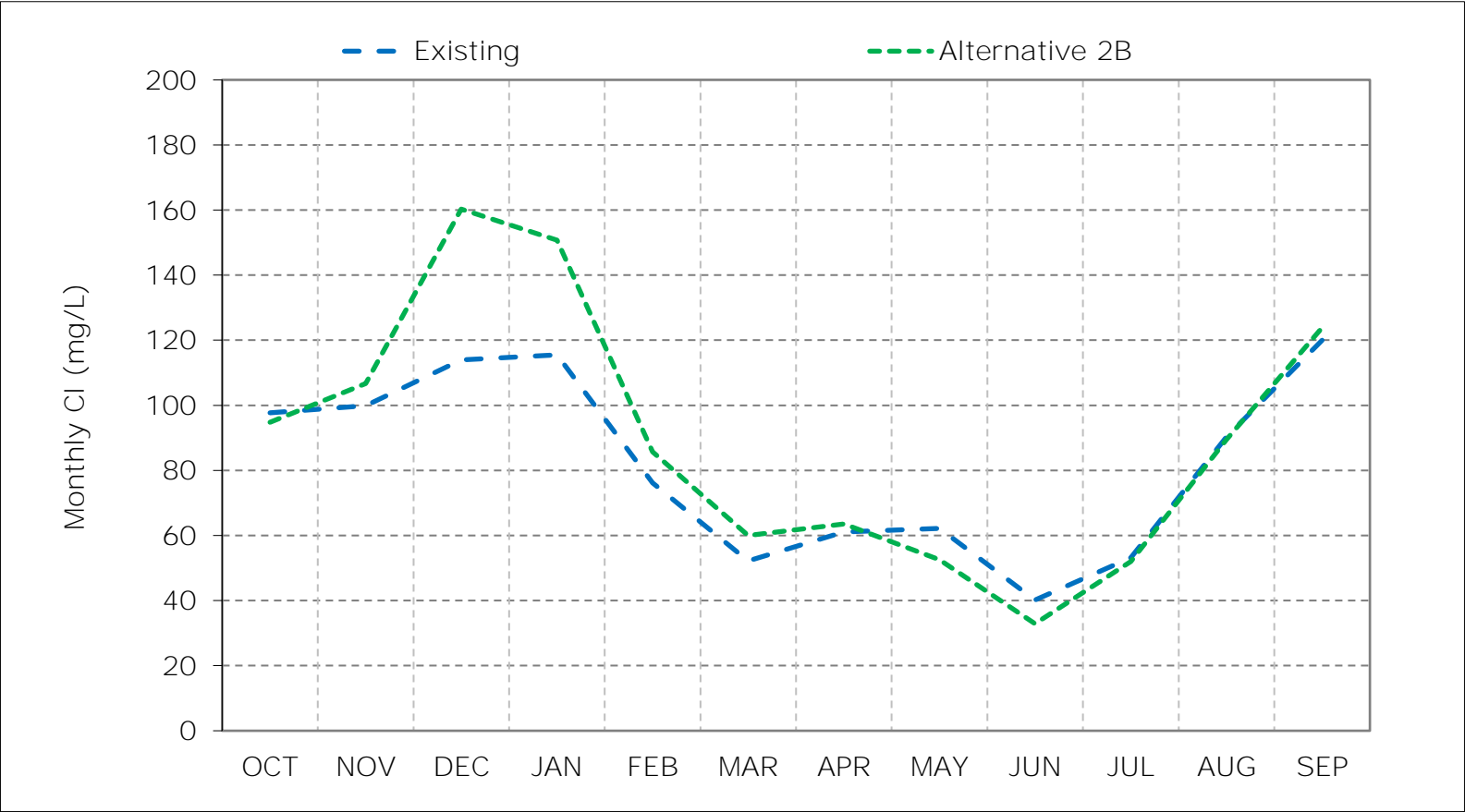
Figure 7-4. Old River at Highway 4 Chloride, Below Normal Year Average Cl



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

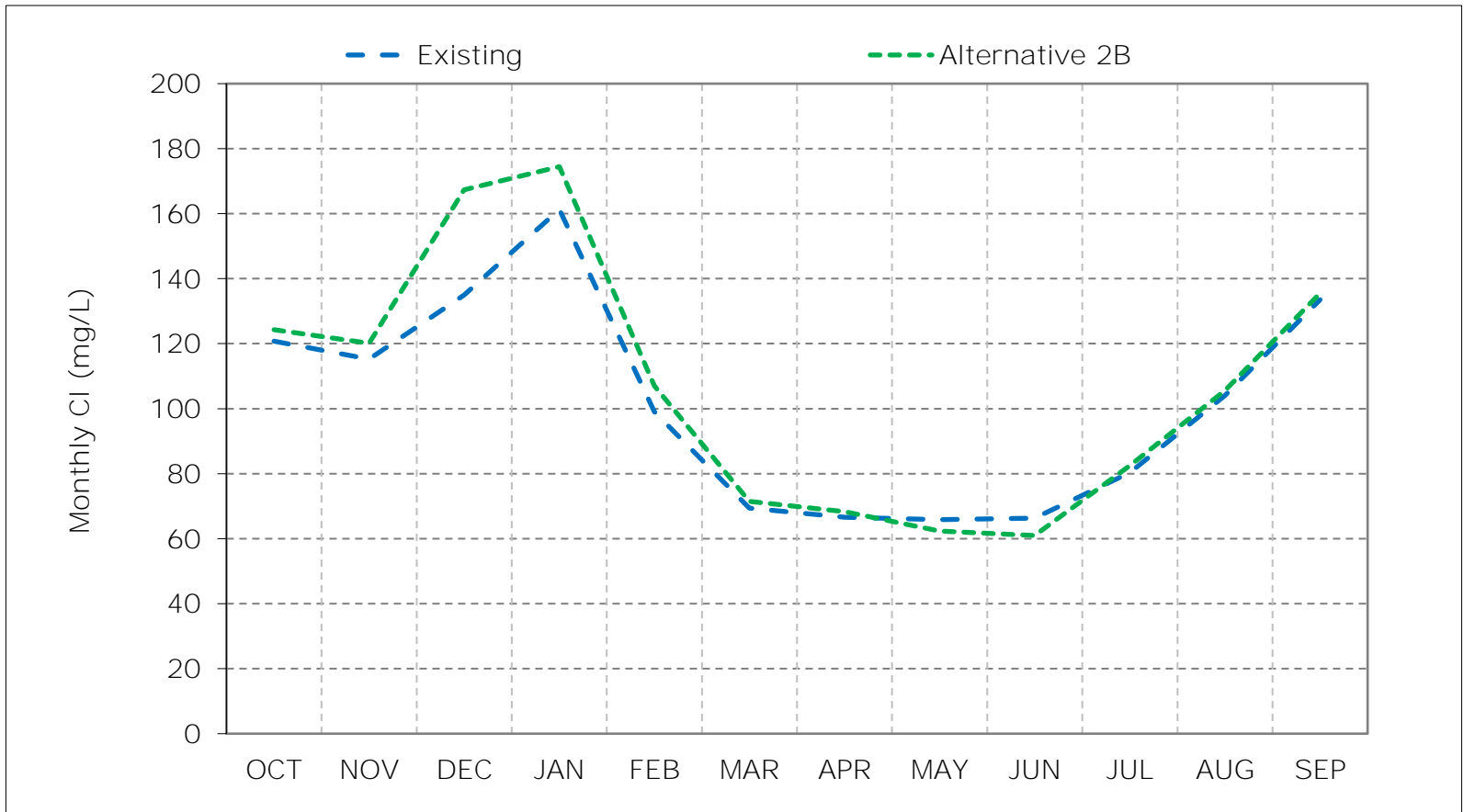
\*These results are displayed with water year - year type sorting.

Figure 7-5. Old River at Highway 4 Chloride, 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 water year - year type sorting.

Figure 7-6. Old River at Highway 4 Chloride, 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 water year - year type sorting.

Figure 7-7. Old River at Highway 4 Chloride, January CI

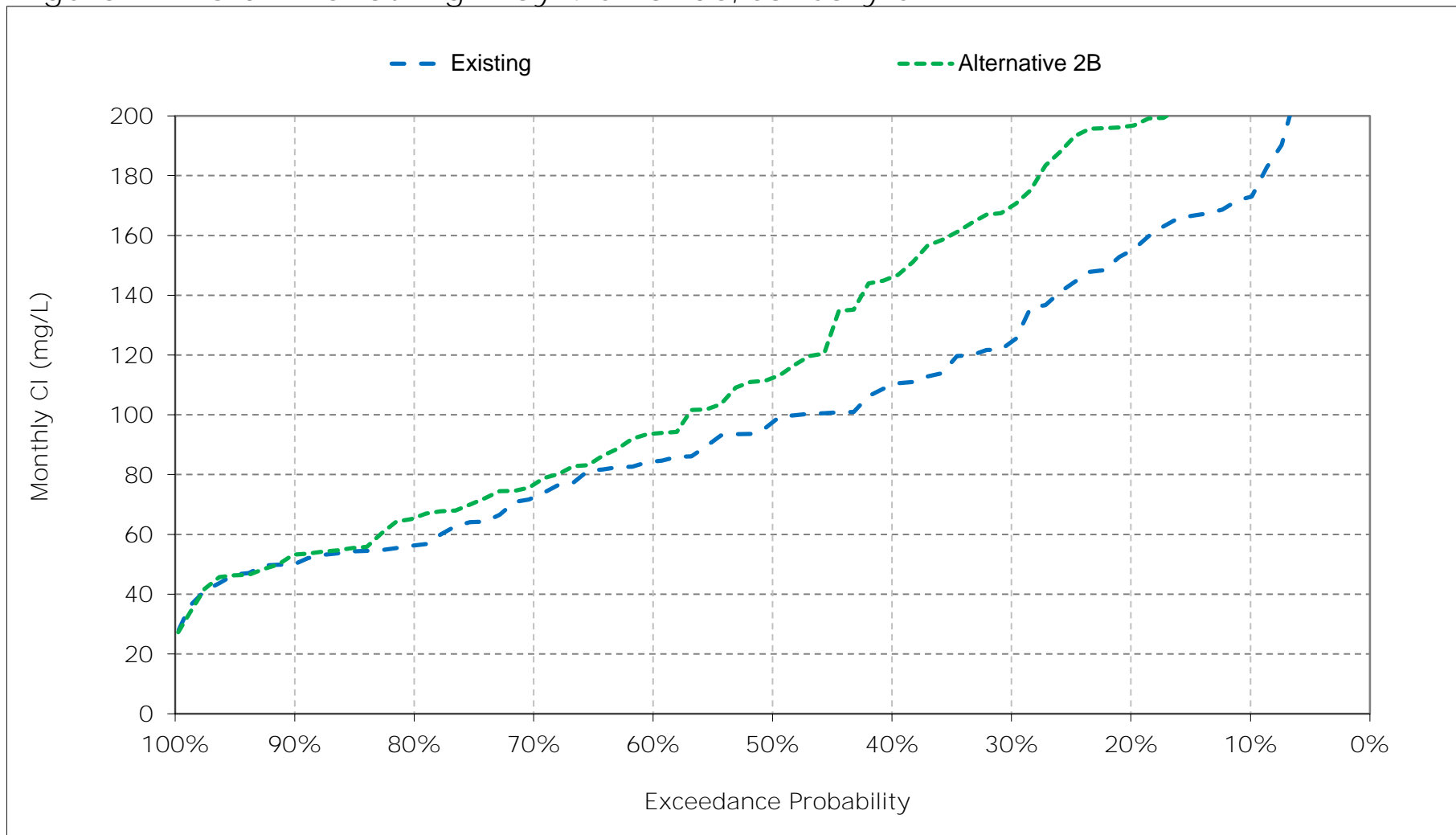




Figure 7-8. Old River at Highway 4 Chloride, February CI

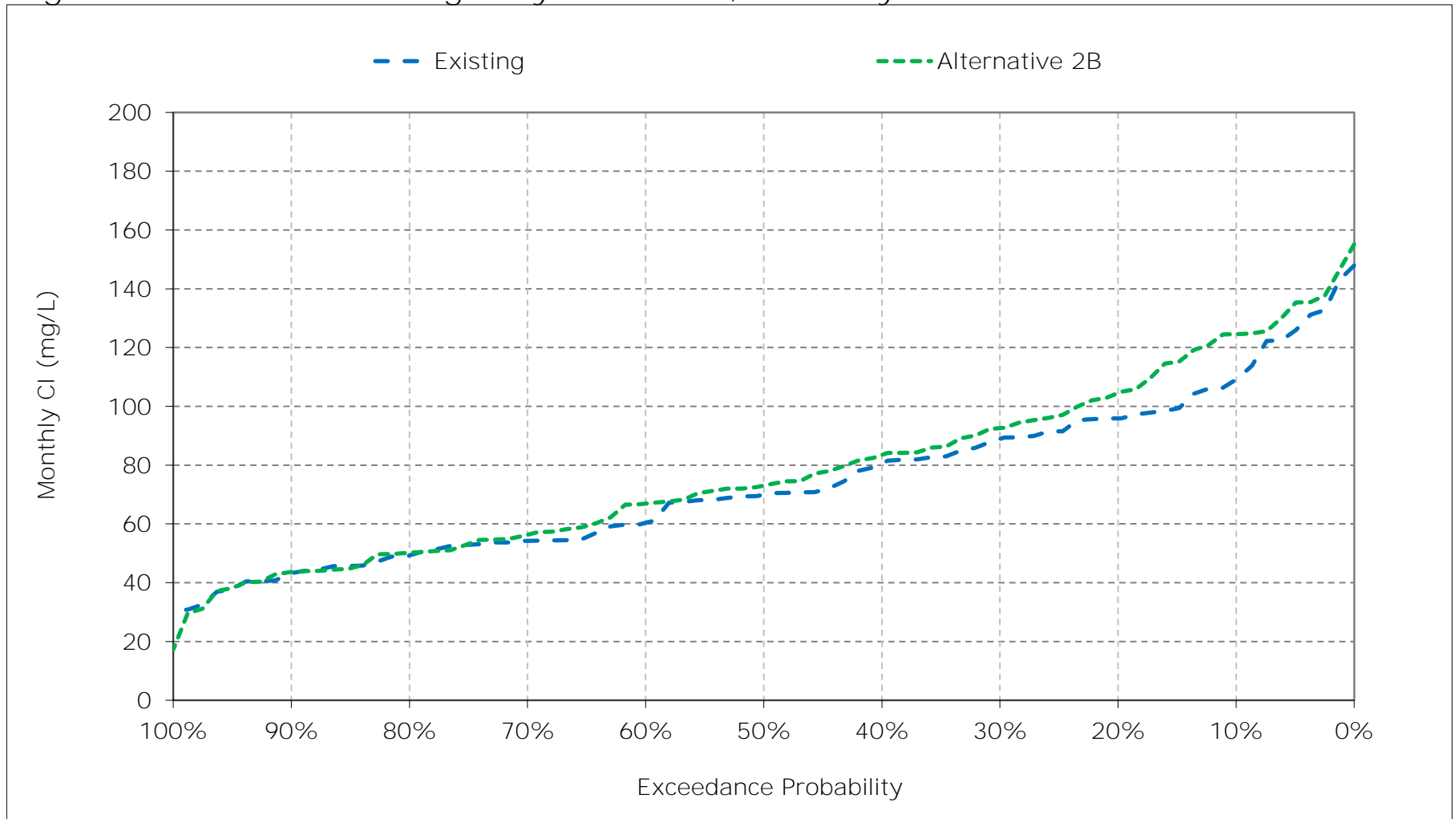


Figure 7-9. Old River at Highway 4 Chloride, March CI

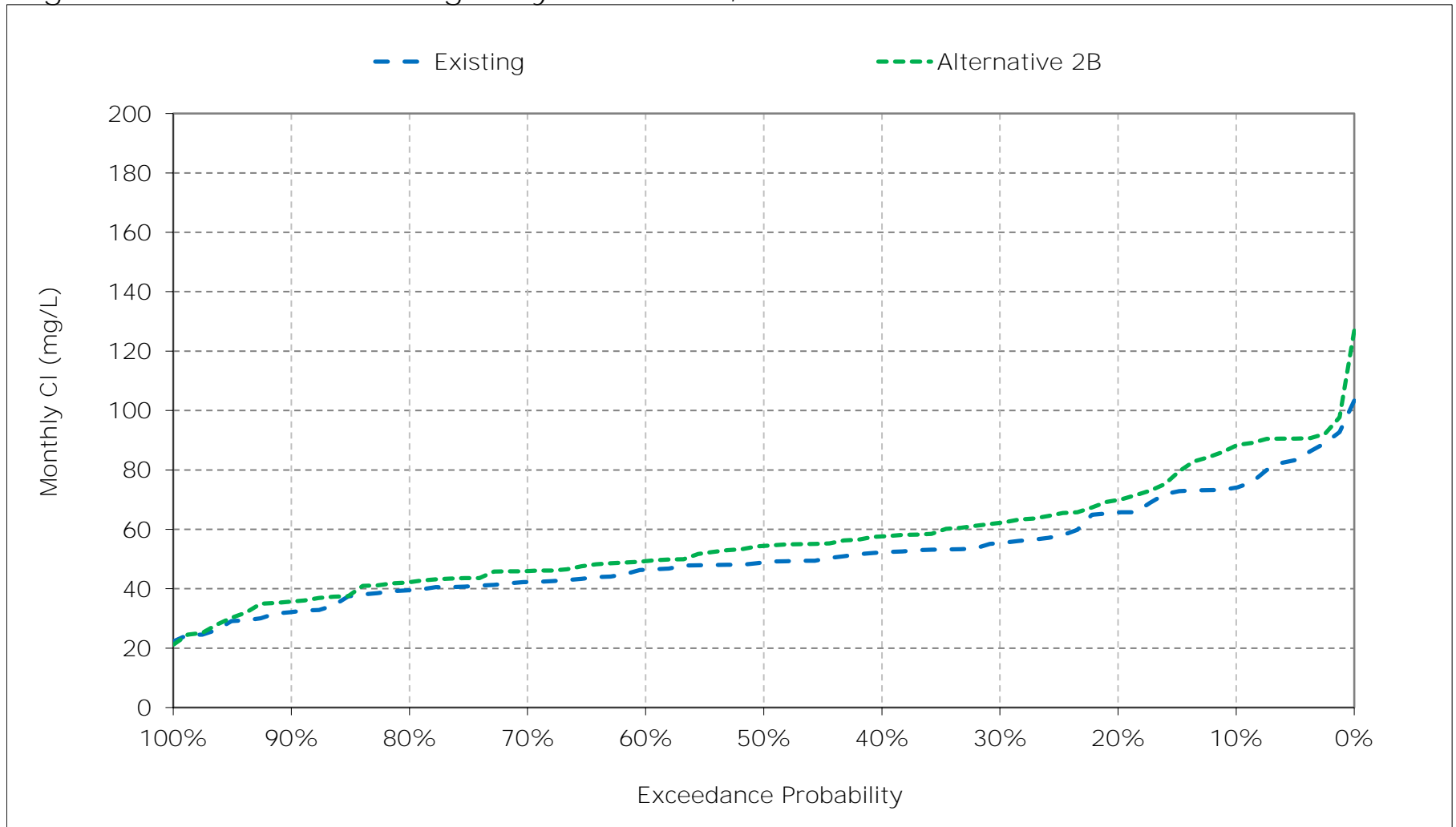


Figure 7-10. Old River at Highway 4 Chloride, April CI

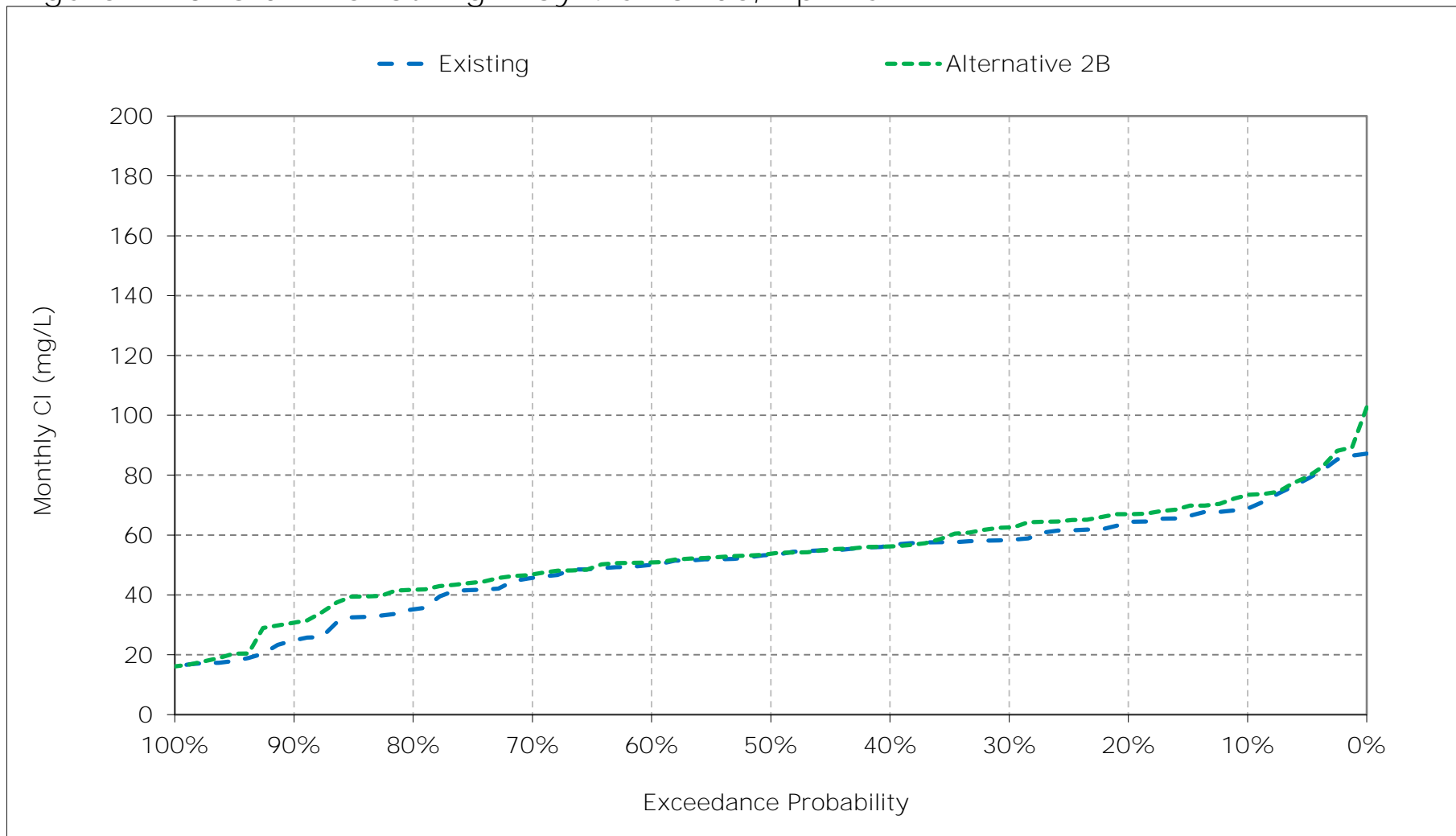


Figure 7-11. Old River at Highway 4 Chloride, May CI

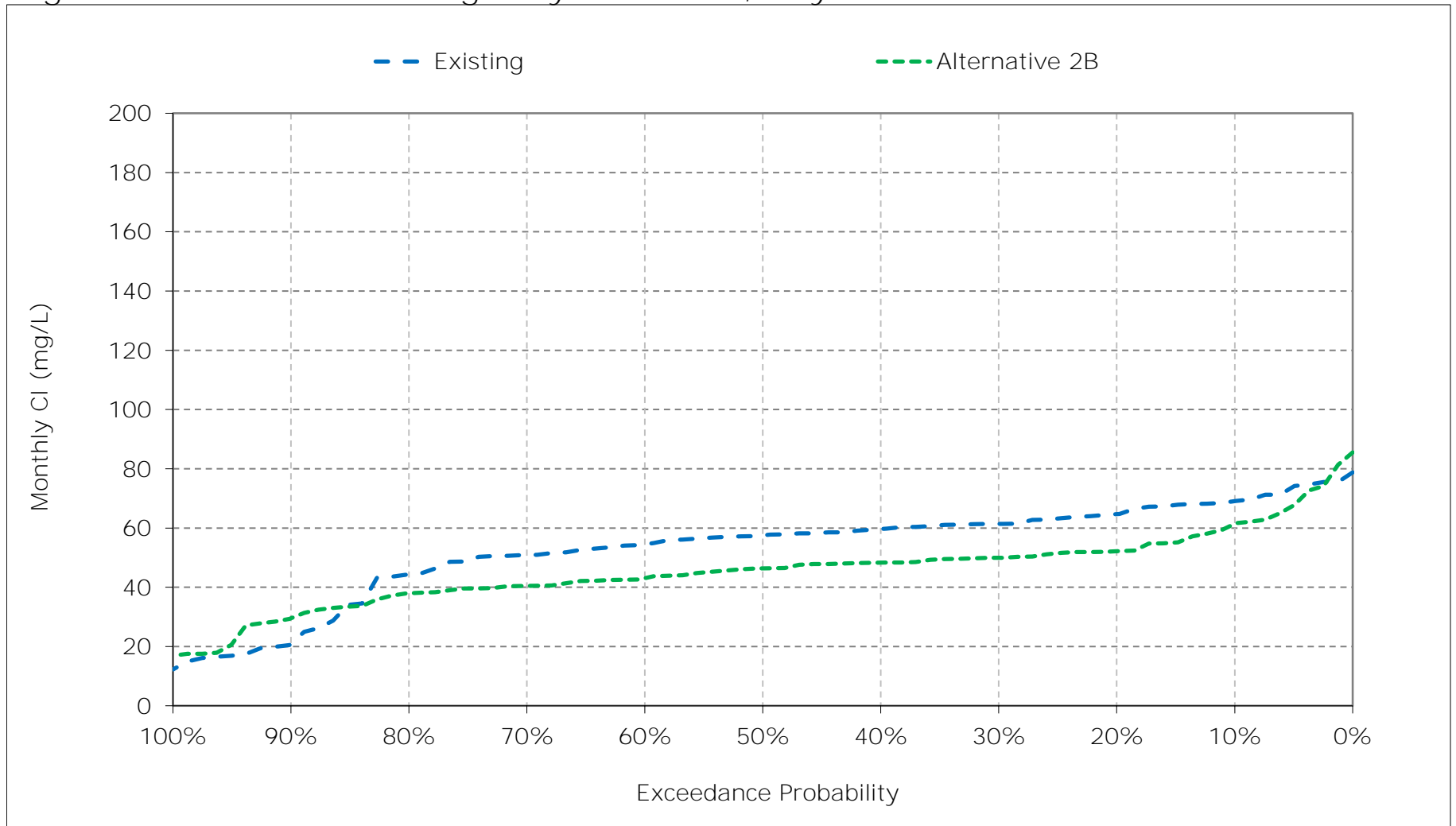


Figure 7-12. Old River at Highway 4 Chloride, June CI

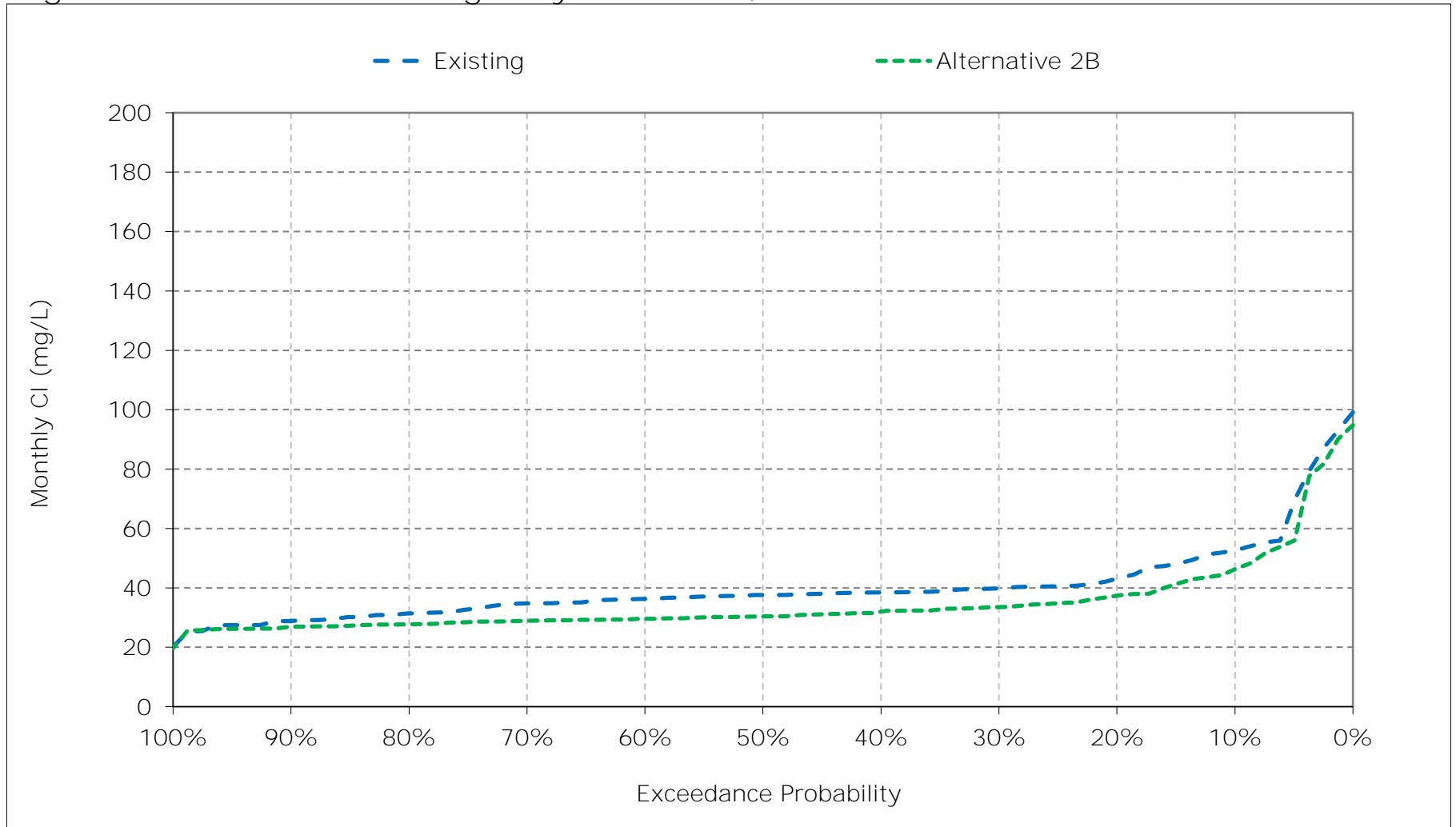


Figure 7-13. Old River at Highway 4 Chloride, July CI

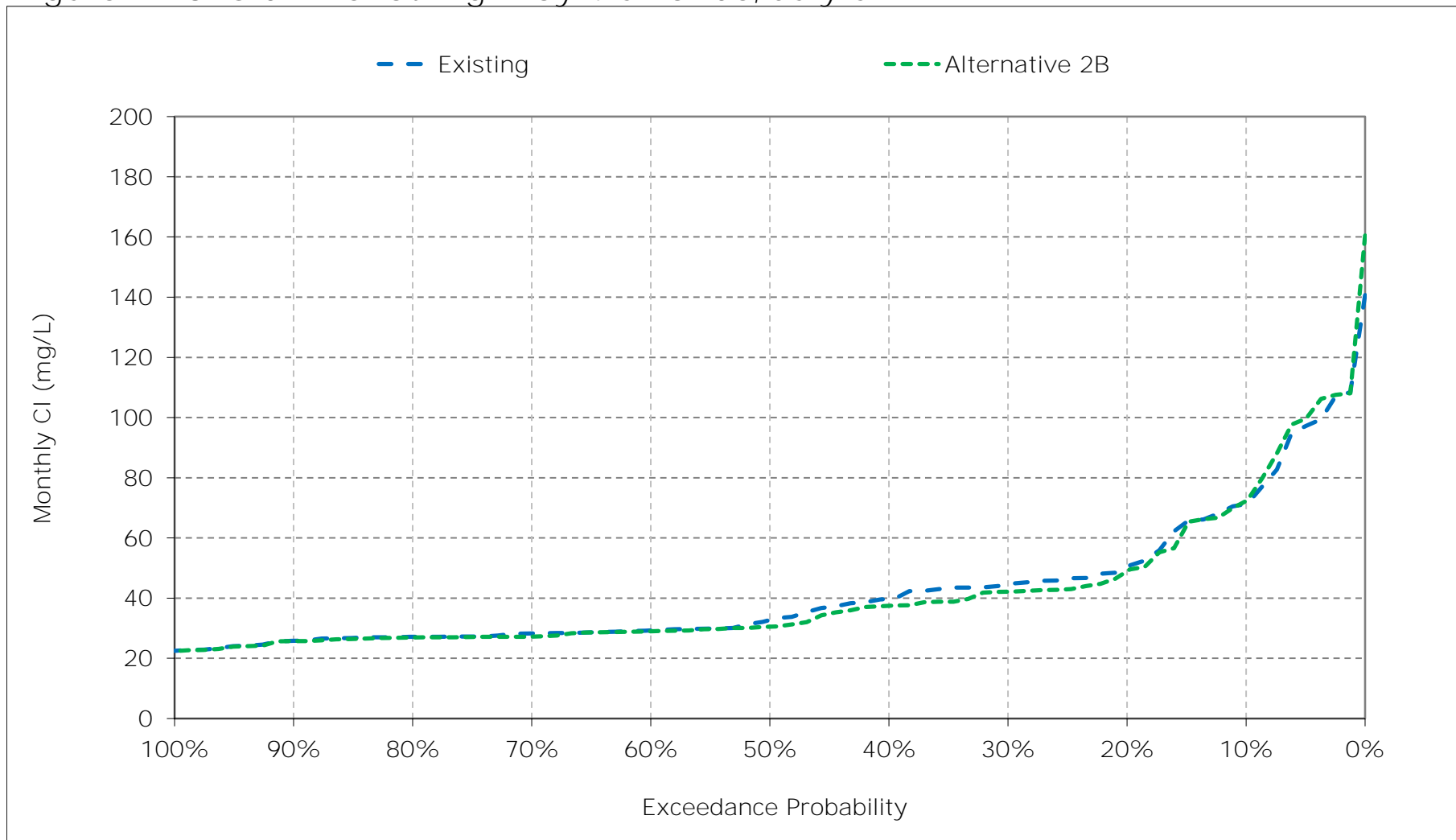


Figure 7-14. Old River at Highway 4 Chloride, August CI

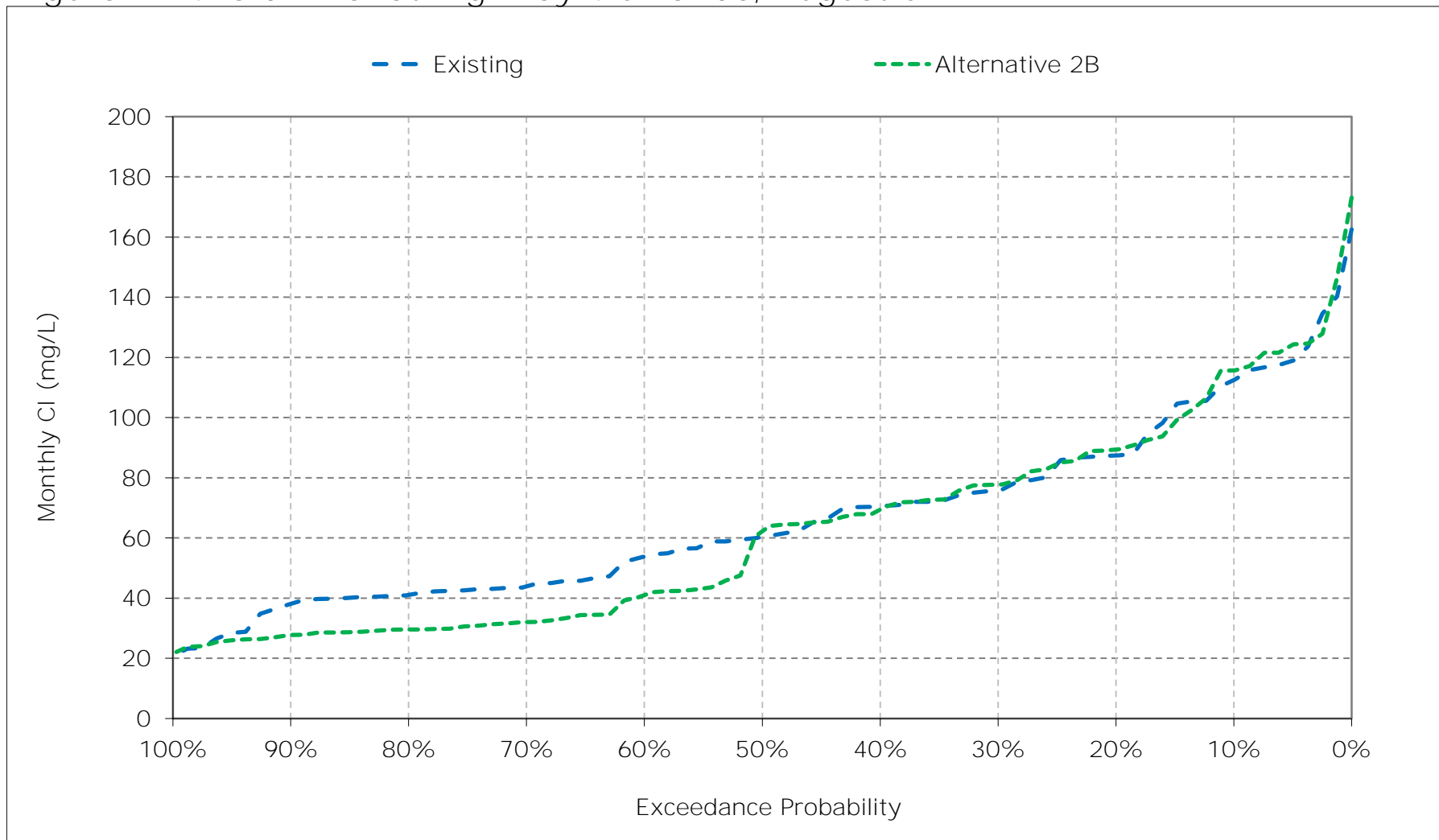


Figure 7-15. Old River at Highway 4 Chloride, September CI

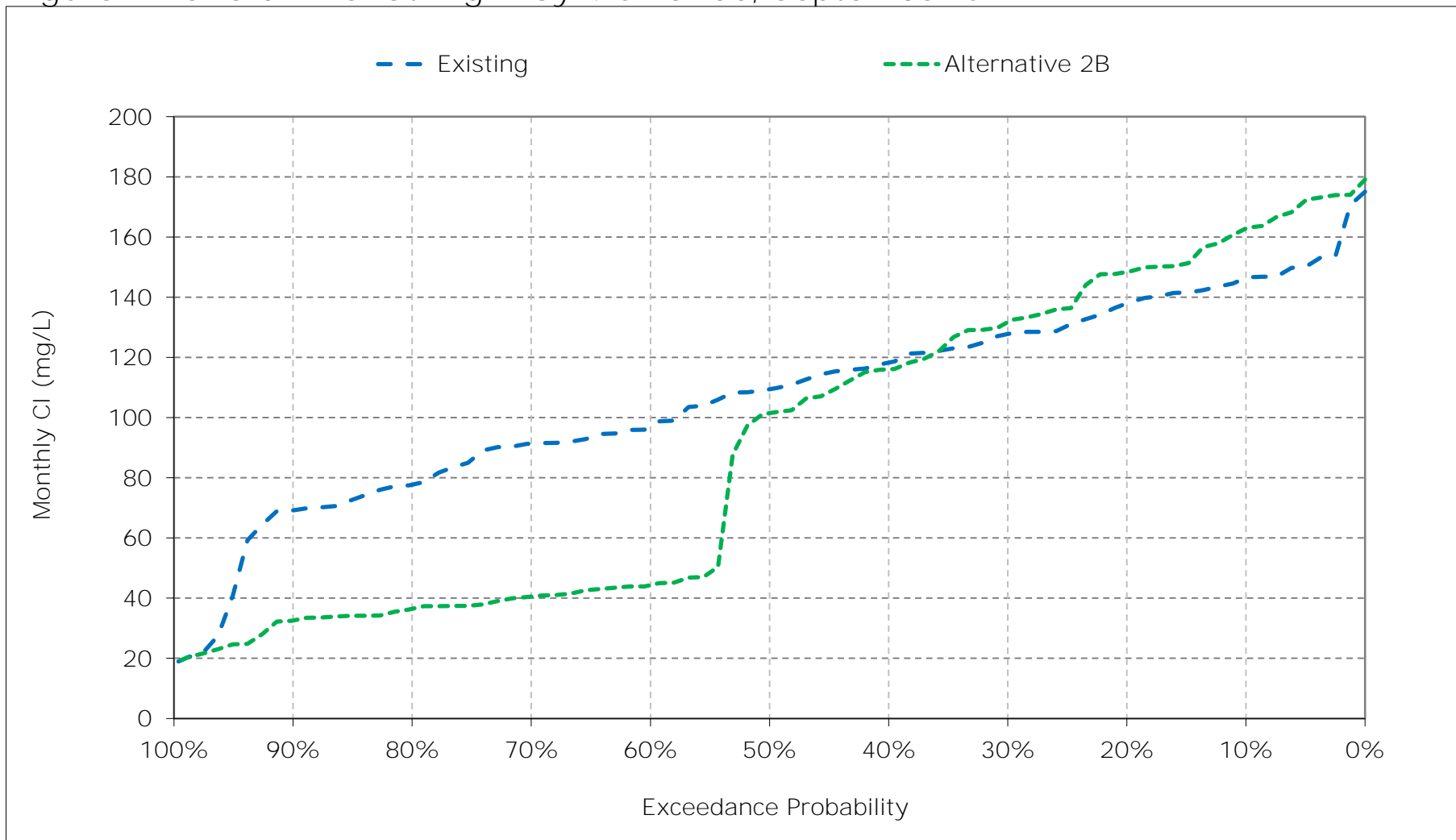




Figure 7-16. Old River at Highway 4 Chloride, October CI

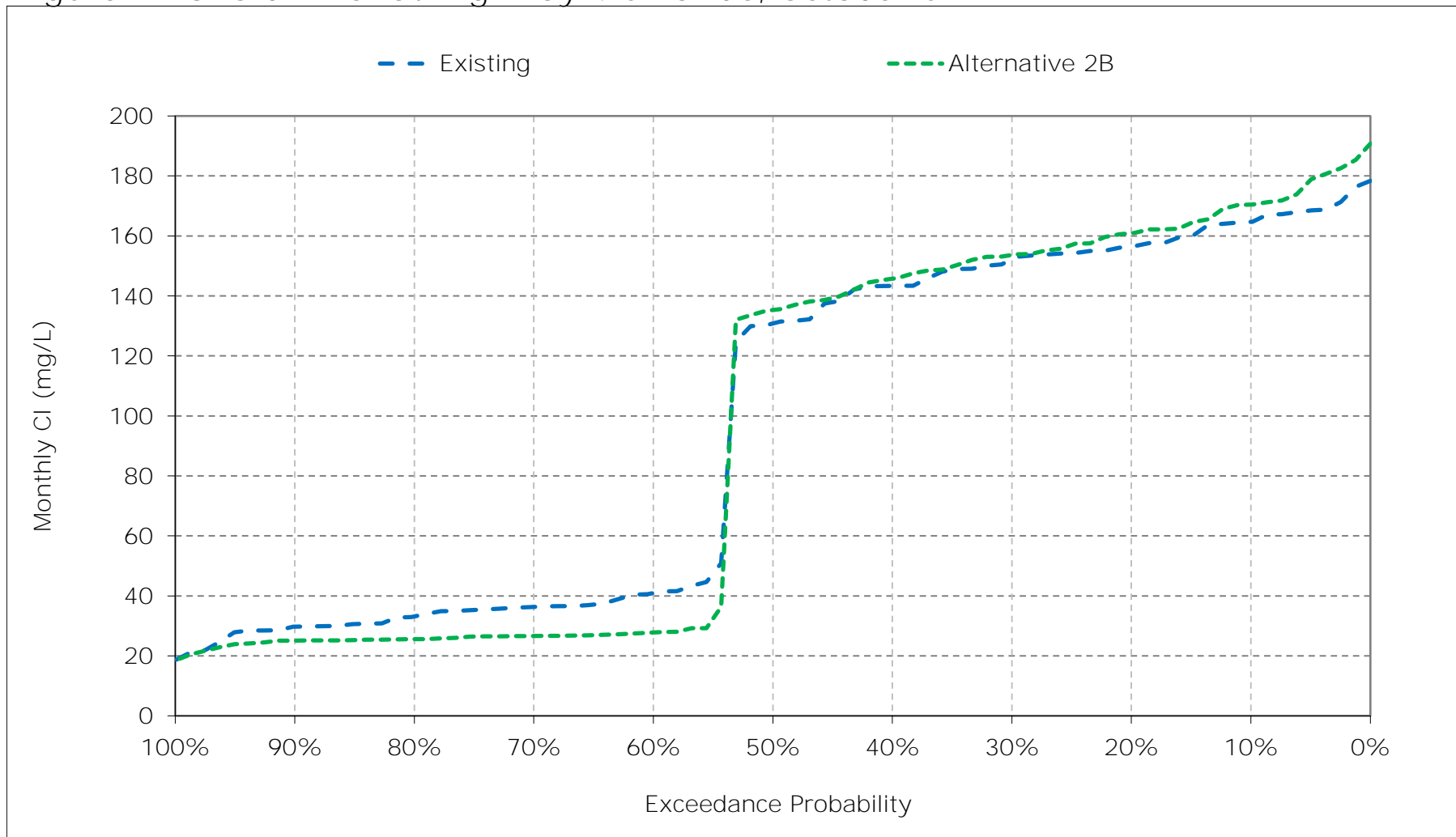


Figure 7-17. Old River at Highway 4 Chloride, November CI

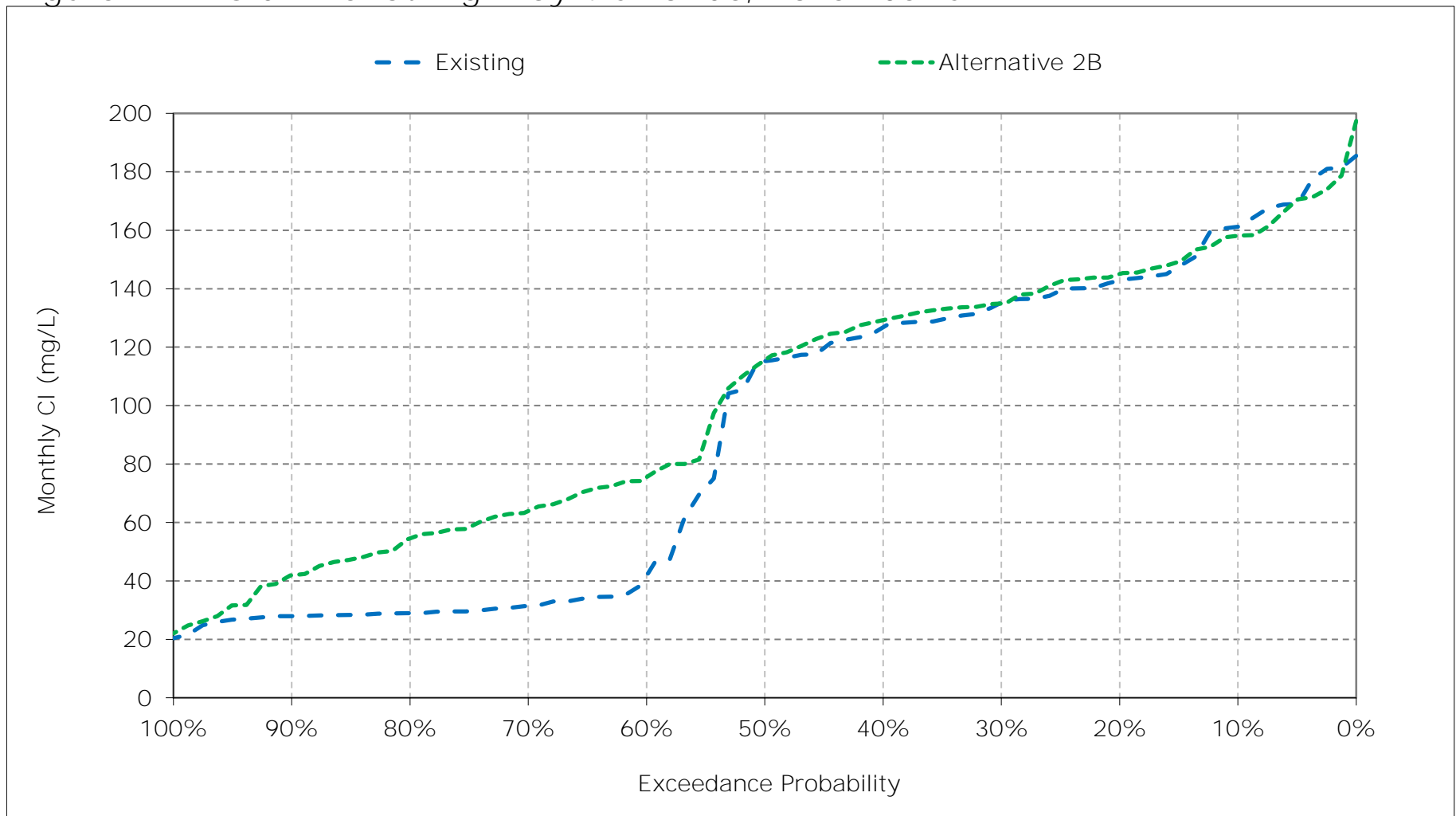


Figure 7-18. Old River at Highway 4 Chloride, December CI

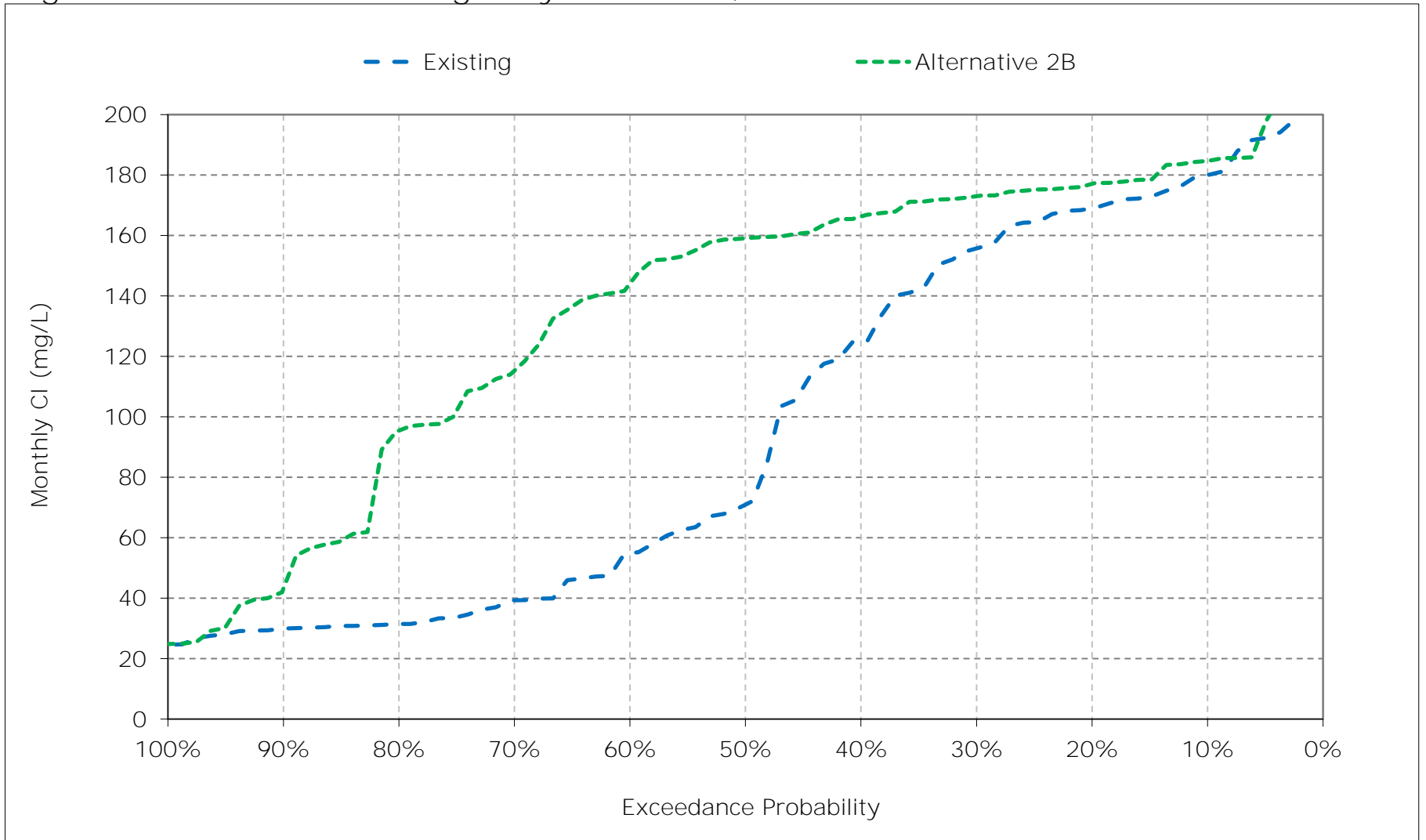


Table 8-1. Victoria Canal Chloride, Monthly Cl

Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	96	100	117	141	127	102	91	84	71	55	72	80
20%	90	88	108	134	114	92	84	79	60	51	58	77
30%	86	83	103	116	107	87	78	75	57	43	50	75
40%	83	79	96	108	103	82	72	70	55	38	44	72
50%	77	73	74	100	93	76	67	61	53	35	38	67
60%	55	52	57	93	87	70	55	57	52	32	36	62
70%	51	49	46	87	84	63	45	52	49	30	33	60
80%	45	47	41	78	73	49	36	43	46	29	31	51
90%	41	44	34	72	55	42	25	20	42	27	28	46
Long Term												
Full Simulation Period <sup>a</sup>	69	68	76	104	93	74	61	60	54	39	45	65
Water Year Types <sup>b</sup>												
Wet (32%)	61	58	64	86	72	54	37	38	45	38	32	57
Above Normal (15%)	76	73	75	105	101	72	57	56	53	36	31	48
Below Normal (17%)	70	68	80	113	96	77	65	63	53	31	41	71
Dry (22%)	70	71	82	106	102	89	82	75	57	36	58	69
Critical (15%)	78	82	92	129	112	90	84	83	73	61	68	82

Alternative 2B

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	100	99	122	165	135	108	93	74	57	55	73	84
20%	92	93	111	156	122	95	84	66	51	51	55	78
30%	89	83	107	142	114	90	79	63	47	42	49	75
40%	85	78	102	134	102	84	74	58	46	37	44	70
50%	82	75	97	112	96	77	69	55	44	34	37	63
60%	36	45	92	107	89	71	59	51	43	31	35	36
70%	34	42	84	97	83	59	50	49	42	29	33	34
80%	32	39	73	86	73	52	41	43	39	27	30	32
90%	30	36	52	74	54	44	30	27	35	26	28	30
Long Term												
Full Simulation Period <sup>a</sup>	64	65	93	119	95	75	64	54	46	39	44	56
Water Year Types <sup>b</sup>												
Wet (32%)	54	55	79	93	72	55	42	37	41	37	31	32
Above Normal (15%)	70	72	96	126	105	74	59	50	45	35	30	33
Below Normal (17%)	64	65	94	129	97	79	70	56	43	30	42	79
Dry (22%)	65	68	101	130	108	93	85	66	45	35	57	70
Critical (15%)	79	79	106	142	116	90	78	72	60	61	69	83

Alternative 2B minus Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4	-1	5	23	9	6	2	-10	-15	0	1	3
20%	2	5	3	22	8	4	0	-13	-9	0	-3	1
30%	3	0	4	25	7	3	1	-12	-10	-1	-1	0
40%	2	-1	5	26	-1	2	2	-12	-10	-1	0	-1
50%	5	2	23	12	3	1	2	-6	-9	-1	-1	-4
60%	-19	-7	35	14	1	1	4	-5	-9	-2	-1	-26
70%	-17	-7	38	10	-1	-3	5	-4	-8	-1	-1	-26
80%	-13	-8	33	8	0	3	5	0	-7	-1	-1	-19
90%	-11	-8	18	2	-1	2	5	6	-6	0	-1	-16
Long Term												
Full Simulation Period <sup>a</sup>	-5	-3	16	15	2	2	3	-6	-9	-1	-1	-9
Water Year Types <sup>b</sup>												
Wet (32%)	-7	-3	14	7	0	1	4	-1	-3	0	-1	-26
Above Normal (15%)	-5	-2	20	21	4	2	2	-6	-8	-1	-1	-15
Below Normal (17%)	-6	-3	14	16	0	2	6	-7	-9	-1	0	8
Dry (22%)	-5	-3	19	24	5	4	4	-9	-13	-1	-1	1
Critical (15%)	1	-3	14	13	5	0	-7	-11	-13	-1	0	1

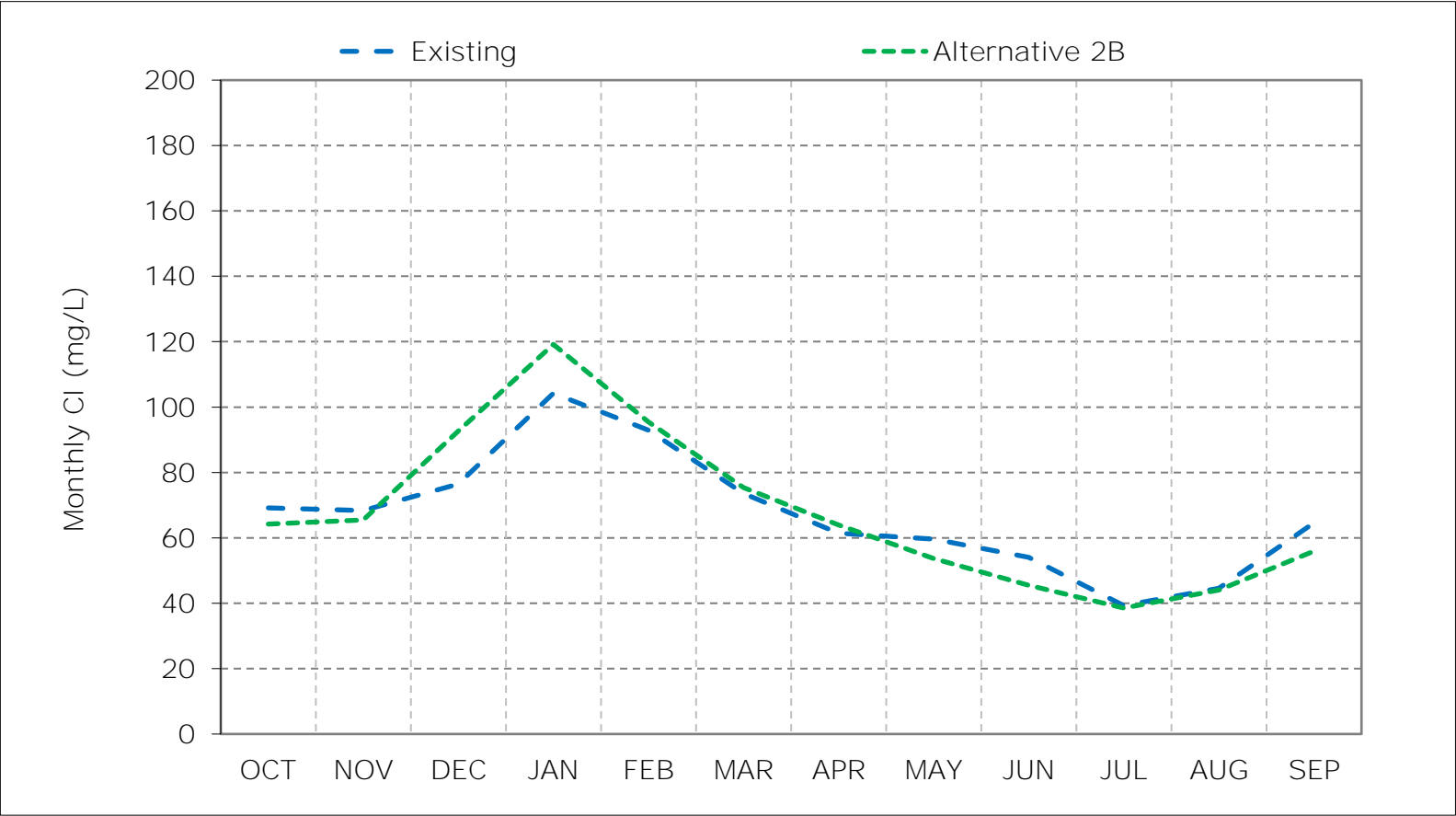
a Based on the 82-year simulation period.

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 water year - year type sorting.

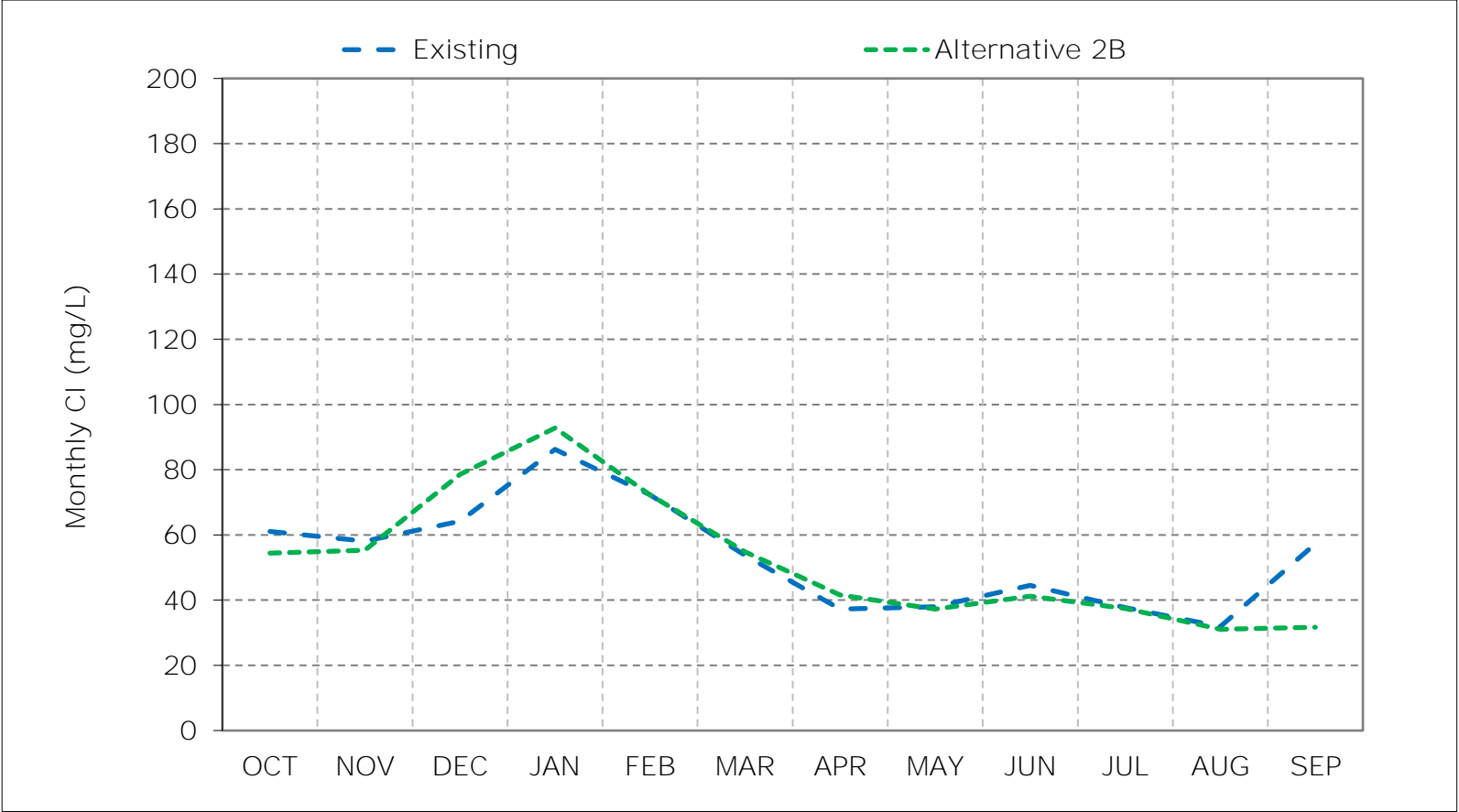
d Positive differences are highted in red color which indicate increase in Chloride (Cl).

Figure 8-1. Victoria Canal Chloride, Long-Term Average CI



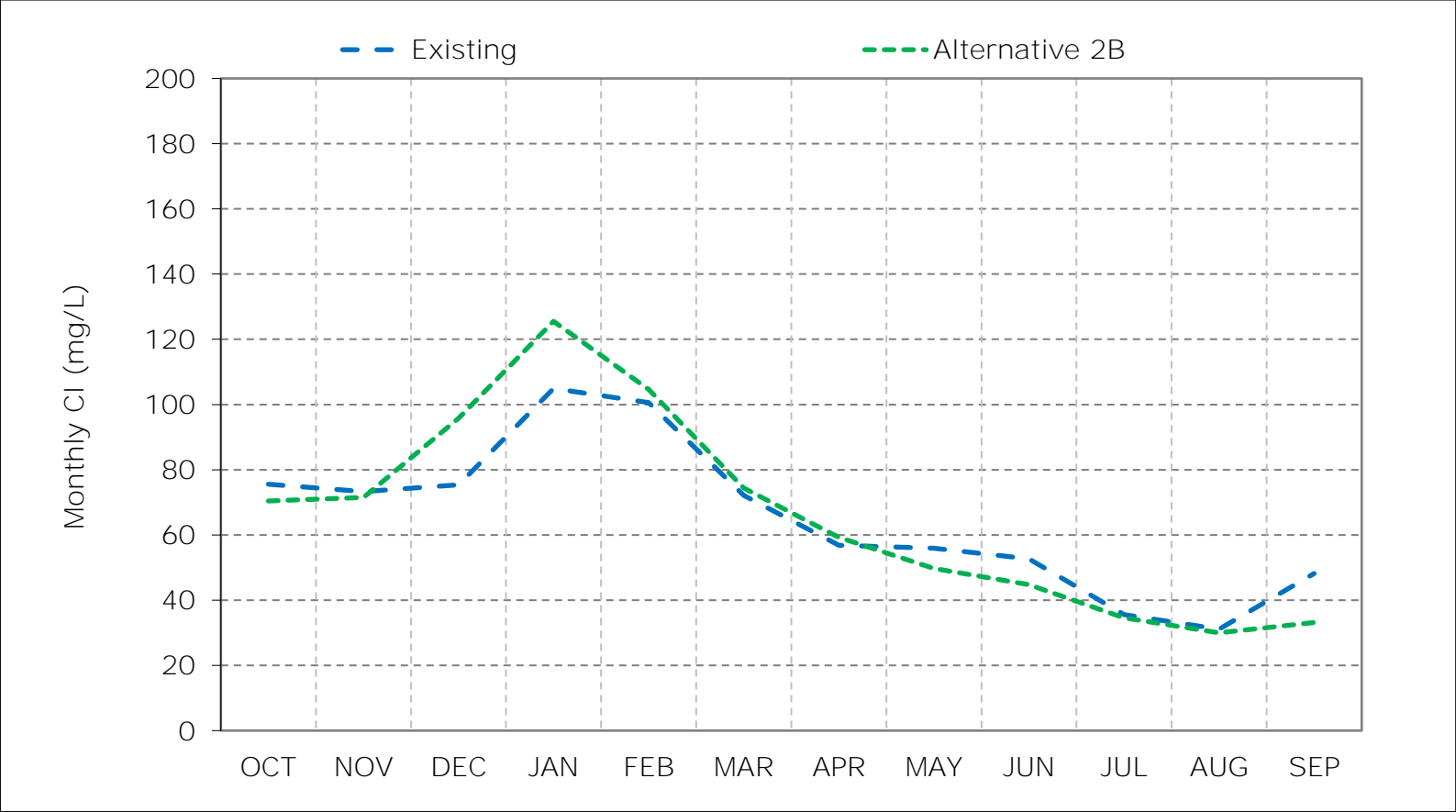
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 8-2. Victoria Canal Chloride, Wet Year Average Cl



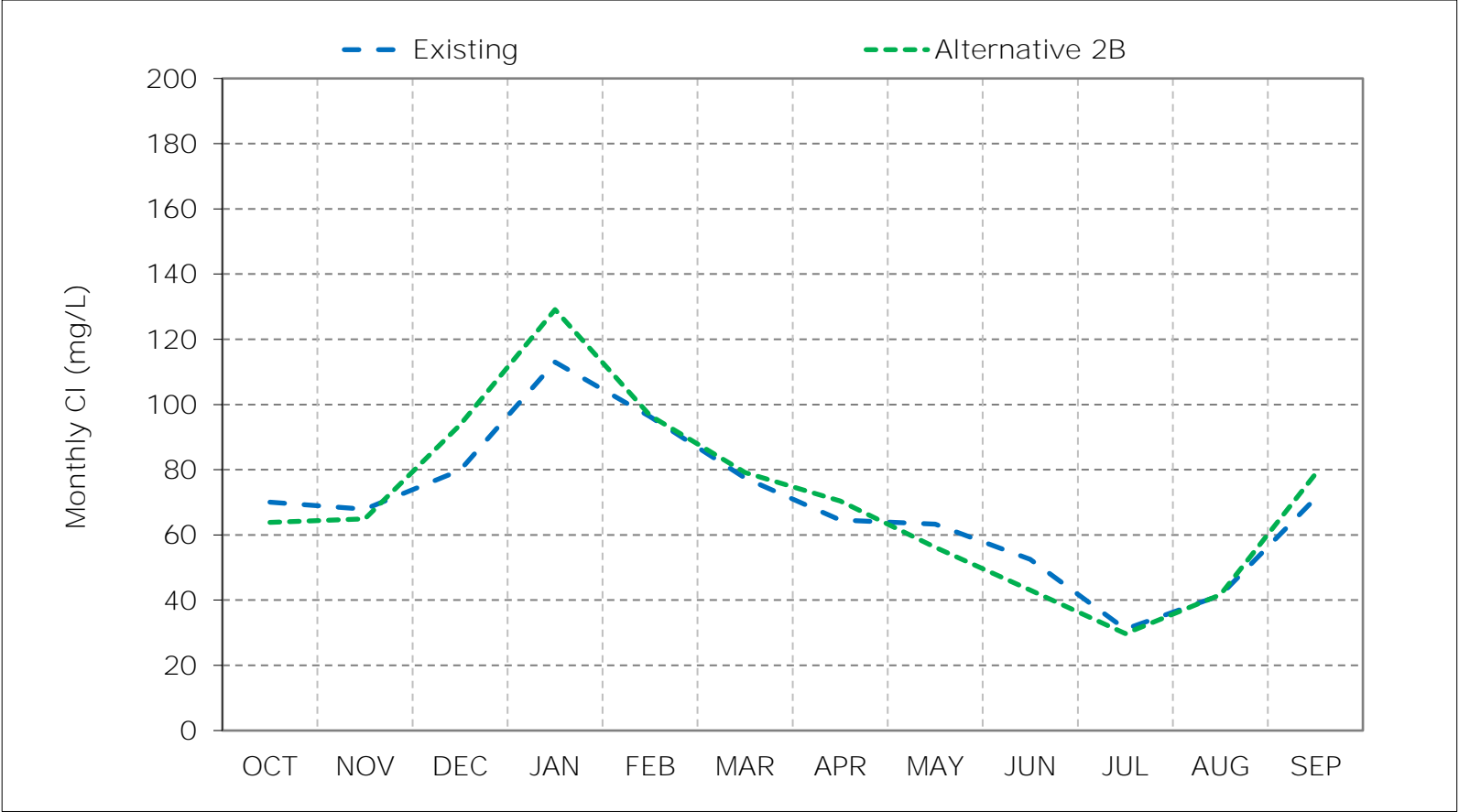
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 8-3. Victoria Canal Chloride, 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 water year - year type sorting.

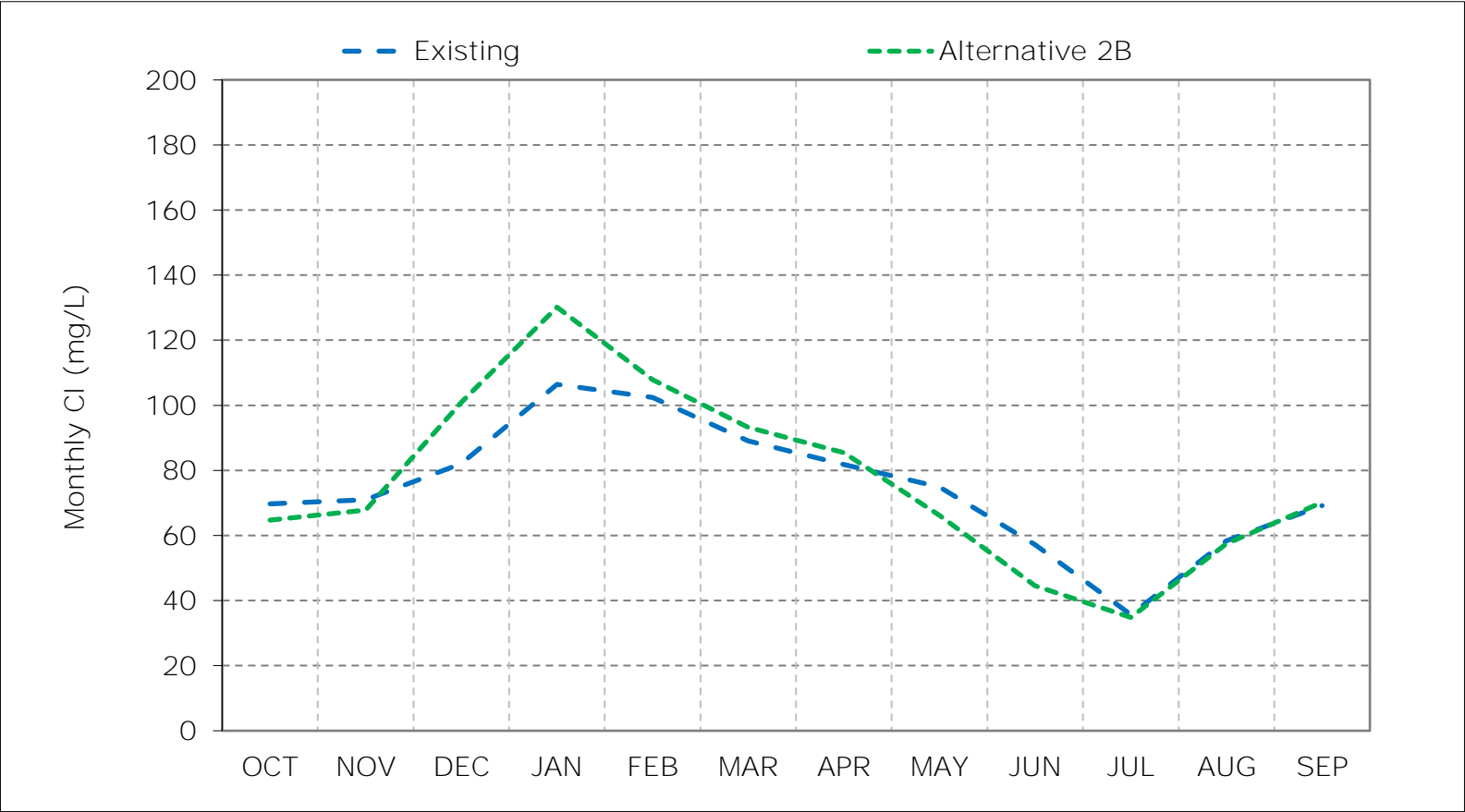
Figure 8-4. Victoria Canal Chloride, Below Normal Year Average Cl



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

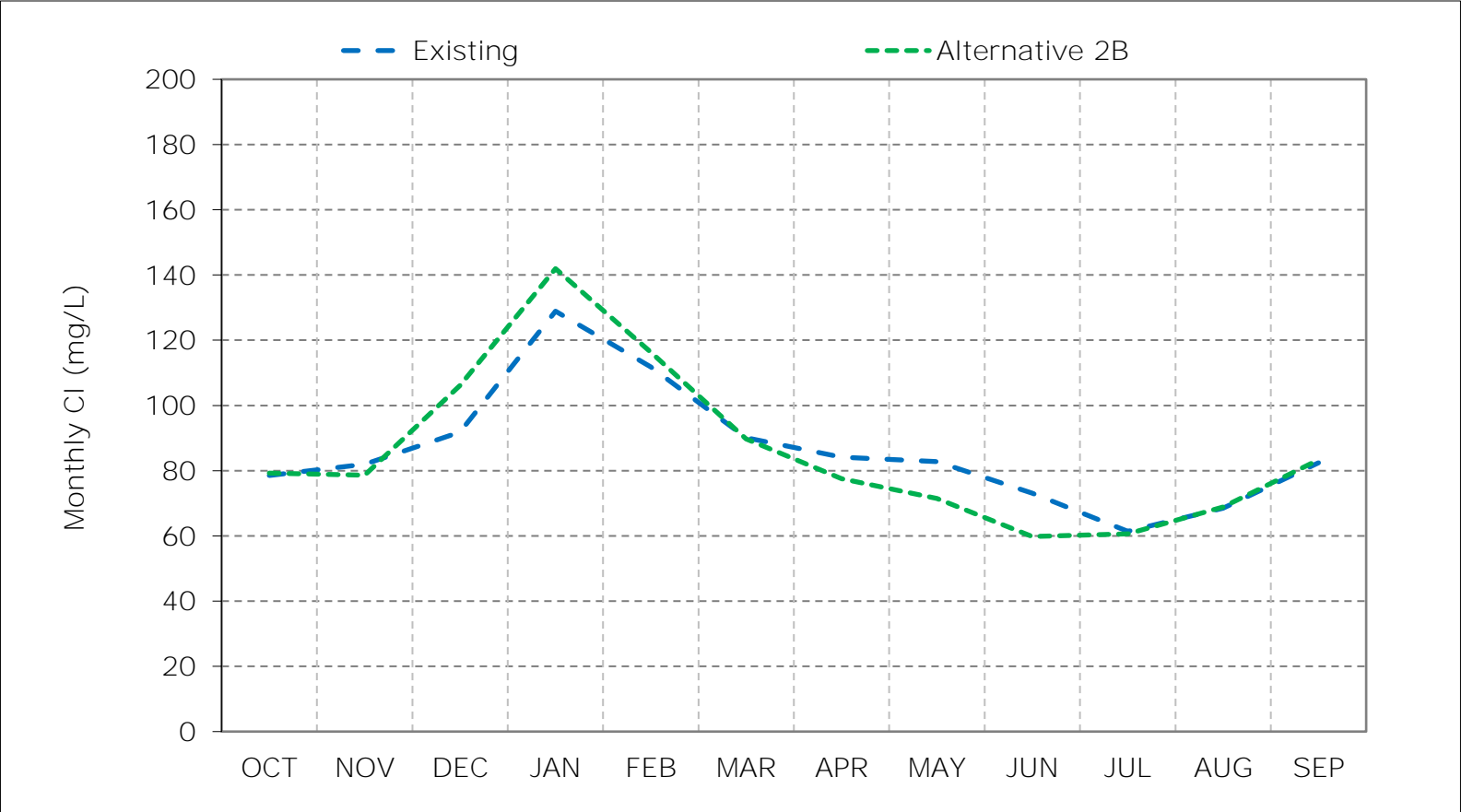


Figure 8-5. Victoria Canal Chloride, Dry Year Average CI



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 8-6. Victoria Canal Chloride, 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 water year - year type sorting.

Figure 8-7. Victoria Canal Chloride, January CI

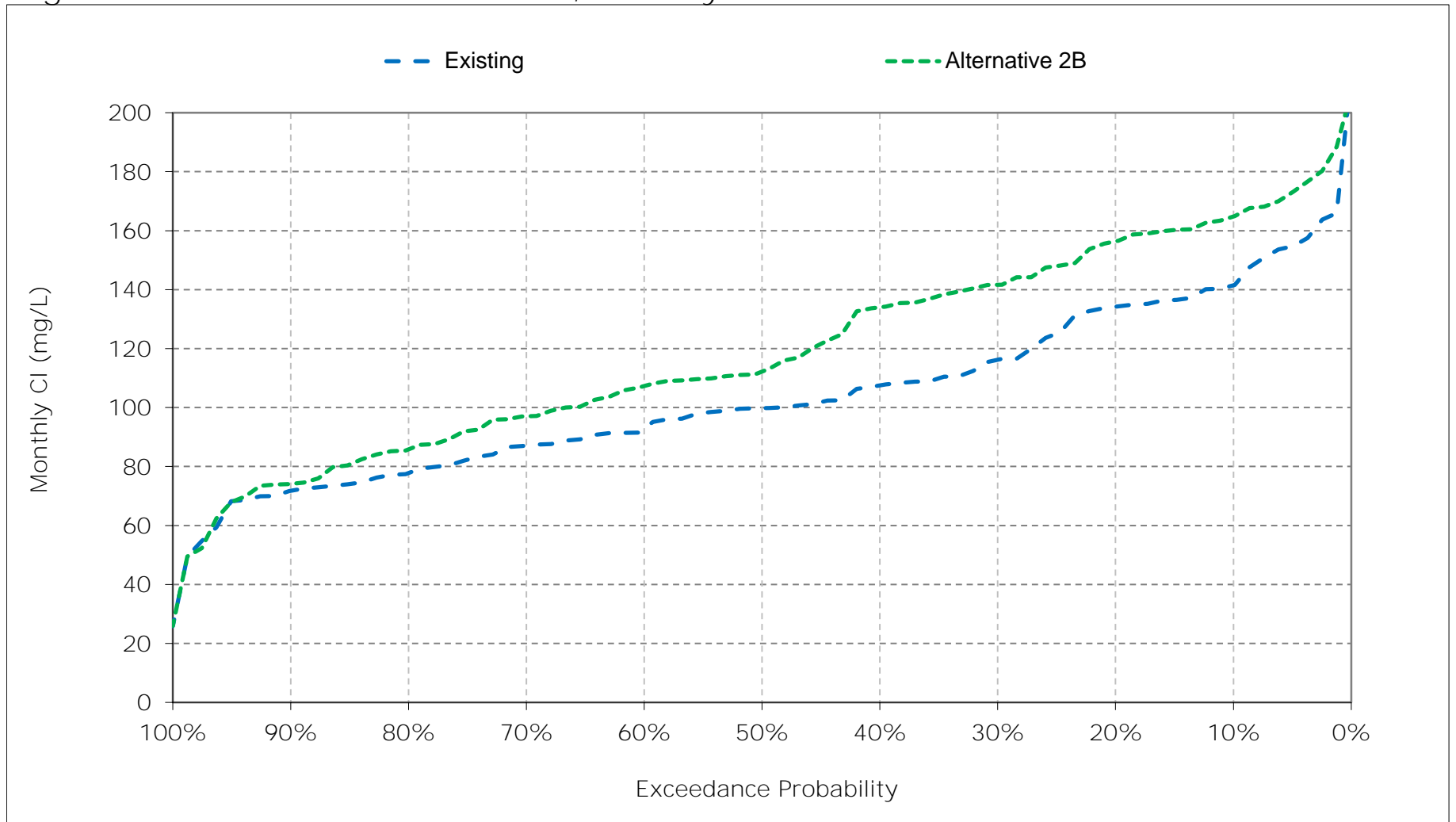


Figure 8-8. Victoria Canal Chloride, February CI

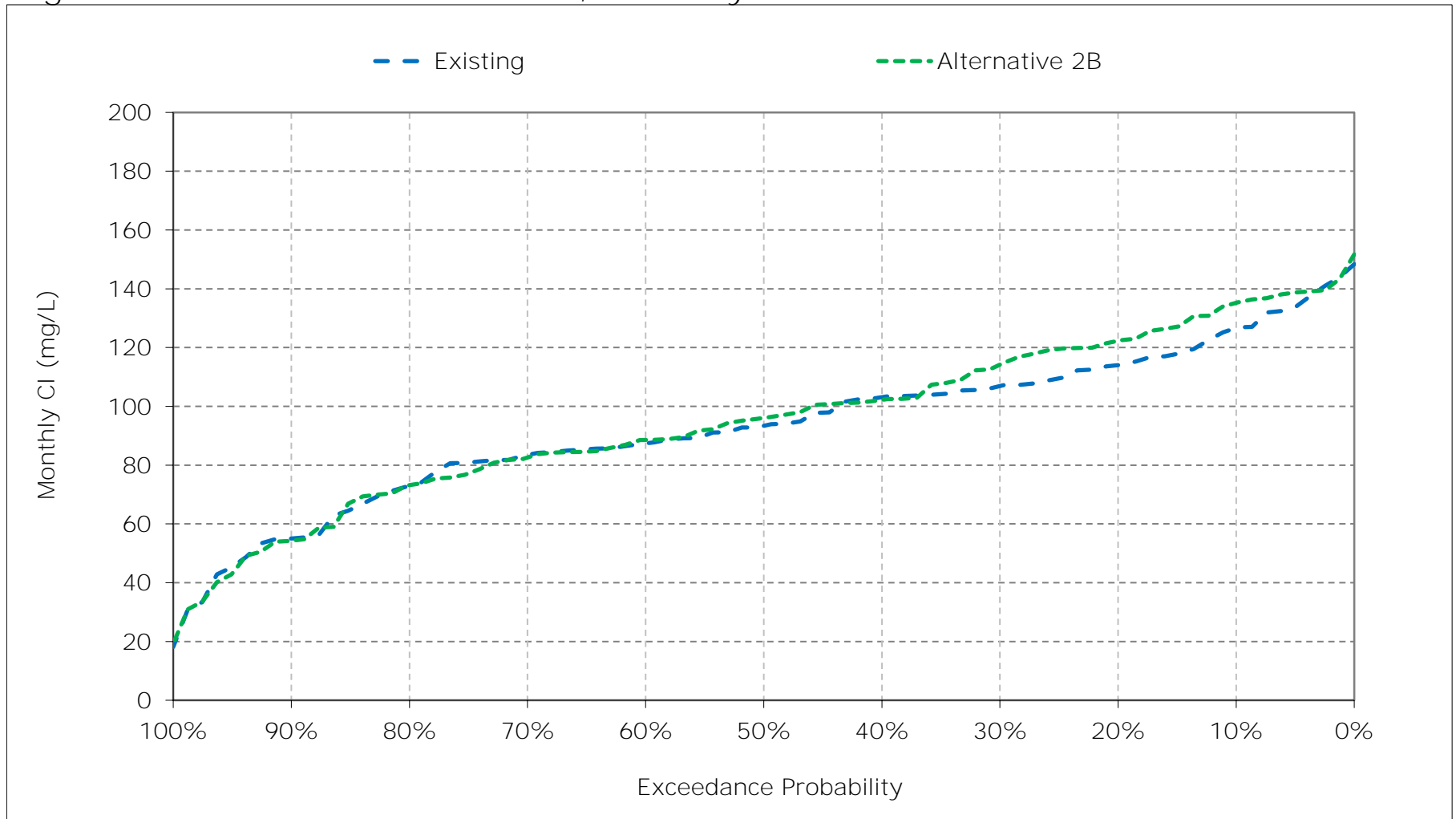


Figure 8-9. Victoria Canal Chloride, March CI

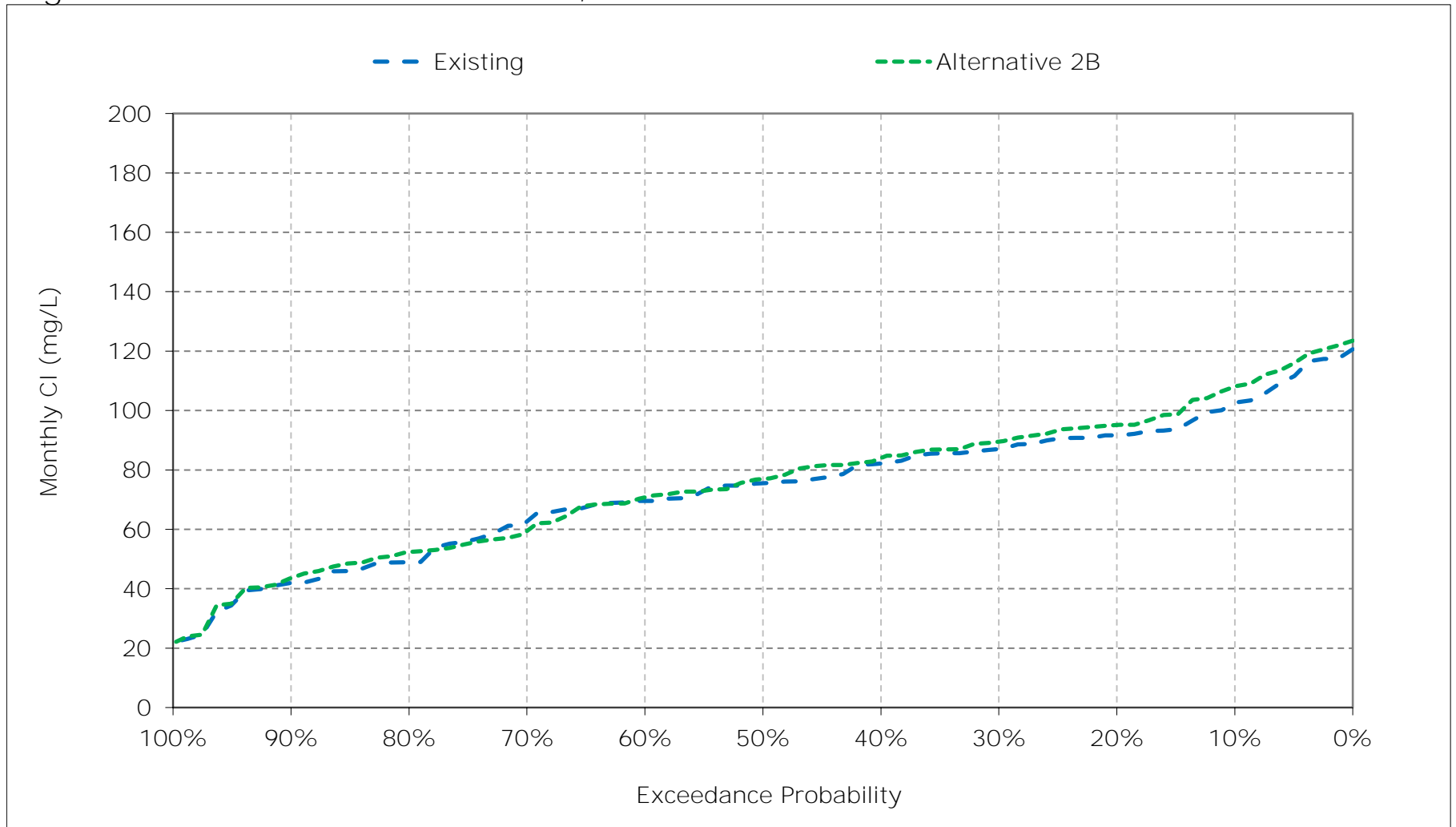


Figure 8-10. Victoria Canal Chloride, April CI

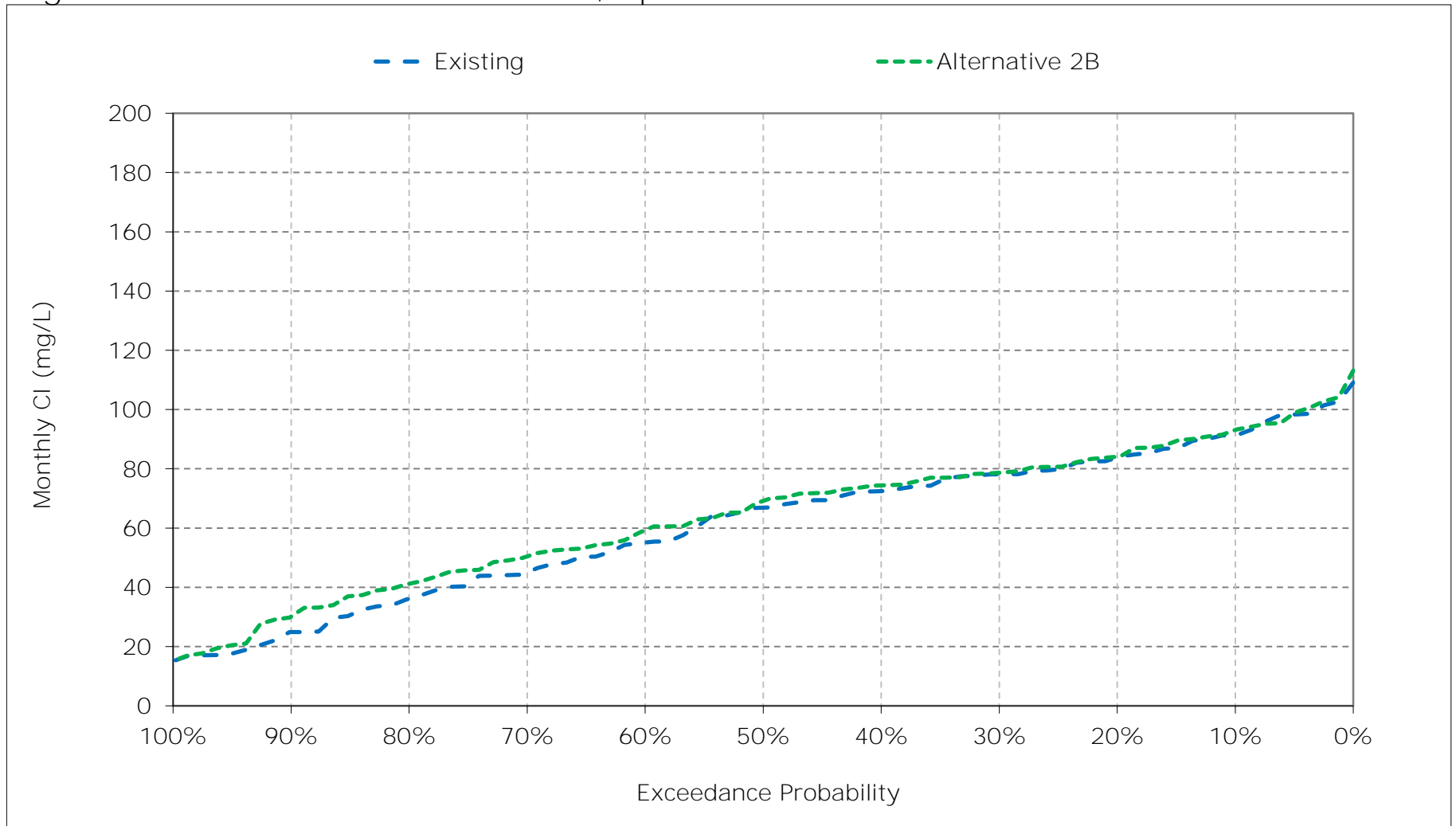


Figure 8-11. Victoria Canal Chloride, May CI

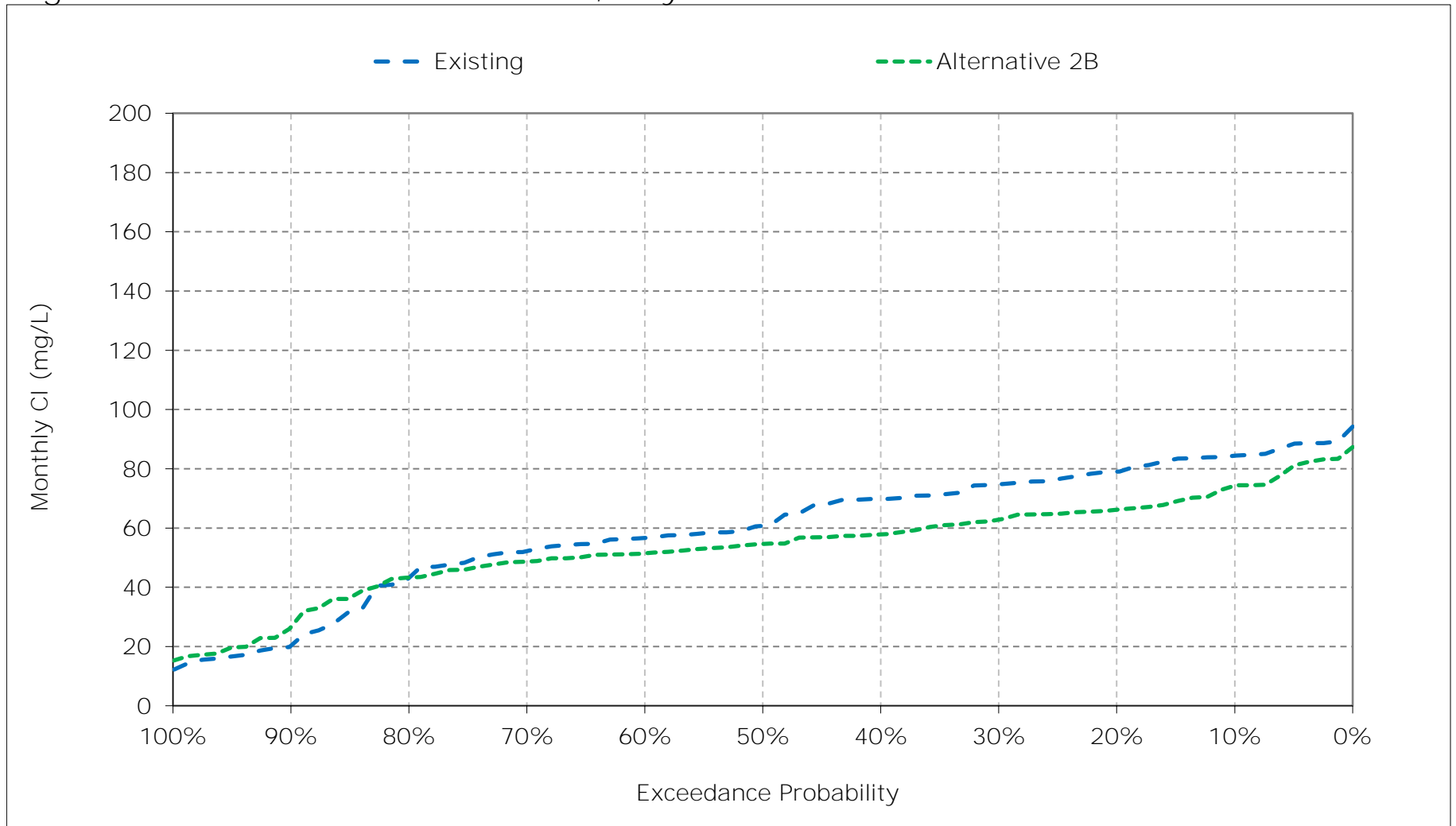


Figure 8-12. Victoria Canal Chloride, June CI

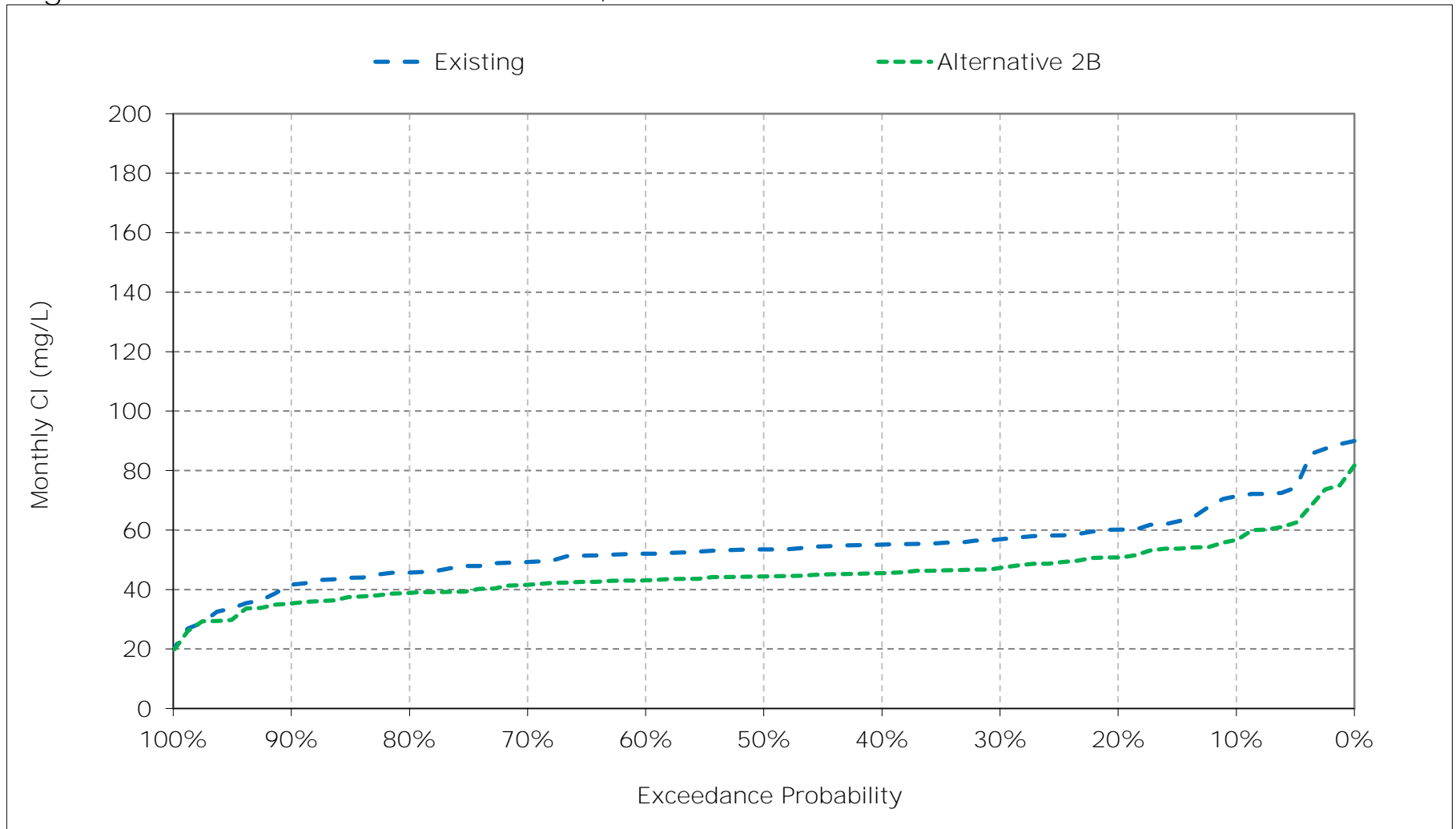




Figure 8-13. Victoria Canal Chloride, July CI

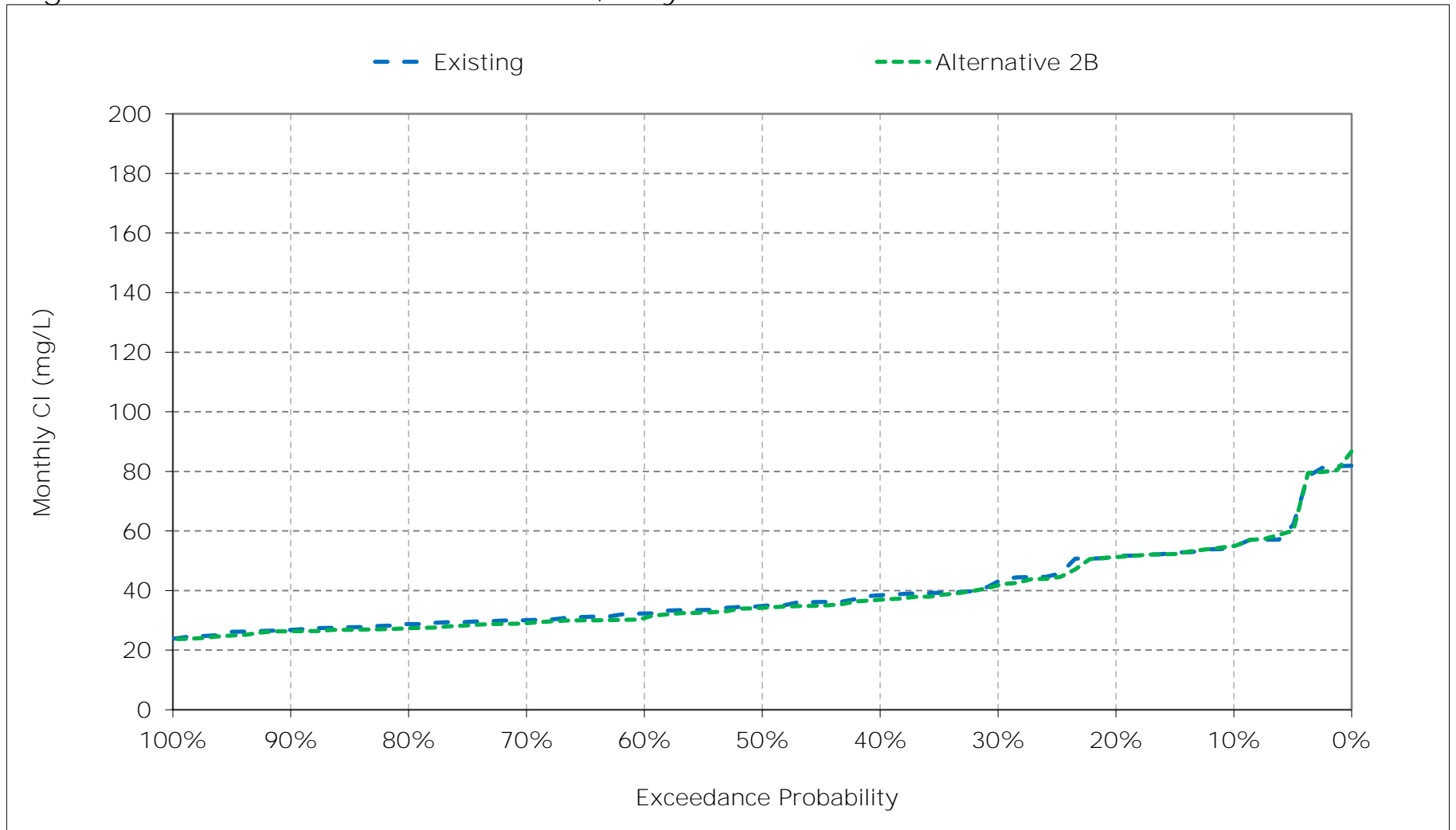


Figure 8-14. Victoria Canal Chloride, August CI

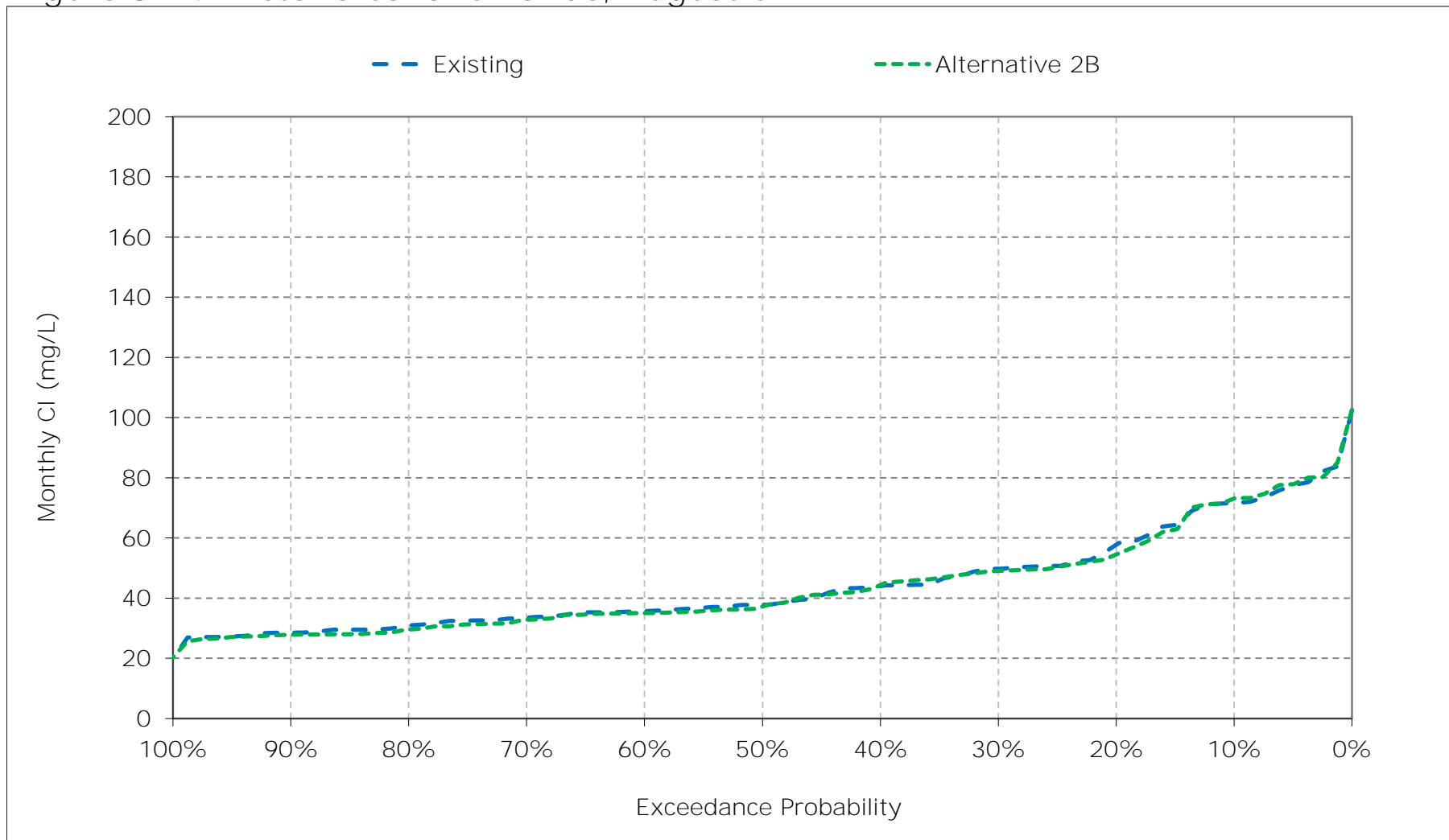


Figure 8-15. Victoria Canal Chloride, September CI

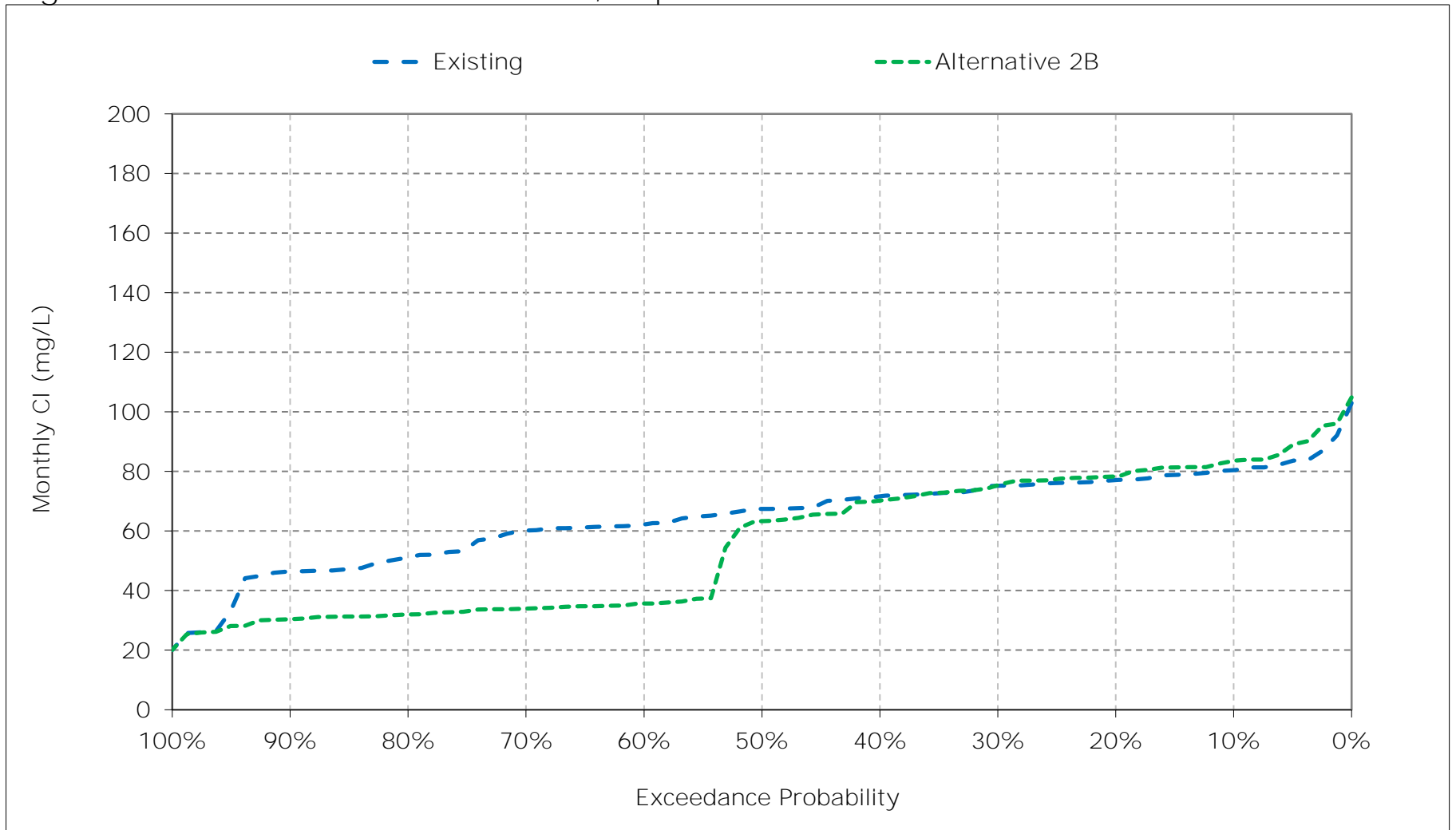


Figure 8-16. Victoria Canal Chloride, October CI

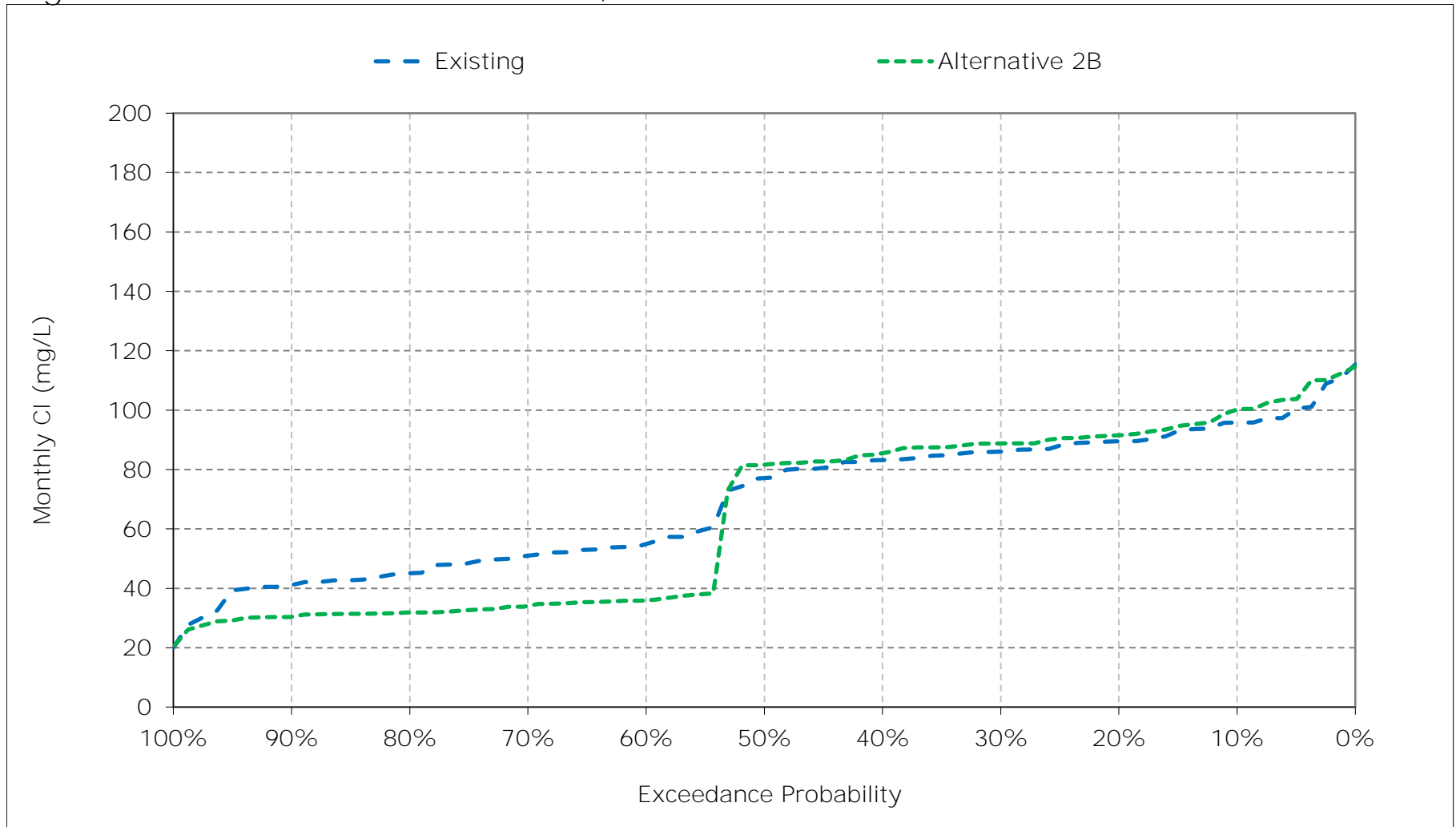


Figure 8-17. Victoria Canal Chloride, November CI

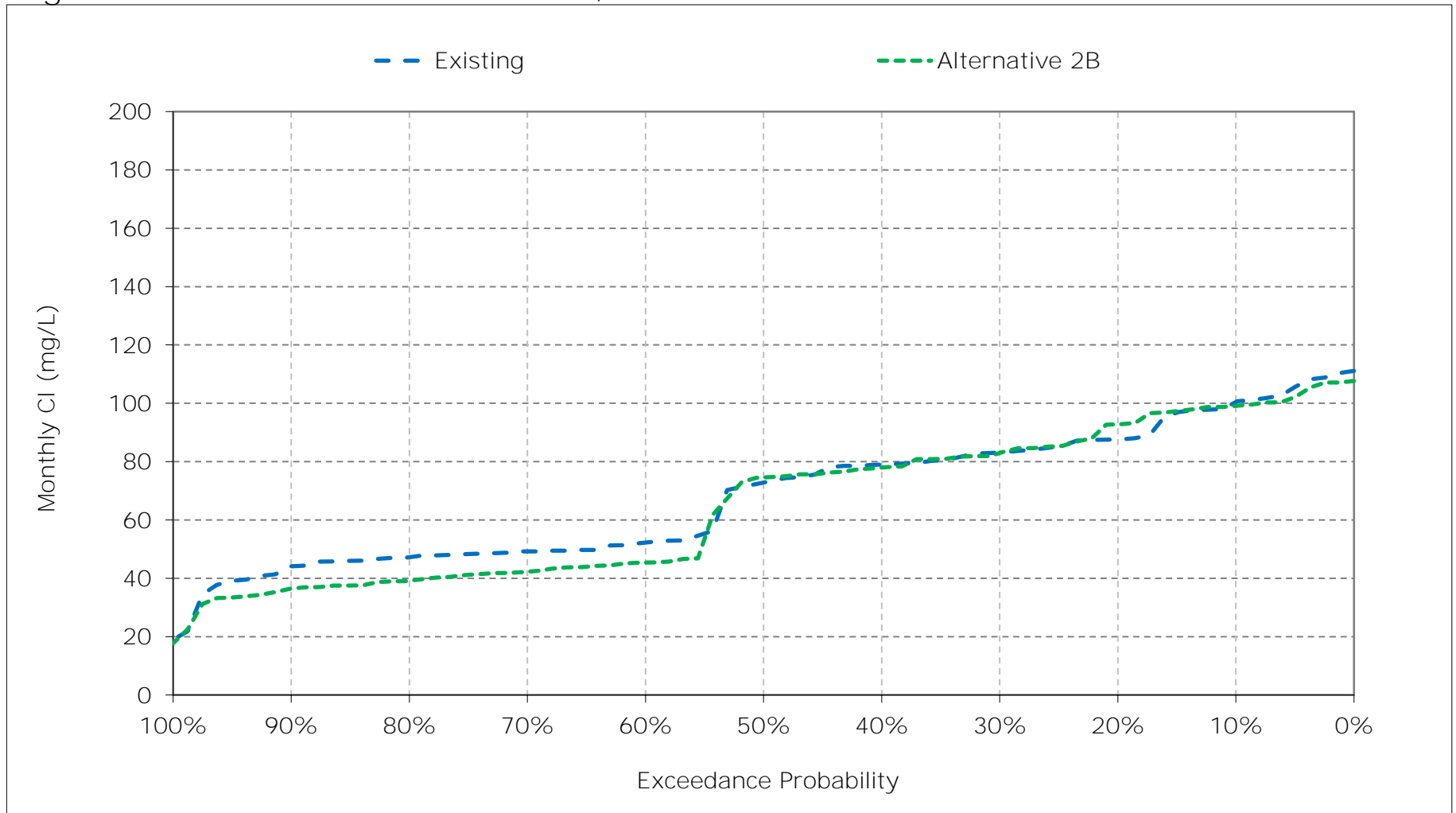


Figure 8-18. Victoria Canal Chloride, December CI

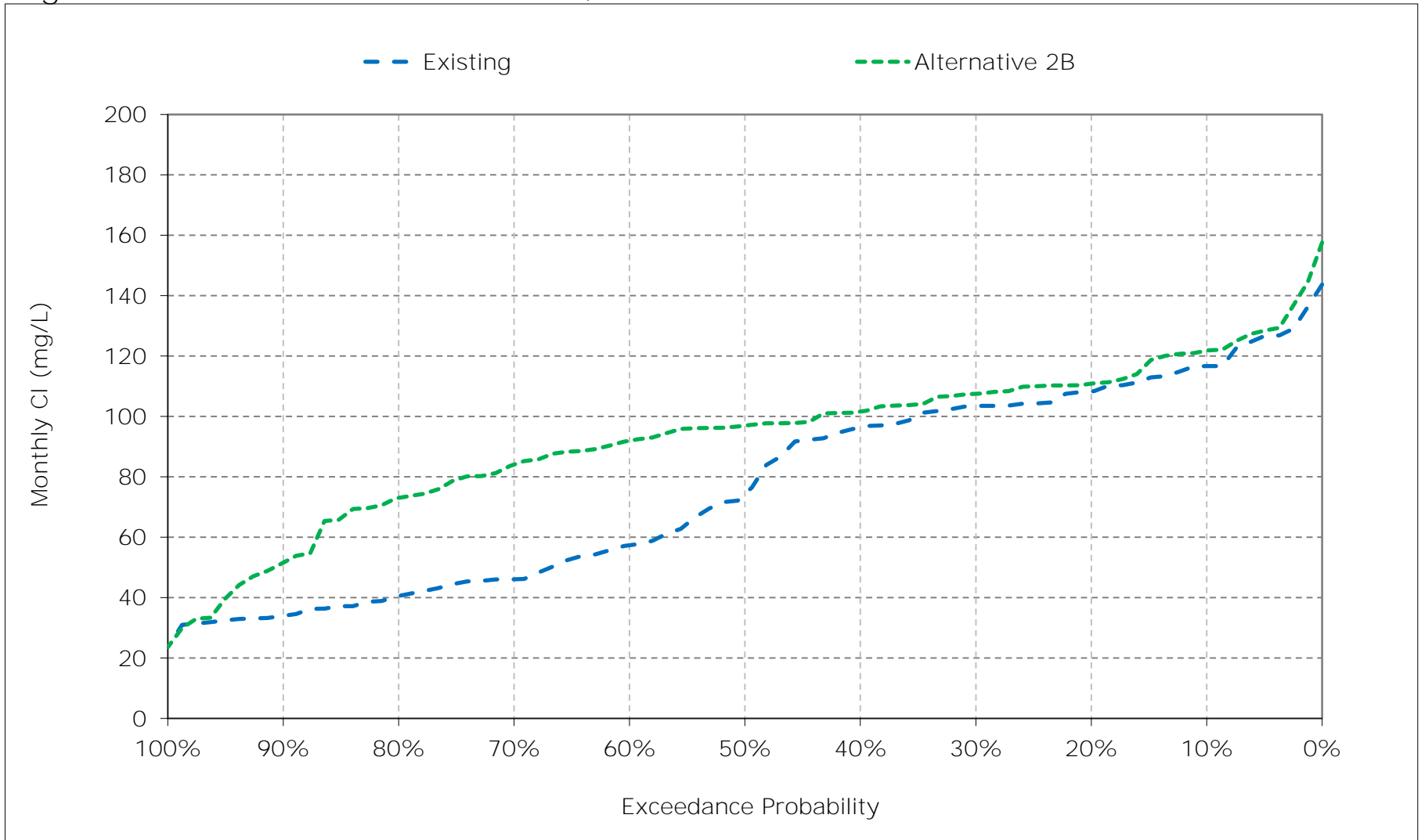


Table 9-1. Contra Costa Pumping Plant #1 Chloride, Monthly Cl

Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	198	189	210	187	95	53	52	57	36	88	134	178
20%	187	169	198	149	69	40	47	50	29	56	105	171
30%	180	158	174	124	62	34	42	43	28	46	91	156
40%	171	142	129	99	53	32	38	39	27	36	84	139
50%	153	117	77	81	47	29	36	38	26	29	73	127
60%	29	38	47	70	37	28	32	35	26	26	63	113
70%	27	26	35	47	32	26	31	33	25	25	52	102
80%	27	23	29	39	29	24	28	30	24	23	48	86
90%	25	21	25	29	27	23	25	25	23	21	42	74
Long Term												
Full Simulation Period <sup>a</sup>	110	101	106	98	53	34	37	39	30	44	78	125
Water Year Types <sup>b</sup>												
Wet (32%)	84	72	58	49	45	34	35	33	25	23	47	92
Above Normal (15%)	127	106	104	89	49	33	42	44	26	25	53	79
Below Normal (17%)	115	109	126	118	47	30	40	45	26	38	84	167
Dry (22%)	111	114	126	111	53	29	36	38	28	61	105	146
Critical (15%)	141	131	158	169	81	44	36	40	56	89	125	165

Alternative 2B

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	201	185	218	230	101	59	46	35	32	88	137	200
20%	189	170	209	200	86	46	39	30	28	52	108	182
30%	183	160	203	174	66	37	34	30	26	41	95	163
40%	177	151	194	137	58	34	33	28	24	35	85	141
50%	162	130	188	93	50	31	30	27	24	29	74	120
60%	26	96	167	75	41	29	29	27	23	26	45	46
70%	23	77	112	51	35	27	28	26	23	24	32	40
80%	22	65	88	41	30	25	27	25	22	23	29	36
90%	21	47	38	31	27	25	25	24	21	21	25	30
Long Term												
Full Simulation Period <sup>a</sup>	111	119	155	119	58	37	33	29	28	43	71	107
Water Year Types <sup>b</sup>												
Wet (32%)	85	97	101	57	46	36	30	25	23	23	30	33
Above Normal (15%)	129	126	160	114	54	37	36	29	23	24	35	41
Below Normal (17%)	116	128	175	143	49	32	33	29	23	33	89	190
Dry (22%)	110	127	185	150	64	33	33	29	26	60	105	151
Critical (15%)	147	141	198	183	90	48	38	37	56	93	126	168

Alternative 2B minus Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3	-4	8	42	6	6	-6	-22	-4	1	3	22
20%	2	1	11	51	17	6	-8	-20	-1	-4	3	12
30%	3	2	29	51	4	3	-8	-13	-2	-5	4	7
40%	6	9	66	37	5	2	-5	-11	-2	-1	0	2
50%	8	12	111	12	3	2	-6	-10	-3	0	1	-7
60%	-3	58	120	6	3	1	-3	-8	-3	0	-18	-67
70%	-4	52	77	4	3	1	-2	-7	-3	-1	-19	-63
80%	-4	41	59	2	0	1	-1	-5	-2	0	-19	-50
90%	-4	26	13	2	0	2	0	-2	-2	0	-17	-44
Long Term												
Full Simulation Period <sup>a</sup>	1	18	49	21	5	3	-4	-10	-2	-1	-7	-19
Water Year Types <sup>b</sup>												
Wet (32%)	1	25	42	8	1	3	-4	-8	-2	0	-17	-59
Above Normal (15%)	1	20	55	26	5	4	-6	-15	-3	0	-18	-38
Below Normal (17%)	1	19	49	25	2	2	-8	-17	-3	-5	5	23
Dry (22%)	-1	13	59	38	10	4	-3	-9	-2	-1	-1	6
Critical (15%)	5	10	40	13	9	4	2	-3	0	4	1	3

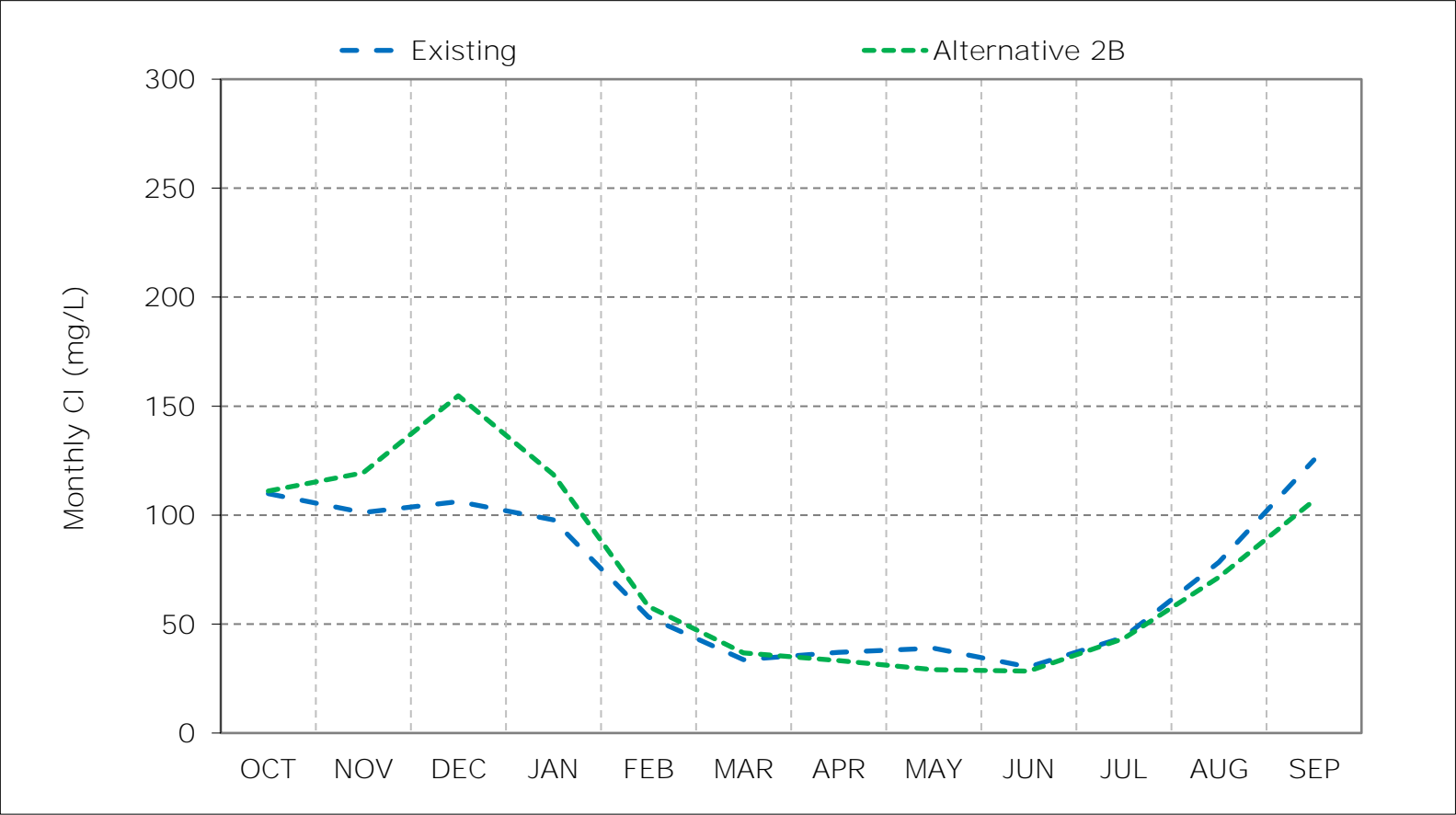
a Based on the 82-year simulation period.

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 water year - year type sorting.

d Positive differences are highted in red color which indicate increase in Chloride (Cl).

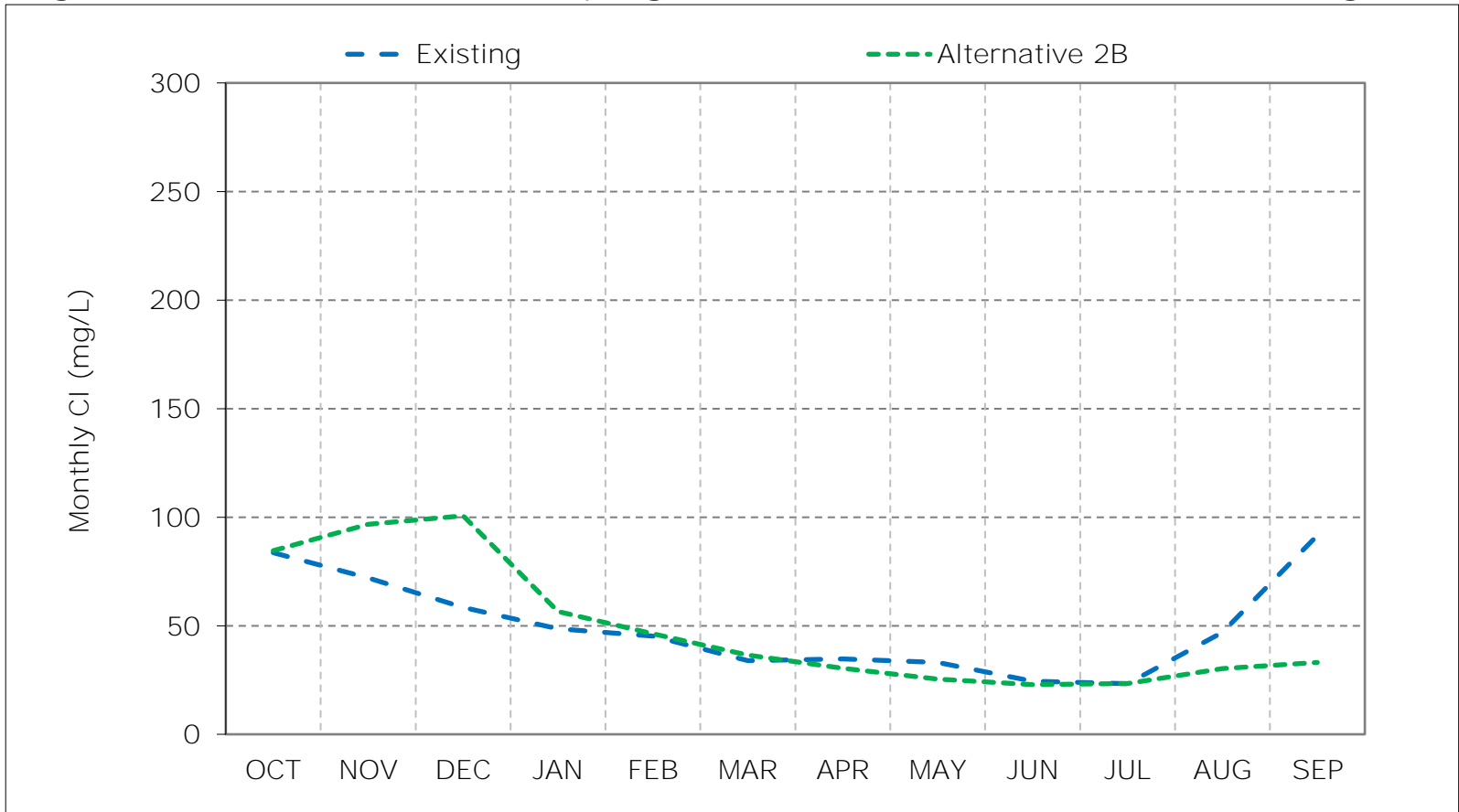
Figure 9-1. Contra Costa Pumping Plant #1 Chloride, Long-Term Average CI



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.



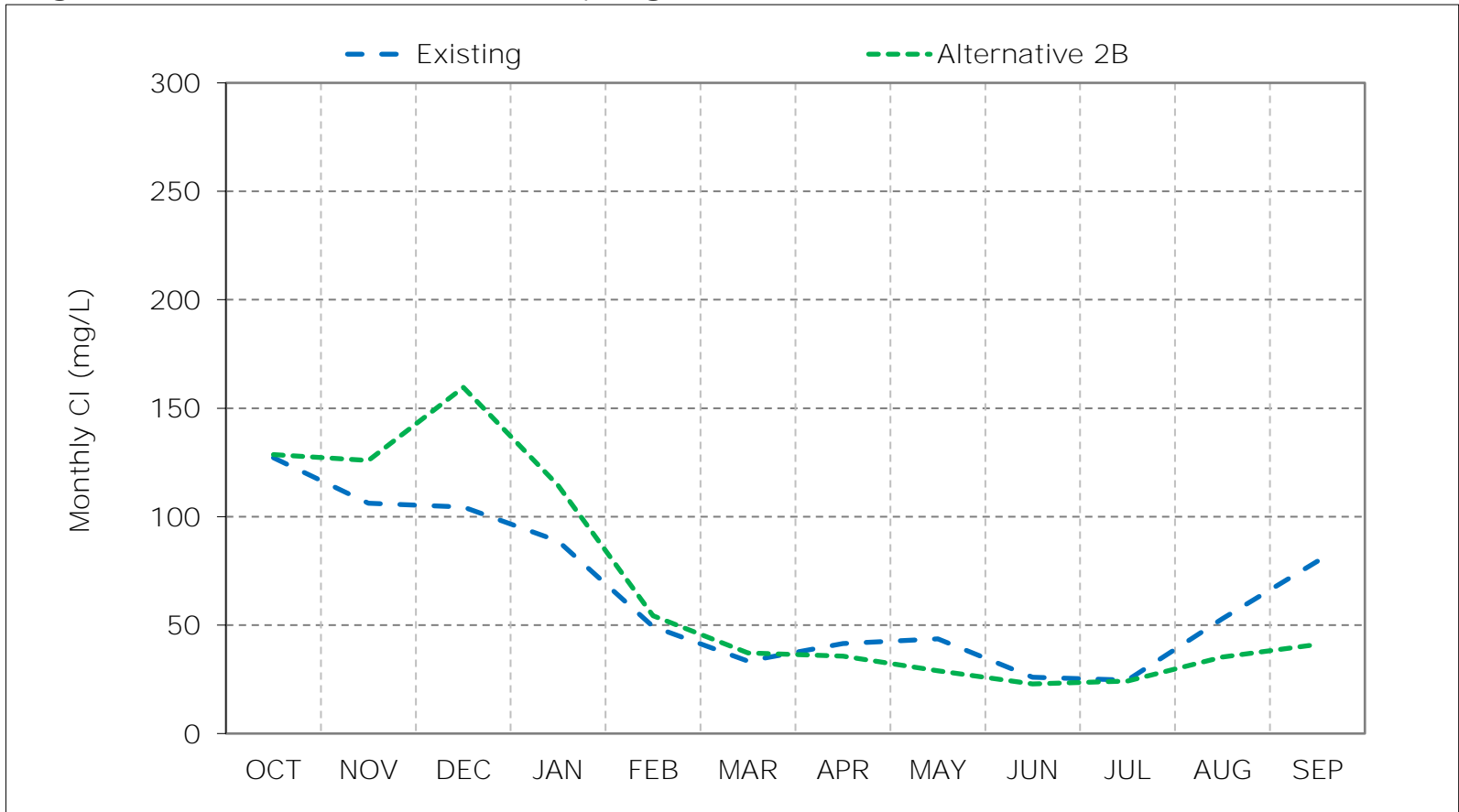
Figure 9-2. Contra Costa Pumping Plant #1 Chloride, Wet Year Average Cl



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

\*These results are displayed with water year - year type sorting.

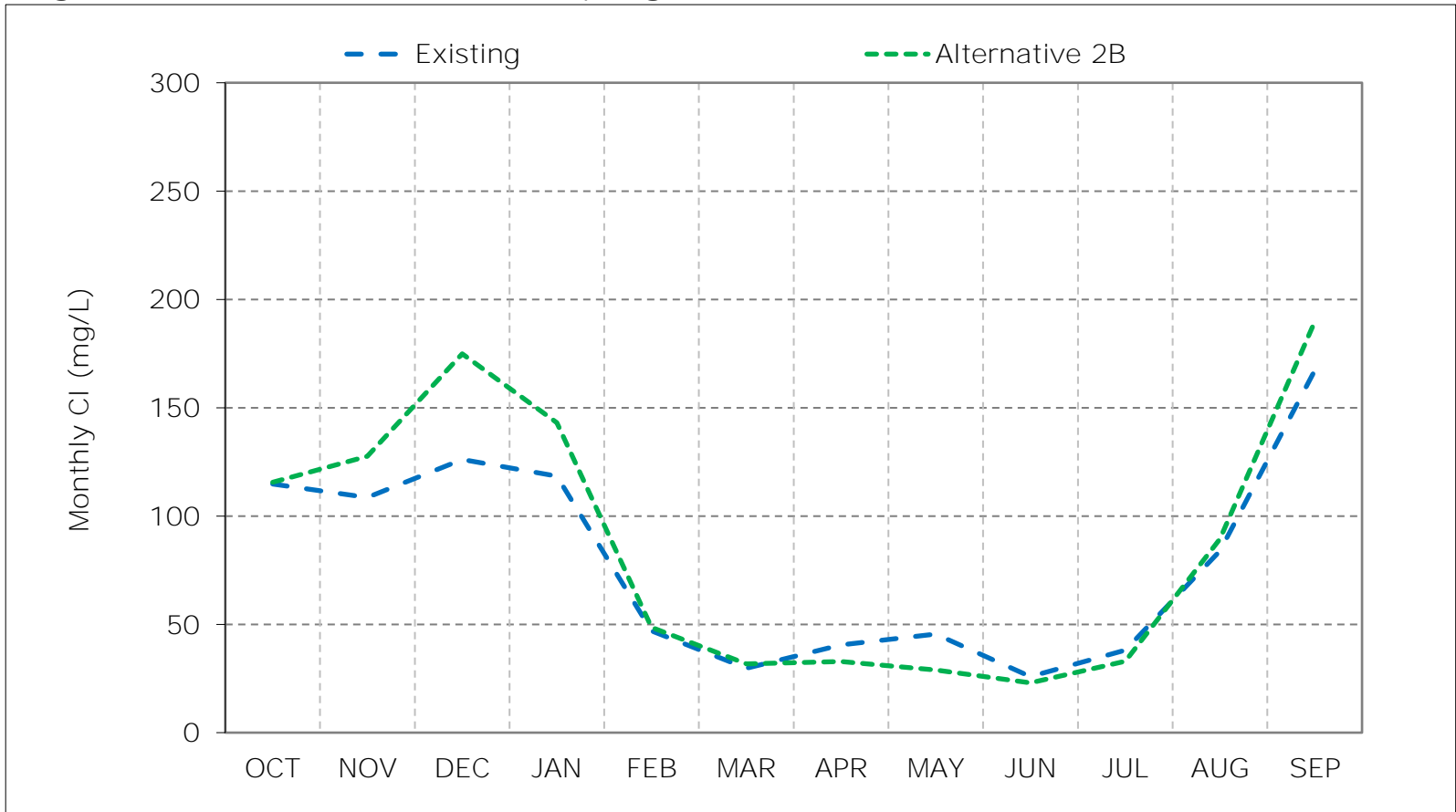
Figure 9-3. Contra Costa Pumping Plant #1 Chloride, Above Normal Year Average C



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

\*These results are displayed with water year - year type sorting.

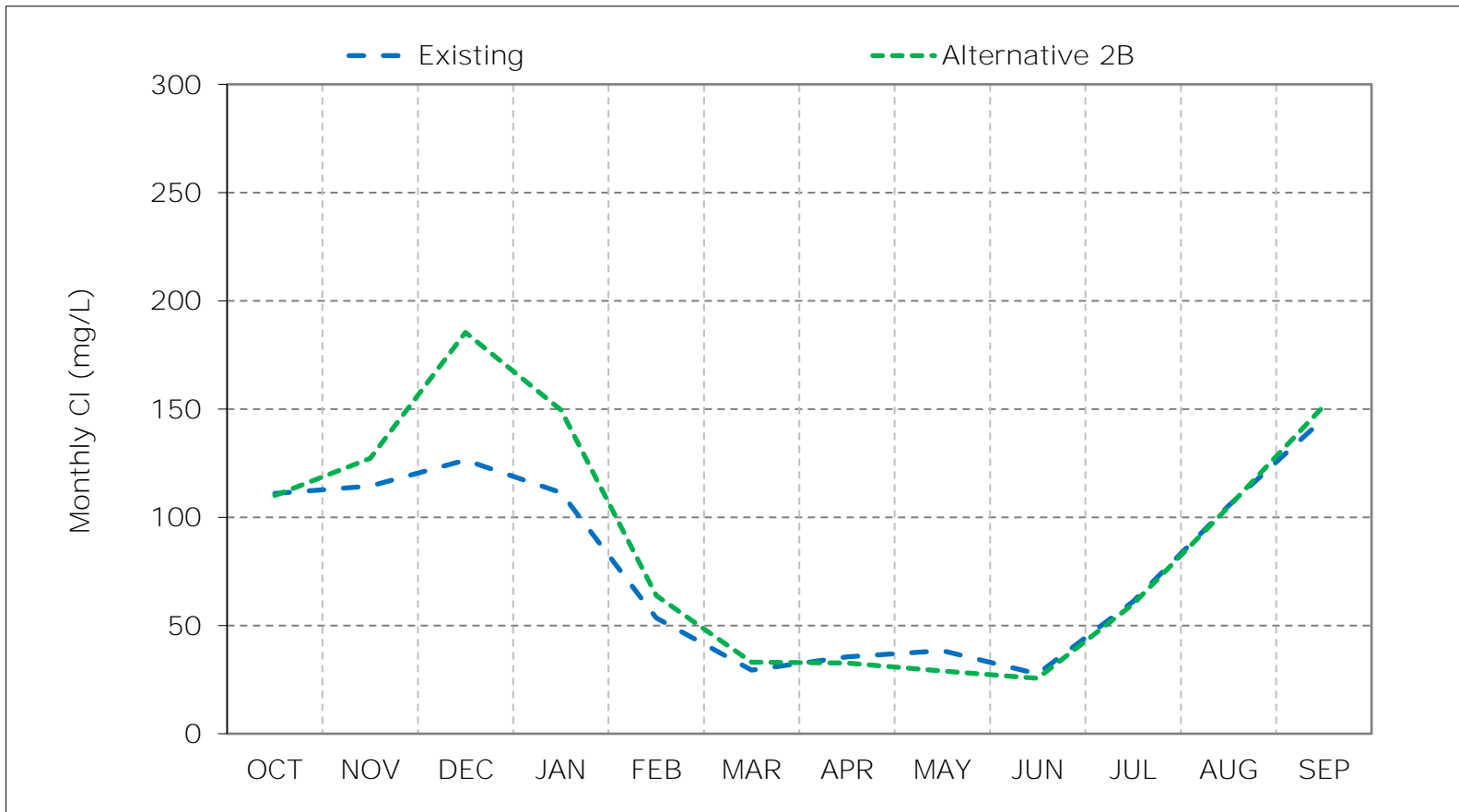
Figure 9-4. Contra Costa Pumping Plant #1 Chloride, Below Normal Year Average C



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

\*These results are displayed with water year - year type sorting.

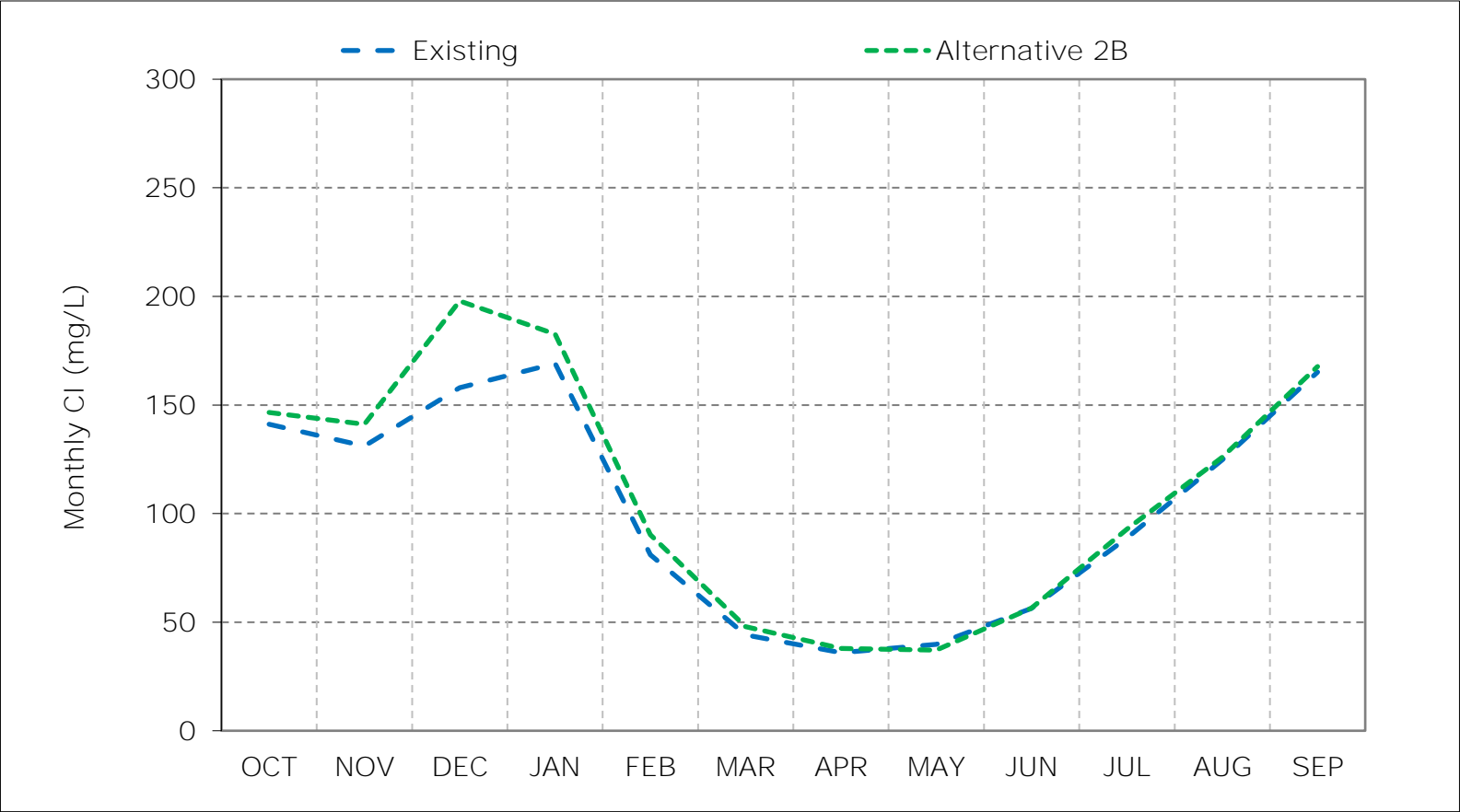
Figure 9-5. Contra Costa Pumping Plant #1 Chloride, Dry Year Average Cl



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

\*These results are displayed with water year - year type sorting.

Figure 9-6. Contra Costa Pumping Plant #1 Chloride, 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 water year - year type sorting.

Figure 9-7. Contra Costa Pumping Plant #1 Chloride, January CI

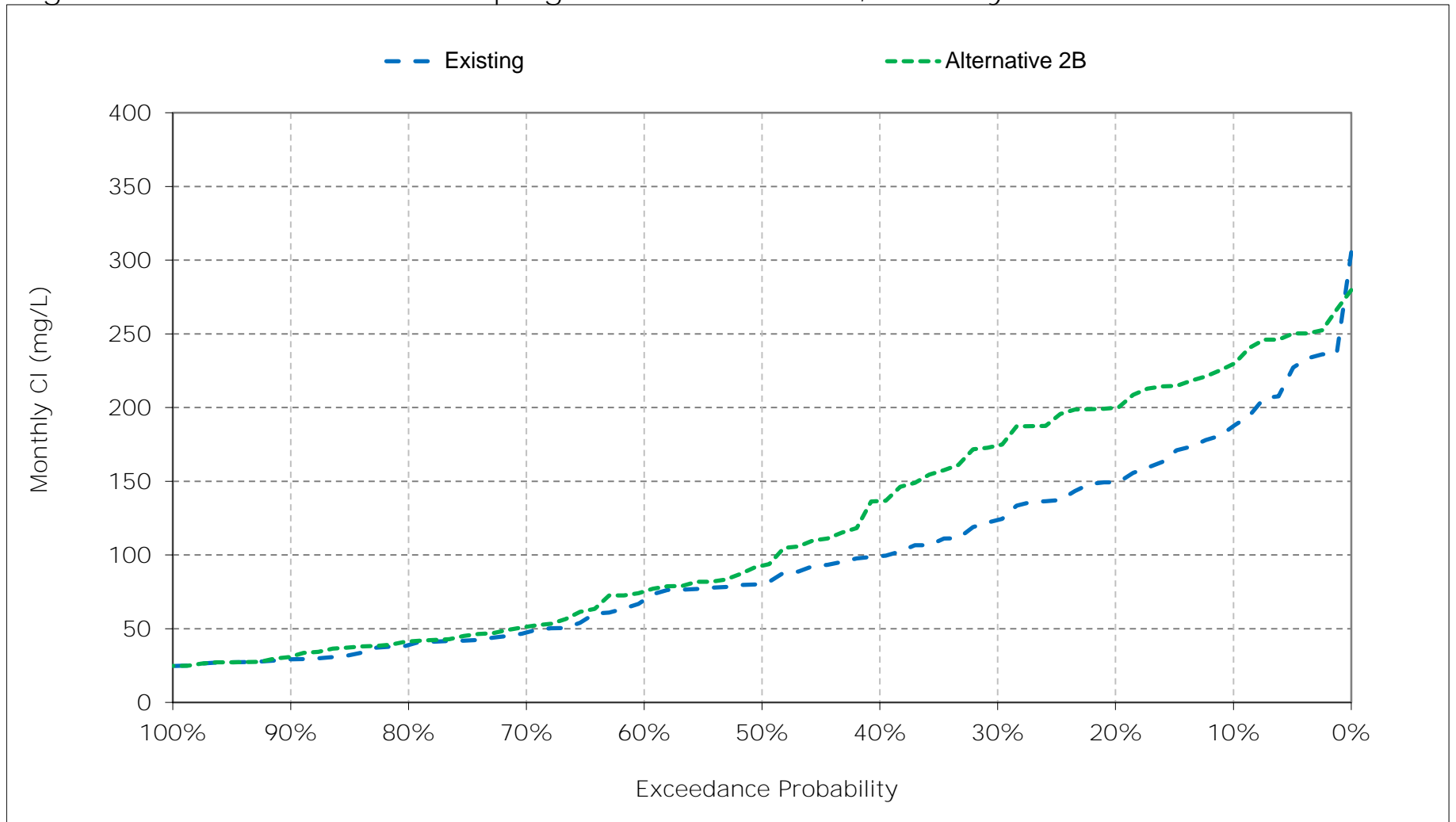


Figure 9-8. Contra Costa Pumping Plant #1 Chloride, February CI

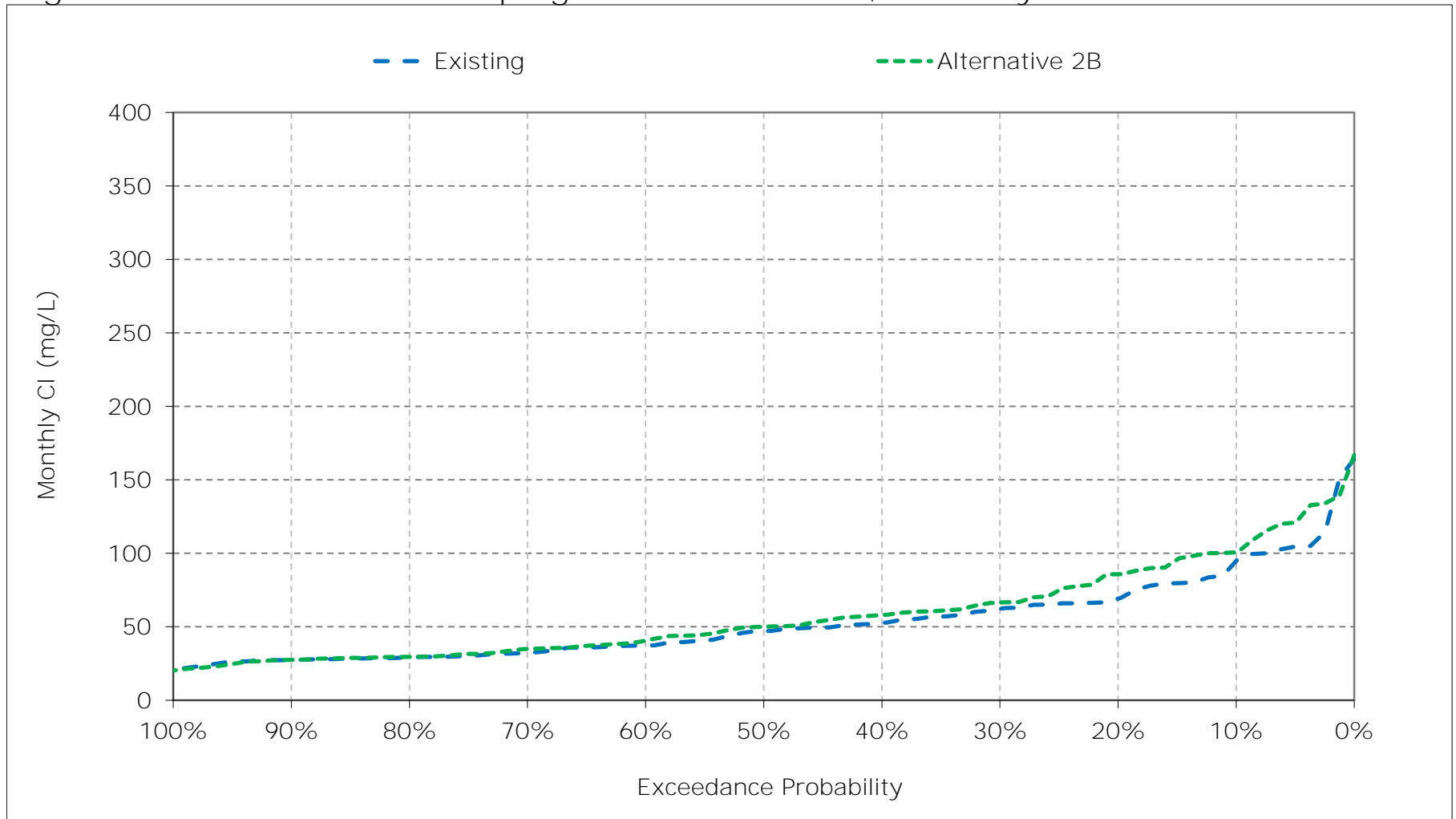


Figure 9-9. Contra Costa Pumping Plant #1 Chloride, March CI

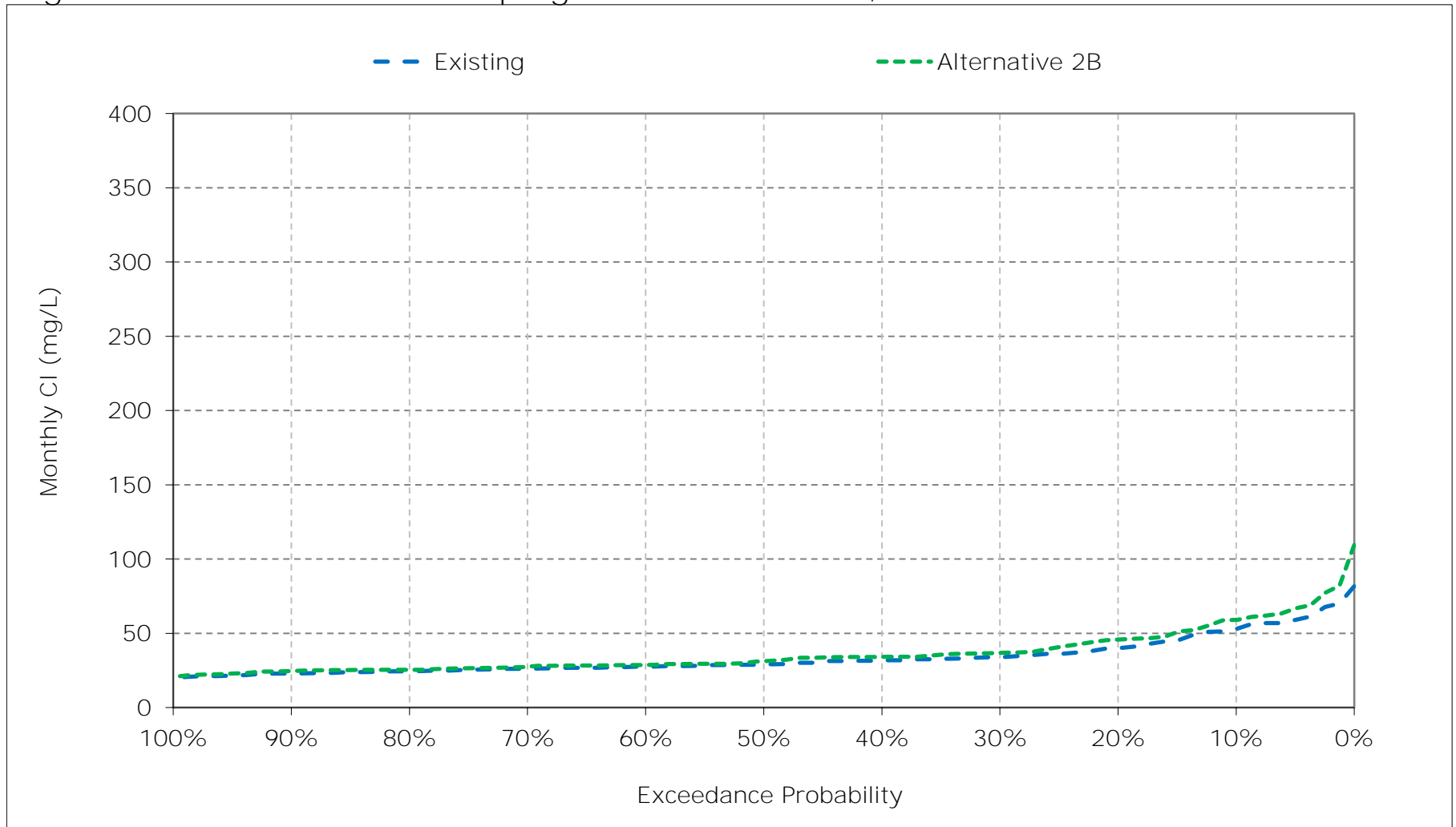




Figure 9-10. Contra Costa Pumping Plant #1 Chloride, April CI

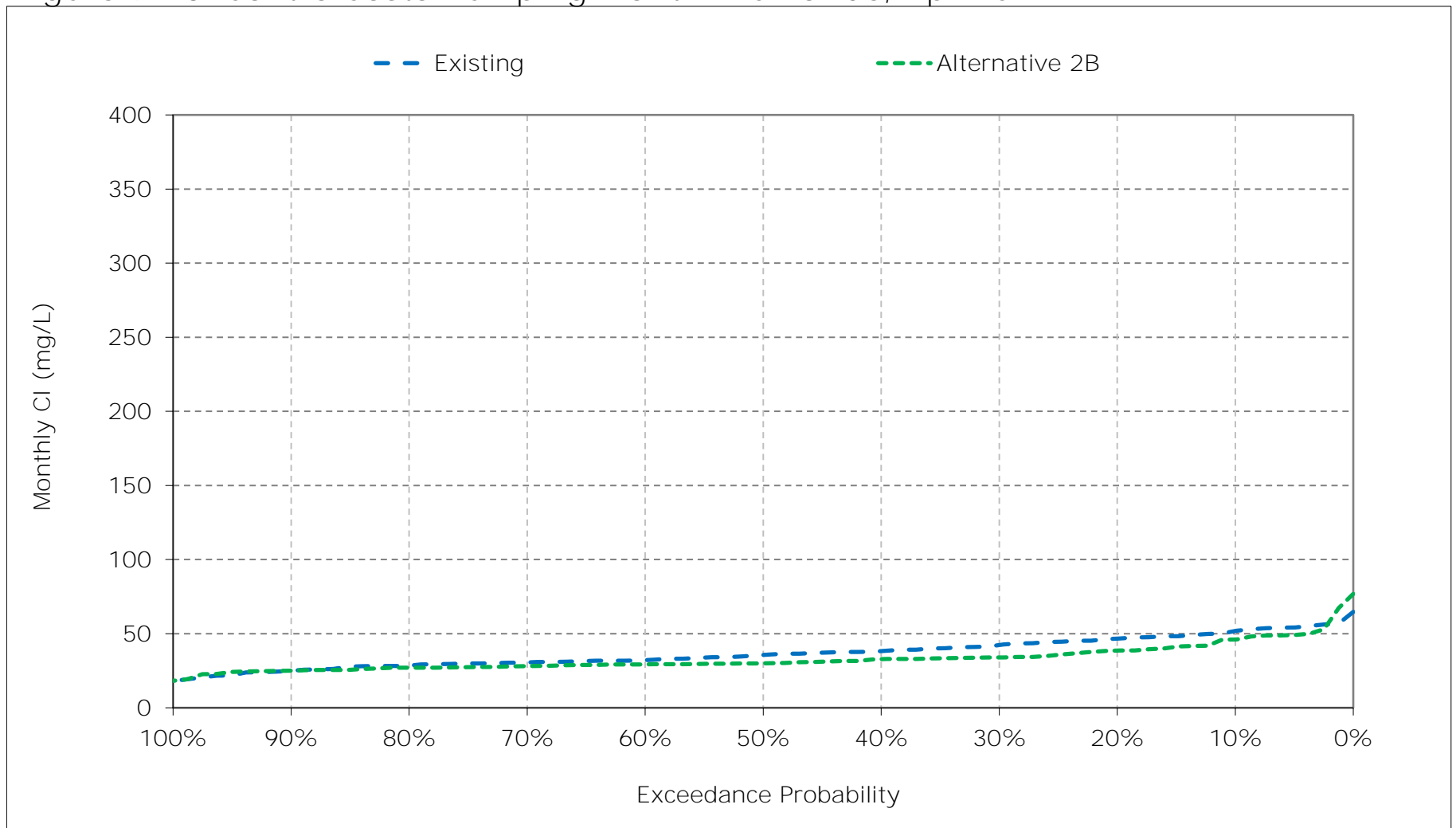


Figure 9-11. Contra Costa Pumping Plant #1 Chloride, May CI

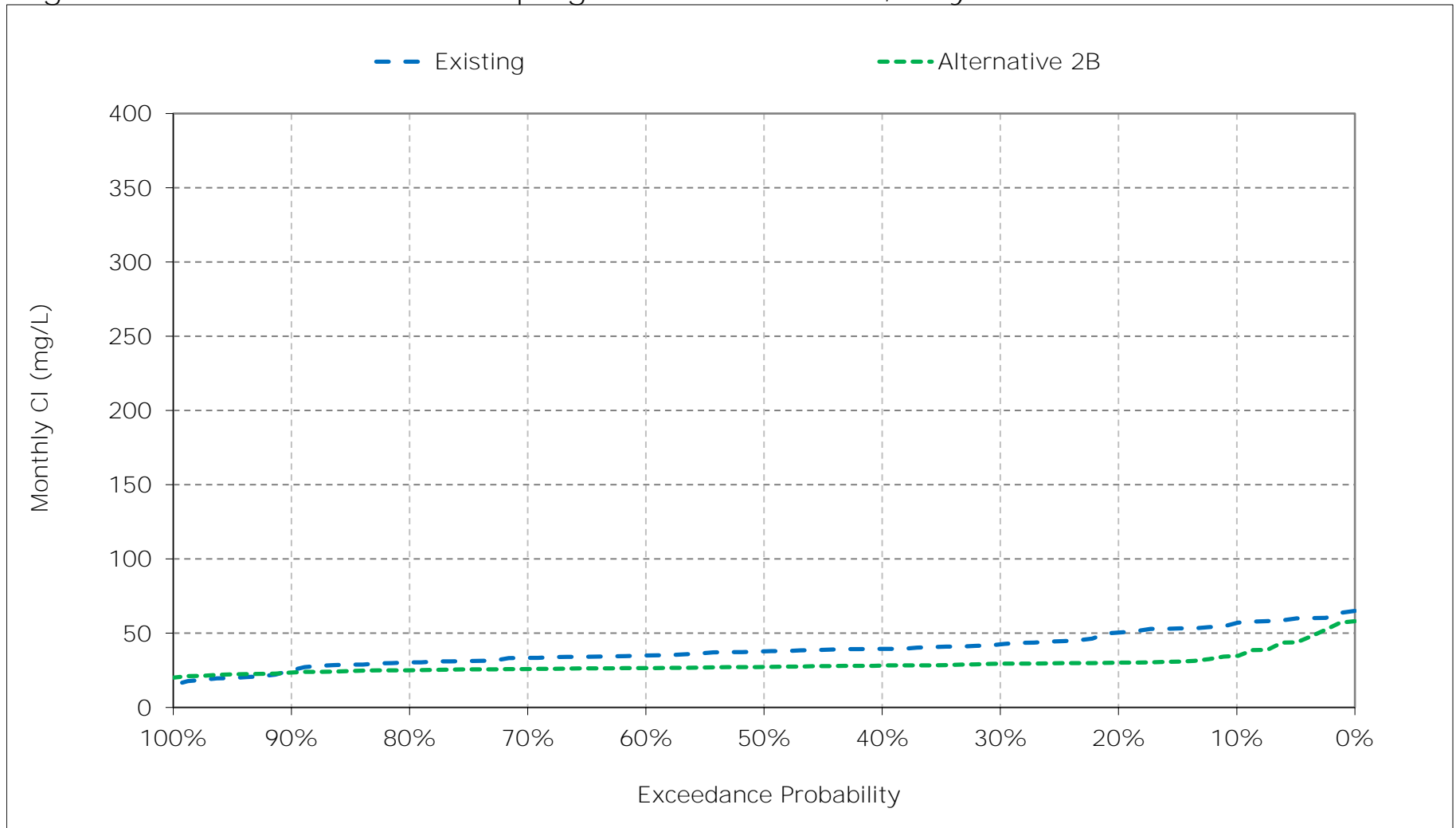


Figure 9-12. Contra Costa Pumping Plant #1 Chloride, June CI

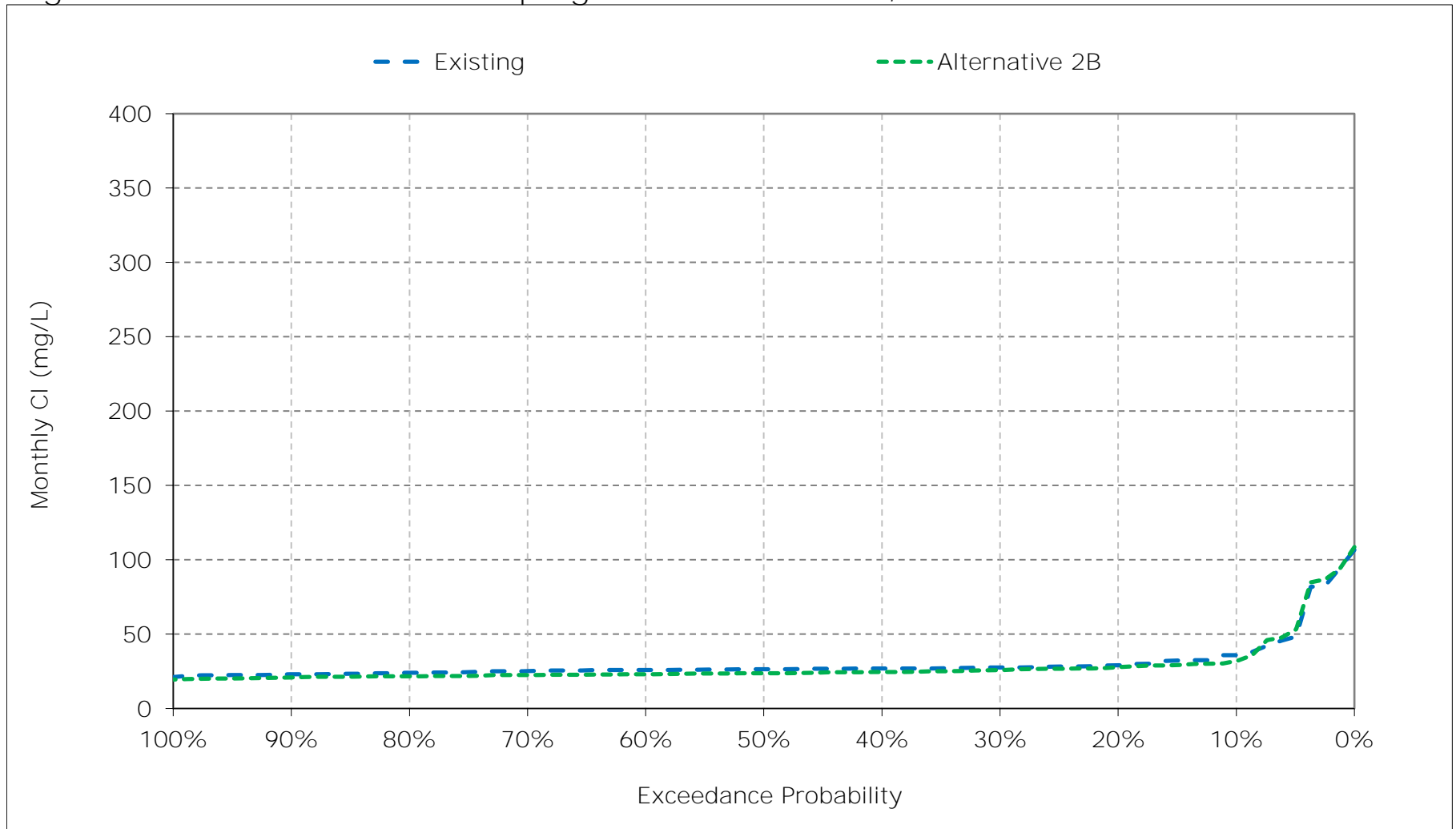


Figure 9-13. Contra Costa Pumping Plant #1 Chloride, July CI

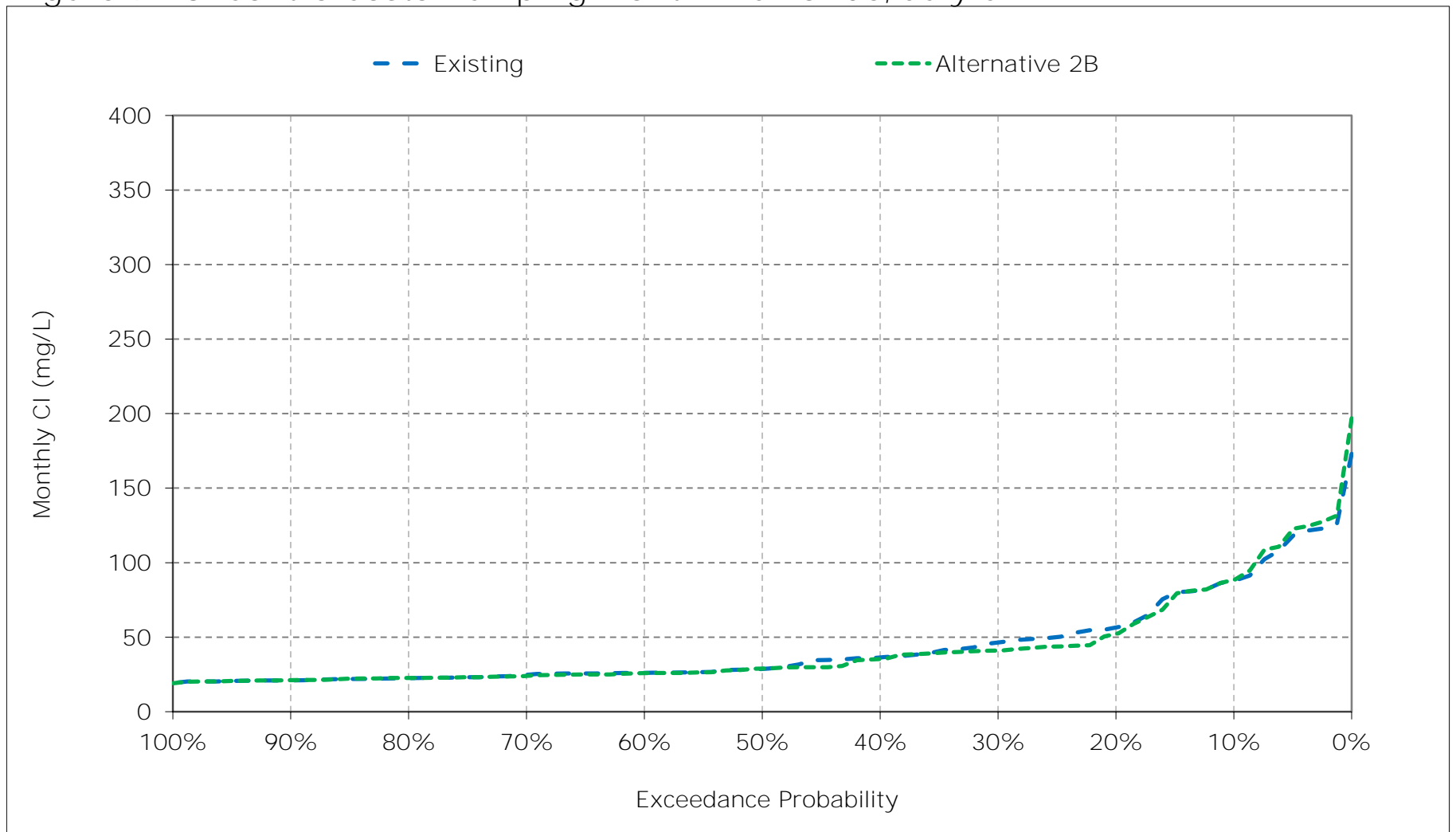


Figure 9-14. Contra Costa Pumping Plant #1 Chloride, August CI

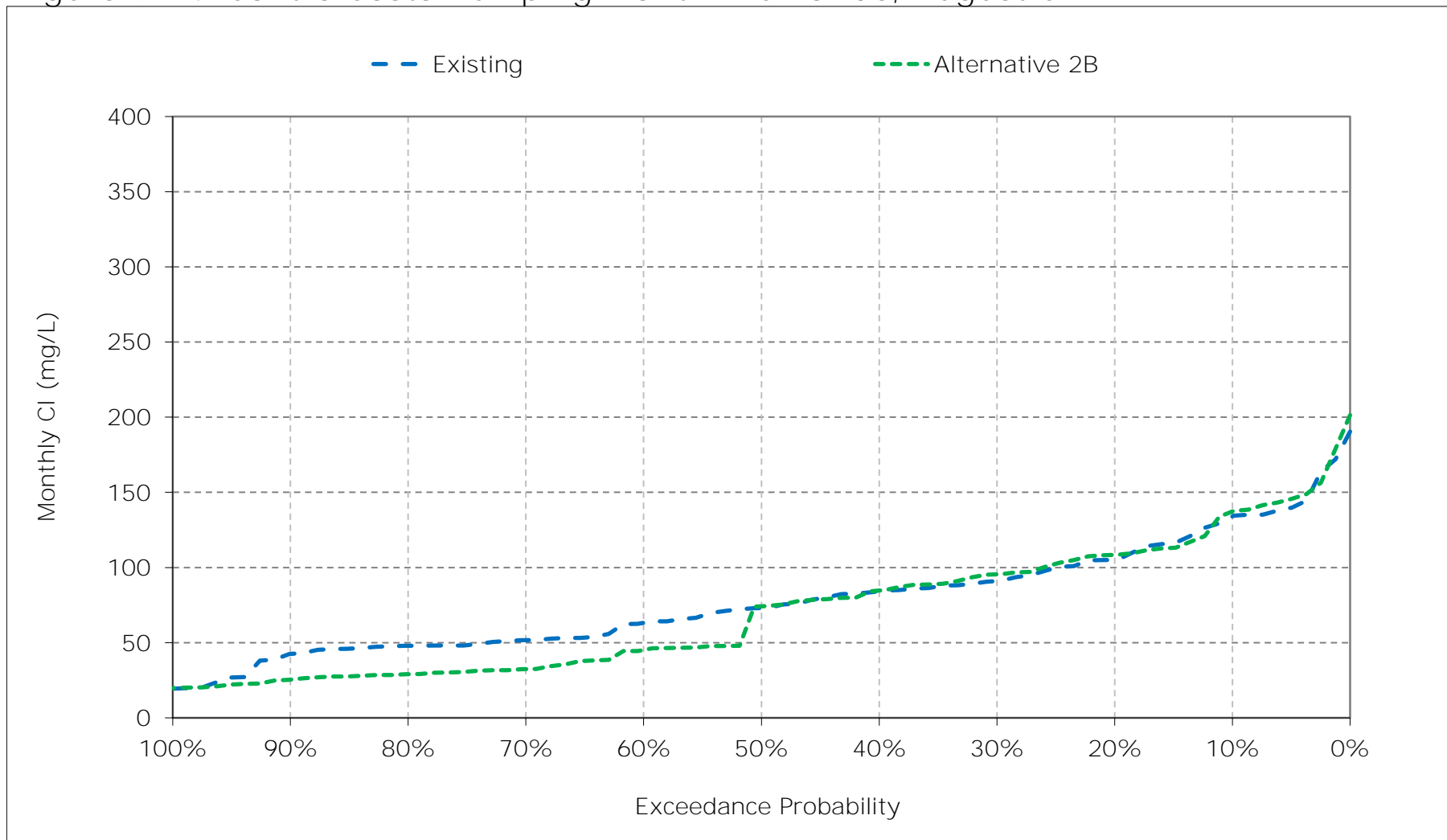


Figure 9-15. Contra Costa Pumping Plant #1 Chloride, September CI

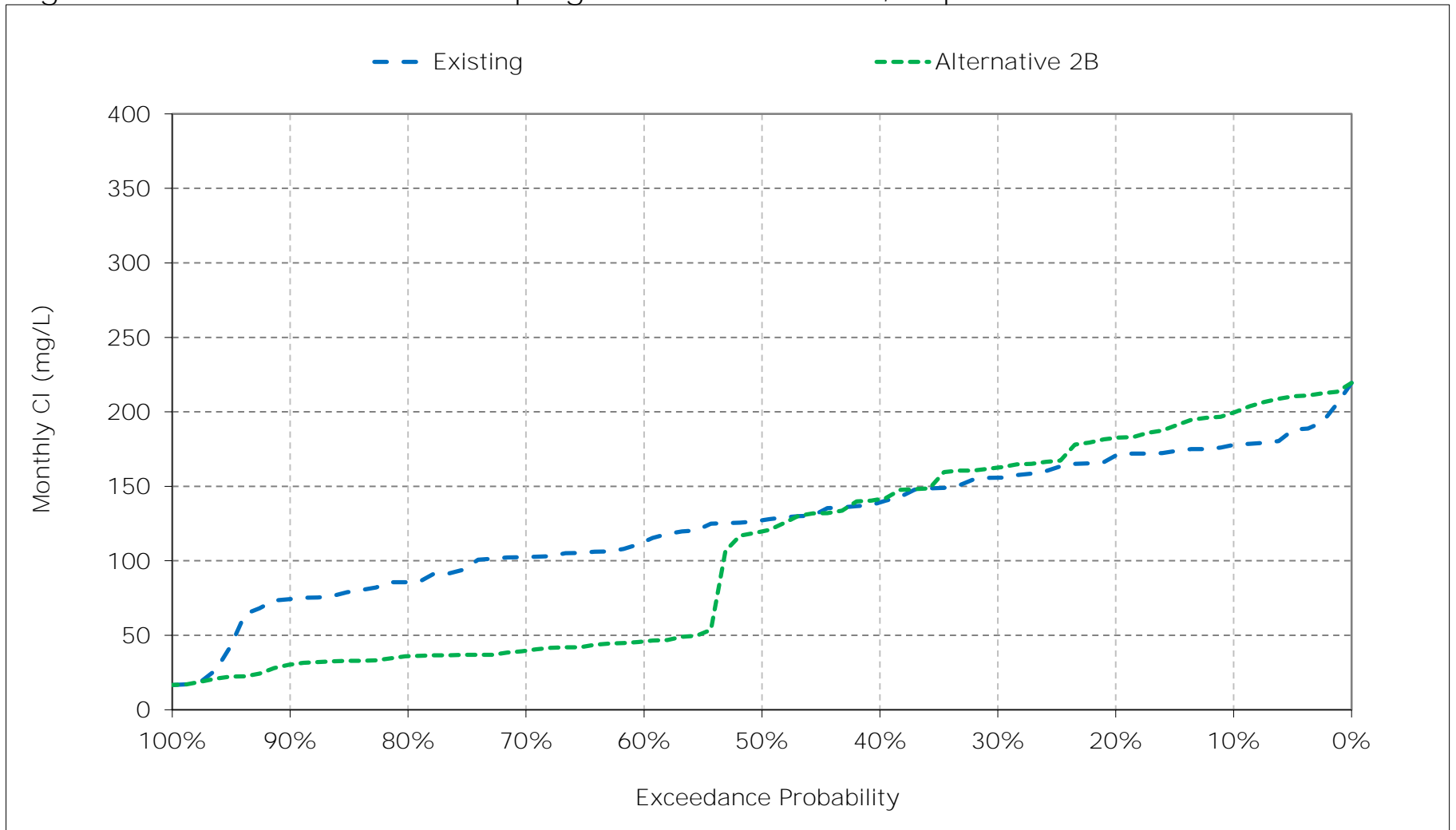


Figure 9-16. Contra Costa Pumping Plant #1 Chloride, October CI

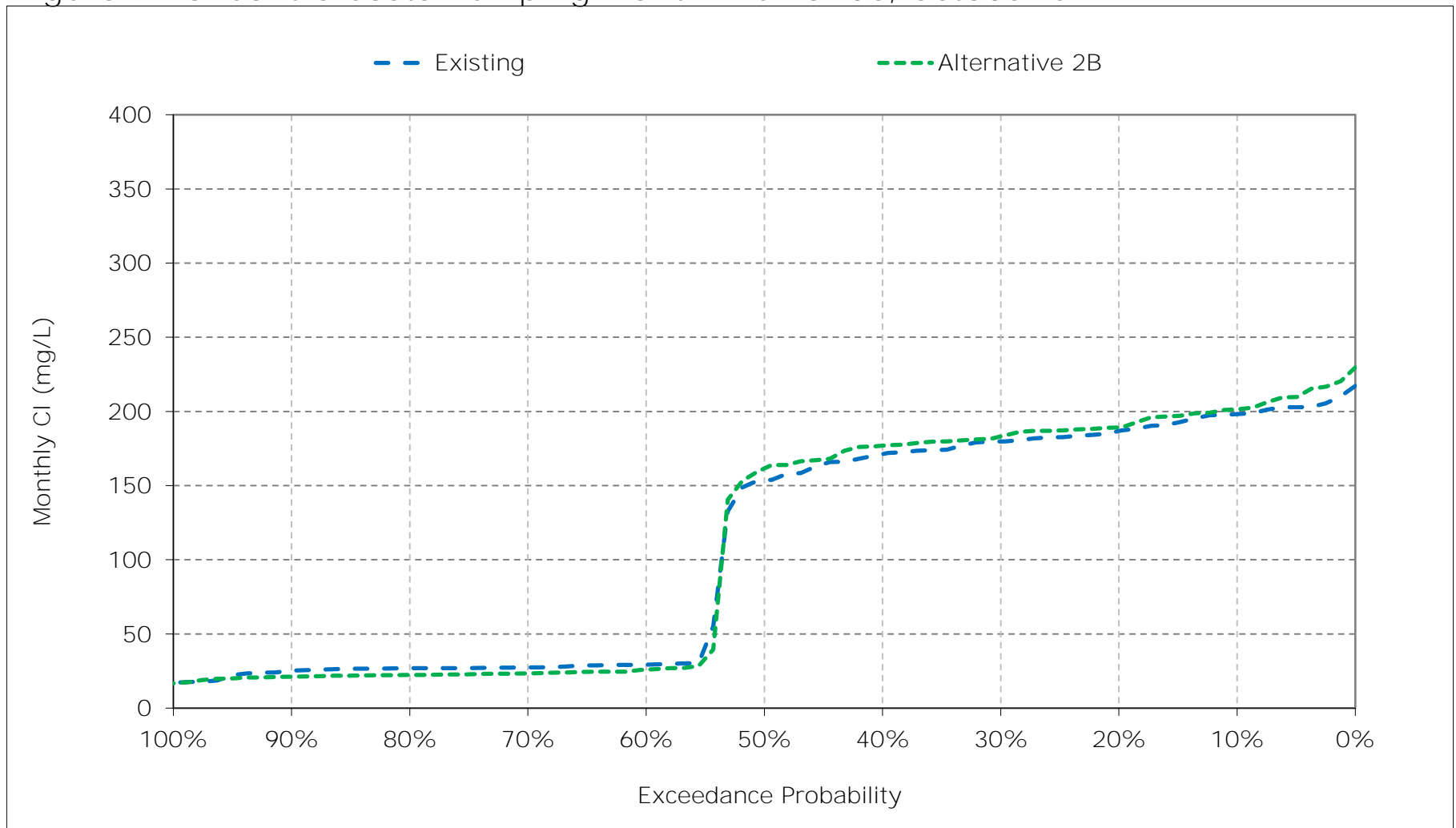


Figure 9-17. Contra Costa Pumping Plant #1 Chloride, November CI

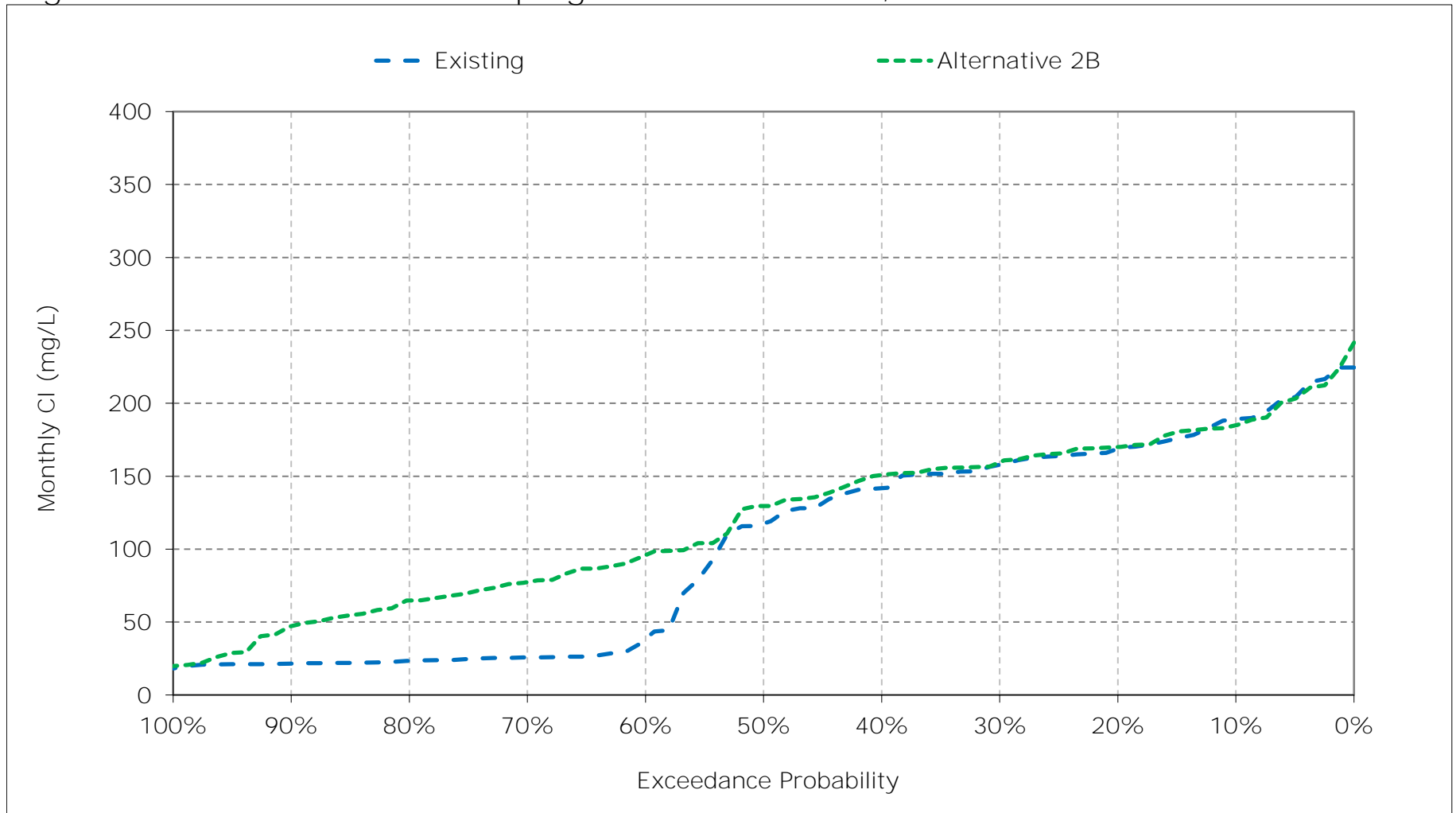




Figure 9-18. Contra Costa Pumping Plant #1 Chloride, December CI

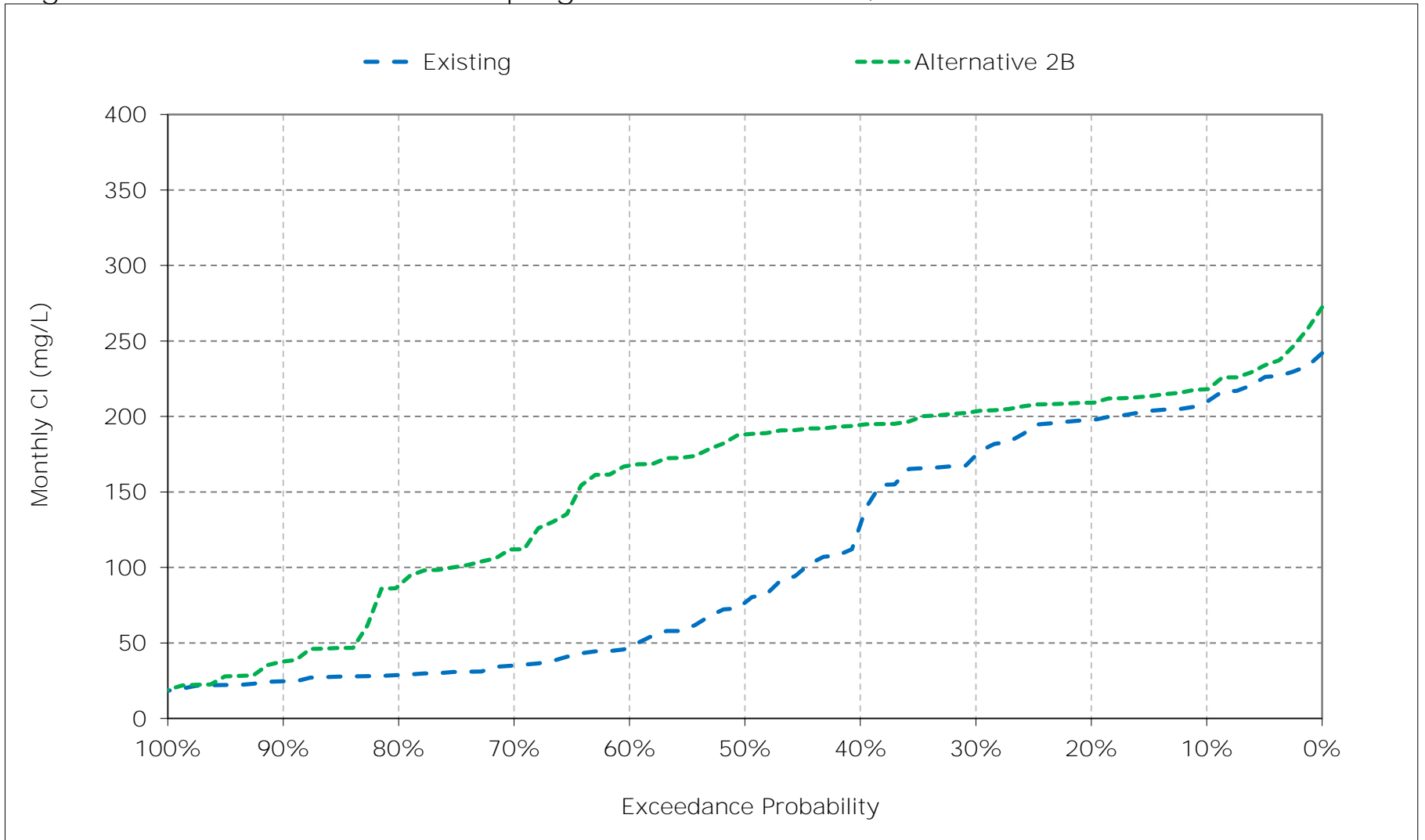


Table 10-1. San Joaquin River at Antioch Chloride, Monthly Cl

Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,016	1,853	1,774	907	298	245	224	408	608	1,018	1,523	1,915
20%	1,886	1,807	1,422	756	166	92	94	241	472	851	1,328	1,797
30%	1,857	1,714	898	542	98	34	35	155	437	801	1,240	1,735
40%	1,741	1,651	744	313	55	27	27	70	321	524	1,007	1,603
50%	1,595	652	568	235	31	24	25	33	260	467	892	1,354
60%	534	443	483	90	26	22	22	26	146	301	862	529
70%	271	210	164	27	24	21	21	23	100	278	804	327
80%	221	178	89	23	22	20	20	20	29	222	742	292
90%	191	158	22	21	20	18	19	19	19	138	681	276
Long Term												
Full Simulation Period <sup>a</sup>	1,128	986	722	359	123	71	74	144	319	553	1,004	1,076
Water Year Types <sup>b</sup>												
Wet (32%)	824	571	194	56	25	21	21	26	72	187	682	258
Above Normal (15%)	1,199	987	687	211	45	22	22	27	167	271	762	521
Below Normal (17%)	1,191	1,084	956	389	66	39	37	73	254	487	939	1,471
Dry (22%)	1,210	1,179	886	543	181	84	81	174	430	827	1,280	1,768
Critical (15%)	1,522	1,477	1,382	849	391	246	270	556	913	1,291	1,602	1,906

Alternative 2B

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,982	1,848	1,739	1,106	307	249	239	424	626	1,044	1,497	1,916
20%	1,891	1,806	1,439	876	184	99	102	301	506	875	1,337	1,808
30%	1,835	1,737	1,386	607	104	31	46	212	446	796	1,283	1,752
40%	1,767	1,651	1,233	366	60	26	30	90	346	567	1,171	1,678
50%	1,580	1,117	967	235	34	24	25	43	242	475	1,020	1,430
60%	499	1,046	698	95	27	22	21	29	170	322	692	389
70%	468	1,010	312	28	24	21	20	22	109	294	616	369
80%	445	841	168	24	22	20	19	18	29	231	583	349
90%	406	347	49	21	20	18	18	17	18	138	524	305
Long Term												
Full Simulation Period <sup>a</sup>	1,178	1,252	900	399	135	73	77	164	331	562	961	1,095
Water Year Types <sup>b</sup>												
Wet (32%)	896	912	309	59	25	21	21	32	83	194	517	307
Above Normal (15%)	1,262	1,237	922	247	42	22	22	31	160	278	620	366
Below Normal (17%)	1,256	1,340	1,175	418	66	37	42	99	255	520	1,091	1,584
Dry (22%)	1,248	1,425	1,112	637	211	84	89	216	459	833	1,308	1,794
Critical (15%)	1,508	1,643	1,521	909	435	258	277	578	940	1,287	1,593	1,911

Alternative 2B minus Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-34	-5	-35	199	9	4	15	15	18	25	-26	1
20%	5	-1	17	120	18	7	8	60	33	24	9	11
30%	-22	23	488	65	6	-3	12	57	10	-6	43	17
40%	26	0	490	53	4	-1	3	20	25	44	164	75
50%	-15	465	399	-1	3	0	0	10	-18	8	128	76
60%	-35	603	215	5	1	0	-1	3	24	20	-170	-141
70%	197	800	148	1	0	0	-1	-1	9	16	-187	42
80%	224	664	80	1	0	0	-1	-2	0	9	-159	58
90%	215	189	27	0	0	0	-1	-2	-1	0	-157	28
Long Term												
Full Simulation Period <sup>a</sup>	50	267	178	41	13	2	3	20	13	9	-42	18
Water Year Types <sup>b</sup>												
Wet (32%)	72	341	115	3	-1	0	0	6	11	7	-165	49
Above Normal (15%)	62	251	235	36	-3	0	0	5	-7	7	-142	-156
Below Normal (17%)	66	256	219	29	0	-1	5	27	2	33	153	113
Dry (22%)	38	246	226	94	30	0	7	42	29	6	28	26
Critical (15%)	-13	166	140	60	45	12	7	22	26	-4	-9	5

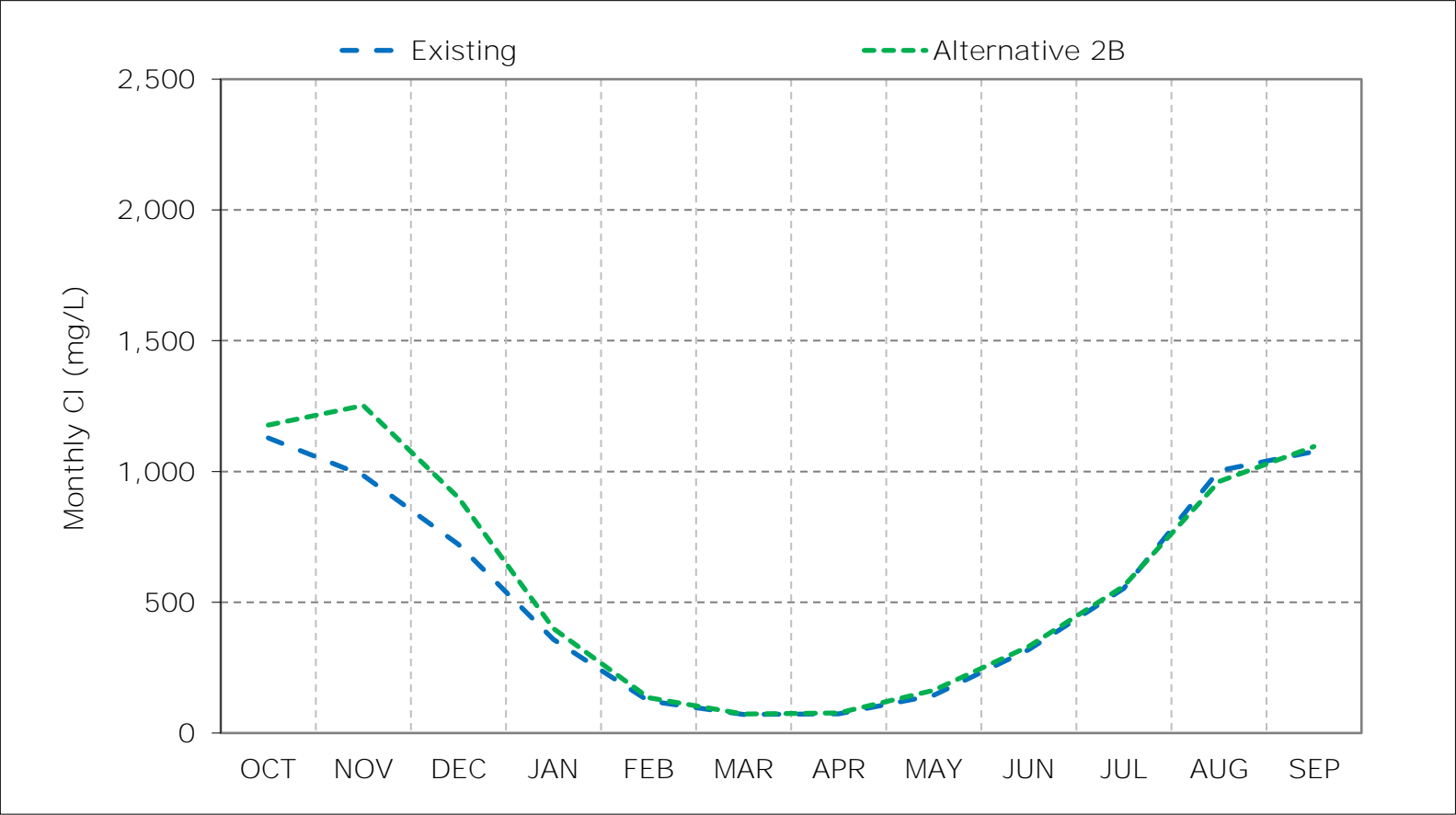
a Based on the 82-year simulation period.

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 water year - year type sorting.

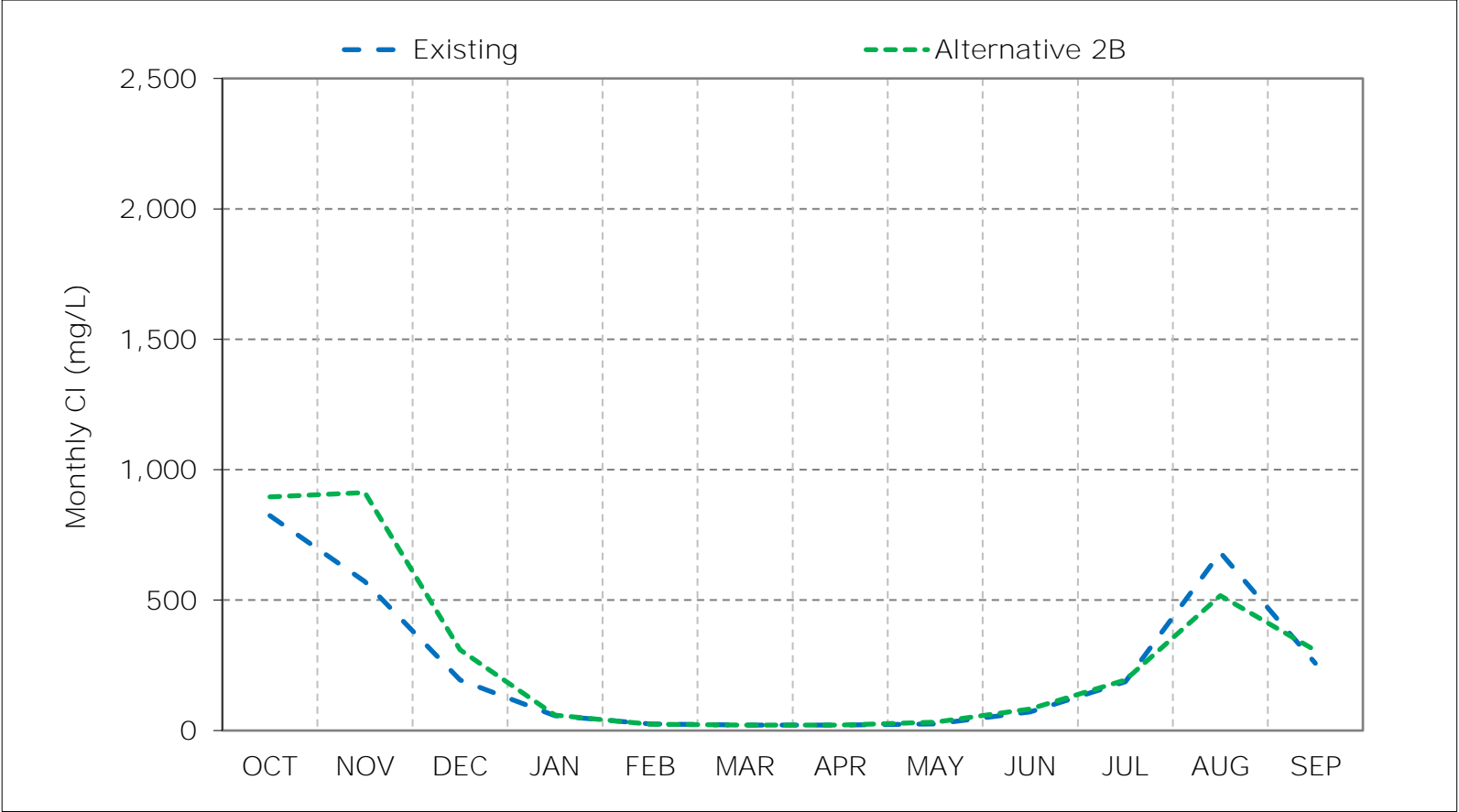
d Positive differences are highted in red color which indicate increase in Chloride (Cl).

Figure 10-1. San Joaquin River at Antioch Chloride, Long-Term Average Cl



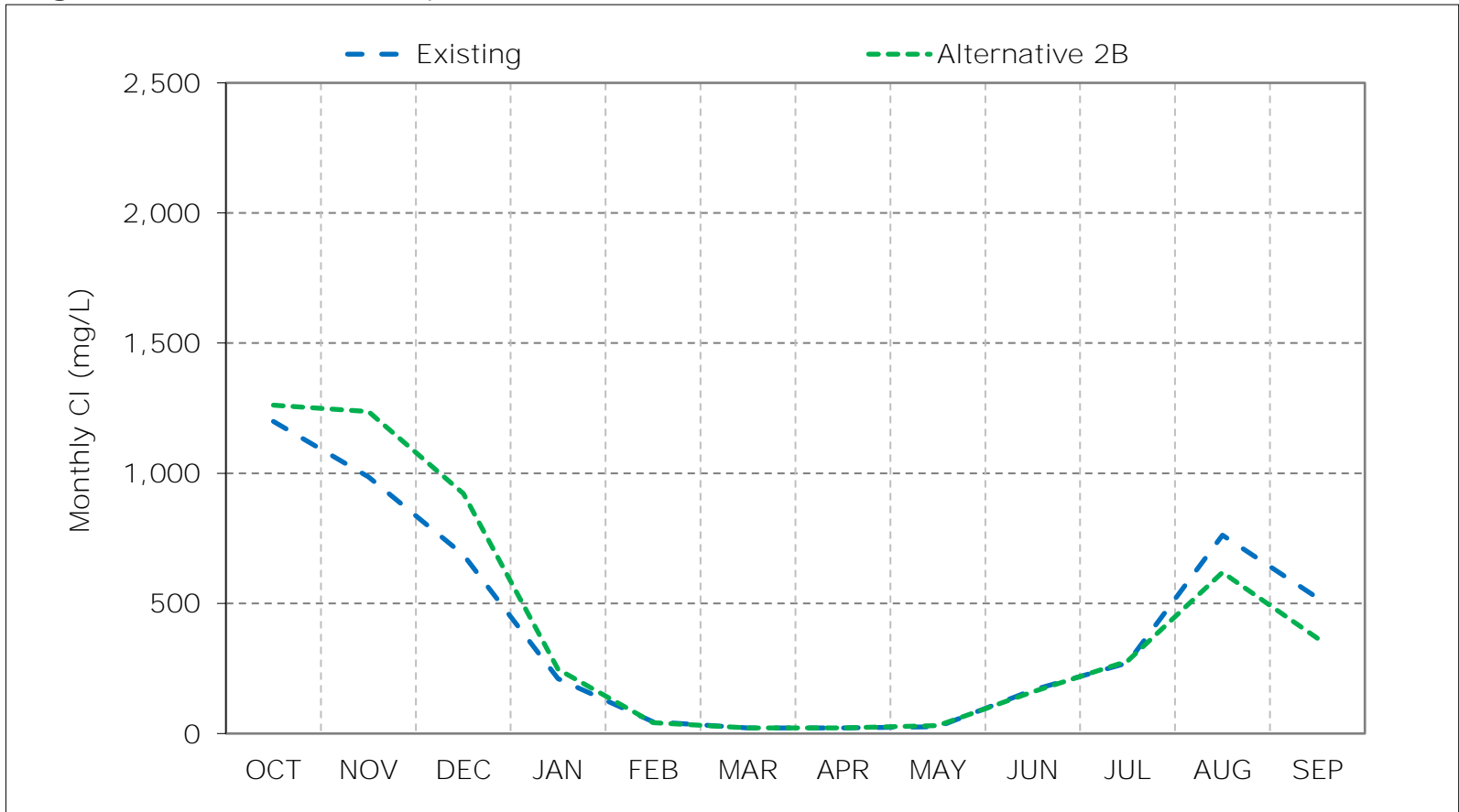
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 10-2. San Joaquin River at Antioch Chloride, 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 water year - year type sorting.

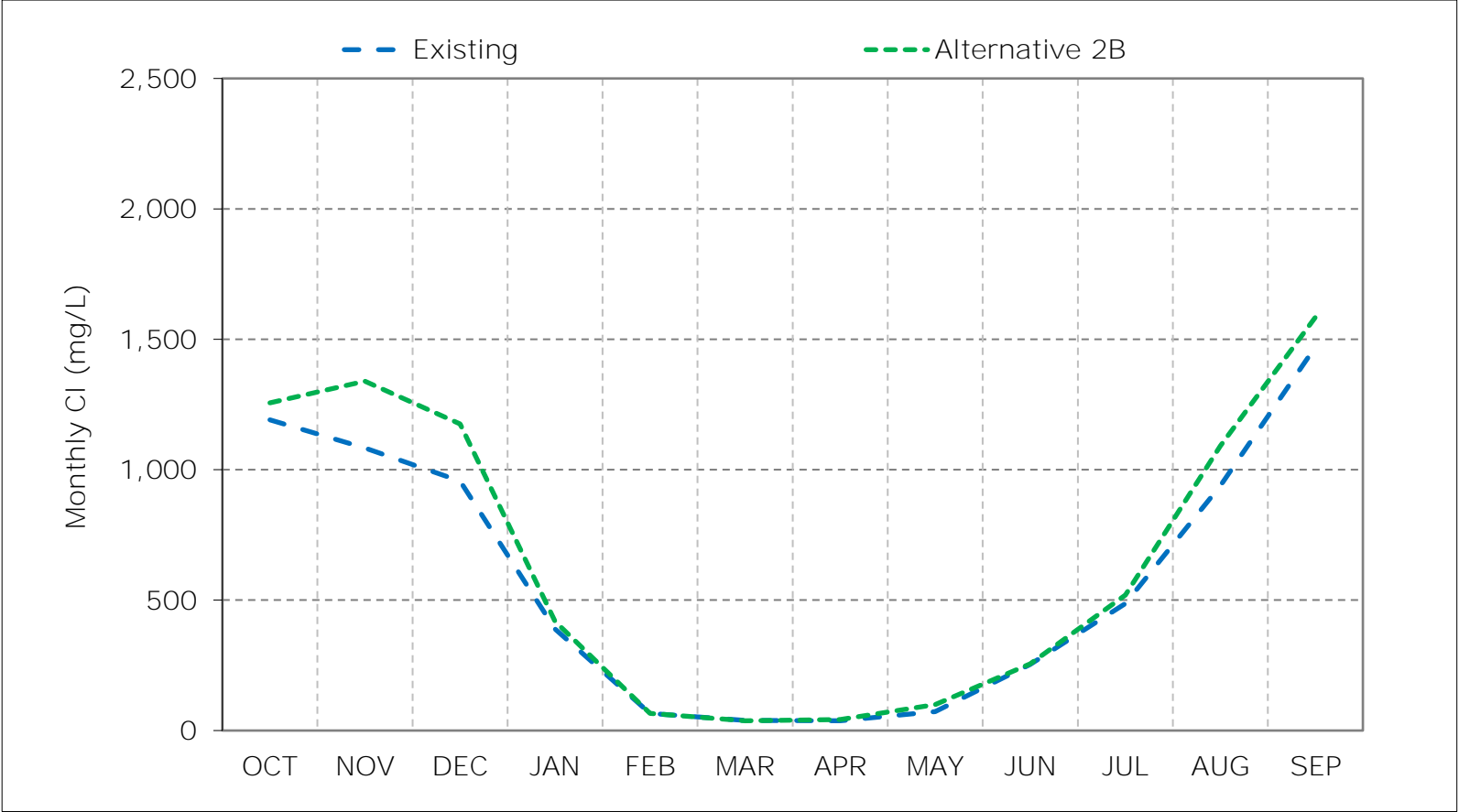
Figure 10-3. San Joaquin River at Antioch Chloride, Above Normal Year Average Cl



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

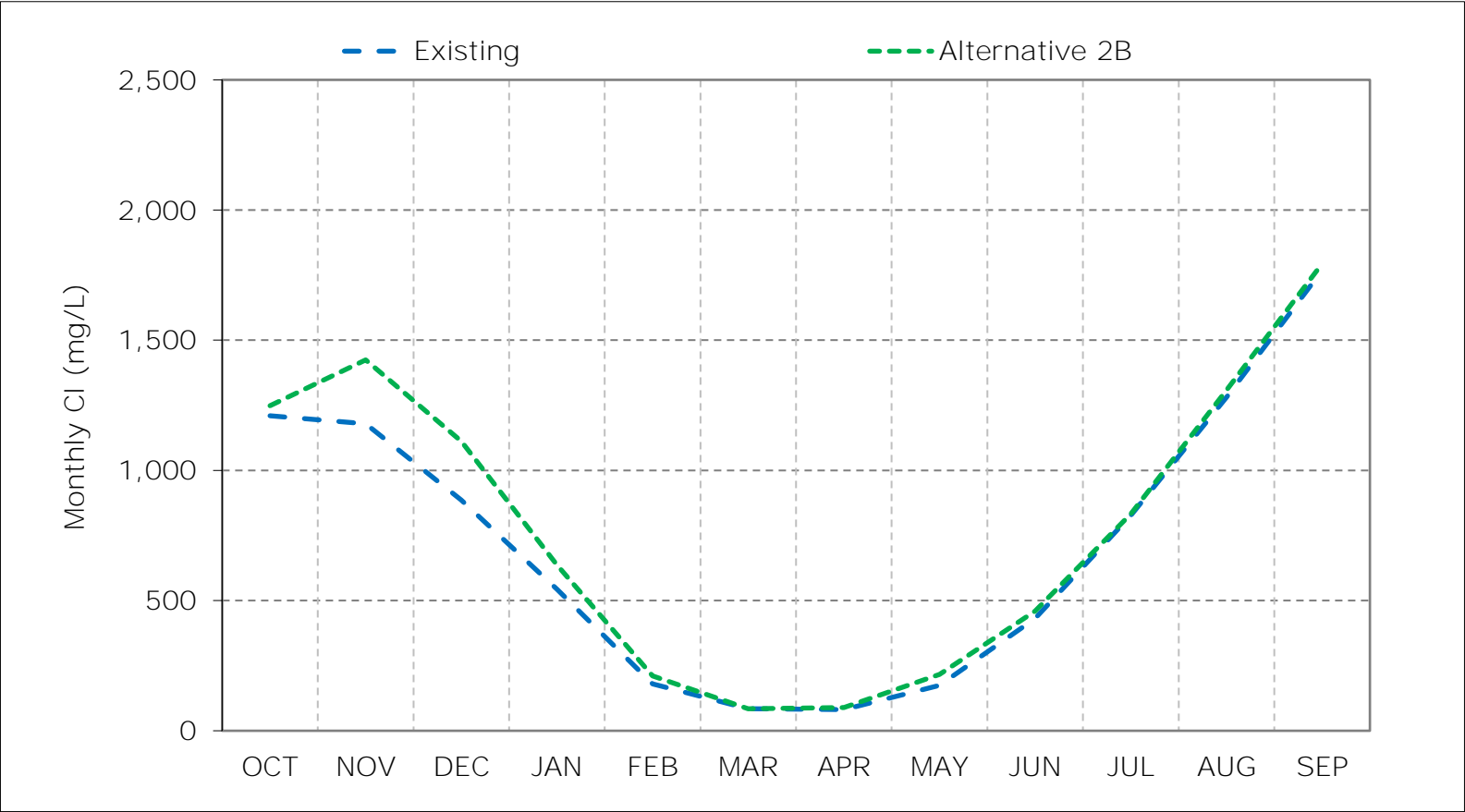
\*These results are displayed with water year - year type sorting.

Figure 10-4. San Joaquin River at Antioch Chloride, Below Normal Year Average Cl



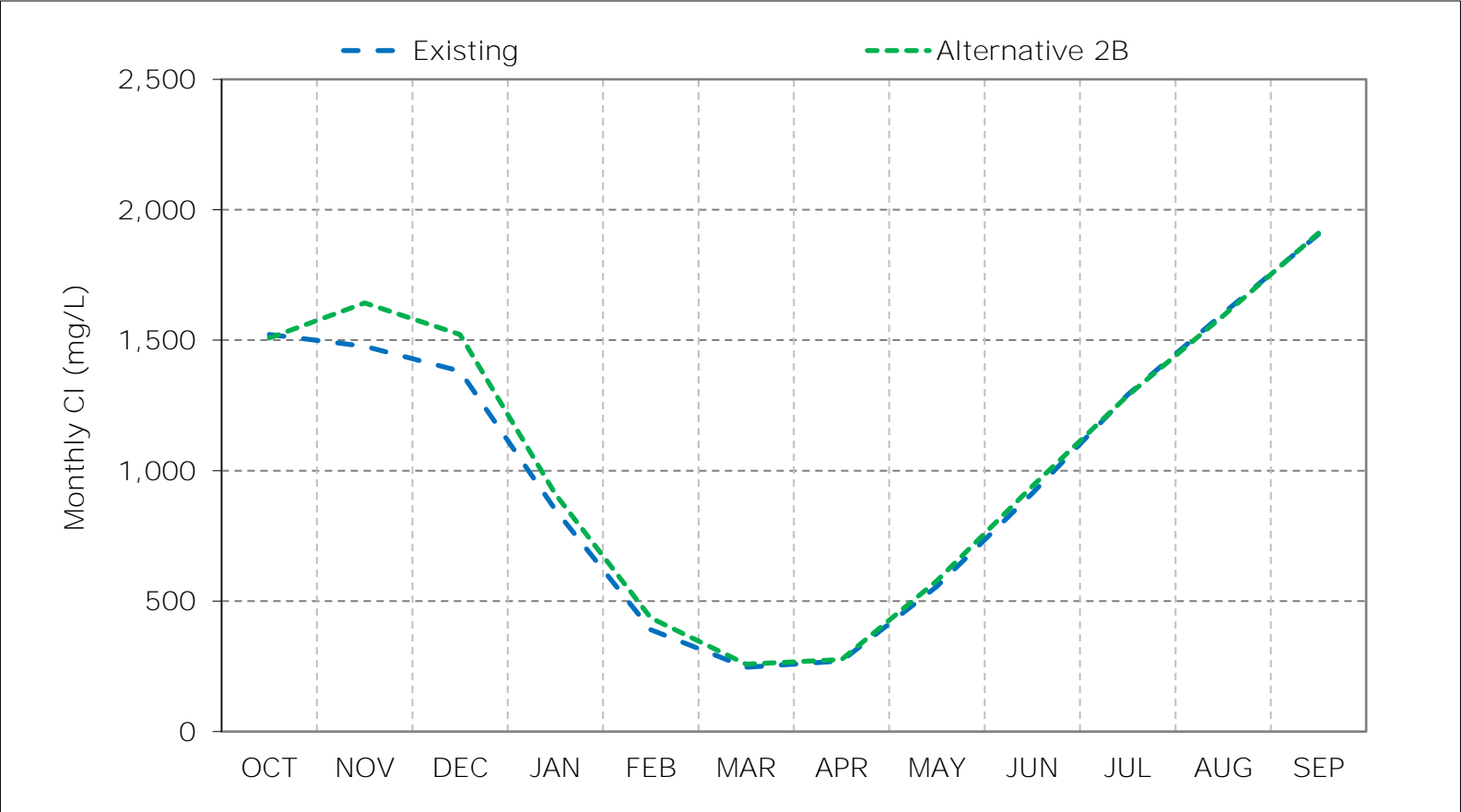
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 10-5. San Joaquin River at Antioch Chloride, 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 water year - year type sorting.

Figure 10-6. San Joaquin River at Antioch Chloride, 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 water year - year type sorting.



Figure 10-7. San Joaquin River at Antioch Chloride, January CI

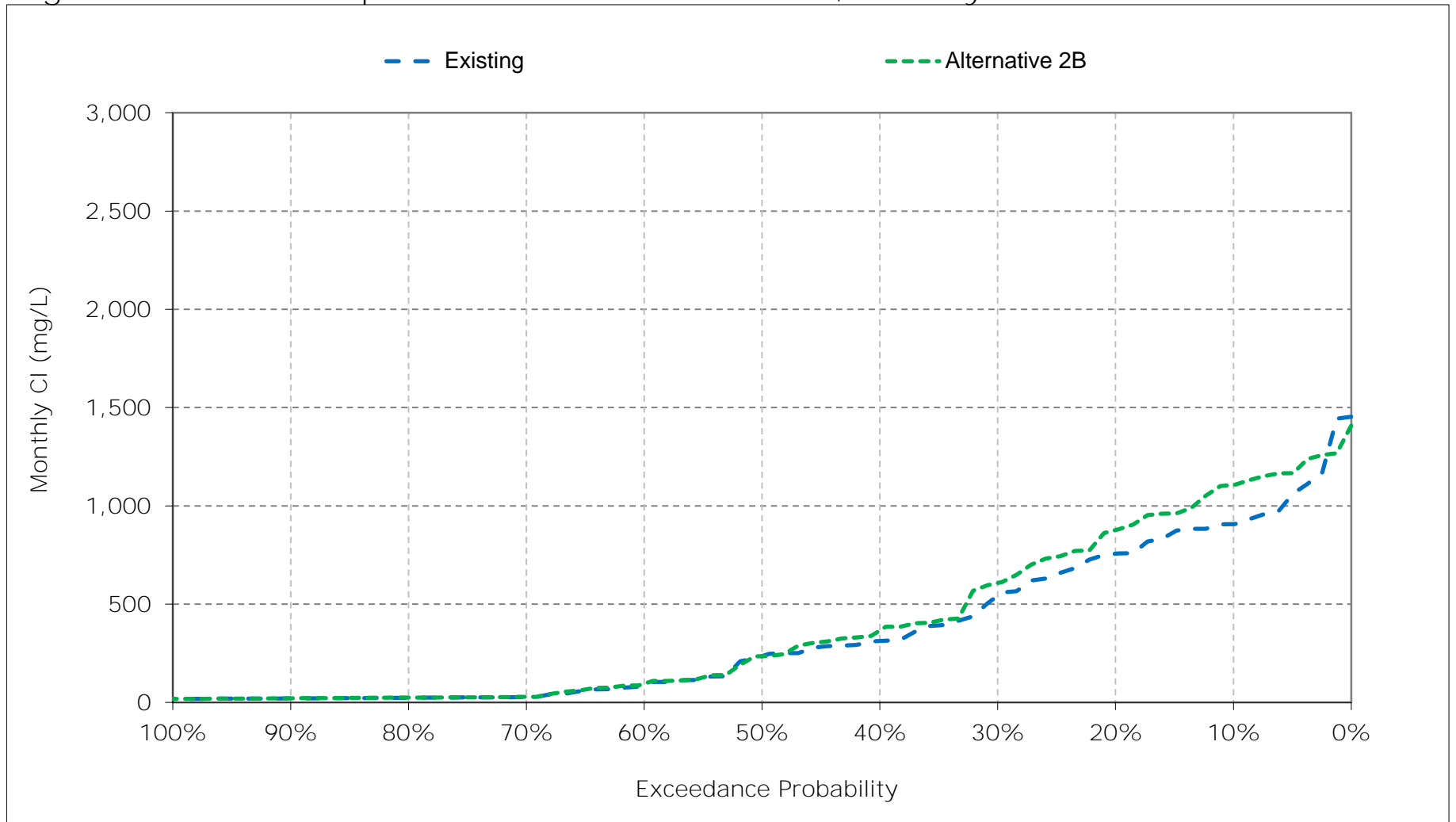


Figure 10-8. San Joaquin River at Antioch Chloride, February CI

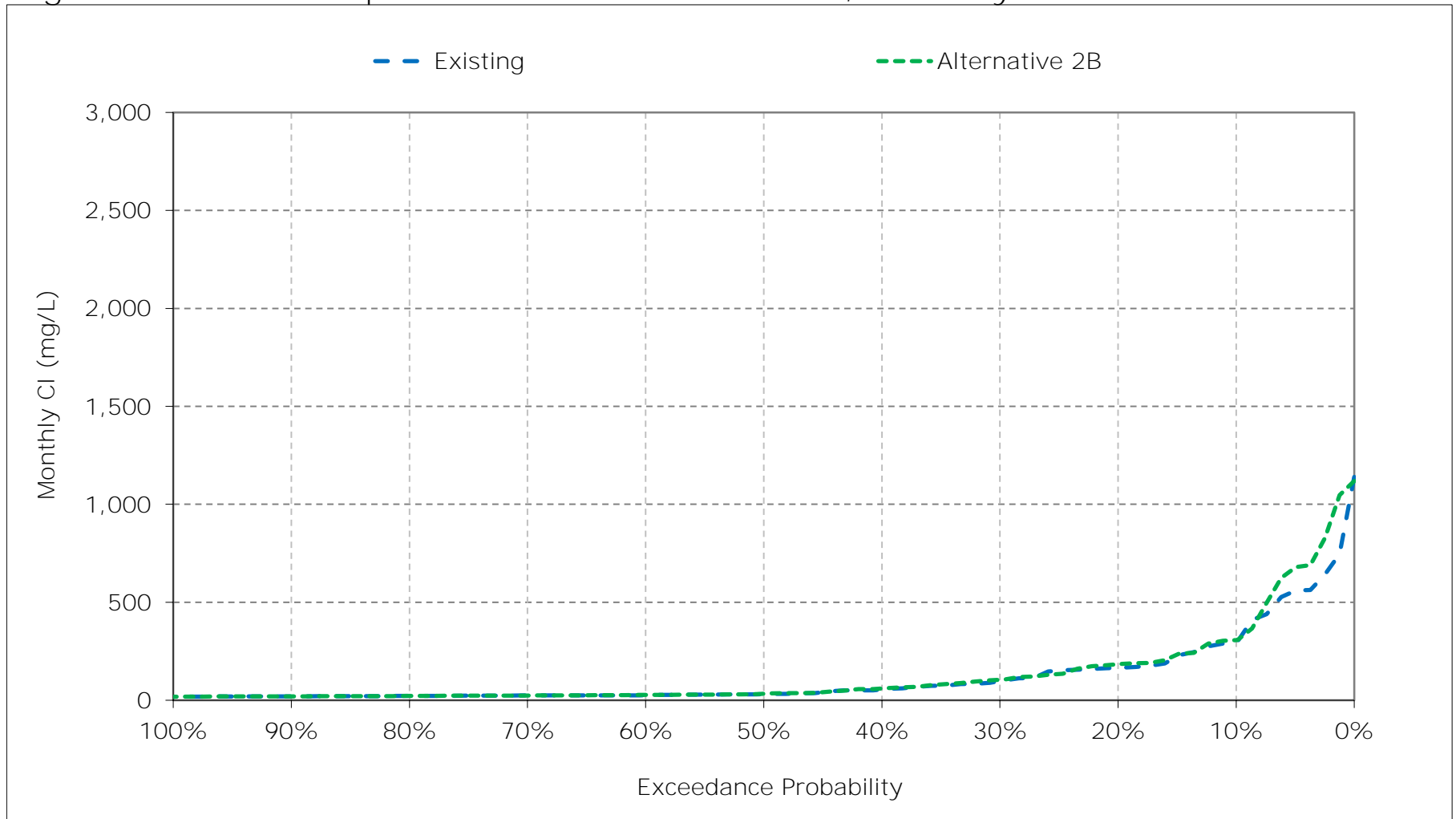


Figure 10-9. San Joaquin River at Antioch Chloride, March CI

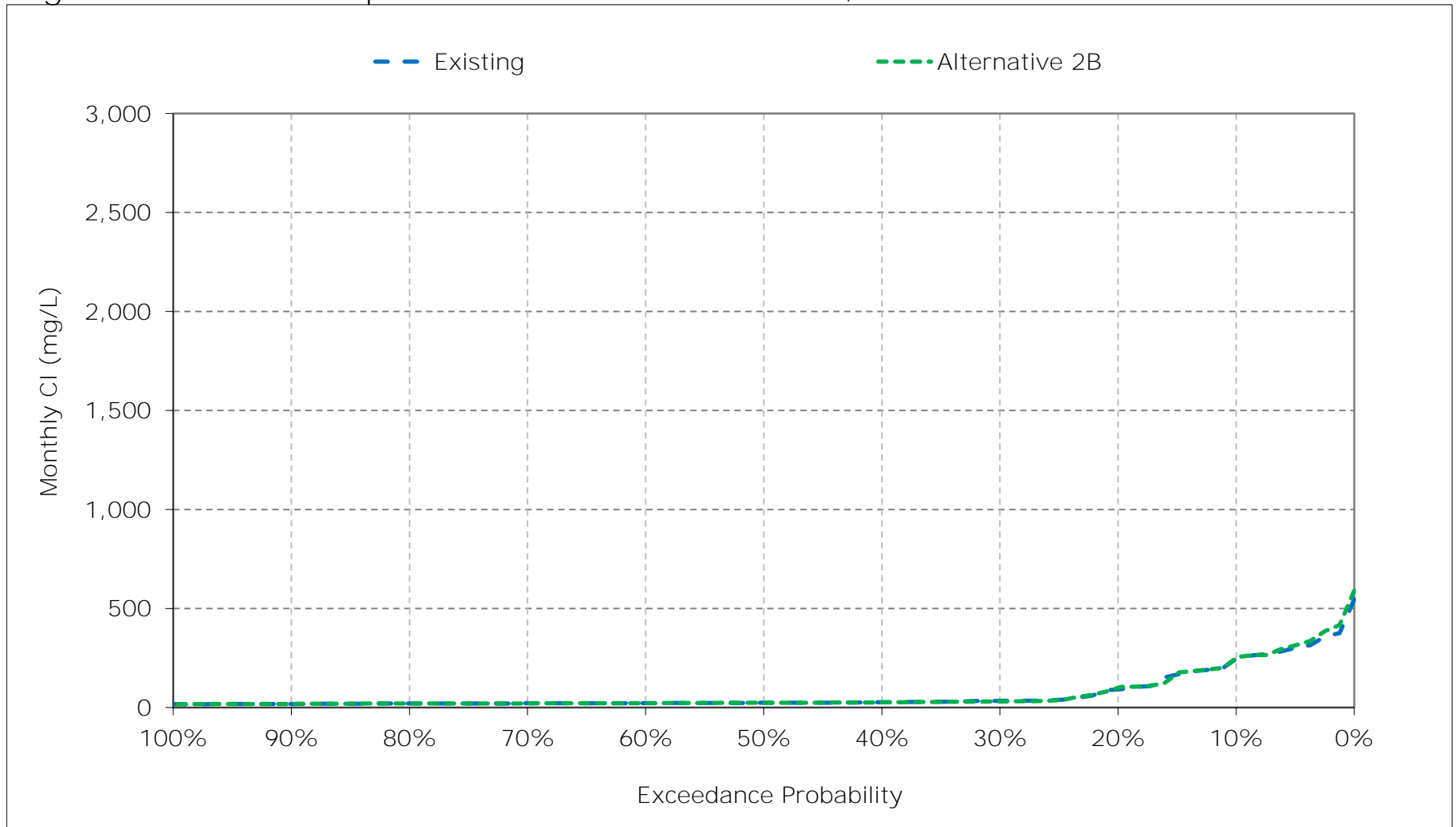


Figure 10-10. San Joaquin River at Antioch Chloride, April CI

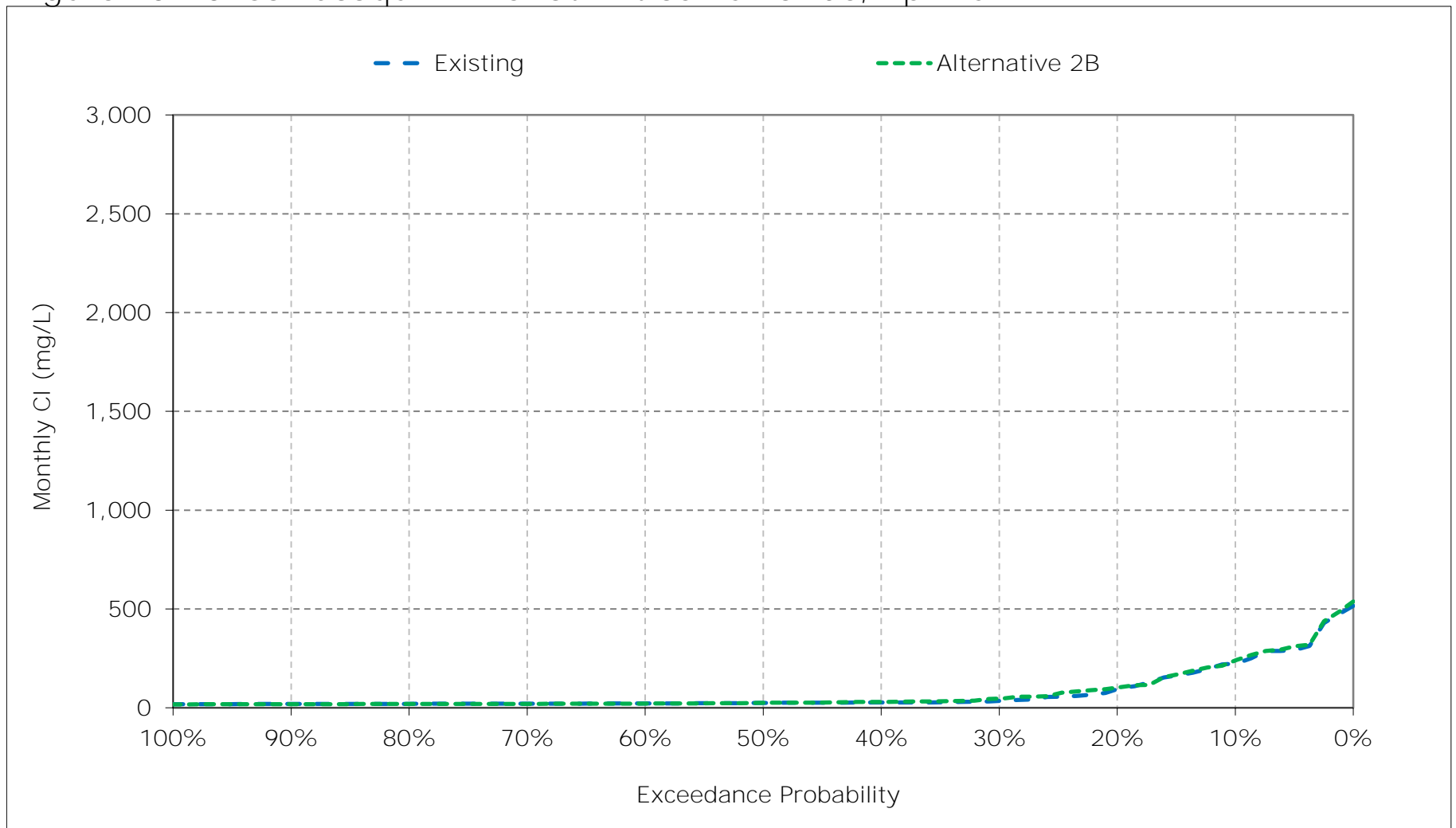


Figure 10-11. San Joaquin River at Antioch Chloride, May CI

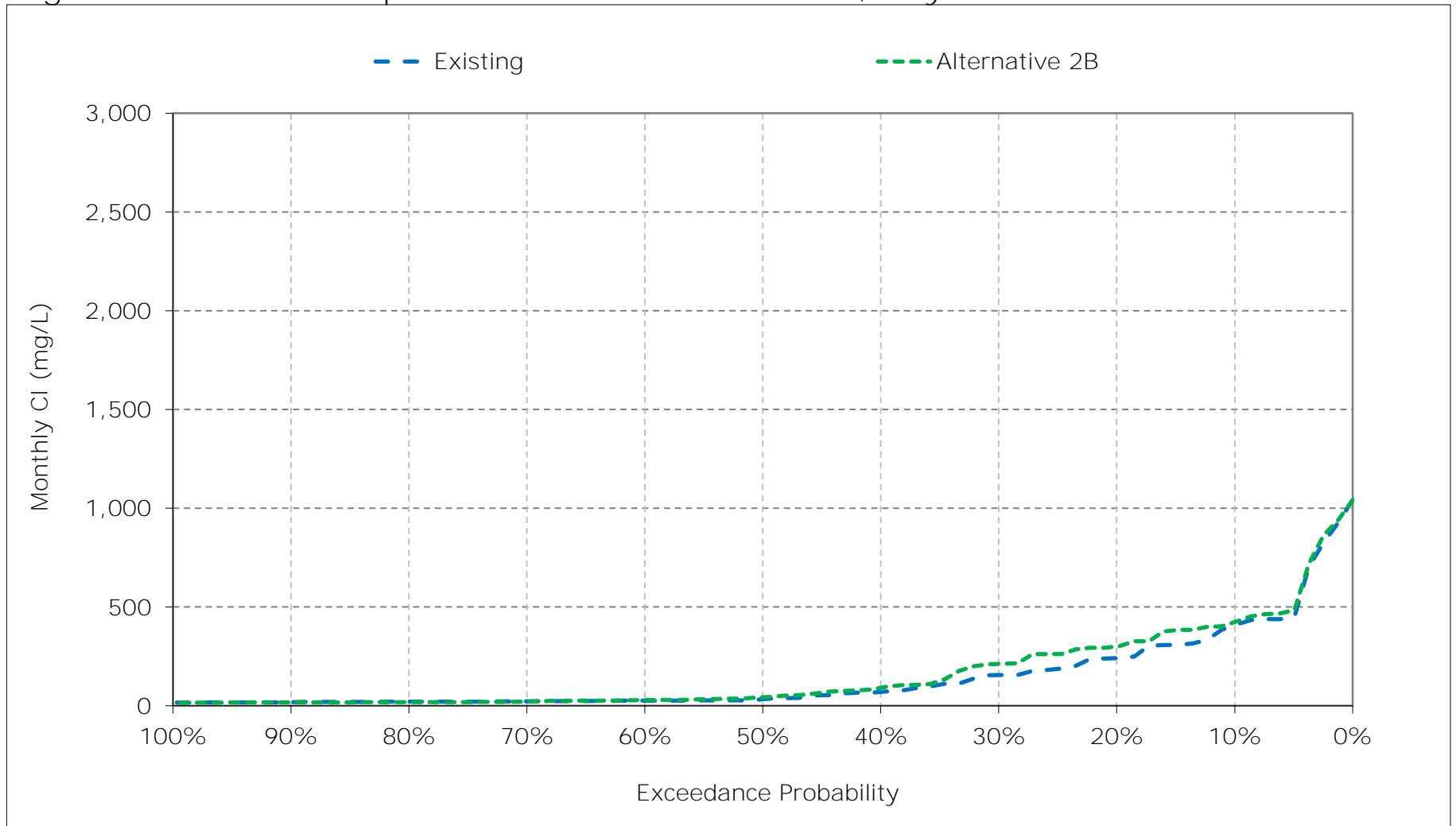


Figure 10-12. San Joaquin River at Antioch Chloride, June CI

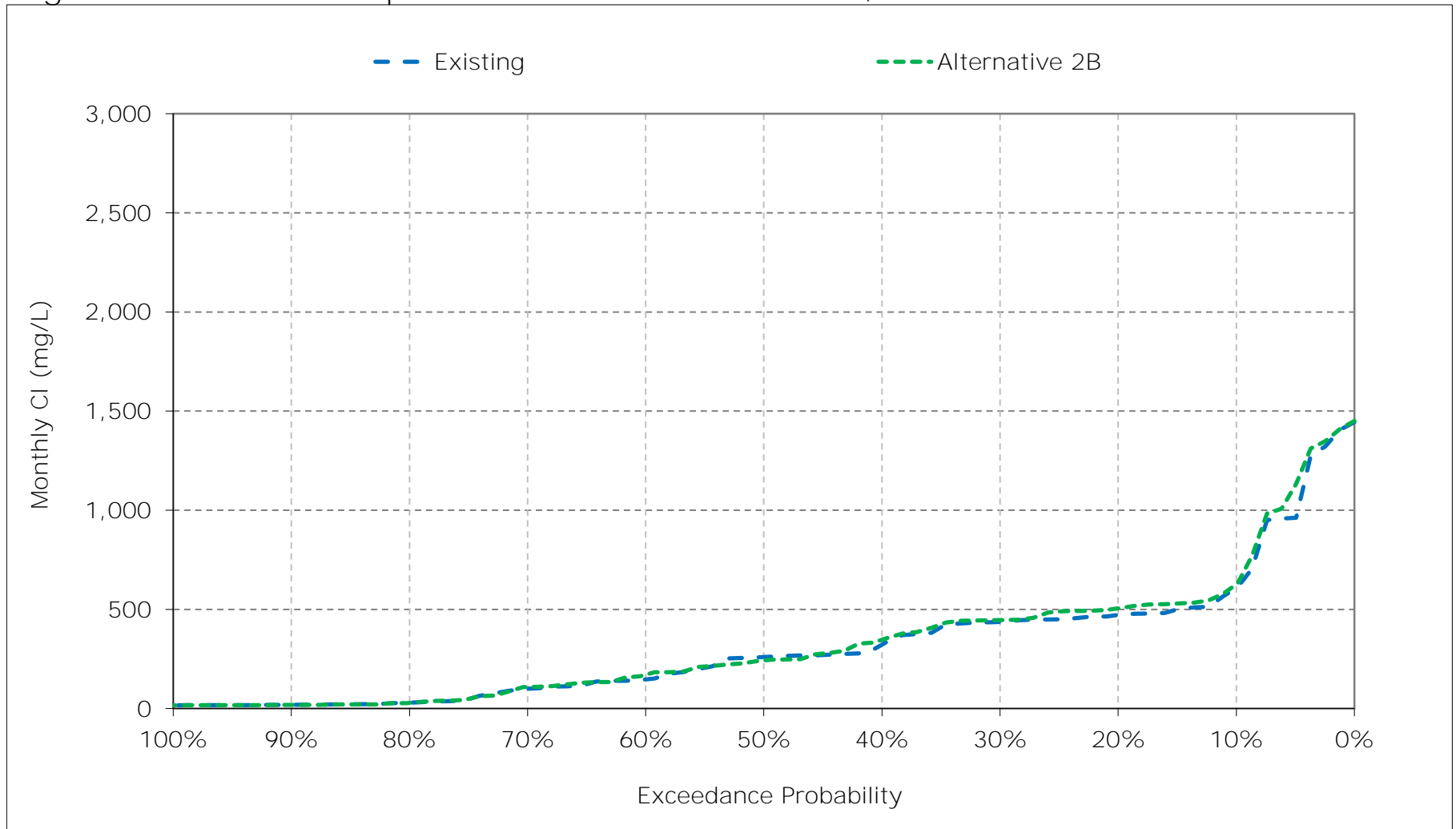


Figure 10-13. San Joaquin River at Antioch Chloride, July CI

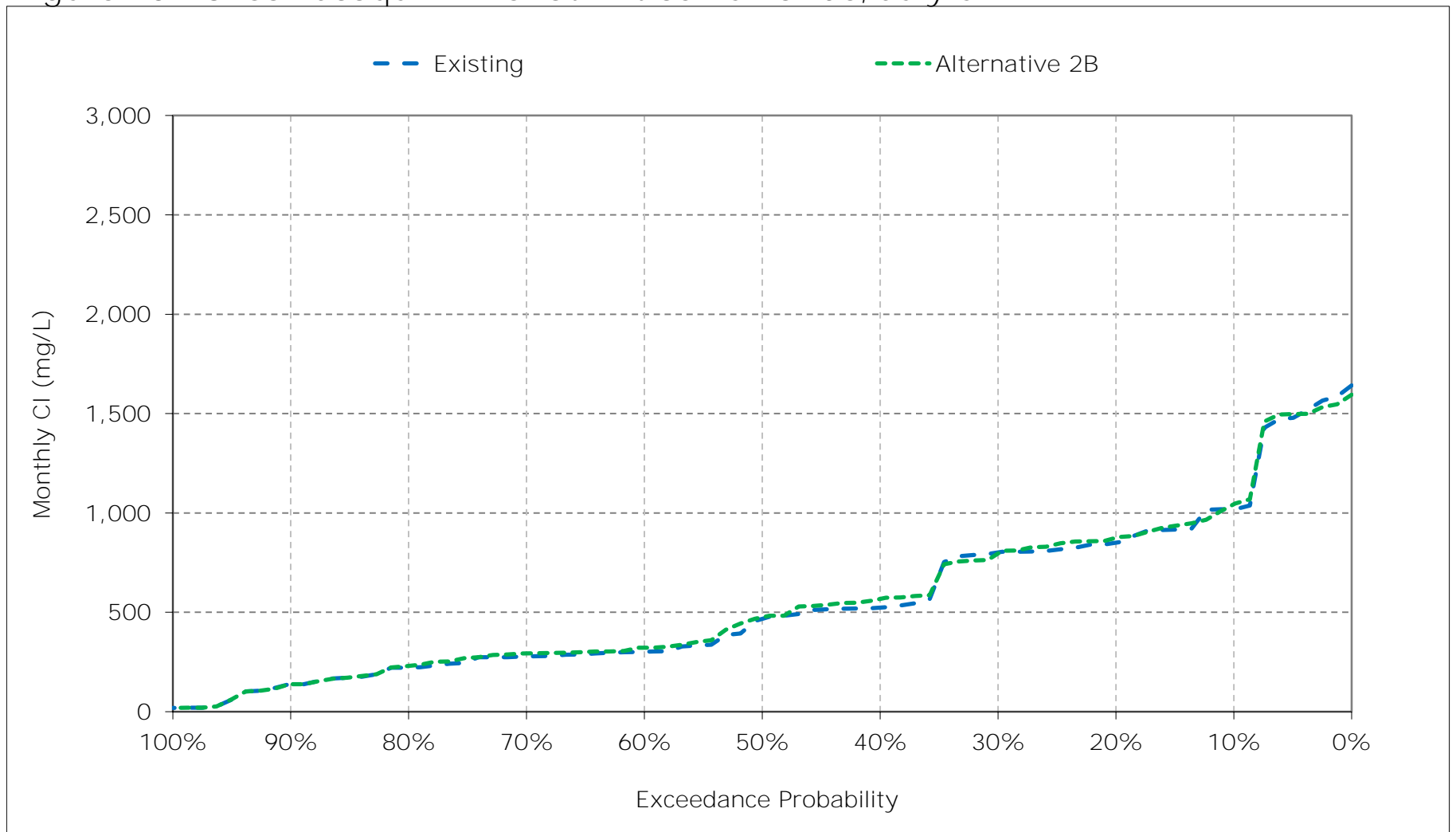


Figure 10-14. San Joaquin River at Antioch Chloride, August CI

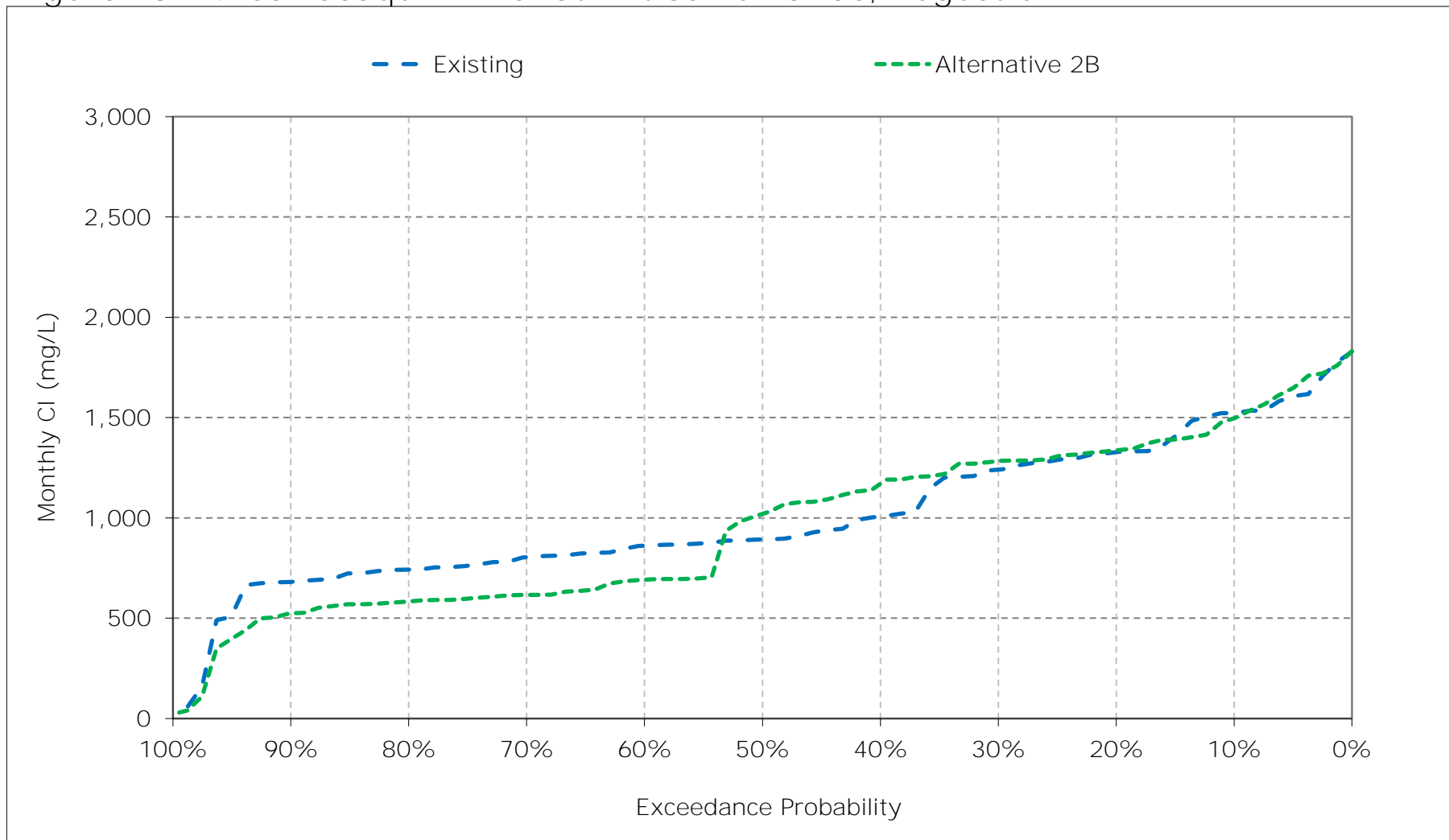




Figure 10-15. San Joaquin River at Antioch Chloride, September CI

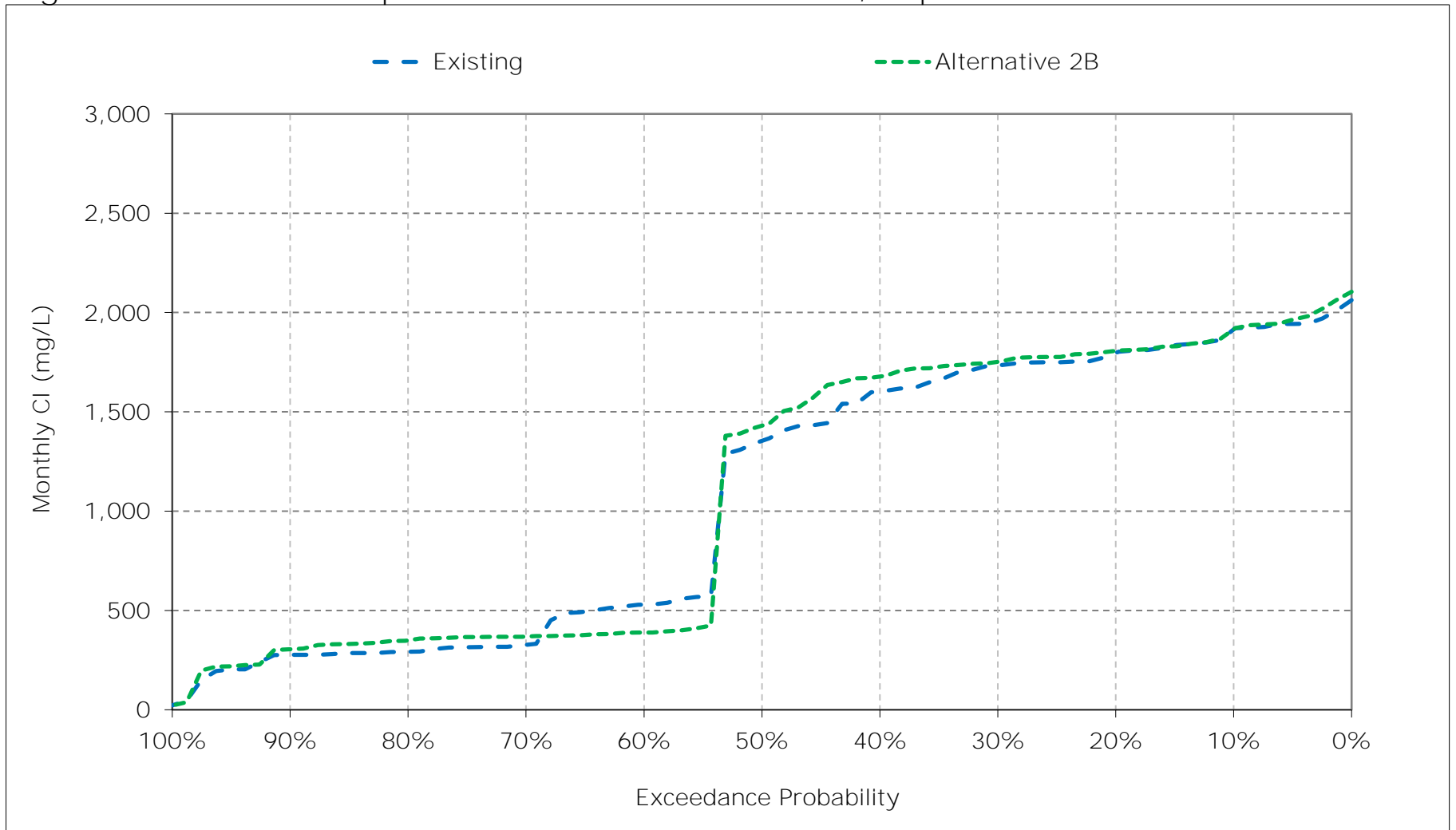


Figure 10-16. San Joaquin River at Antioch Chloride, October CI

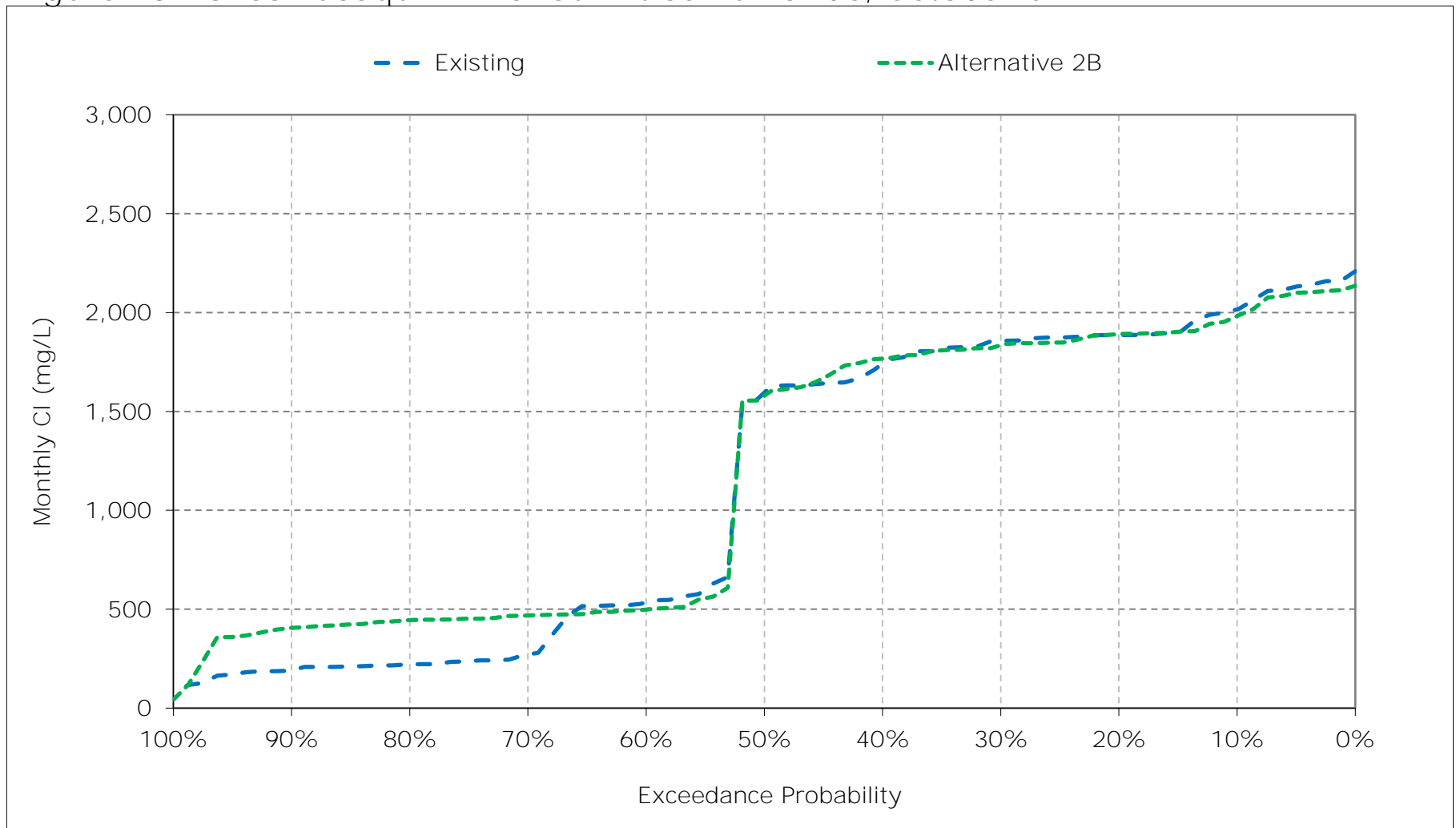


Figure 10-17. San Joaquin River at Antioch Chloride, November CI

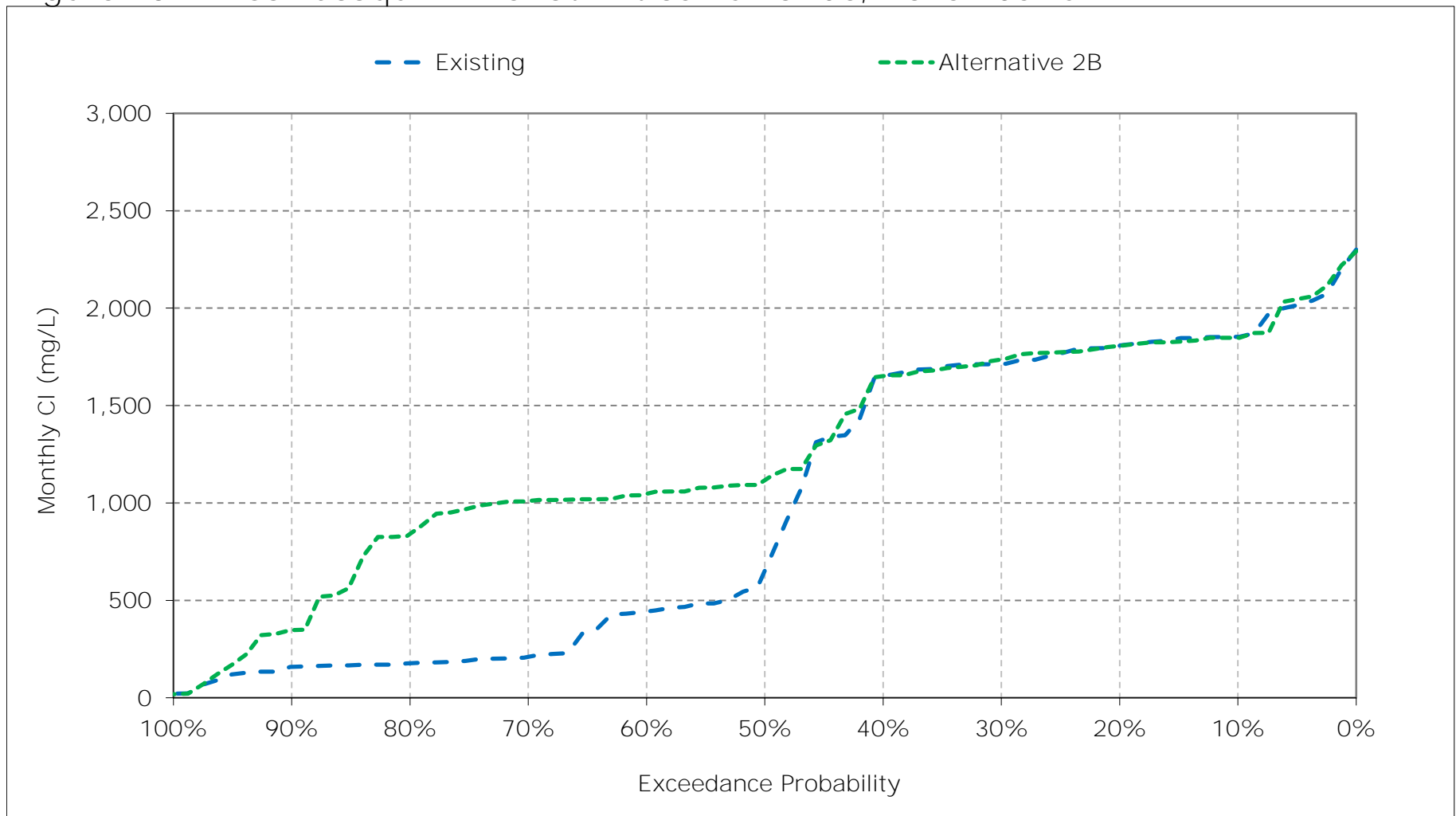


Figure 10-18. San Joaquin River at Antioch Chloride, December CI

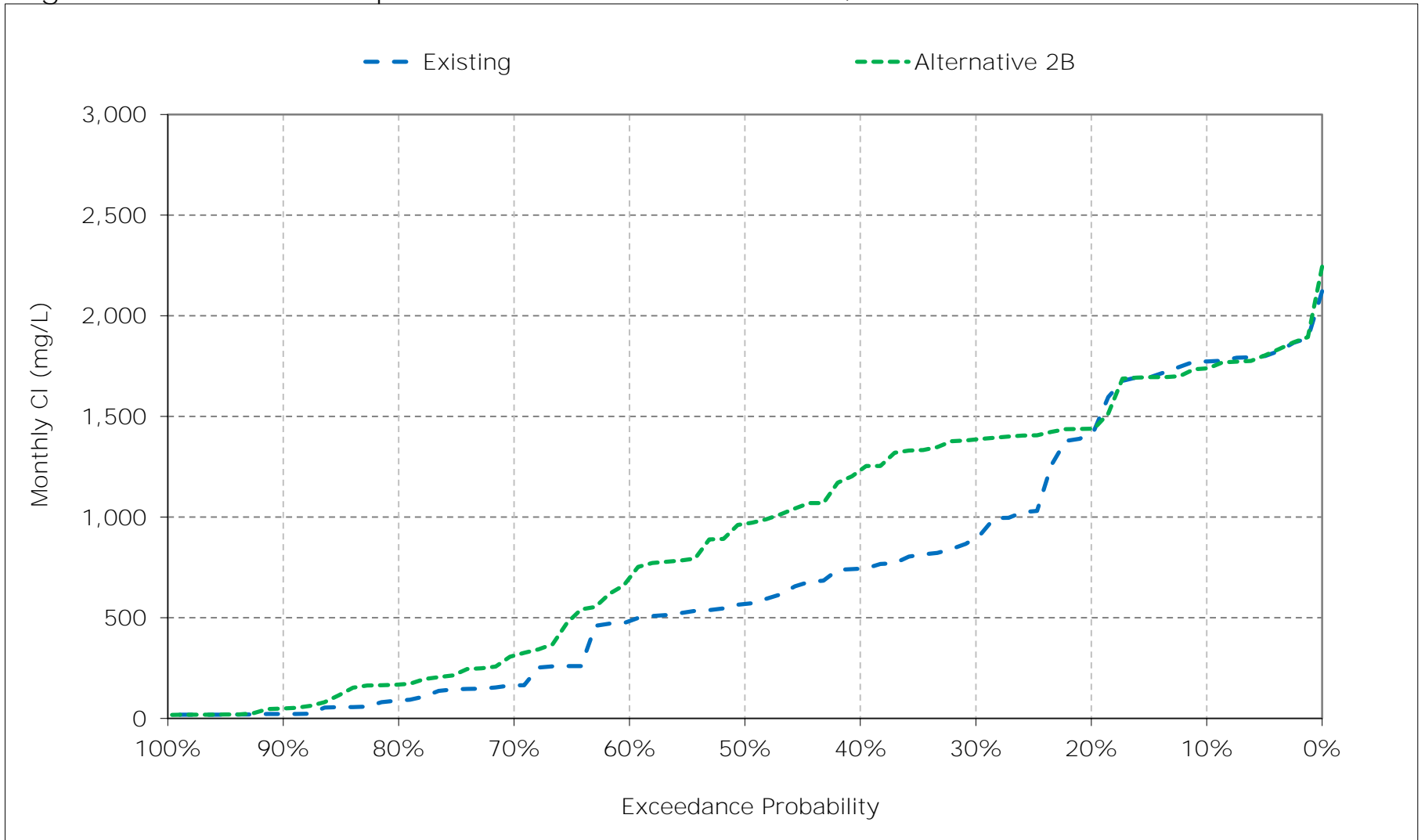


Table 11-1. Banks Pumping Plant South Delta Exports Chloride, Monthly Cl

Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	140	141	157	169	127	98	83	84	73	64	102	119
20%	133	122	145	157	112	79	73	76	59	55	74	111
30%	128	119	138	122	98	73	66	72	55	42	62	105
40%	121	113	122	110	93	67	61	68	54	40	58	101
50%	113	107	76	97	81	62	58	63	51	38	50	91
60%	52	46	56	90	76	58	52	60	49	35	43	84
70%	46	39	44	80	69	53	49	53	47	30	39	80
80%	39	36	37	69	64	46	38	45	43	29	37	72
90%	34	34	34	60	49	39	28	23	34	28	34	64
Long Term												
Full Simulation Period <sup>a</sup>	89	84	92	108	86	64	57	60	52	43	57	90
Water Year Types <sup>b</sup>												
Wet (32%)	74	66	67	74	63	47	38	40	40	32	37	75
Above Normal (15%)	101	92	93	108	91	63	53	57	49	32	38	68
Below Normal (17%)	92	86	102	126	88	65	59	64	51	35	59	111
Dry (22%)	88	89	104	116	95	74	70	74	57	47	77	98
Critical (15%)	106	105	118	151	117	89	80	82	77	78	89	108

Alternative 2B

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	150	137	160	205	143	99	87	81	66	66	103	130
20%	139	126	151	192	126	89	78	74	51	52	73	117
30%	133	119	147	167	110	80	74	69	46	42	62	106
40%	122	115	141	155	97	72	67	65	45	38	55	92
50%	116	107	134	121	90	65	63	62	43	36	51	82
60%	30	60	127	103	76	61	56	55	41	33	36	43
70%	29	55	116	89	69	55	48	49	39	30	31	40
80%	28	46	91	73	61	45	40	42	37	28	30	37
90%	27	38	48	64	46	42	29	26	32	27	29	34
Long Term												
Full Simulation Period <sup>a</sup>	85	89	122	130	90	68	61	58	46	42	54	76
Water Year Types <sup>b</sup>												
Wet (32%)	69	73	96	84	62	48	39	38	36	32	31	35
Above Normal (15%)	97	99	127	136	96	69	57	53	41	31	32	40
Below Normal (17%)	88	92	130	150	91	68	65	61	42	32	60	124
Dry (22%)	83	91	137	150	106	81	77	73	48	46	75	100
Critical (15%)	109	107	143	168	123	91	82	81	73	78	90	110

Alternative 2B minus Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	10	-4	3	36	16	2	4	-3	-7	1	1	11
20%	6	4	6	35	14	9	5	-2	-8	-2	-1	6
30%	5	0	9	45	12	7	8	-3	-9	0	0	1
40%	2	3	19	45	4	5	6	-3	-9	-1	-3	-9
50%	2	0	58	24	9	4	6	-1	-8	-3	1	-10
60%	-22	15	71	13	0	3	4	-5	-8	-2	-8	-41
70%	-17	16	73	9	0	2	-1	-3	-8	0	-7	-40
80%	-11	11	54	4	-3	0	2	-4	-5	-1	-6	-35
90%	-7	4	15	4	-3	3	1	4	-1	-1	-4	-31
Long Term												
Full Simulation Period <sup>a</sup>	-4	5	30	21	4	4	4	-2	-6	-1	-3	-14
Water Year Types <sup>b</sup>												
Wet (32%)	-5	7	29	10	-1	1	1	-2	-4	0	-6	-40
Above Normal (15%)	-4	6	34	28	5	6	4	-4	-8	-1	-6	-27
Below Normal (17%)	-5	6	28	24	3	3	5	-2	-9	-3	1	13
Dry (22%)	-5	2	34	34	10	7	8	-1	-9	-1	-2	2
Critical (15%)	3	1	25	16	7	2	2	0	-4	-1	1	1

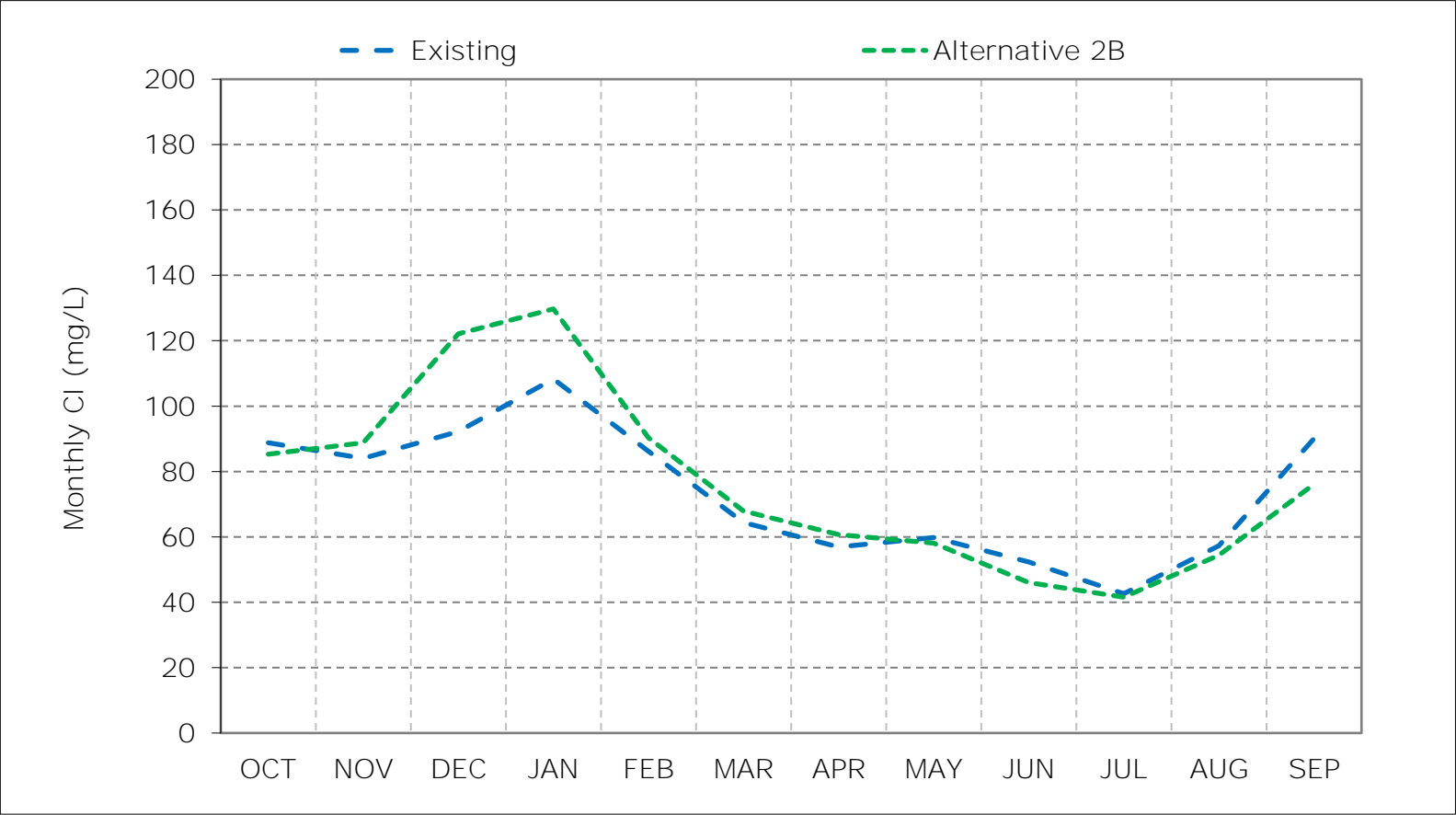
a Based on the 82-year simulation period.

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 water year - year type sorting.

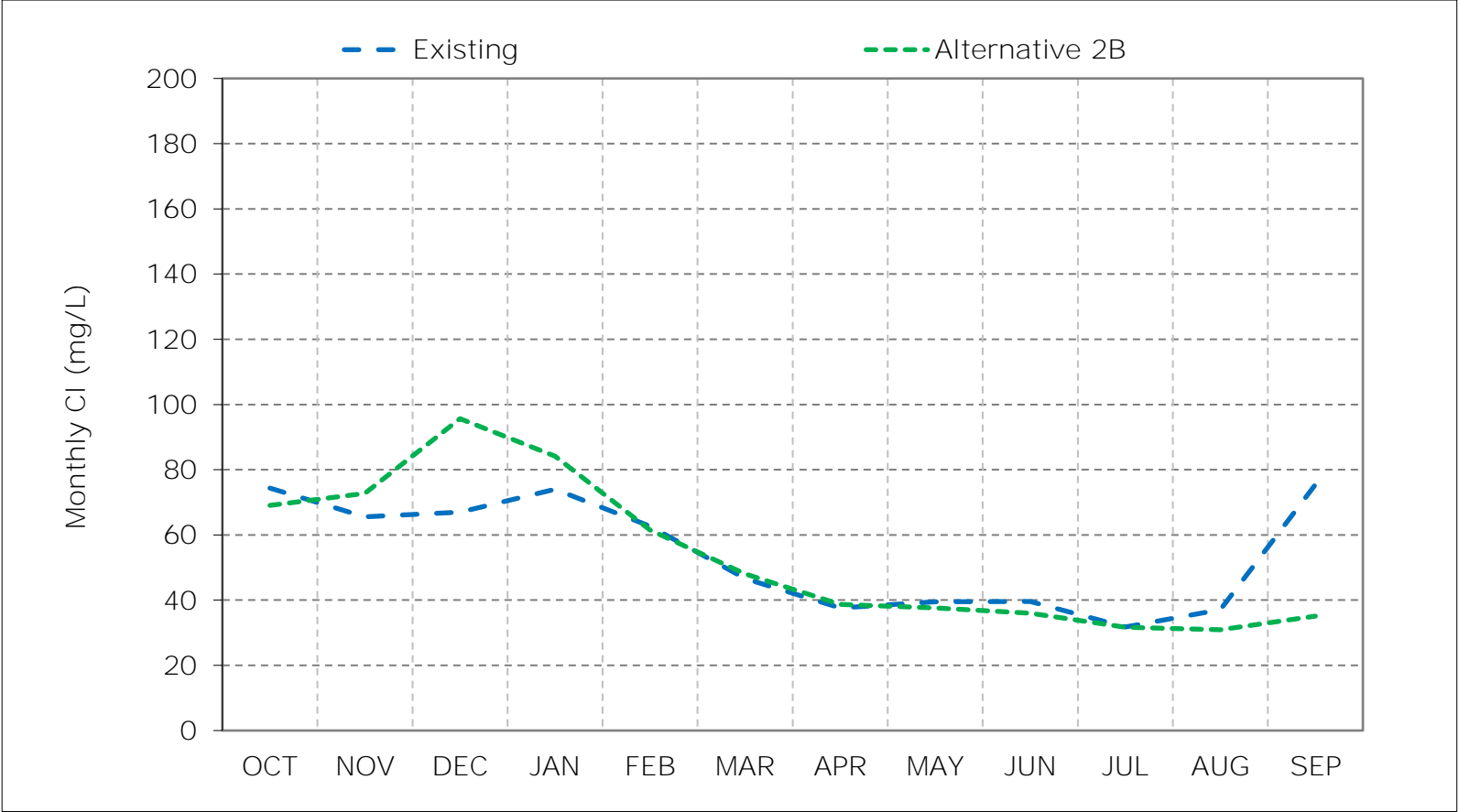
d Positive differences are highted in red color which indicate increase in Chloride (Cl).

Figure 11-1. Banks Pumping Plant South Delta Exports Chloride, Long-Term Average C



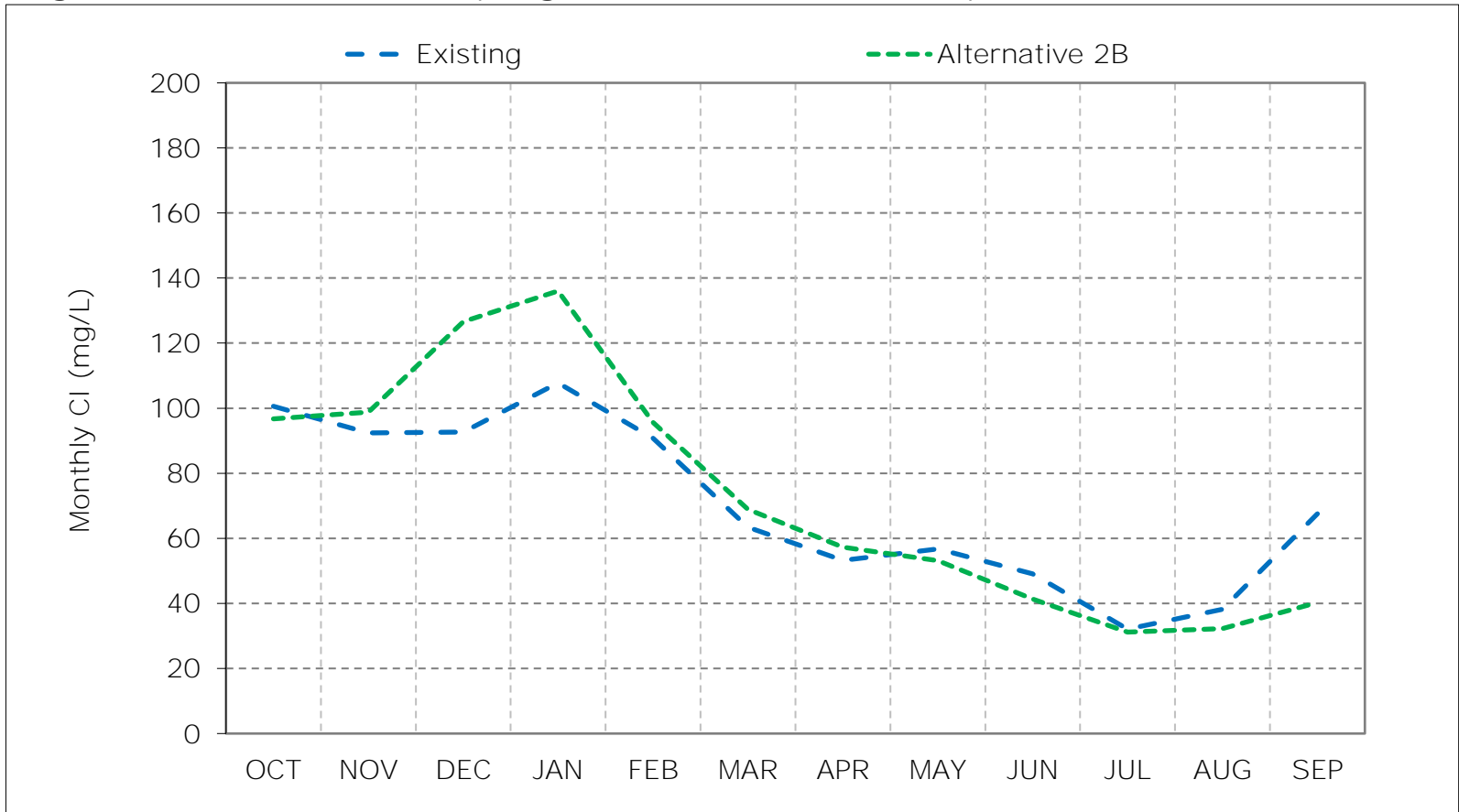
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 11-2. Banks Pumping Plant South Delta Exports Chloride, Wet Year Average C



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 11-3. Banks Pumping Plant South Delta Exports Chloride, Above Normal Year

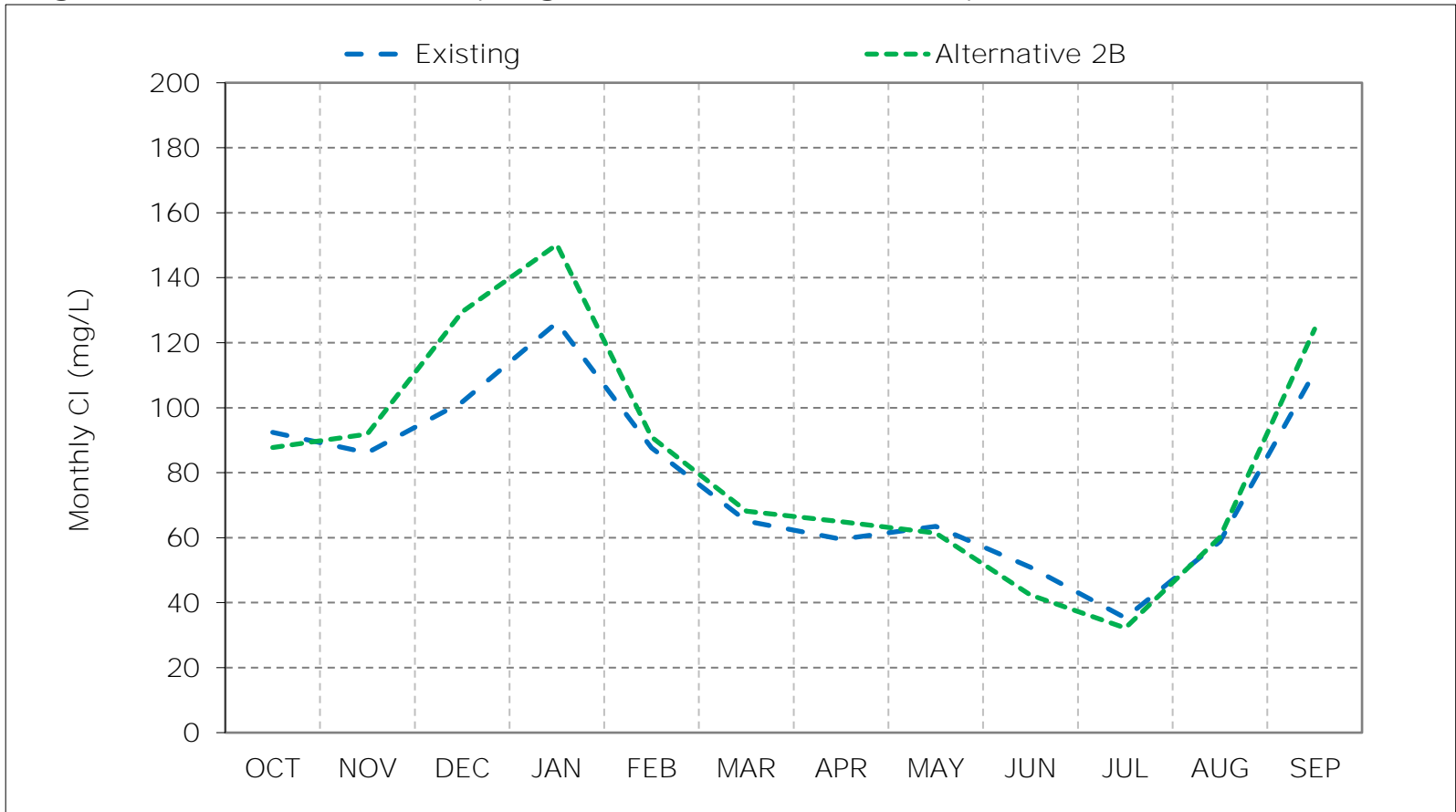


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with water year - year type sorting.



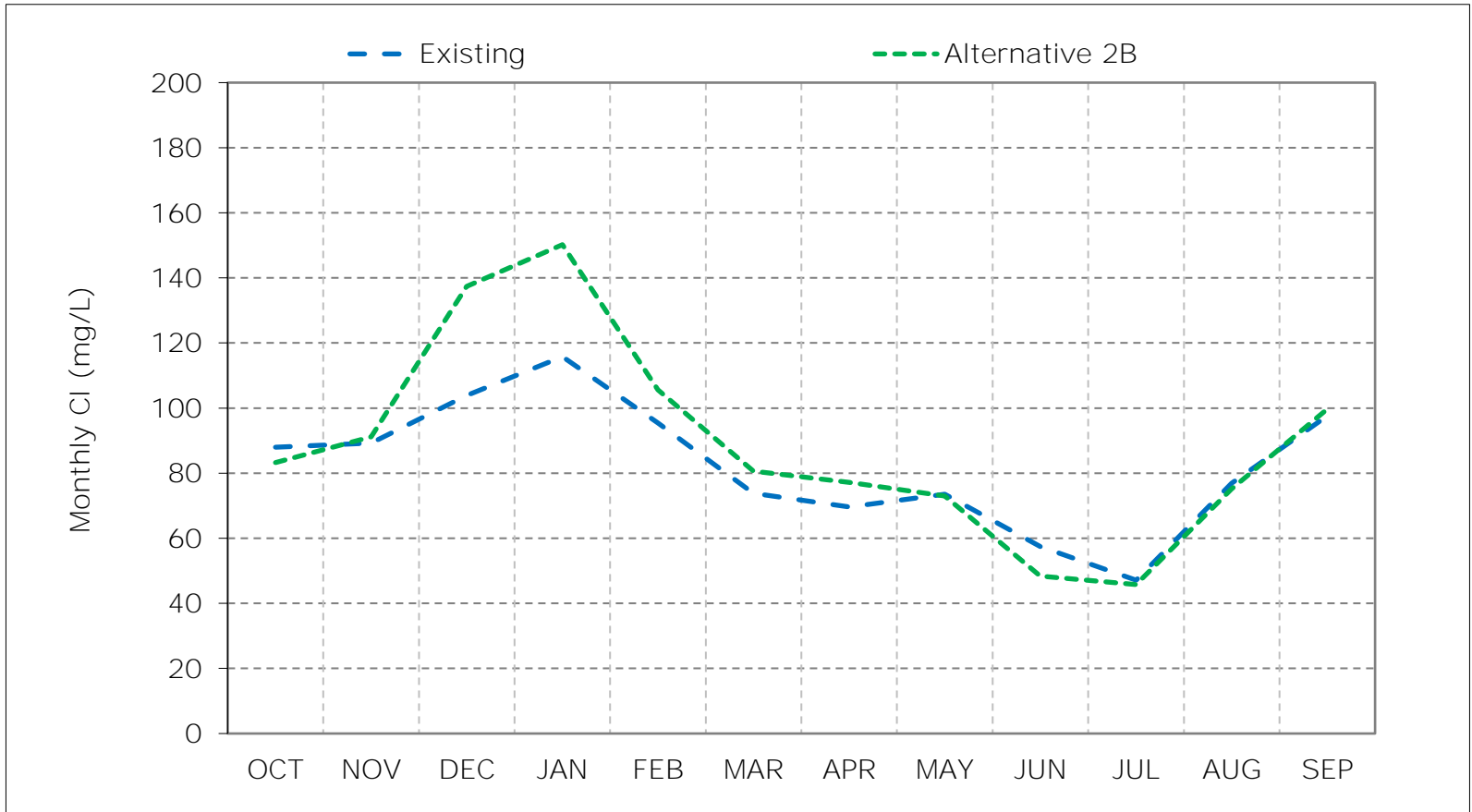
Figure 11-4. Banks Pumping Plant South Delta Exports Chloride, Below Normal Year



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

\*These results are displayed with water year - year type sorting.

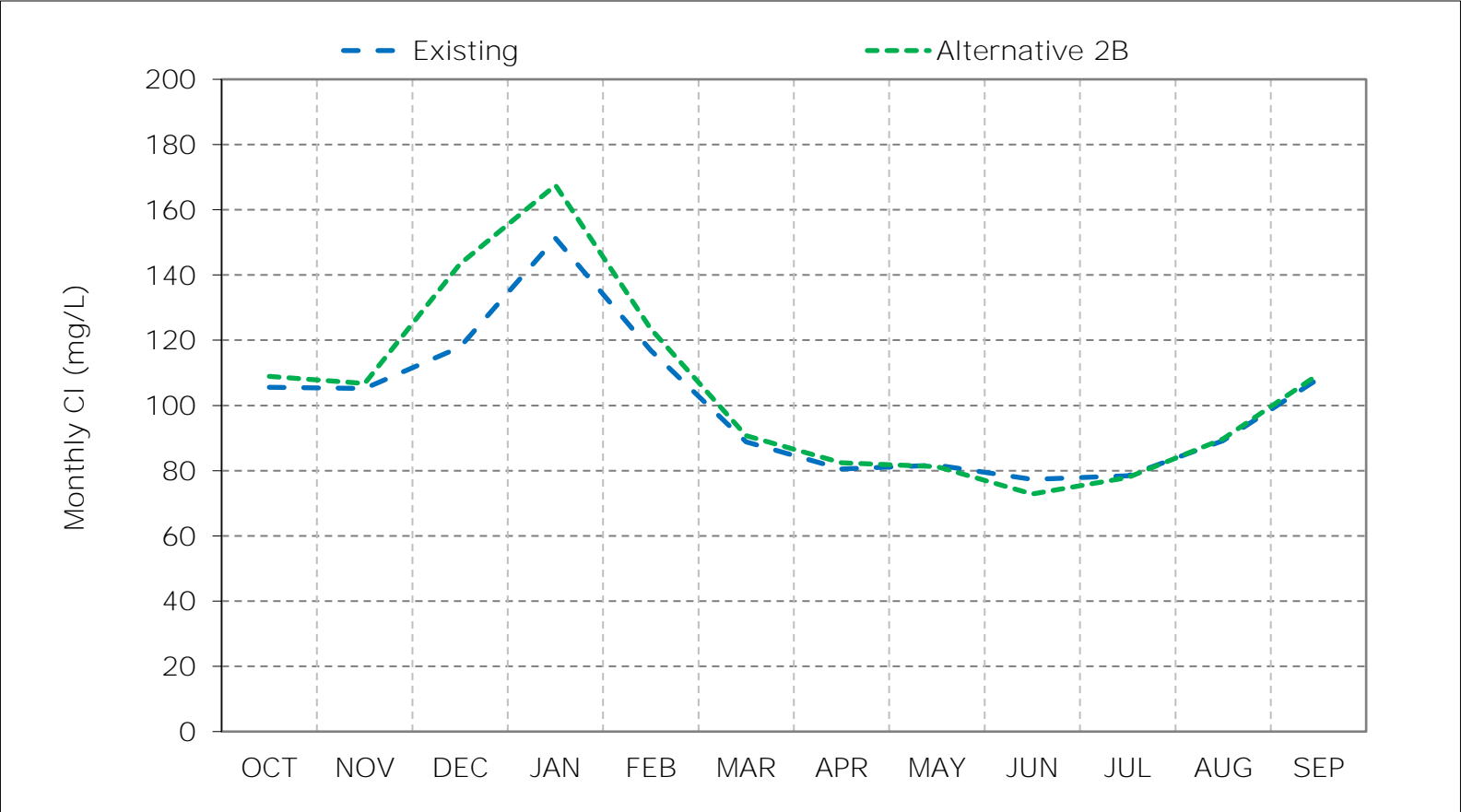
Figure 11-5. Banks Pumping Plant South Delta Exports Chloride, Dry Year Average C



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

\*These results are displayed with water year - year type sorting.

Figure 11-6. Banks Pumping Plant South Delta Exports Chloride, Critical Year Average



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 11-7. Banks Pumping Plant South Delta Exports Chloride, January CI

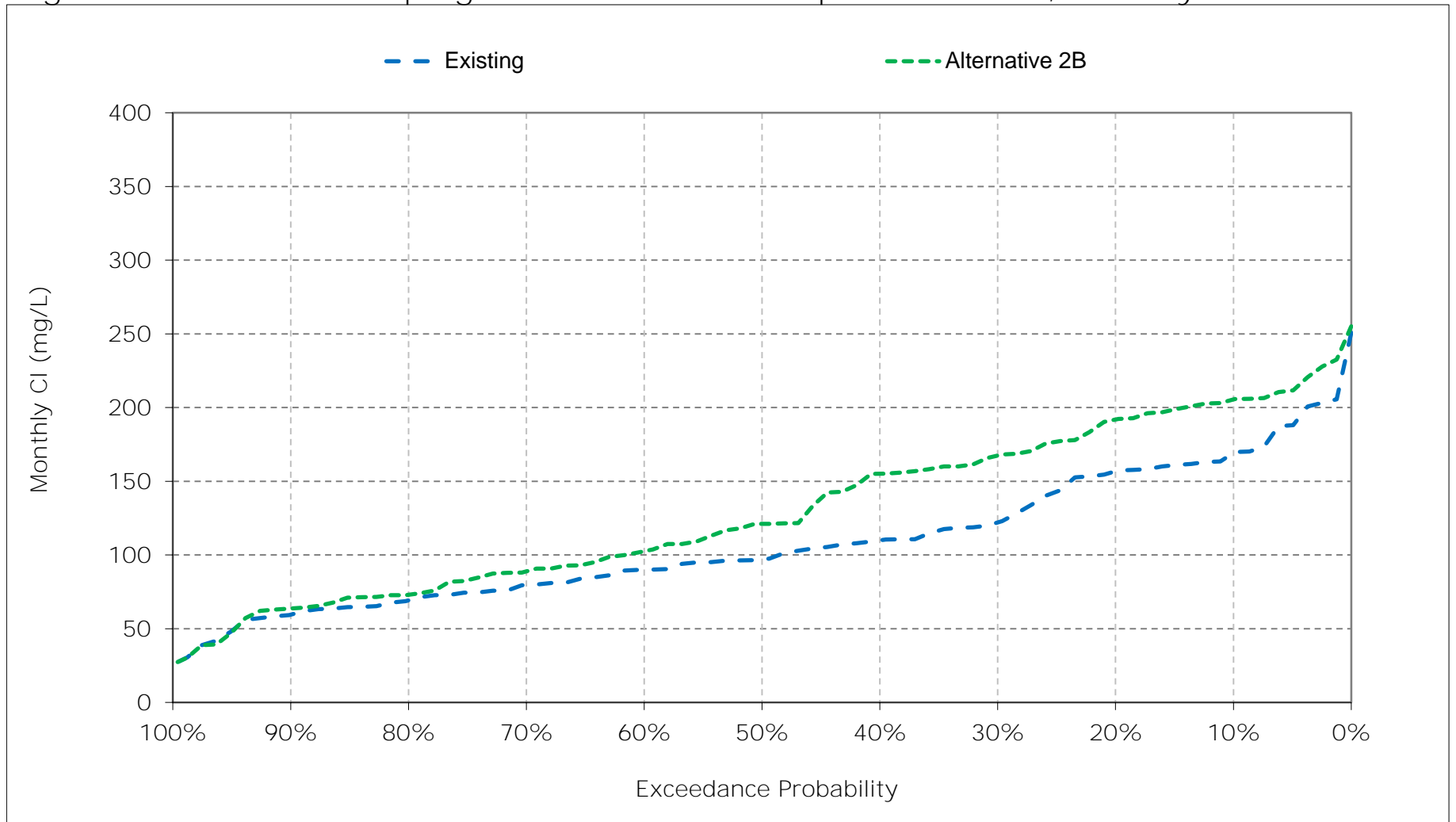


Figure 11-8. Banks Pumping Plant South Delta Exports Chloride, February CI

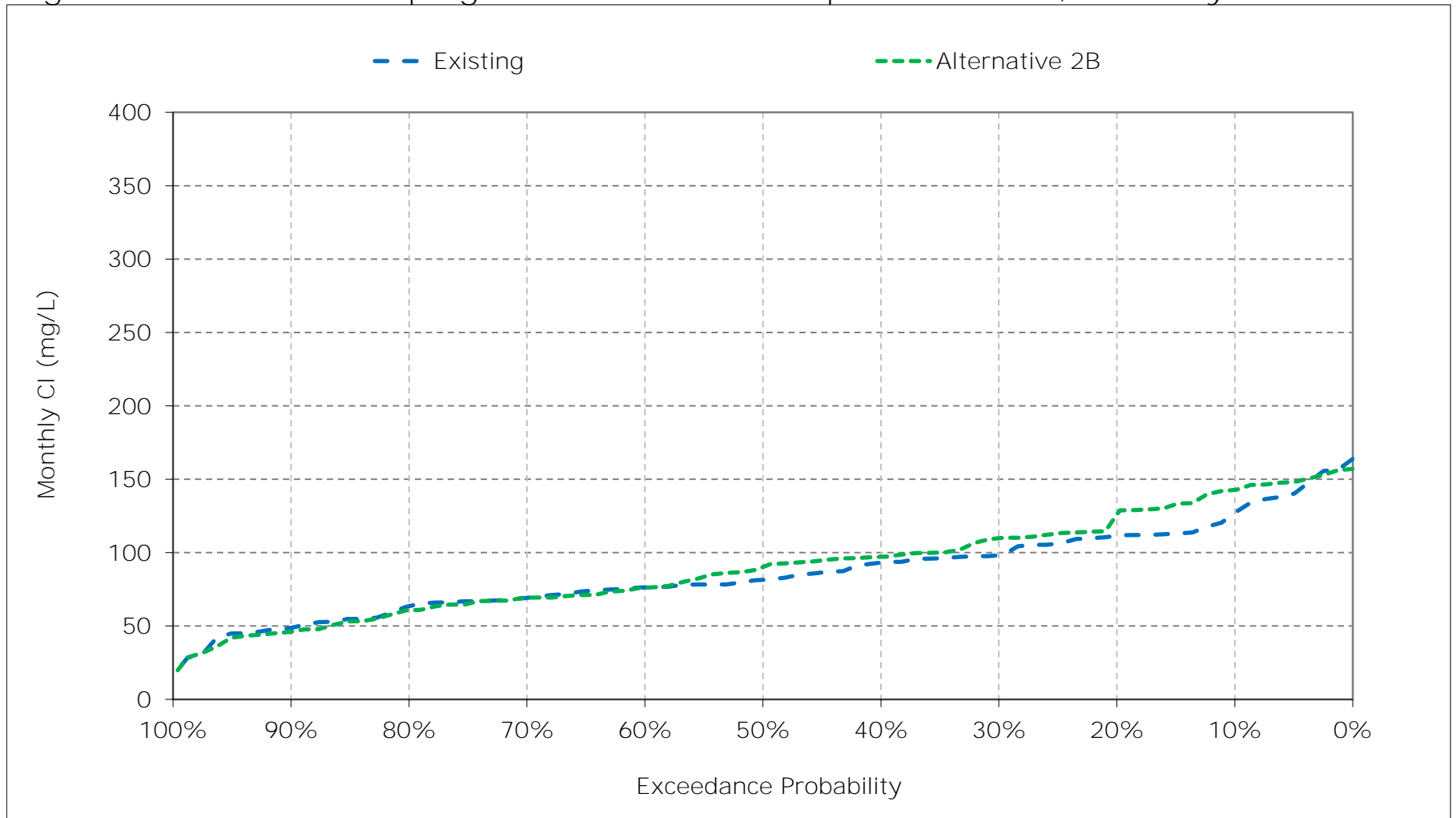


Figure 11-9. Banks Pumping Plant South Delta Exports Chloride, March CI

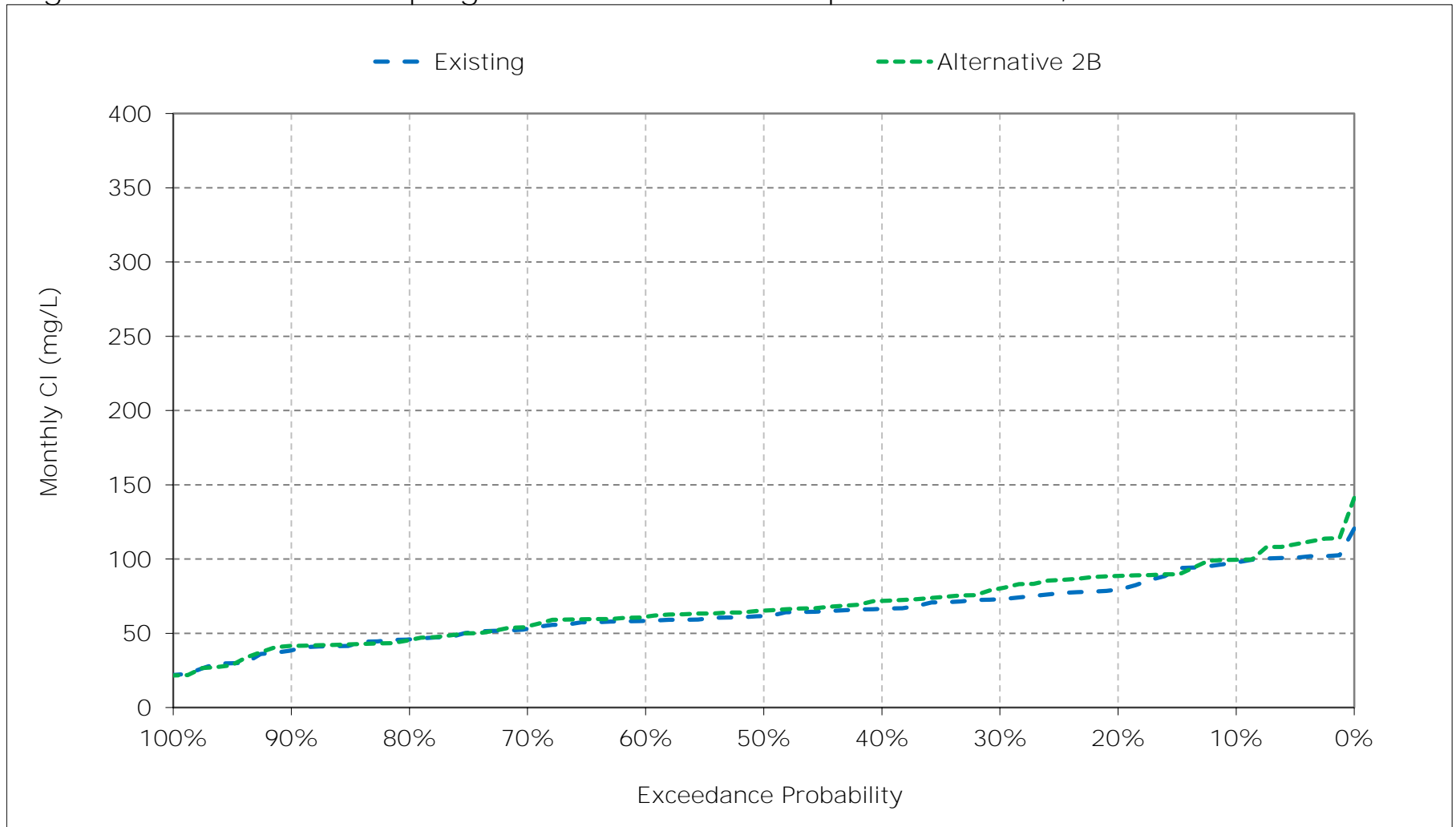


Figure 11-10. Banks Pumping Plant South Delta Exports Chloride, April CI

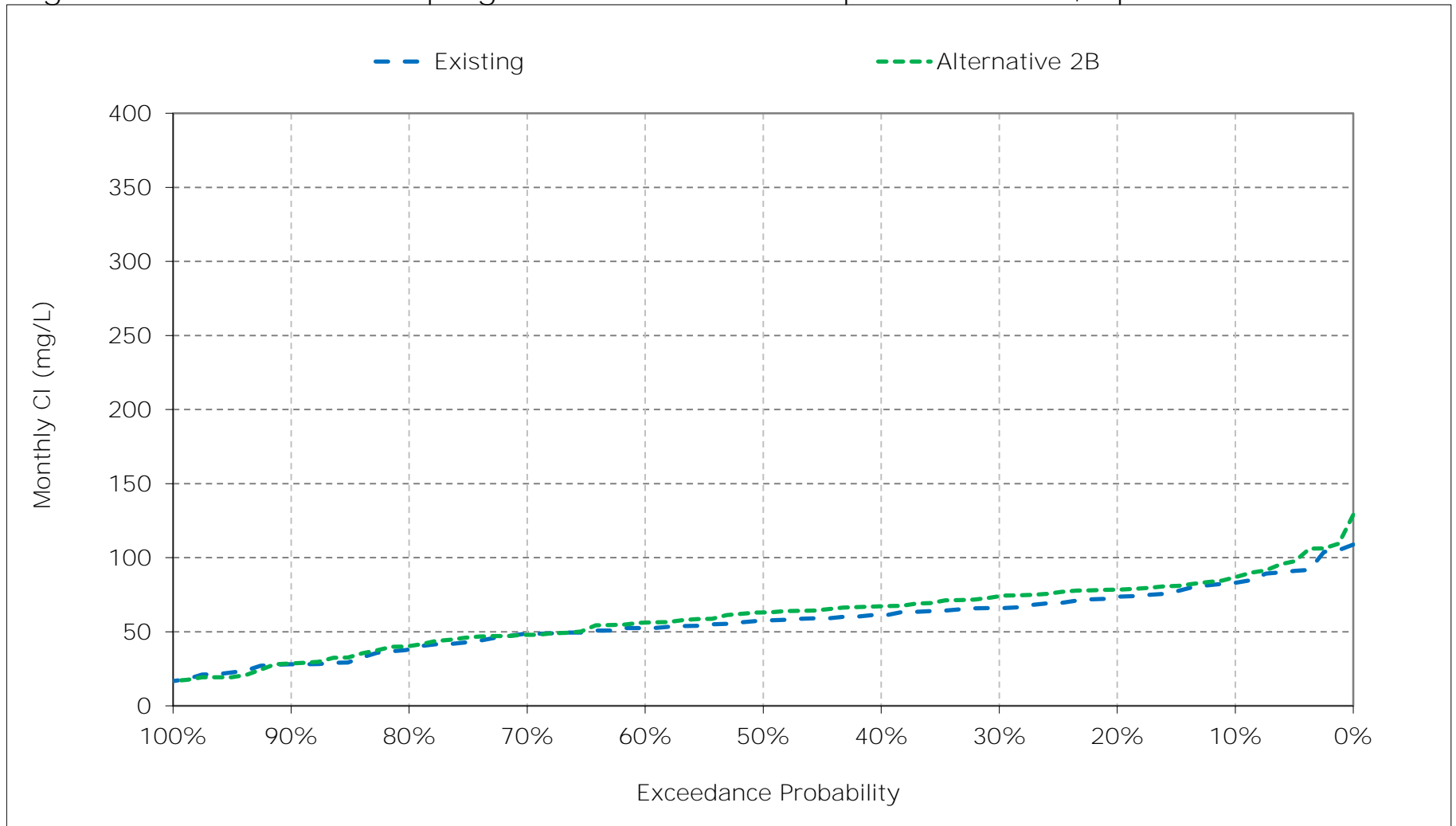


Figure 11-11. Banks Pumping Plant South Delta Exports Chloride, May CI

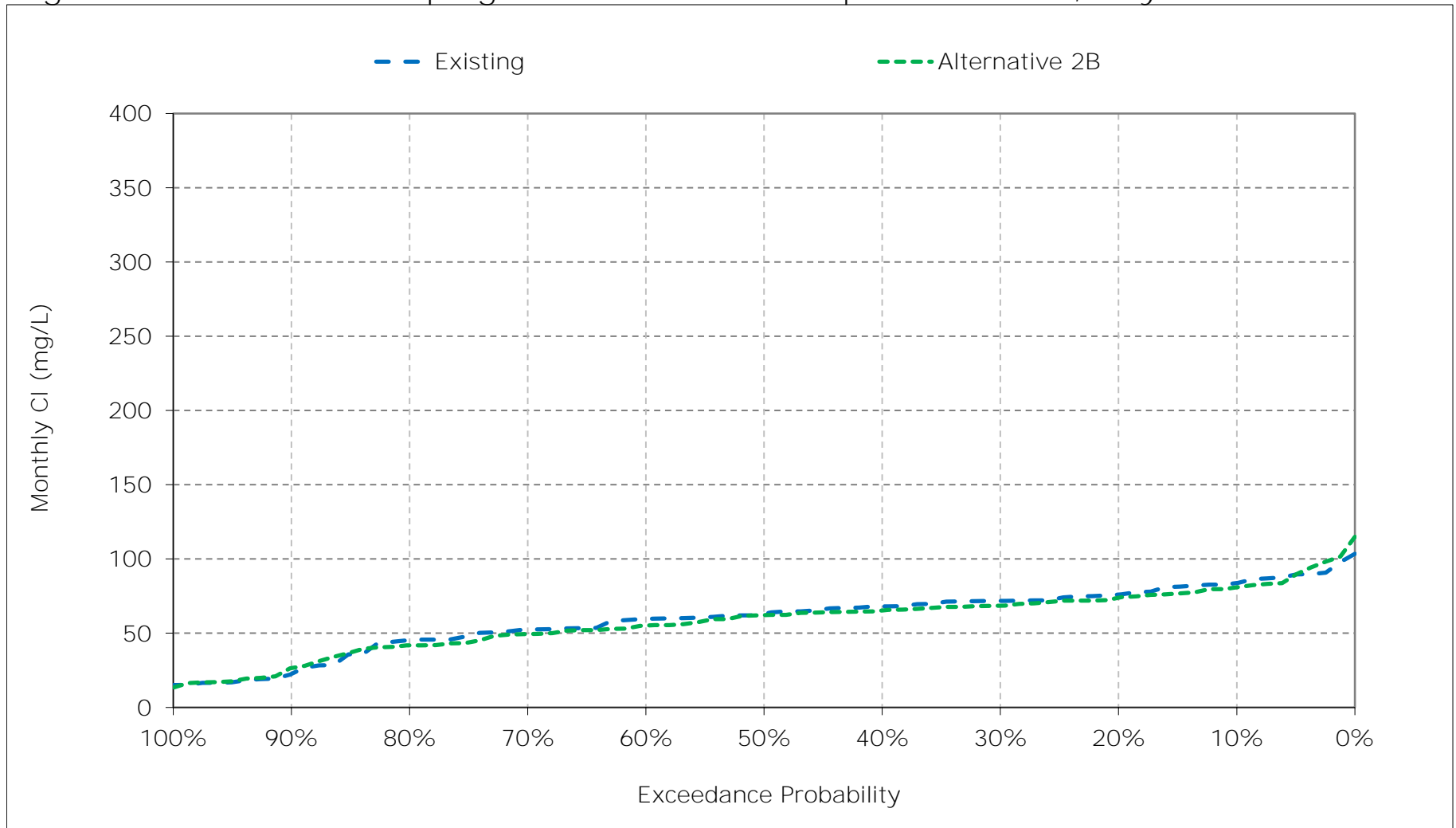




Figure 11-12. Banks Pumping Plant South Delta Exports Chloride, June Cl

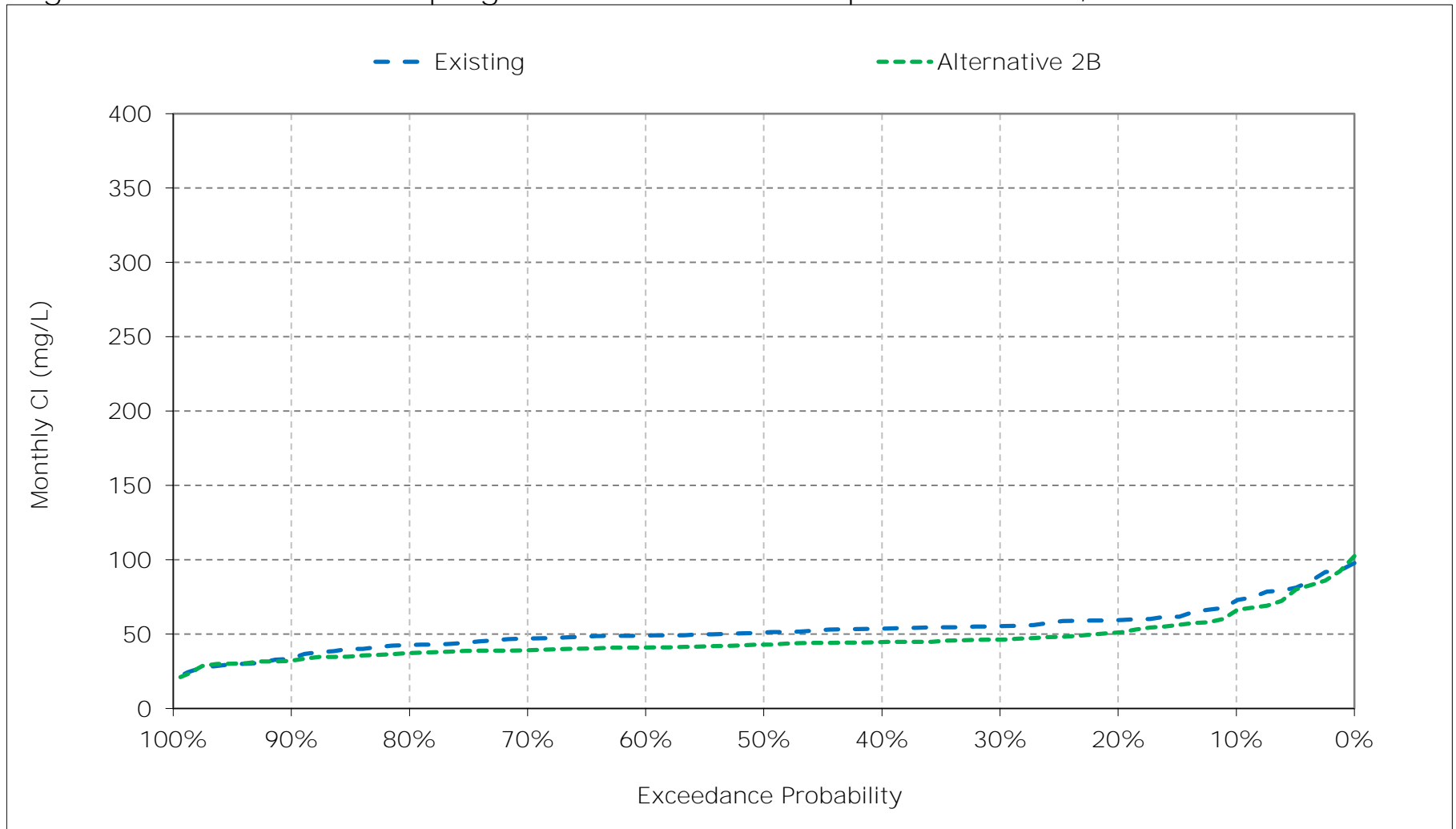


Figure 11-13. Banks Pumping Plant South Delta Exports Chloride, July CI

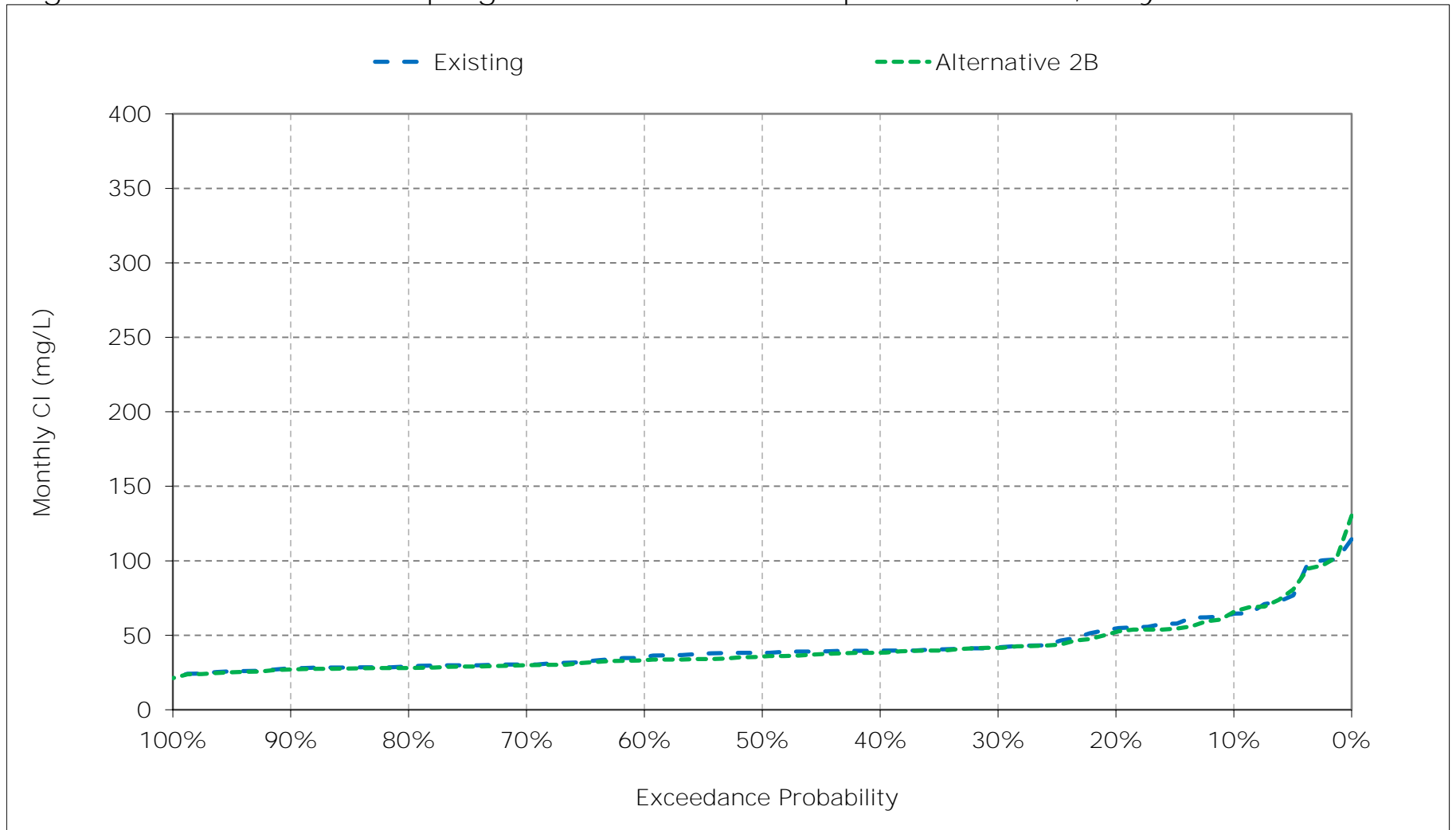


Figure 11-14. Banks Pumping Plant South Delta Exports Chloride, August CI

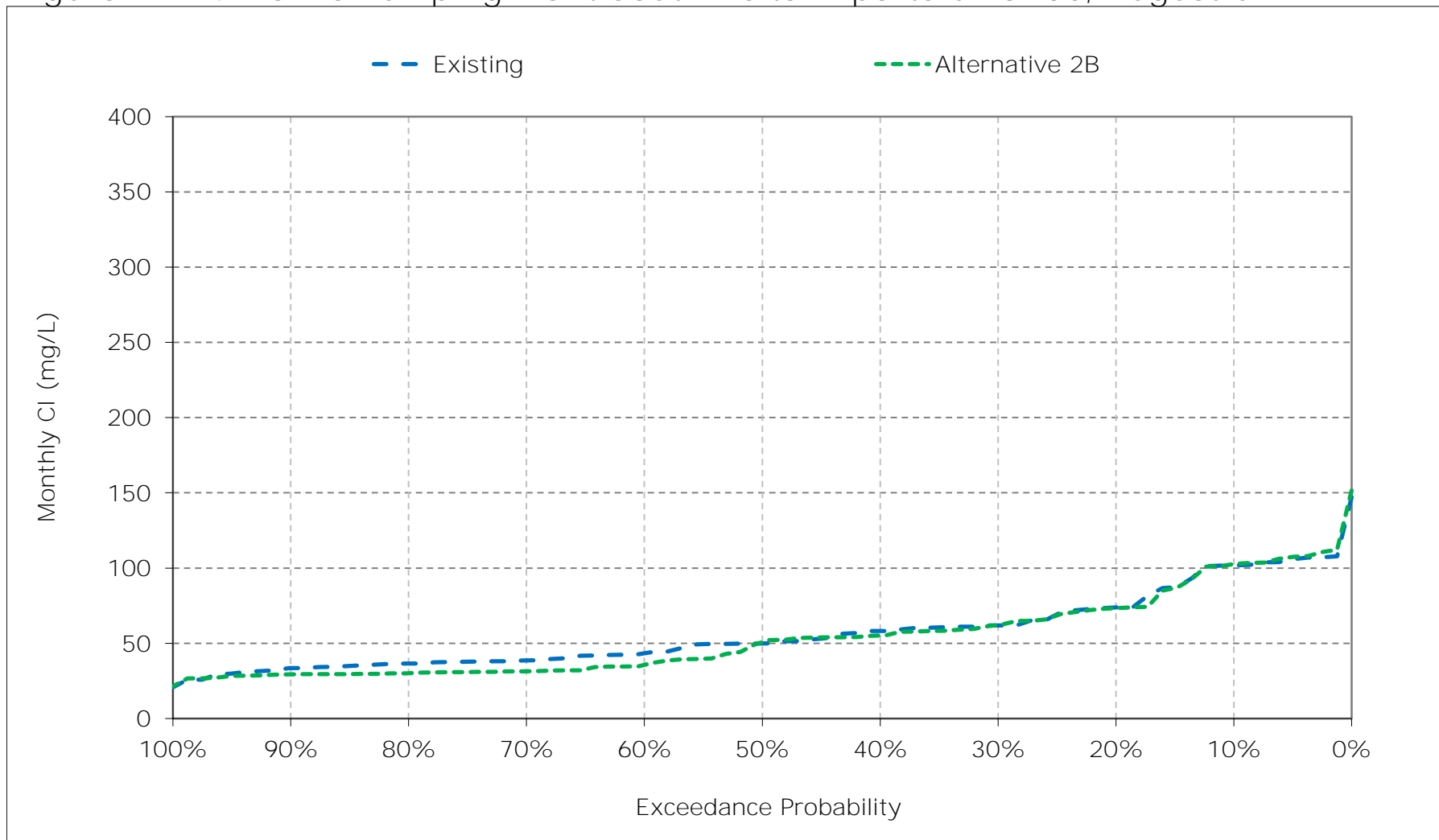


Figure 11-15. Banks Pumping Plant South Delta Exports Chloride, September CI

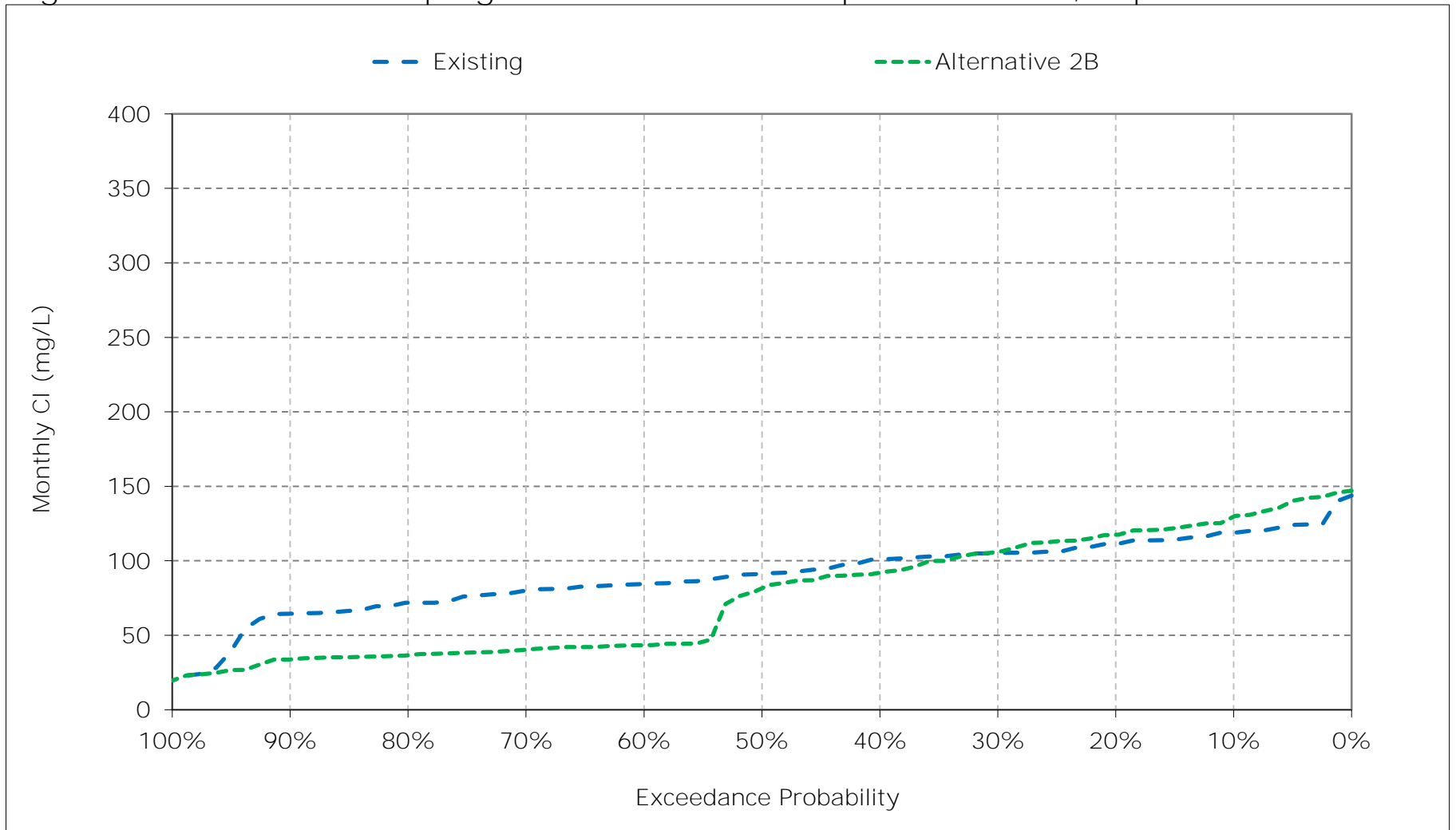


Figure 11-16. Banks Pumping Plant South Delta Exports Chloride, October CI

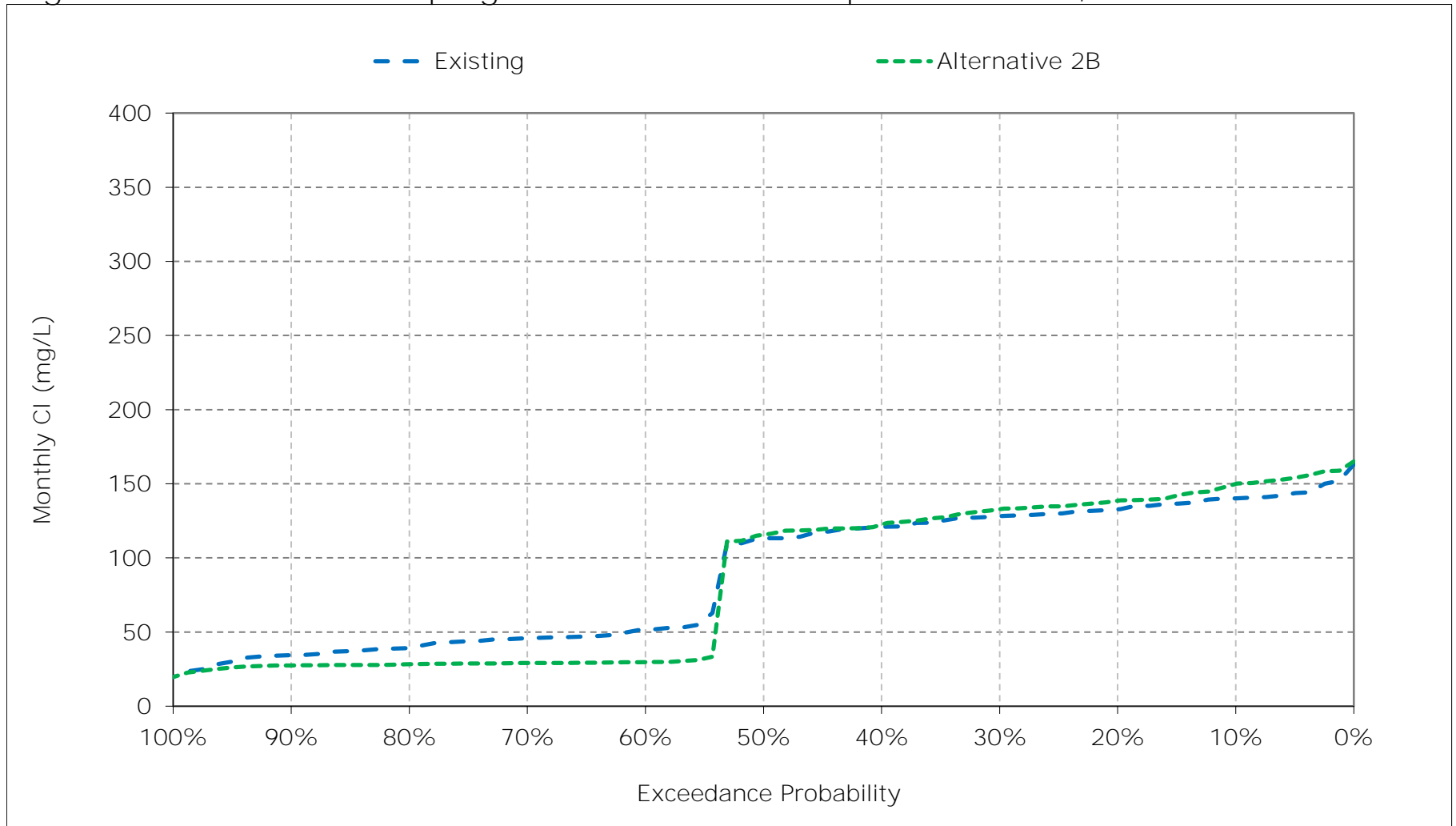


Figure 11-17. Banks Pumping Plant South Delta Exports Chloride, November CI

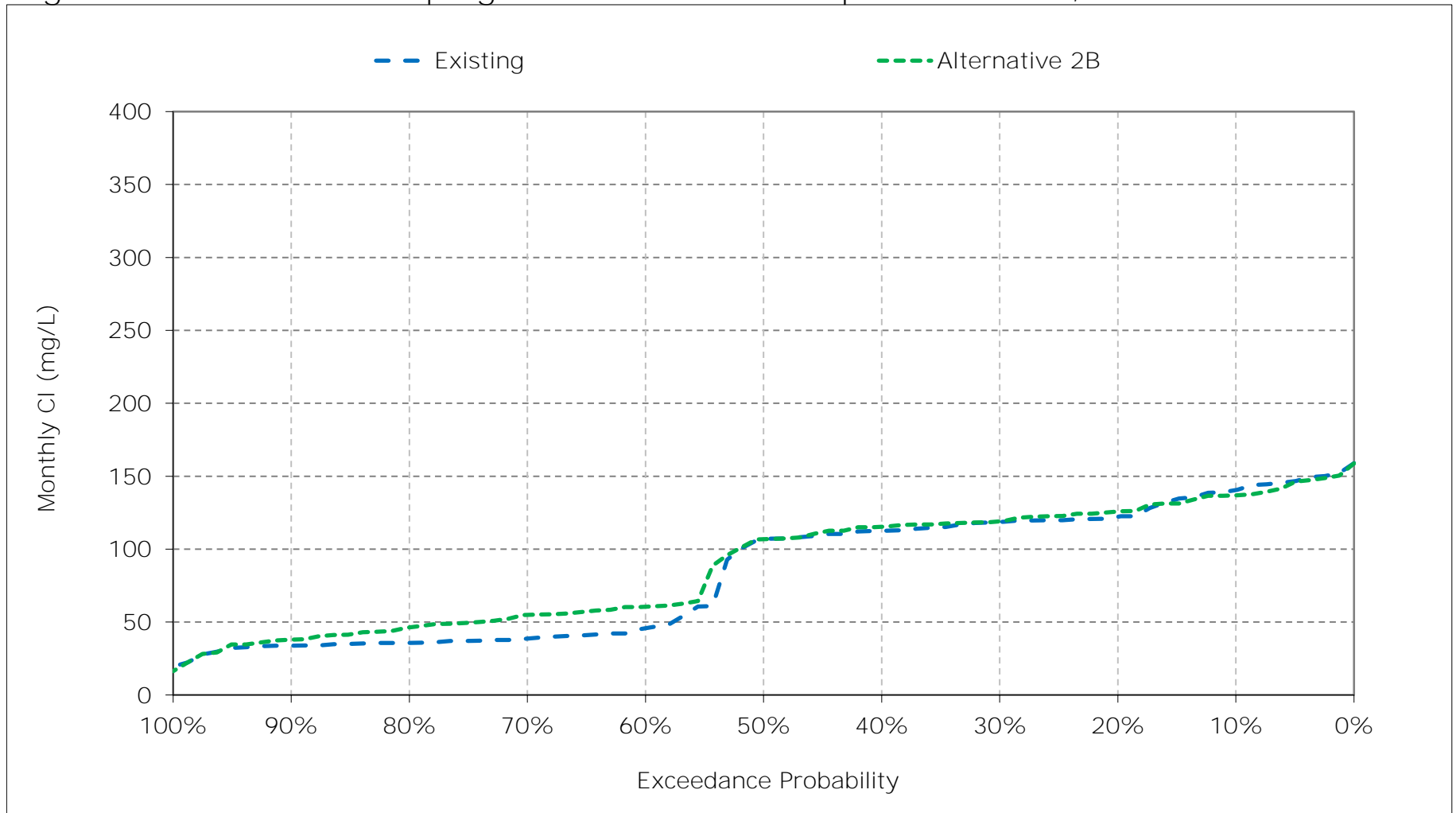


Figure 11-18. Banks Pumping Plant South Delta Exports Chloride, December CI

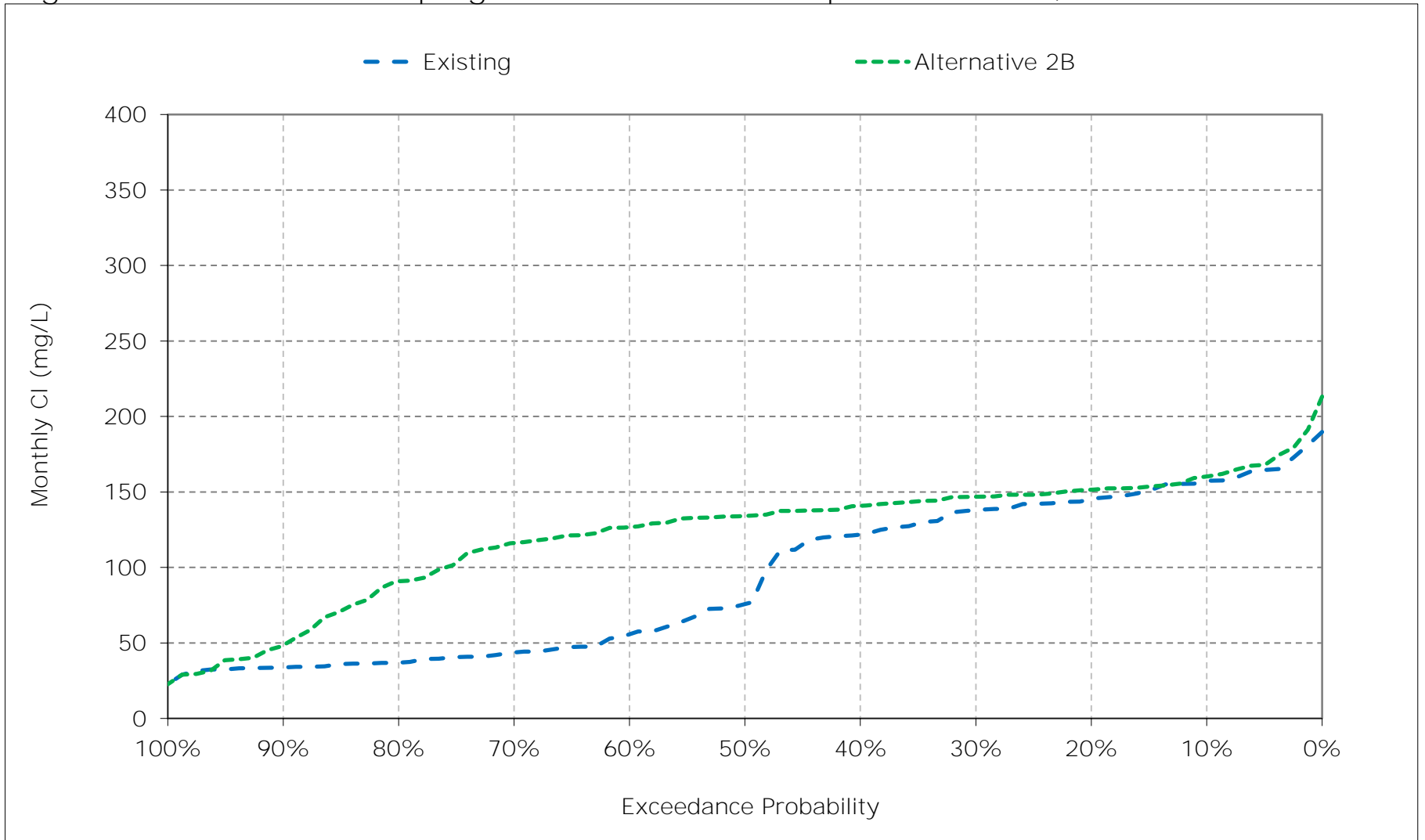


Table 12-1. Jones Pumping Plant South Delta Exports Chloride, Monthly Cl

Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	136	138	168	171	144	126	96	82	67	68	103	120
20%	131	122	157	164	138	118	89	77	59	60	82	115
30%	126	119	149	142	126	107	81	73	57	57	71	108
40%	120	113	137	133	119	101	74	70	55	54	68	106
50%	111	106	105	125	112	90	65	62	54	48	62	97
60%	56	65	92	115	99	68	57	57	52	46	55	88
70%	52	52	79	106	84	53	47	53	51	42	49	80
80%	48	47	73	99	64	42	37	45	48	38	46	74
90%	44	44	71	72	44	35	26	22	44	33	44	65
Long Term												
Full Simulation Period <sup>a</sup>	90	90	114	125	103	85	63	60	55	52	65	93
Water Year Types <sup>b</sup>												
Wet (32%)	76	73	93	93	67	48	38	39	48	43	45	75
Above Normal (15%)	101	95	114	125	105	69	57	57	54	44	49	70
Below Normal (17%)	93	93	121	136	99	82	67	64	53	47	69	113
Dry (22%)	91	95	124	136	129	111	81	73	54	55	84	103
Critical (15%)	106	108	139	164	143	144	94	81	73	77	94	117

Alternative 2B

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	137	136	169	191	159	138	116	94	61	67	104	130
20%	128	126	161	182	144	123	99	86	55	59	80	121
30%	123	120	157	167	131	115	87	76	50	57	72	111
40%	118	116	151	158	122	104	70	62	49	51	68	102
50%	113	109	148	138	111	95	61	56	46	46	62	93
60%	48	75	143	125	99	76	52	52	46	43	46	54
70%	44	69	130	108	81	54	47	50	43	40	41	52
80%	42	62	106	99	63	43	37	42	41	37	40	47
90%	41	52	83	72	46	34	25	21	37	32	35	43
Long Term												
Full Simulation Period <sup>a</sup>	87	95	136	137	105	90	67	60	49	51	62	83
Water Year Types <sup>b</sup>												
Wet (32%)	73	82	112	98	65	50	35	36	45	43	38	44
Above Normal (15%)	97	103	140	141	106	69	51	50	47	43	42	51
Below Normal (17%)	88	98	142	149	99	88	64	58	46	45	70	123
Dry (22%)	88	98	149	156	134	121	88	79	45	53	83	105
Critical (15%)	106	110	158	173	150	150	123	97	66	78	95	118

Alternative 2B minus Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2	-3	1	19	15	12	21	12	-6	-1	1	10
20%	-2	4	4	17	6	5	10	9	-5	-1	-2	6
30%	-3	1	8	25	5	8	6	3	-7	0	1	3
40%	-2	3	14	25	4	3	-4	-8	-7	-3	0	-4
50%	2	2	44	14	-2	5	-4	-6	-8	-2	1	-4
60%	-8	10	52	10	0	8	-5	-6	-7	-3	-9	-34
70%	-8	17	50	2	-3	1	-1	-3	-8	-2	-7	-28
80%	-5	16	33	0	0	1	0	-3	-7	-1	-6	-26
90%	-3	9	11	0	1	-1	-1	-1	-7	-1	-8	-22
Long Term												
Full Simulation Period <sup>a</sup>	-3	6	22	12	2	5	4	1	-6	-1	-3	-10
Water Year Types <sup>b</sup>												
Wet (32%)	-3	9	18	4	-1	2	-2	-3	-3	0	-7	-31
Above Normal (15%)	-4	8	27	16	1	1	-6	-7	-7	-1	-7	-19
Below Normal (17%)	-5	5	21	13	0	6	-3	-6	-8	-2	1	10
Dry (22%)	-2	3	25	21	5	10	8	6	-9	-2	-1	2
Critical (15%)	0	2	19	9	6	6	29	17	-7	1	2	2

a Based on the 82-year simulation period.

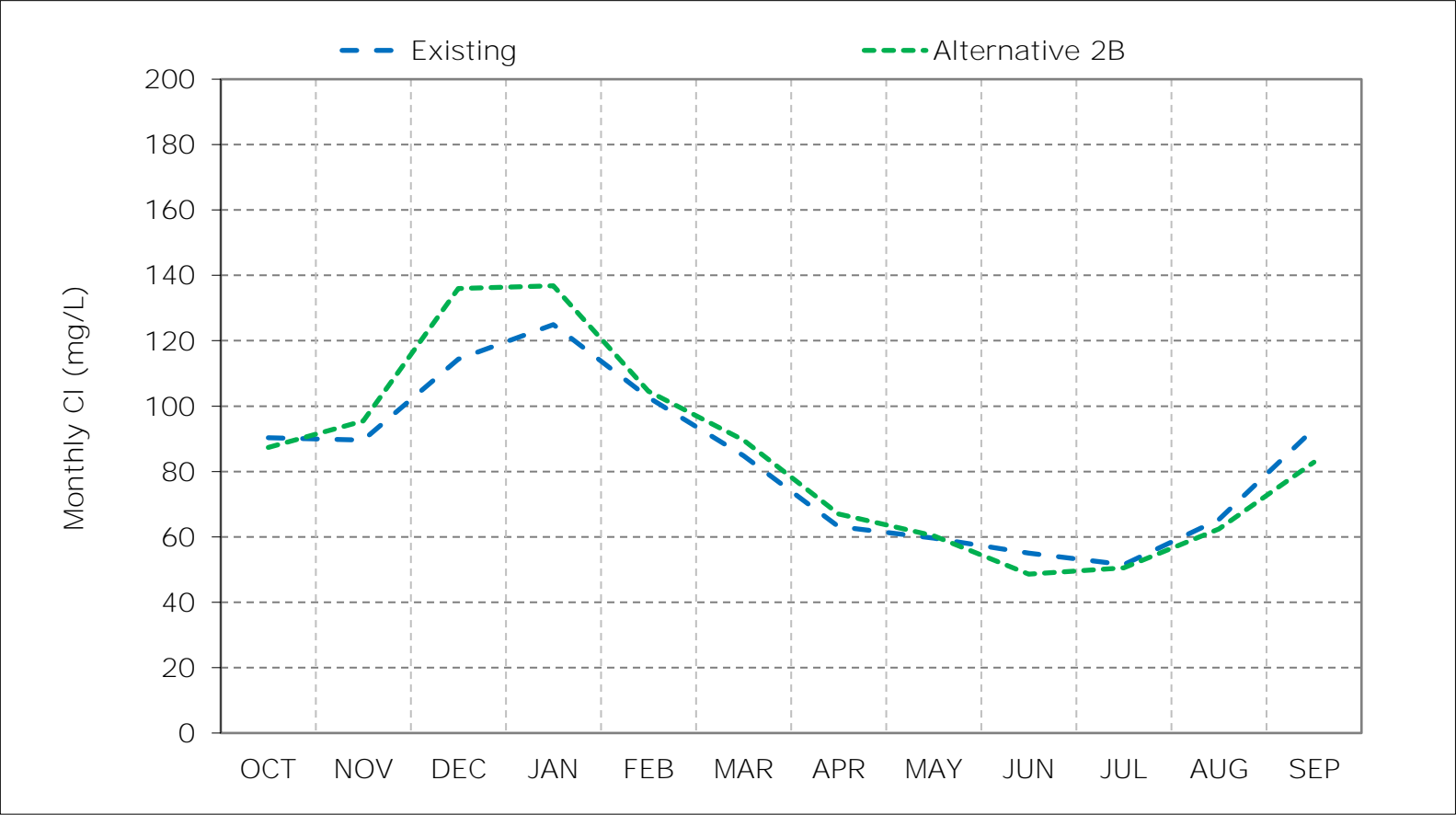
b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

d Positive differences are highted in red color which indicate increase in Chloride (Cl).

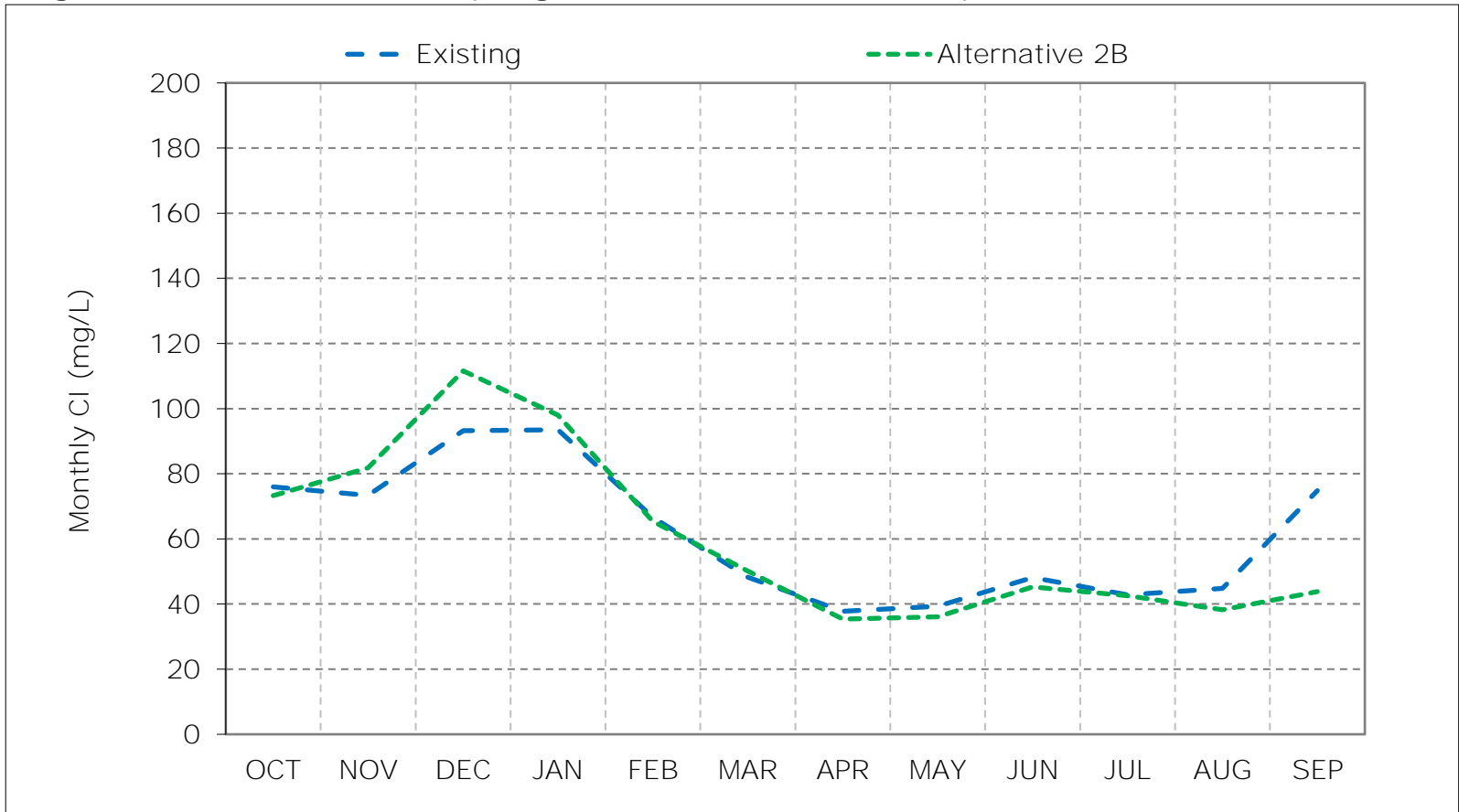


Figure 12-1. Jones Pumping Plant South Delta Exports Chloride, Long-Term Average C



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

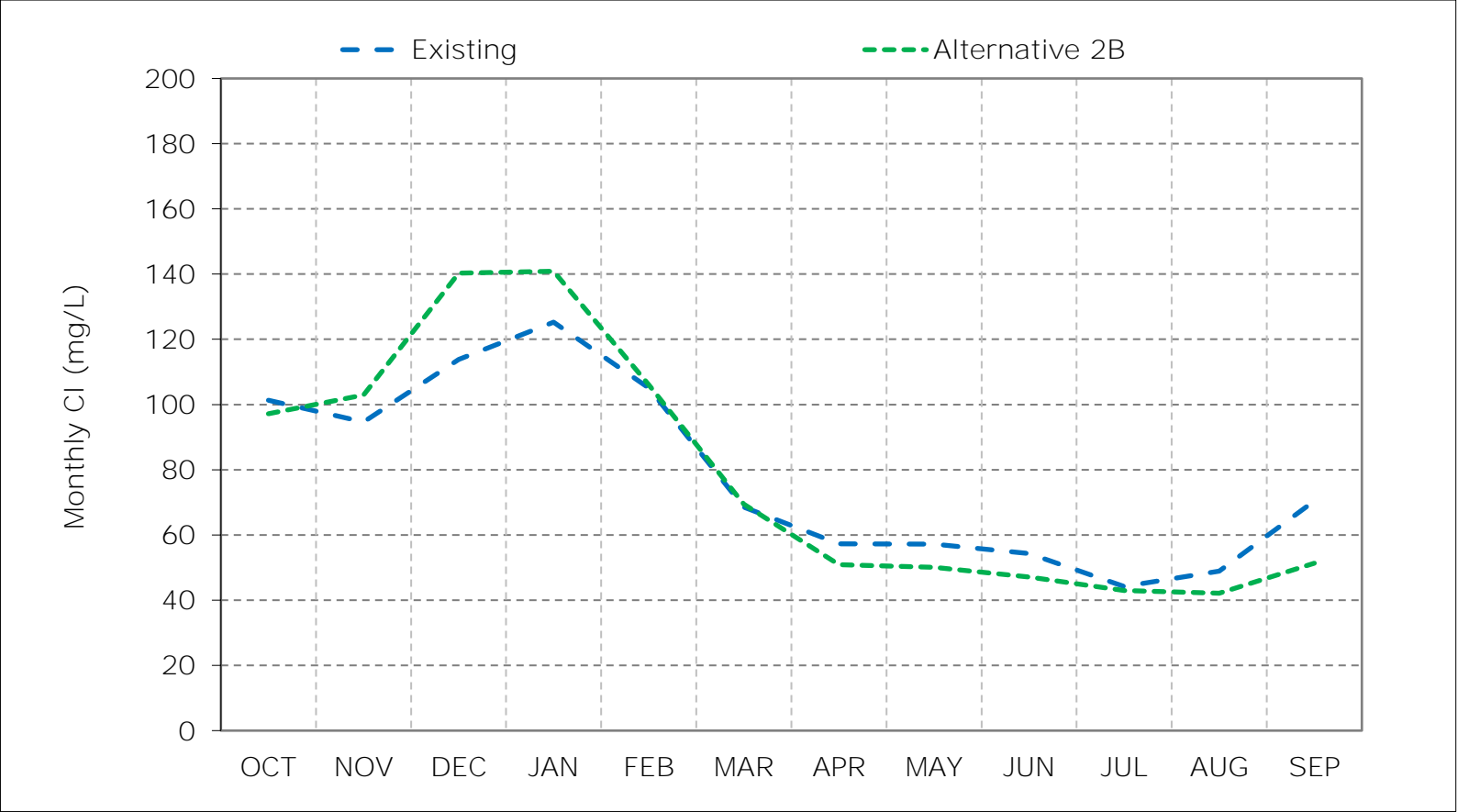
Figure 12-2. Jones Pumping Plant South Delta Exports Chloride, Wet Year Average C



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

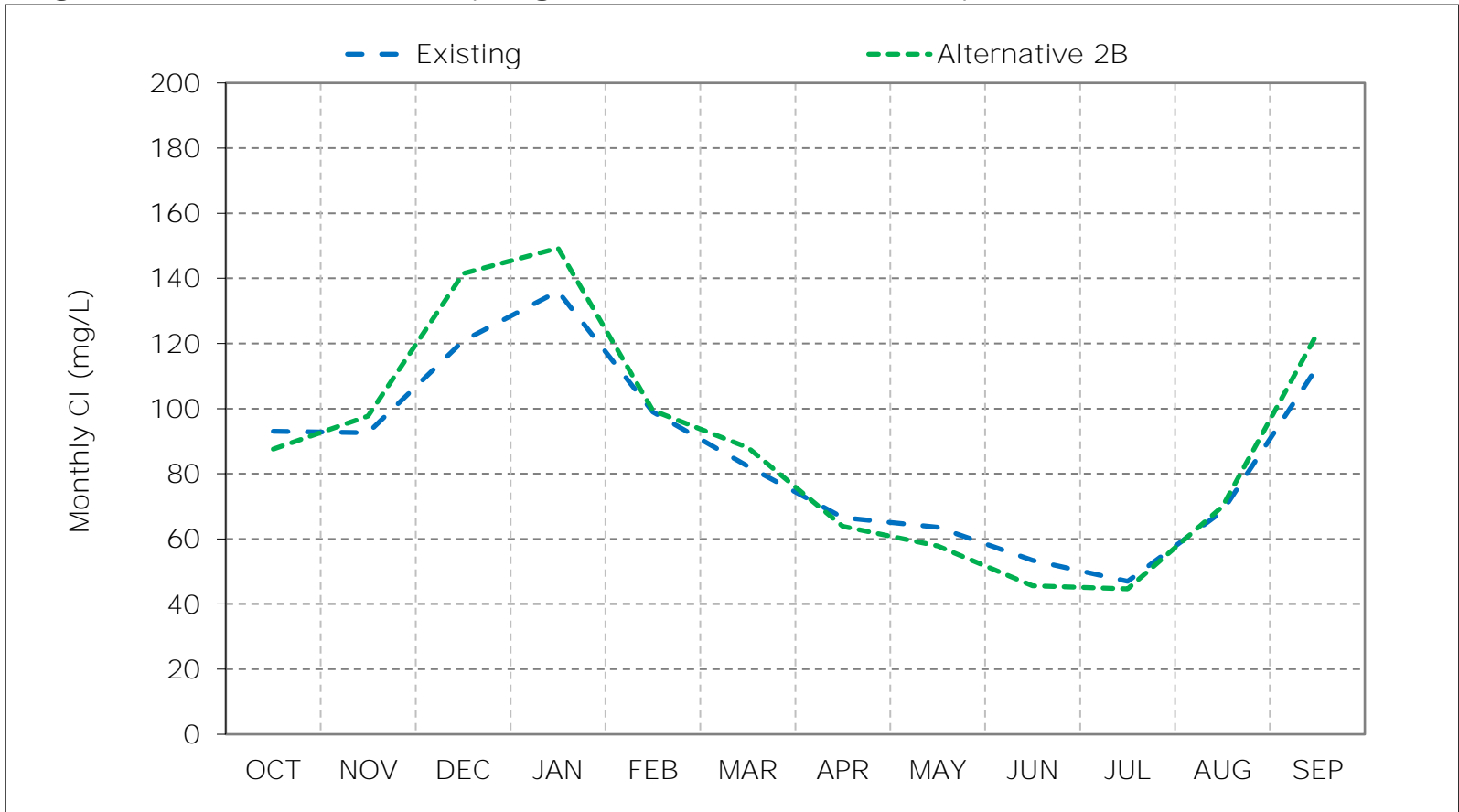
\*These results are displayed with water year - year type sorting.

Figure 12-3. Jones Pumping Plant South Delta Exports Chloride, Above Normal Year



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

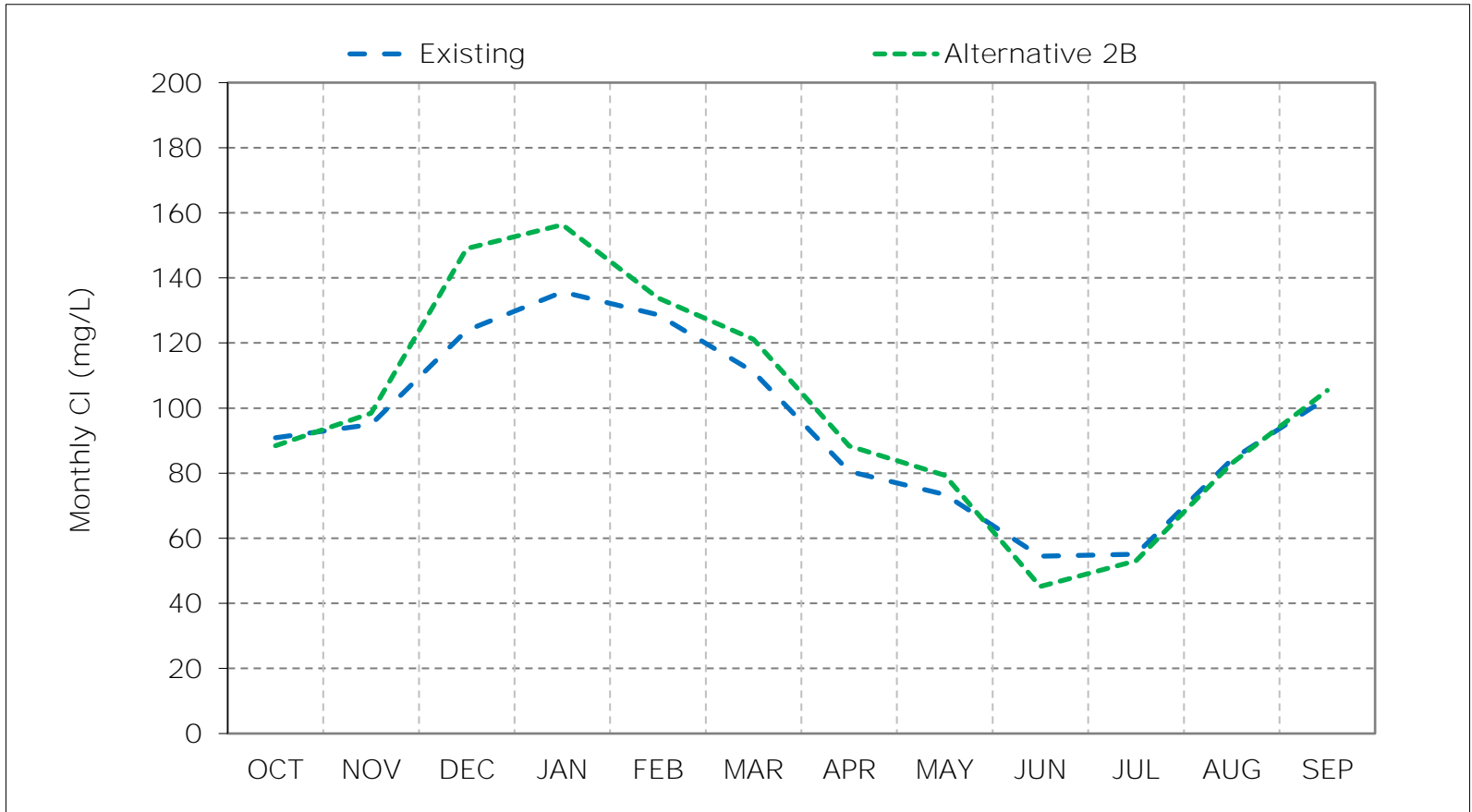
Figure 12-4. Jones Pumping Plant South Delta Exports Chloride, Below Normal Year



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

\*These results are displayed with water year - year type sorting.

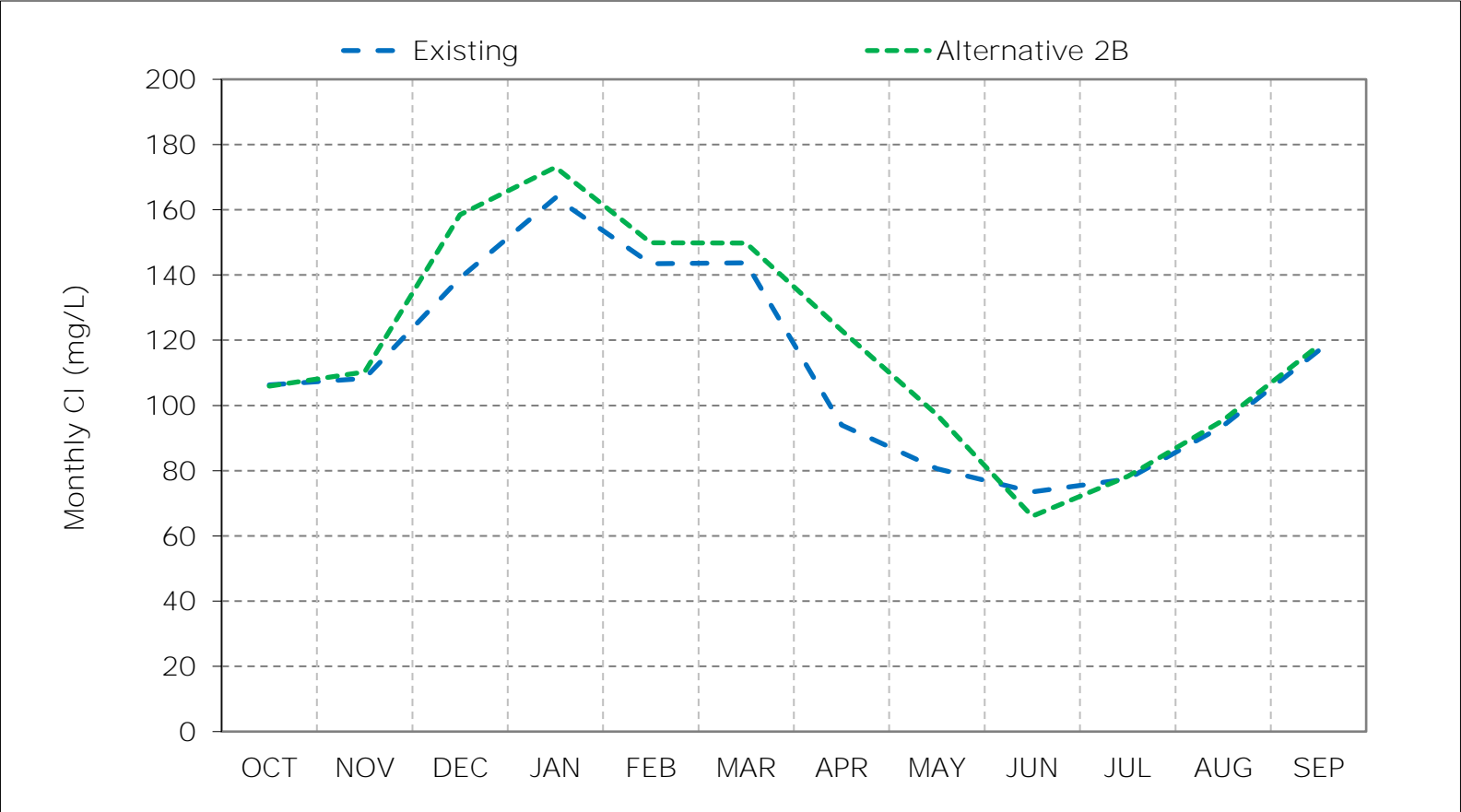
Figure 12-5. Jones Pumping Plant South Delta Exports Chloride, Dry Year Average C



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

\*These results are displayed with water year - year type sorting.

Figure 12-6. Jones Pumping Plant South Delta Exports Chloride, Critical Year Average



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 12-7. Jones Pumping Plant South Delta Exports Chloride, January CI



Figure 12-8. Jones Pumping Plant South Delta Exports Chloride, February CI

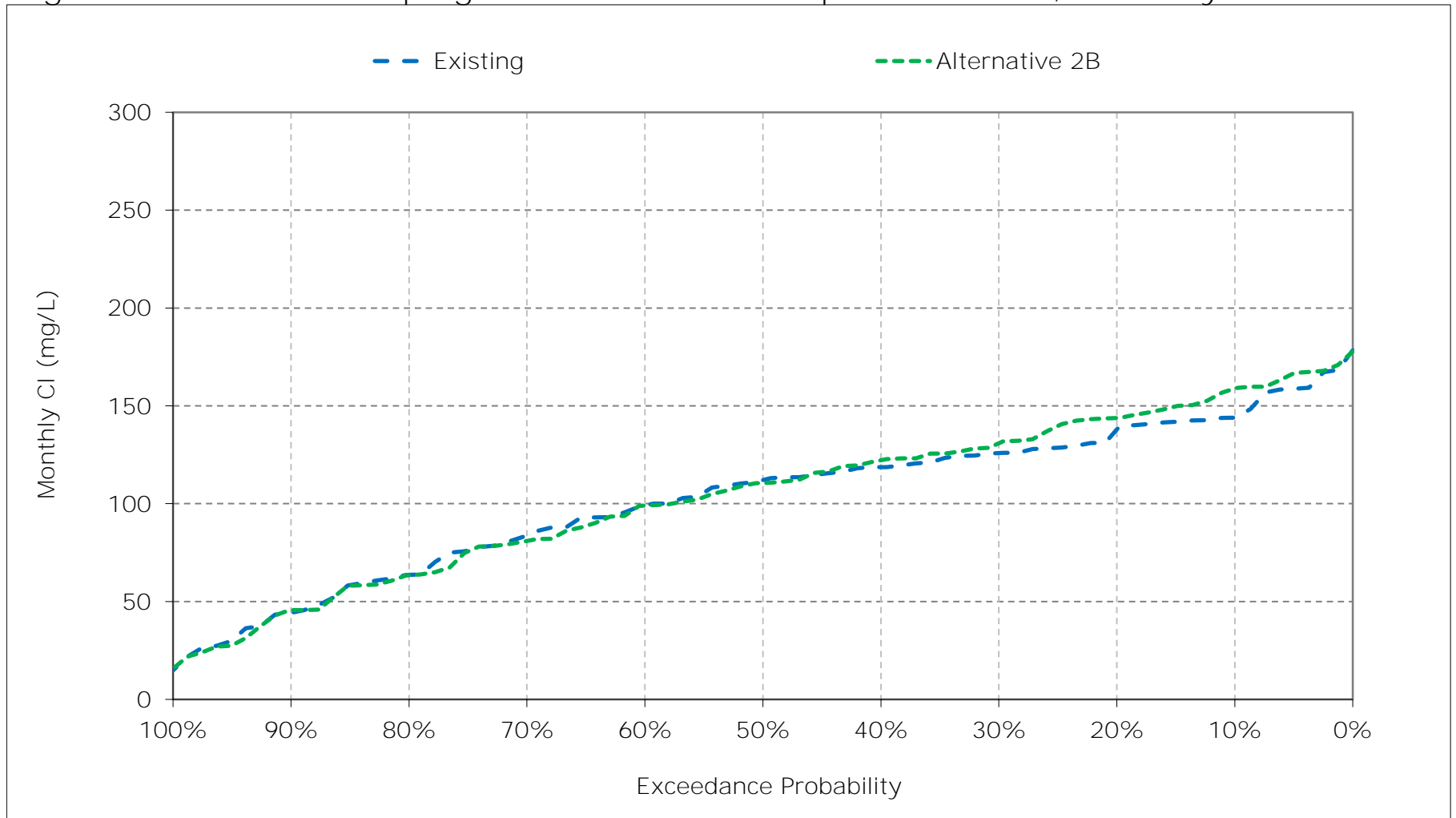




Figure 12-9. Jones Pumping Plant South Delta Exports Chloride, March CI

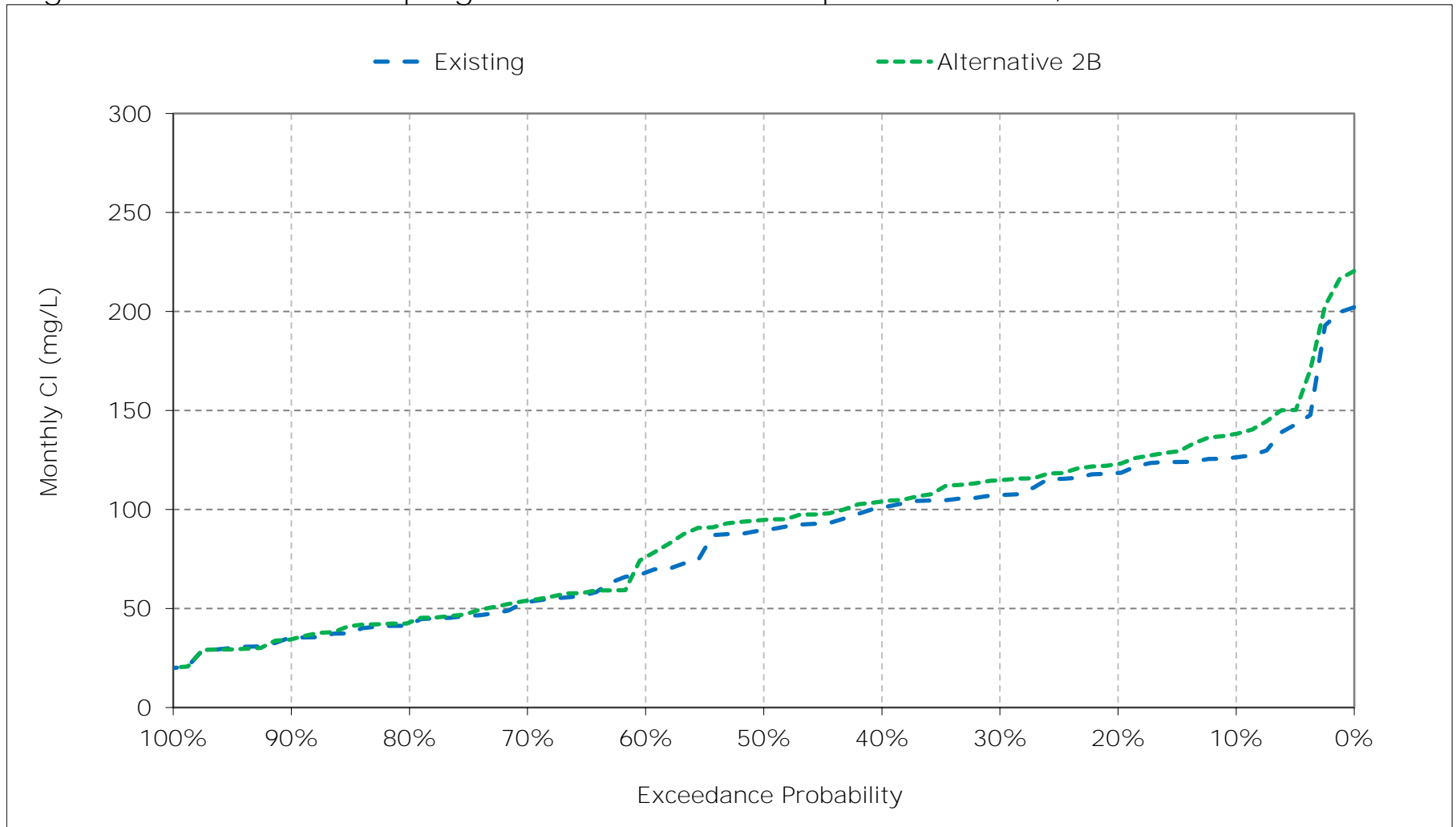


Figure 12-10. Jones Pumping Plant South Delta Exports Chloride, April CI

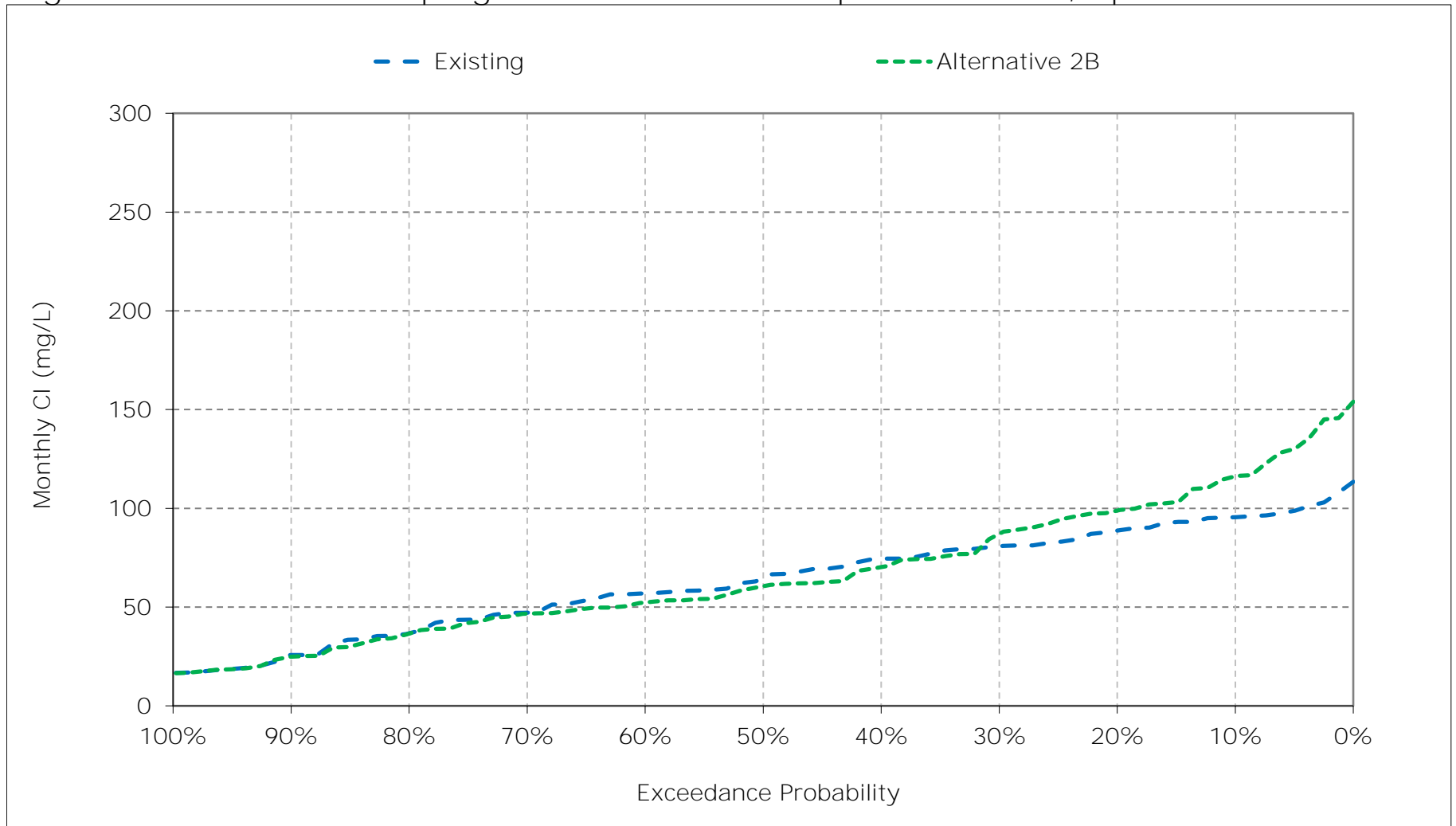


Figure 12-11. Jones Pumping Plant South Delta Exports Chloride, May CI

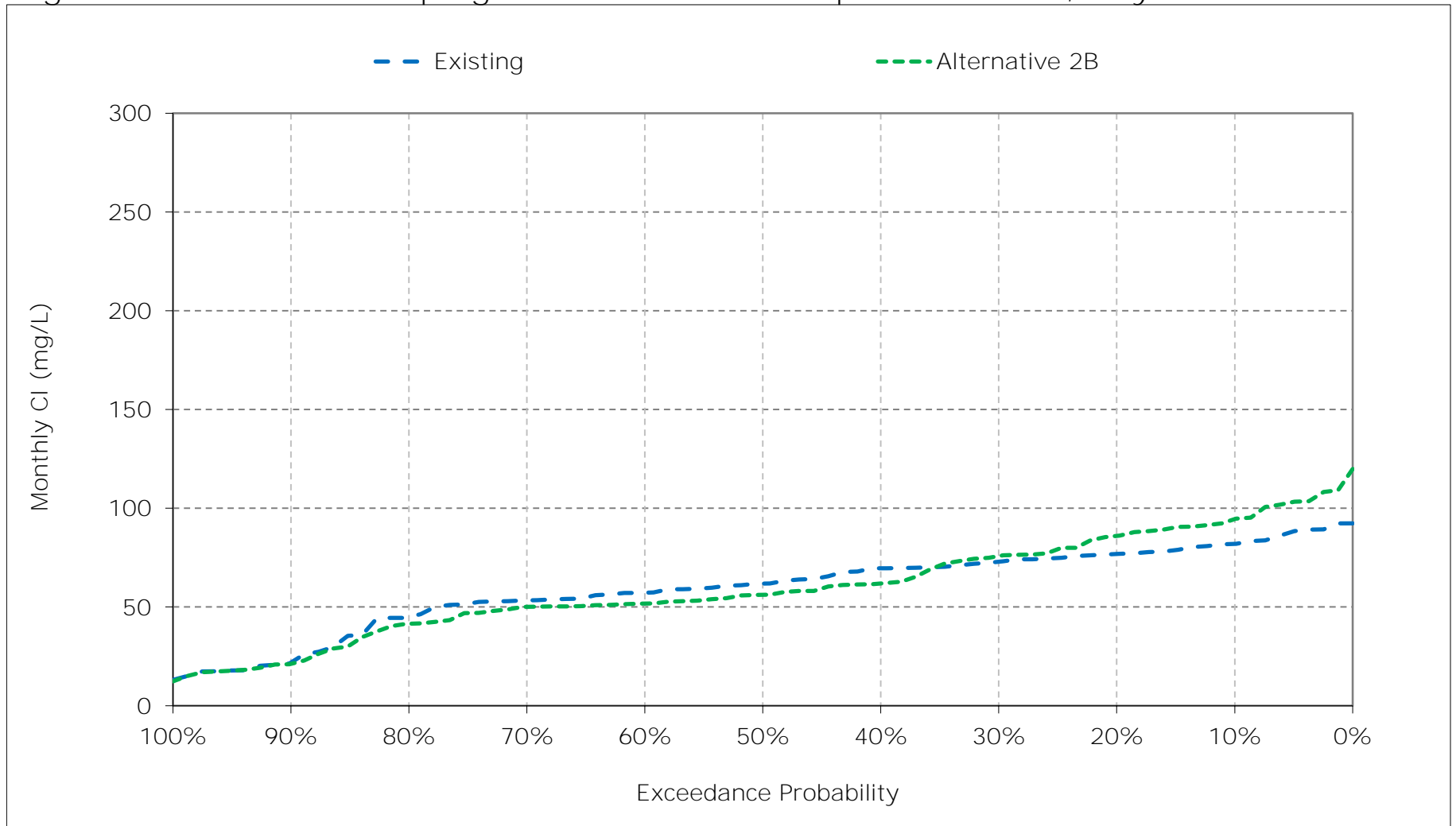


Figure 12-12. Jones Pumping Plant South Delta Exports Chloride, June CI

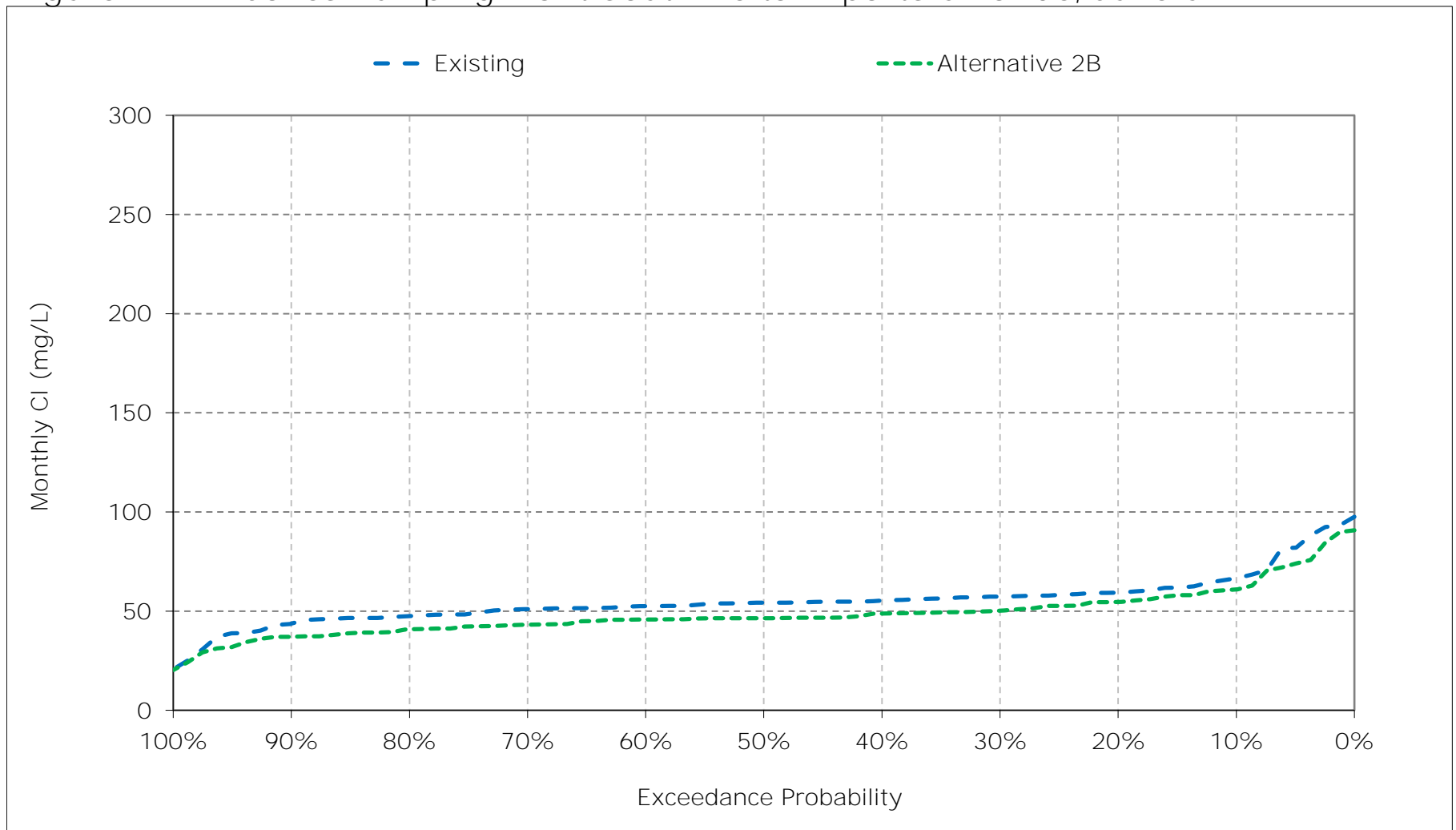


Figure 12-13. Jones Pumping Plant South Delta Exports Chloride, July CI

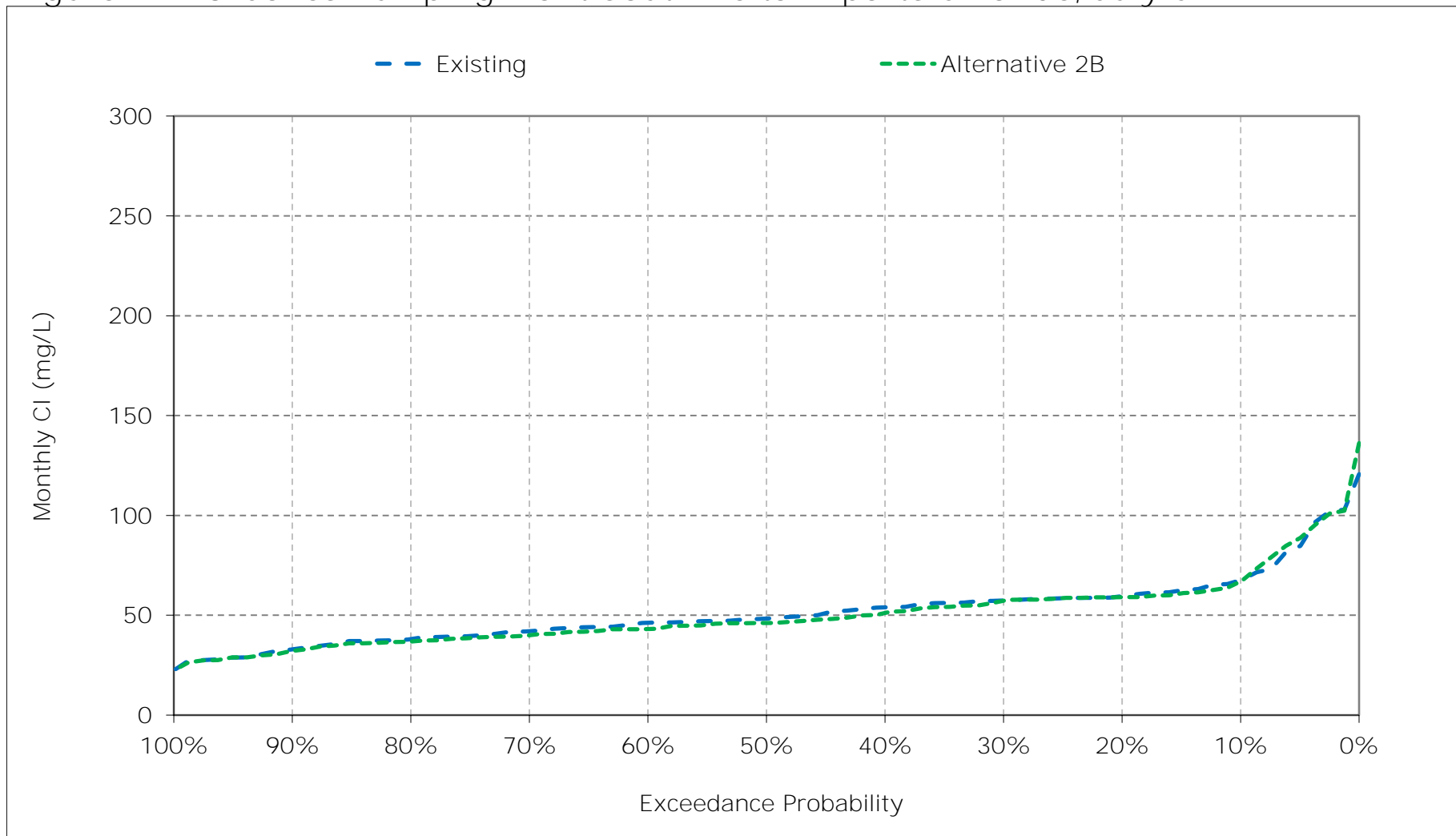


Figure 12-14. Jones Pumping Plant South Delta Exports Chloride, August CI

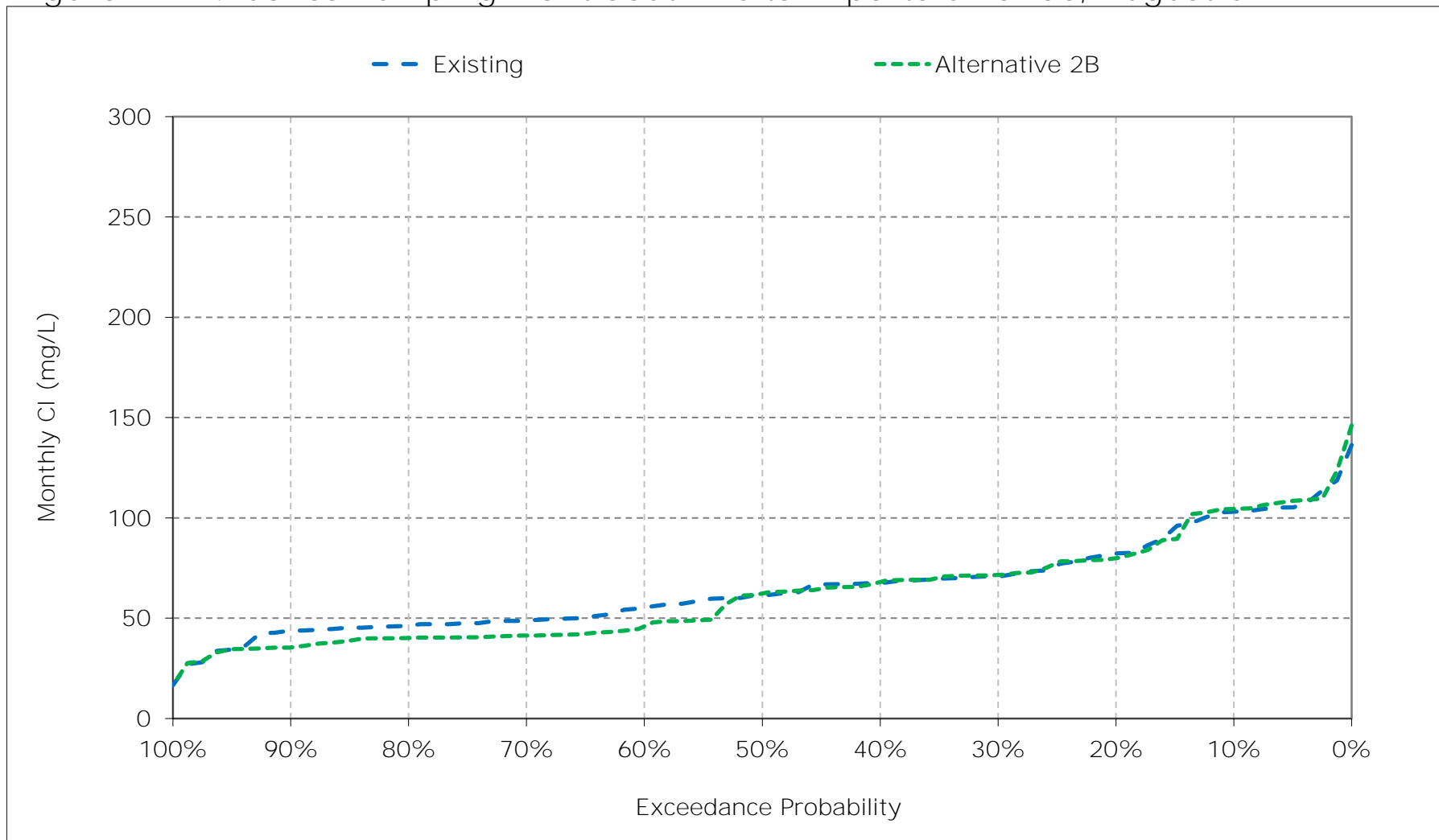


Figure 12-15. Jones Pumping Plant South Delta Exports Chloride, September CI

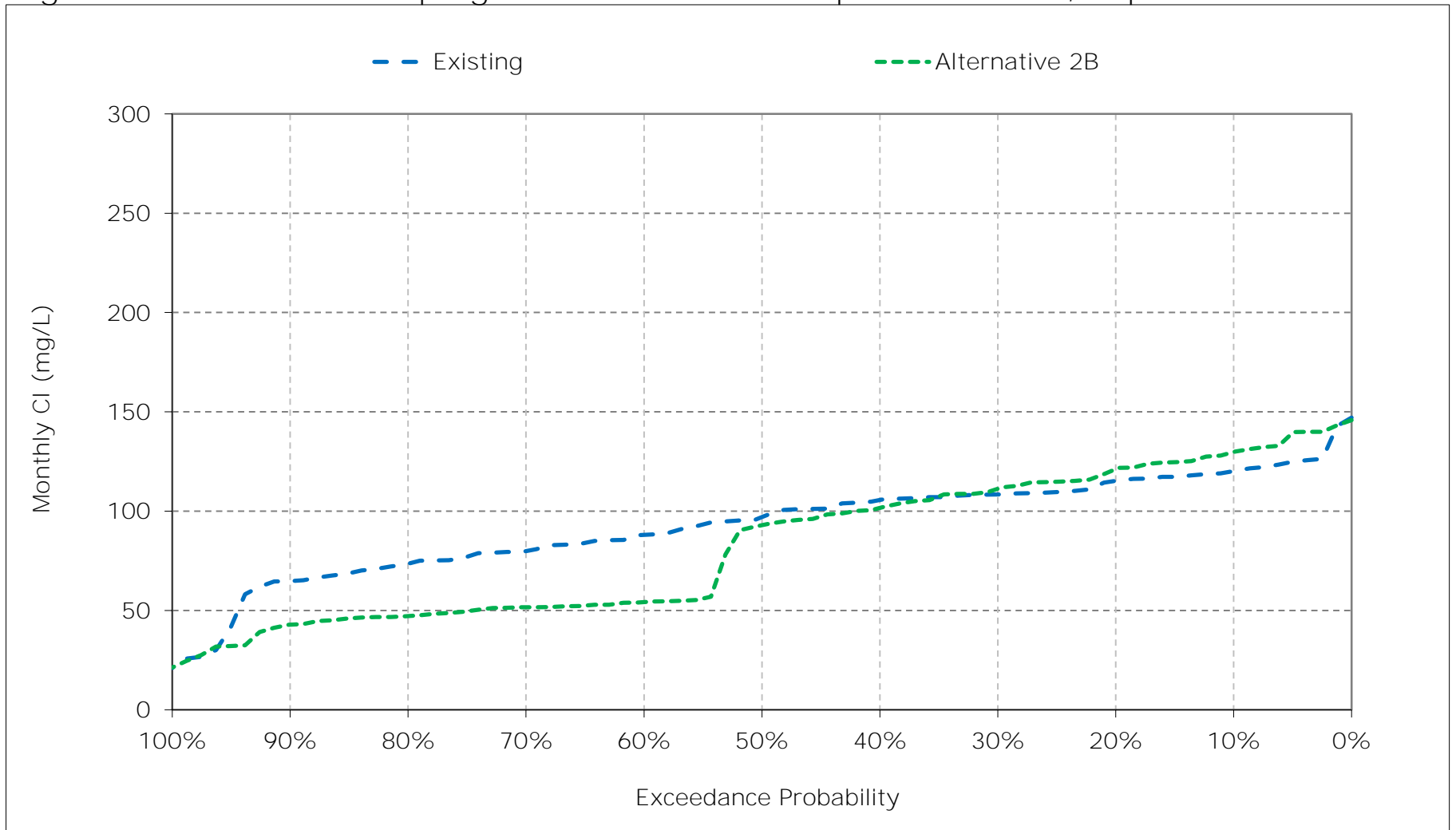


Figure 12-16. Jones Pumping Plant South Delta Exports Chloride, October CI

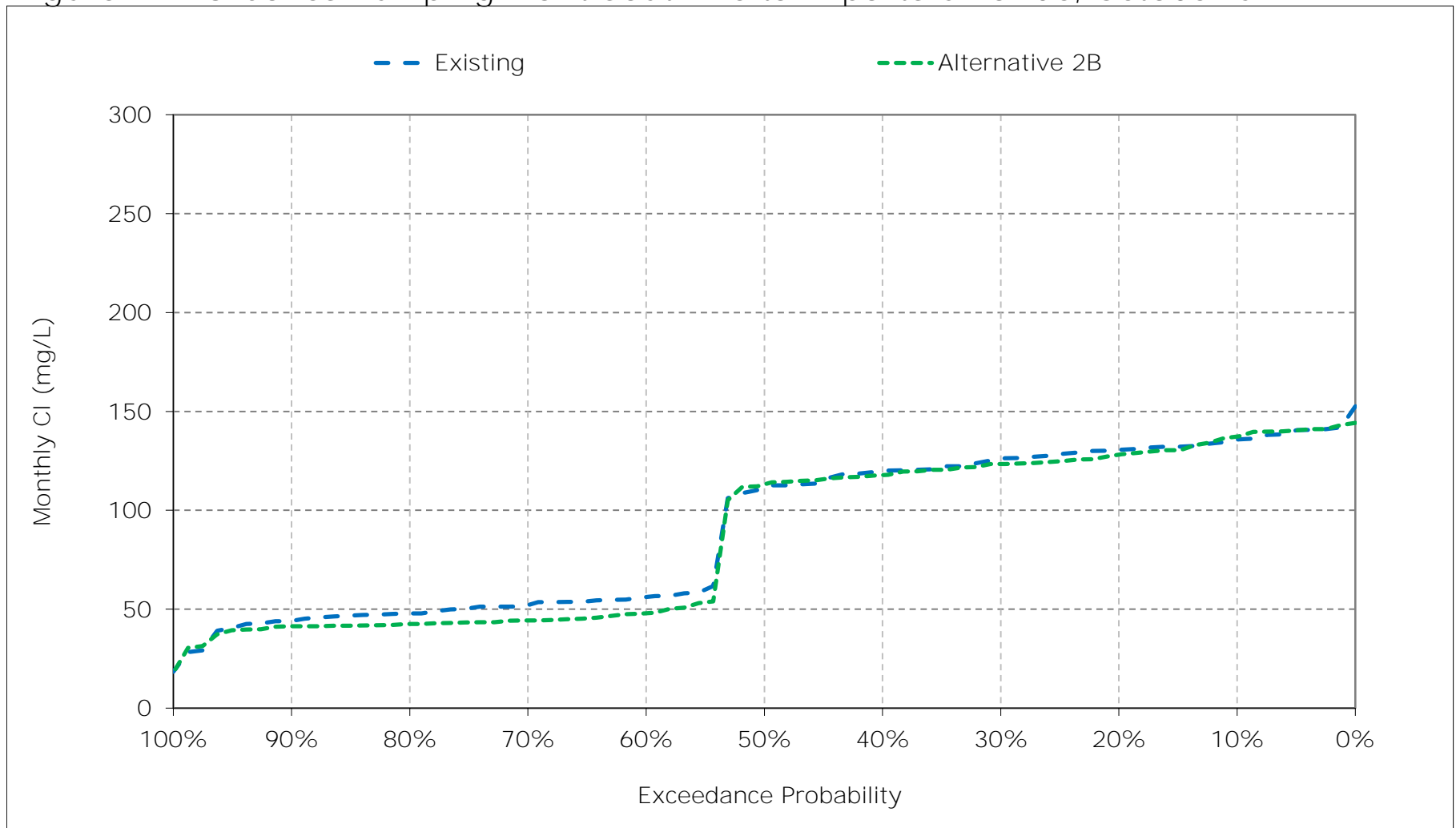




Figure 12-17. Jones Pumping Plant South Delta Exports Chloride, November CI

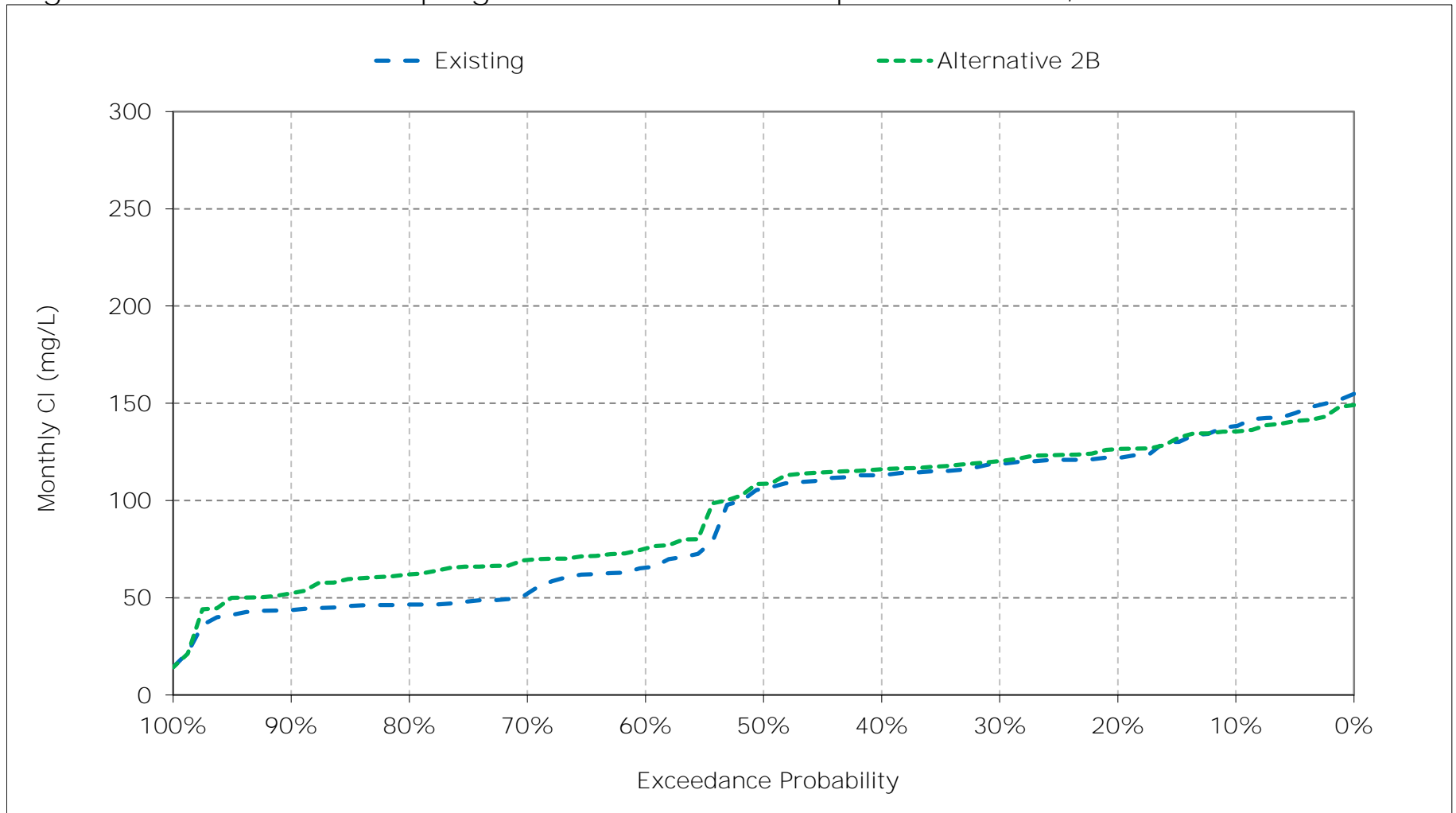


Figure 12-18. Jones Pumping Plant South Delta Exports Chloride, December CI

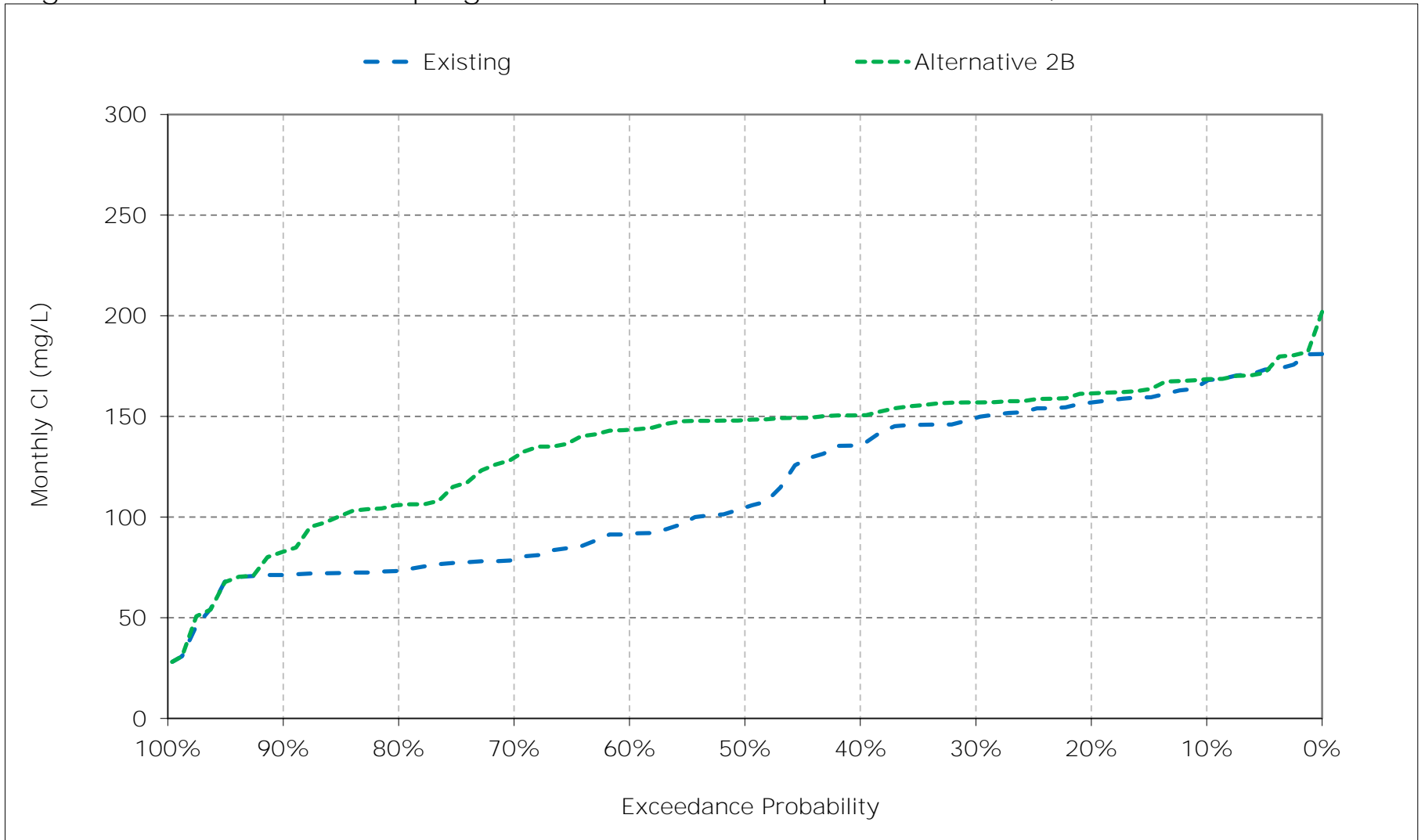


Table 13-1. Barker Slough at NBA Intake Chloride, Monthly Cl

Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18	18	19	23	25	23	21	19	18	18	18	18
20%	17	18	18	22	24	22	20	18	17	17	17	17
30%	17	17	18	21	23	21	19	18	17	17	16	17
40%	17	17	18	20	22	21	19	18	17	16	16	16
50%	16	17	17	19	21	20	19	17	17	16	16	16
60%	16	17	17	19	20	19	18	17	17	16	16	16
70%	16	16	17	18	20	19	18	17	17	16	16	16
80%	16	16	17	18	19	18	17	17	16	16	16	16
90%	16	16	16	18	19	18	17	16	16	16	16	16
Long Term												
Full Simulation Period <sup>a</sup>	17	17	18	20	22	20	19	18	17	17	16	17
Water Year Types <sup>b</sup>												
Wet (32%)	16	17	18	21	22	20	18	17	16	16	16	16
Above Normal (15%)	17	17	18	21	22	20	18	17	17	16	16	16
Below Normal (17%)	17	17	18	20	22	21	19	17	17	16	16	16
Dry (22%)	17	17	18	20	22	21	20	18	17	17	16	17
Critical (15%)	17	17	17	19	21	21	21	21	20	18	18	18

Alternative 2B

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	18	18	19	23	25	23	22	20	19	18	18	18
20%	17	18	18	22	24	23	20	19	17	17	17	17
30%	17	17	18	21	23	21	19	18	17	17	16	17
40%	17	17	18	20	22	20	19	18	17	16	16	17
50%	16	17	17	19	21	20	19	17	17	16	16	16
60%	16	16	17	19	20	19	18	17	17	16	16	16
70%	16	16	17	18	20	19	18	17	17	16	16	16
80%	16	16	16	18	19	18	17	17	16	16	16	16
90%	16	16	16	18	19	18	17	16	16	16	16	16
Long Term												
Full Simulation Period <sup>a</sup>	17	17	18	20	22	20	19	18	17	17	16	17
Water Year Types <sup>b</sup>												
Wet (32%)	16	17	18	21	22	20	18	17	16	16	16	16
Above Normal (15%)	16	17	18	21	22	20	18	17	17	16	16	16
Below Normal (17%)	17	17	18	20	22	20	19	17	17	16	16	16
Dry (22%)	17	17	18	20	22	21	20	18	17	17	16	17
Critical (15%)	17	17	17	19	21	21	21	21	20	18	18	18

Alternative 2B minus Existing

Statistic	Monthly Cl (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	1	1	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 <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types <sup>b</sup>												
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	1	0	0	0	0

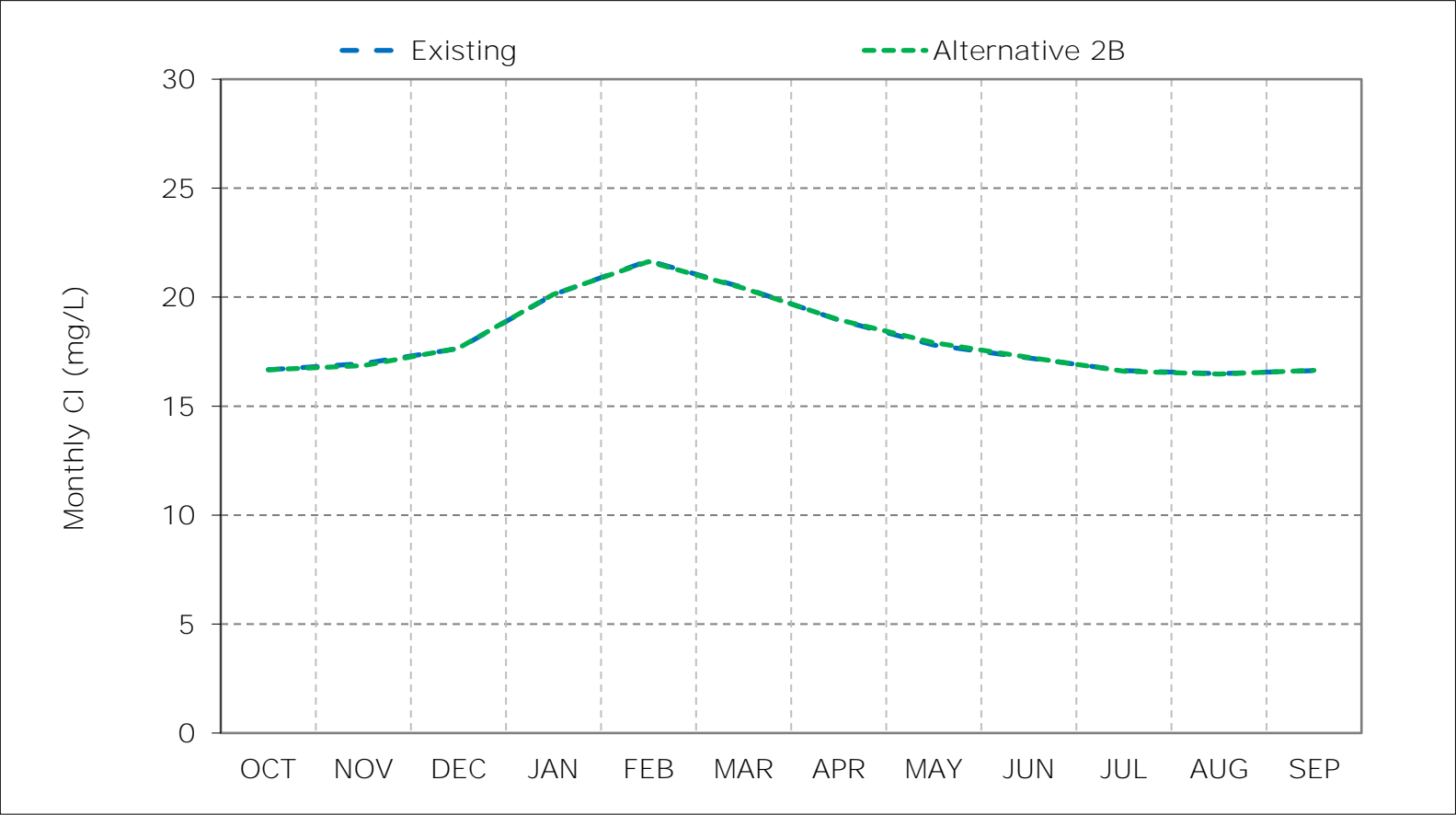
a Based on the 82-year simulation period.

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 water year - year type sorting.

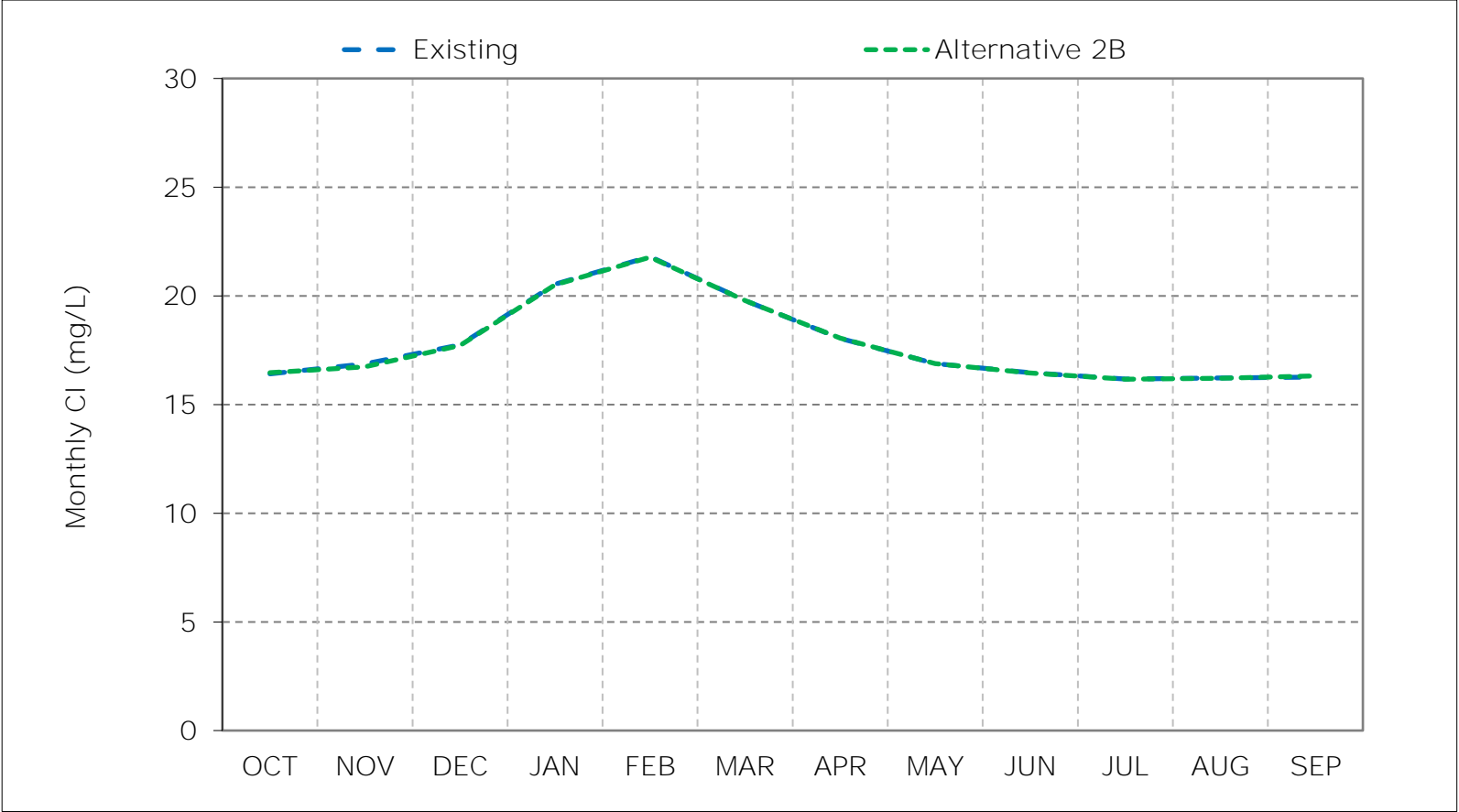
d Positive differences are highted in red color which indicate increase in Chloride (Cl).

Figure 13-1. Barker Slough at NBA Intake Chloride, Long-Term Average Cl



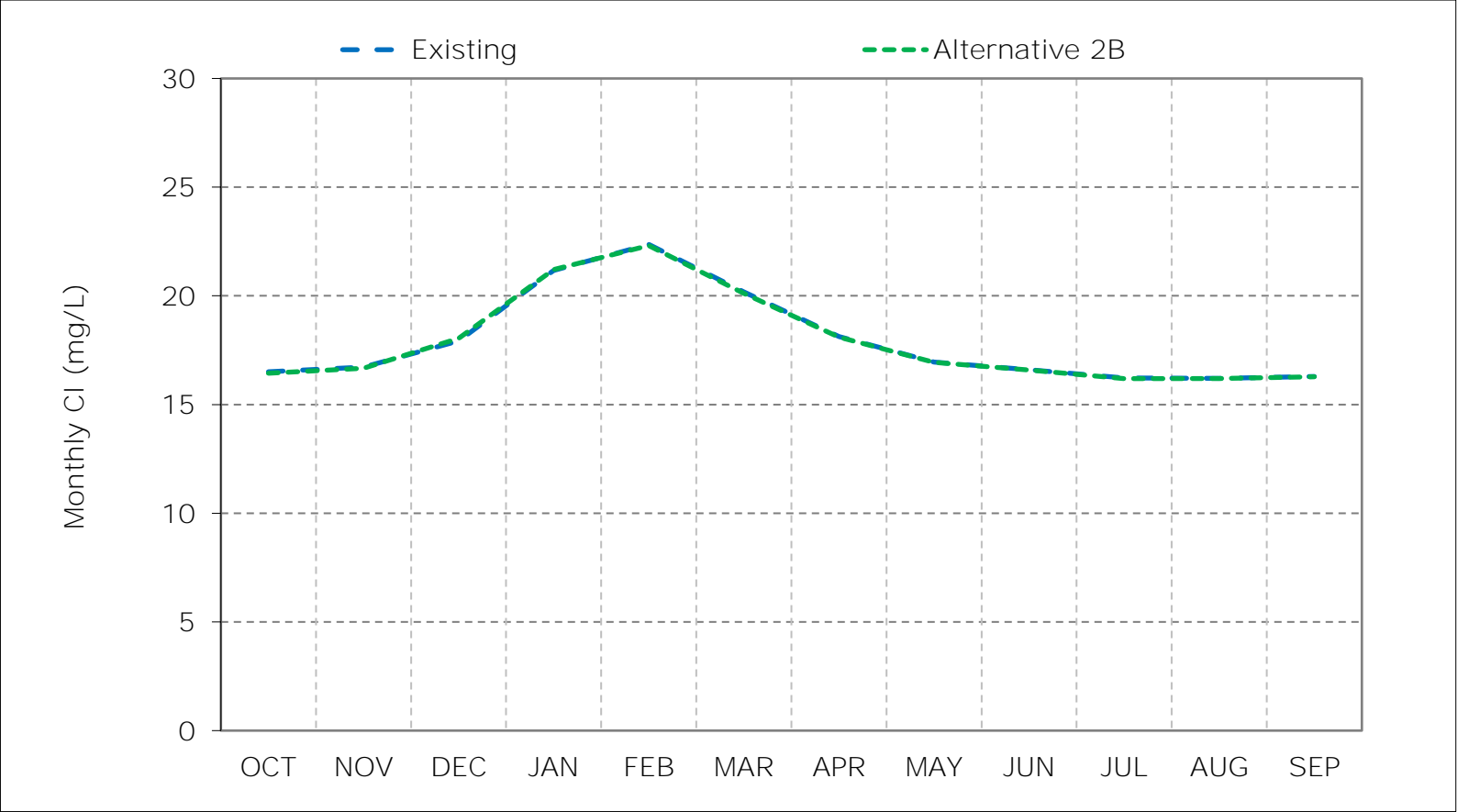
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 13-2. Barker Slough at NBA Intake Chloride, Wet Year Average CI



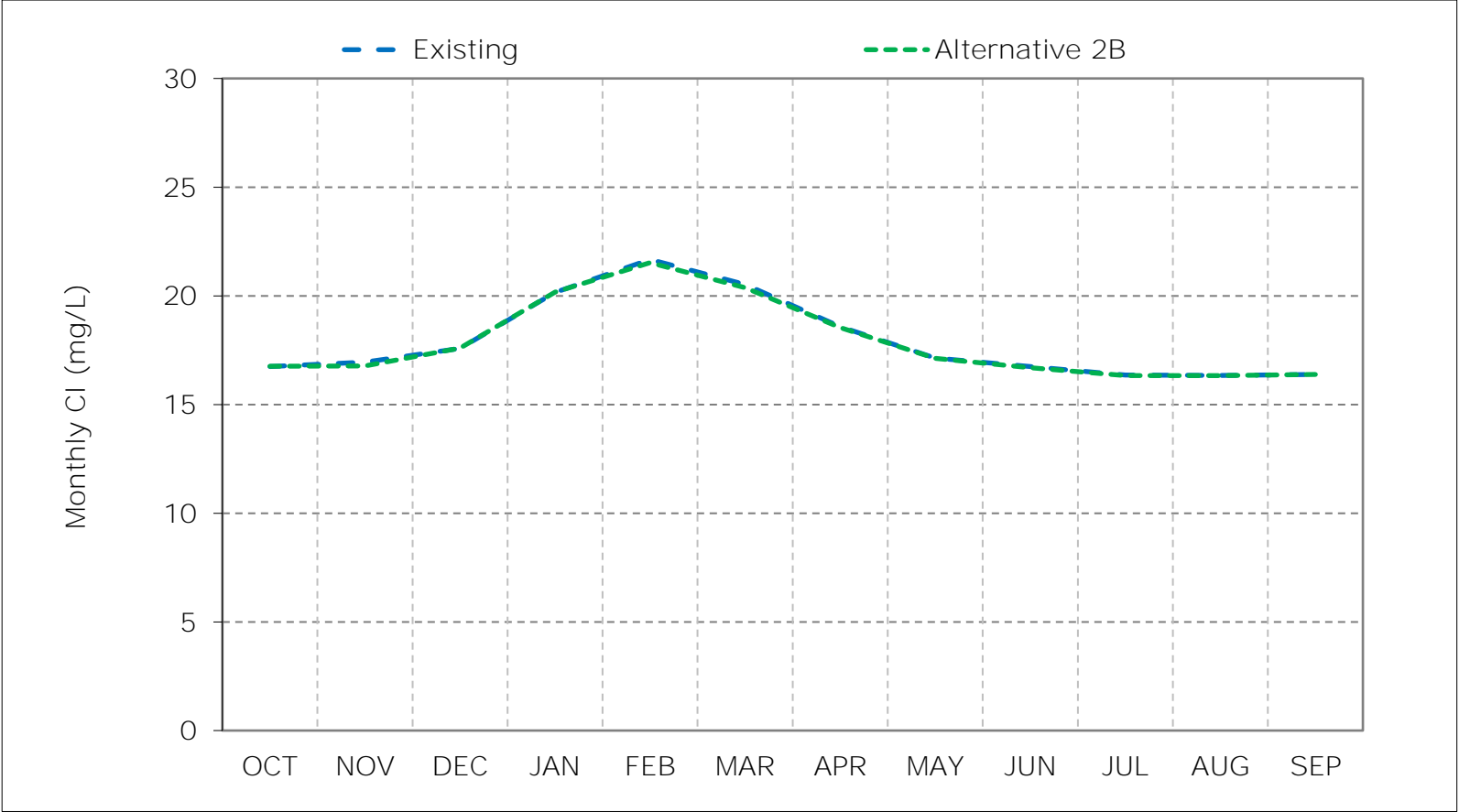
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 13-3. Barker Slough at NBA Intake Chloride, Above Normal Year Average Cl



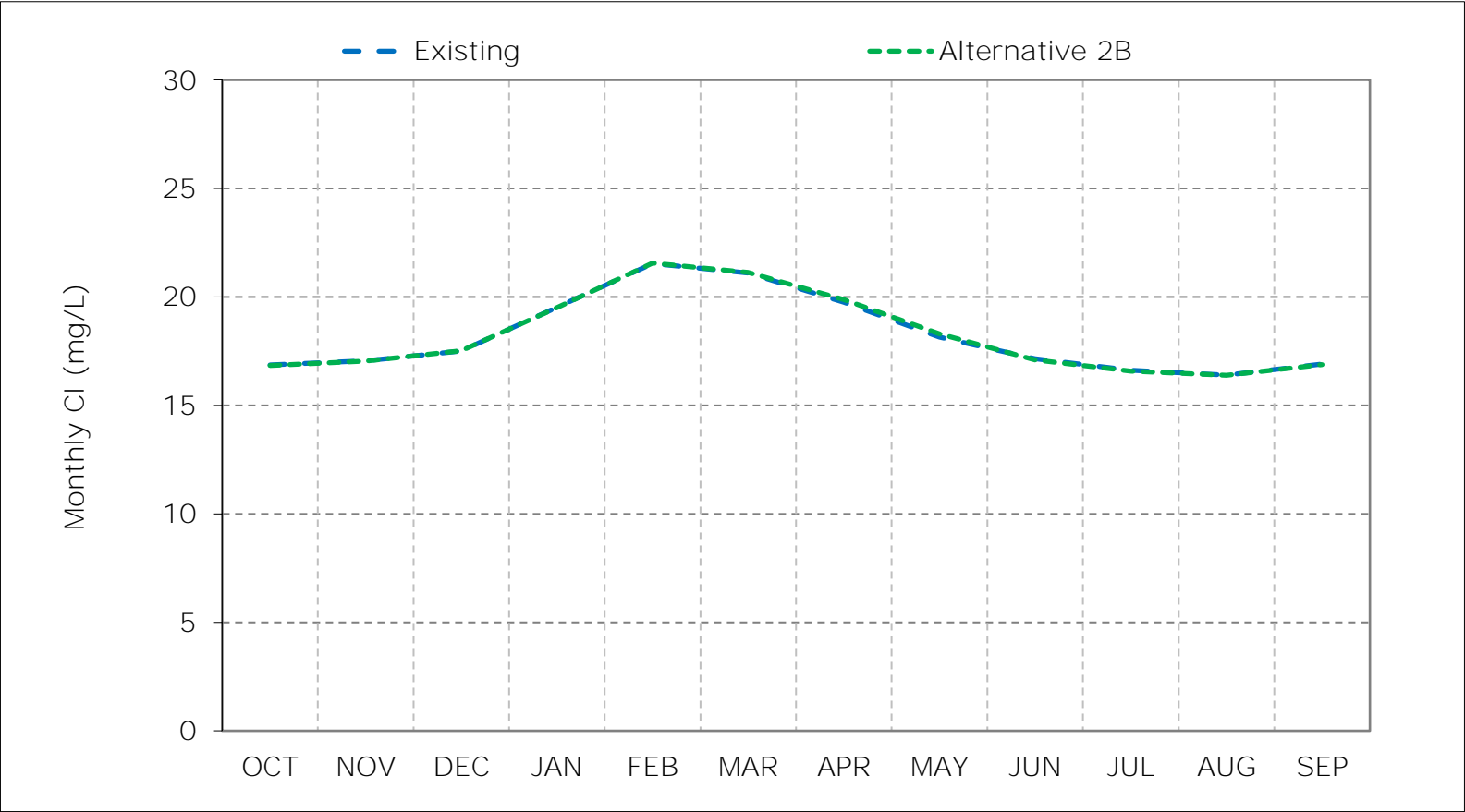
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 13-4. Barker Slough at NBA Intake Chloride, Below Normal Year Average CI



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

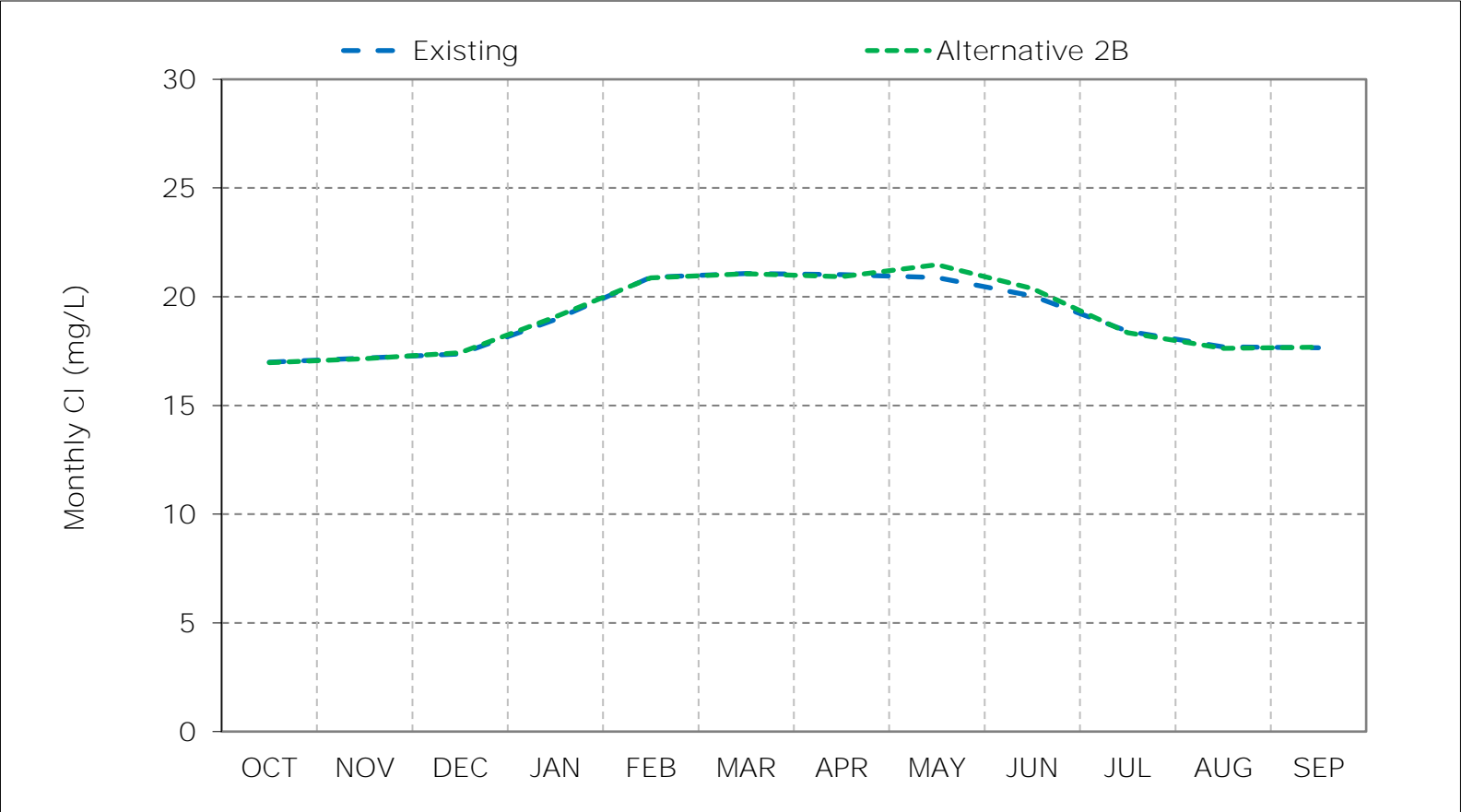
Figure 13-5. Barker Slough at NBA Intake Chloride, Dry Year Average Cl



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.



Figure 13-6. Barker Slough at NBA Intake Chloride, Critical Year Average CI



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with water year - year type sorting.

Figure 13-7. Barker Slough at NBA Intake Chloride, January CI

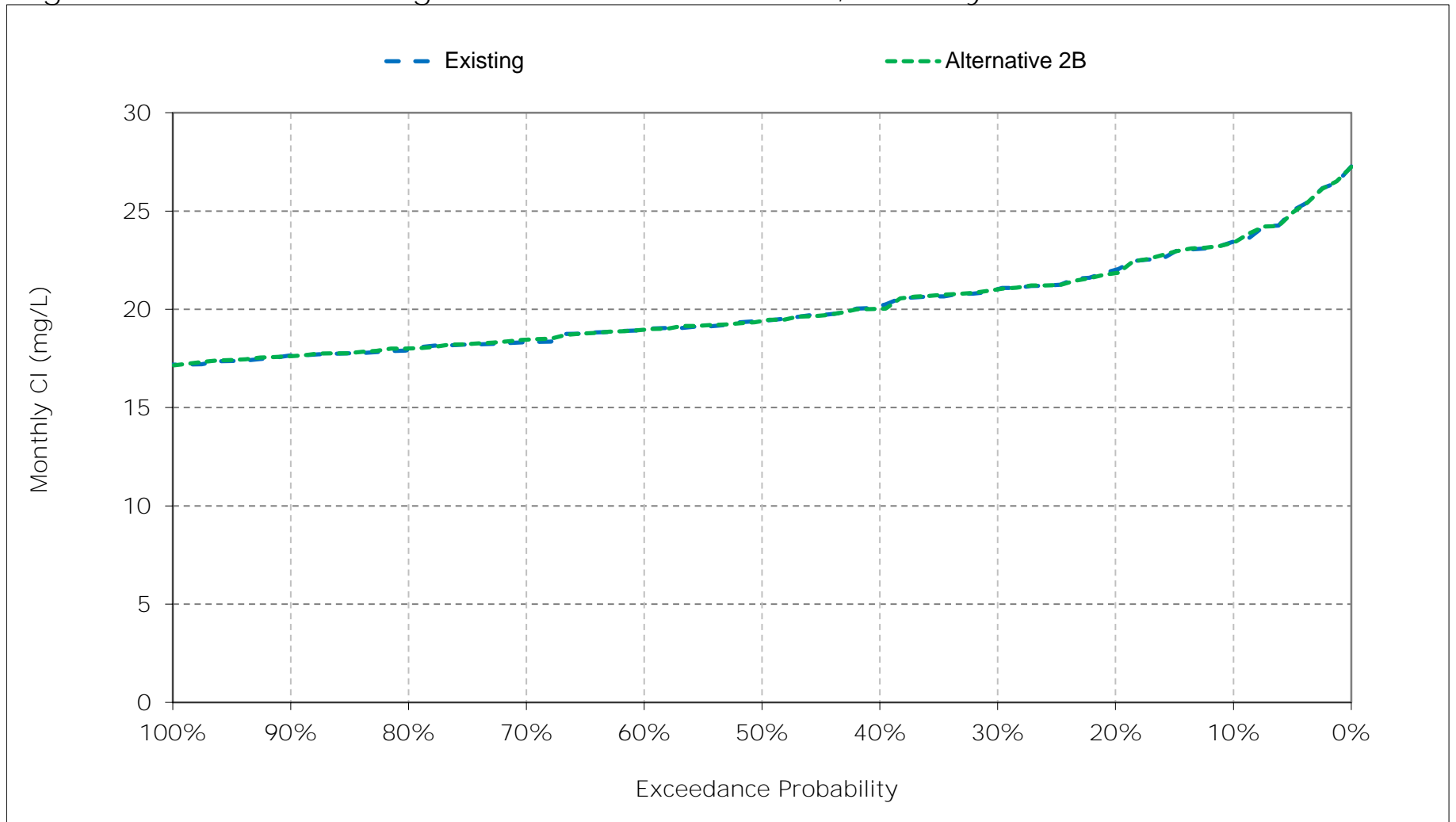


Figure 13-8. Barker Slough at NBA Intake Chloride, February CI

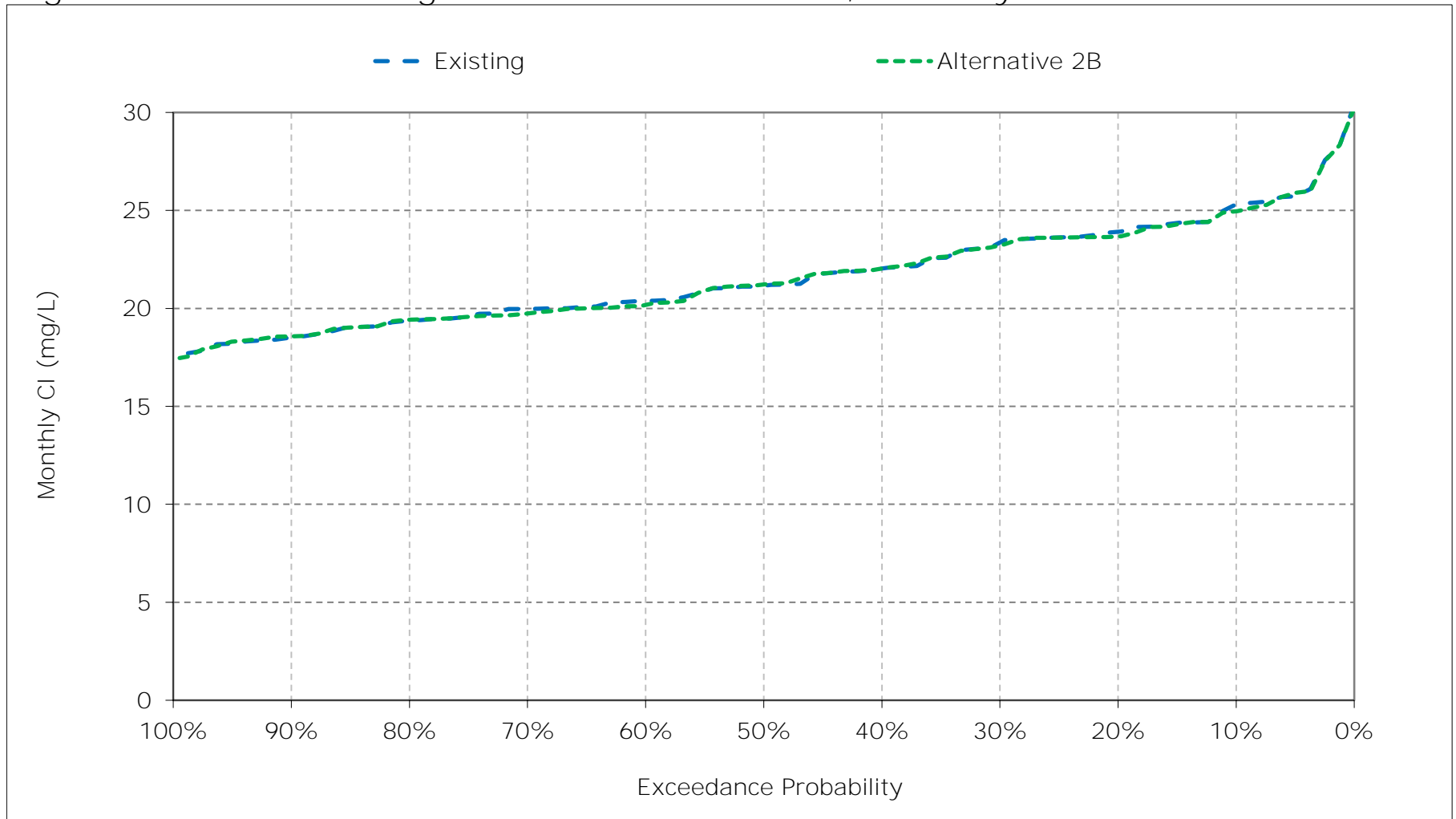


Figure 13-9. Barker Slough at NBA Intake Chloride, March CI

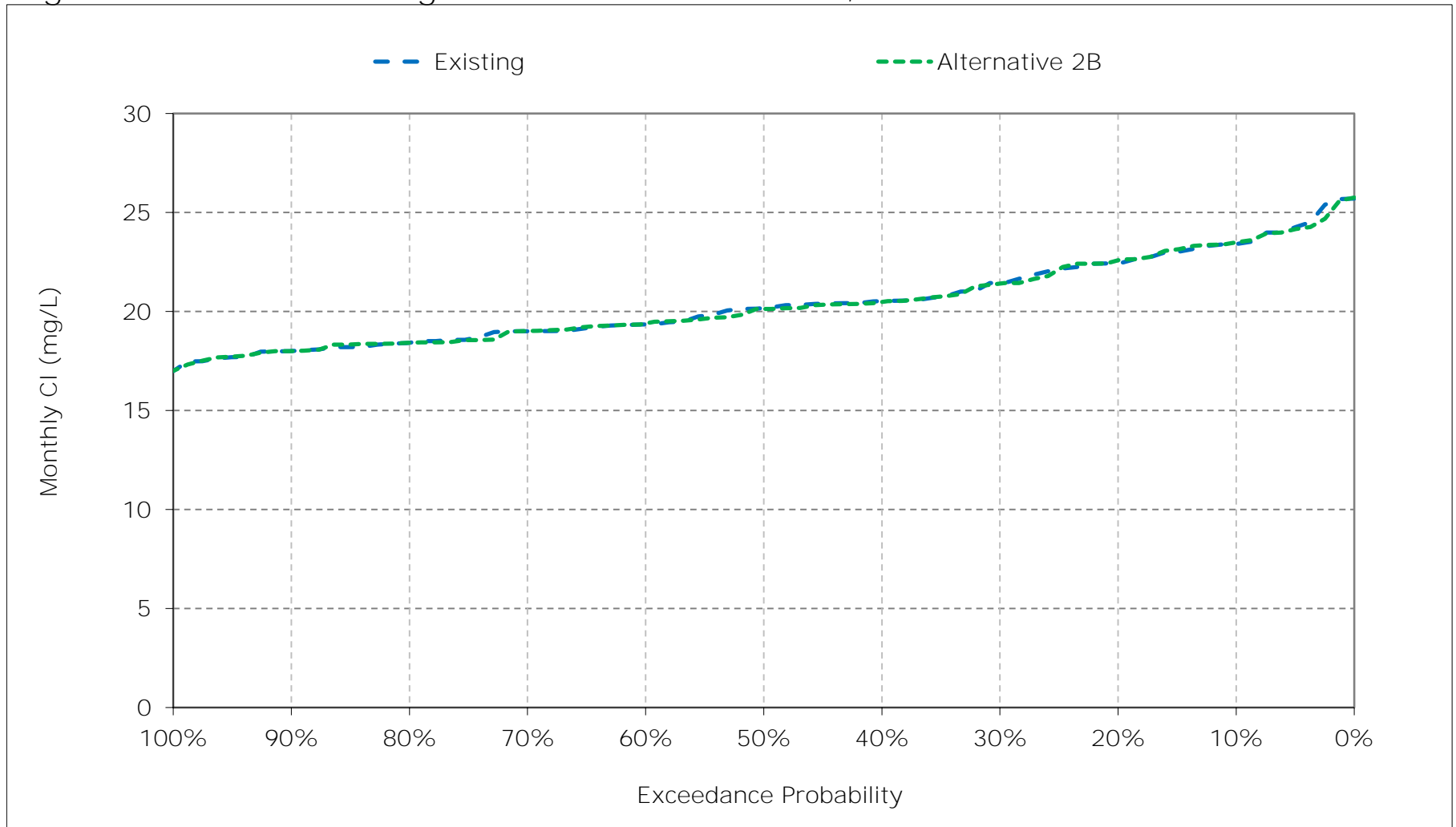


Figure 13-10. Barker Slough at NBA Intake Chloride, April CI

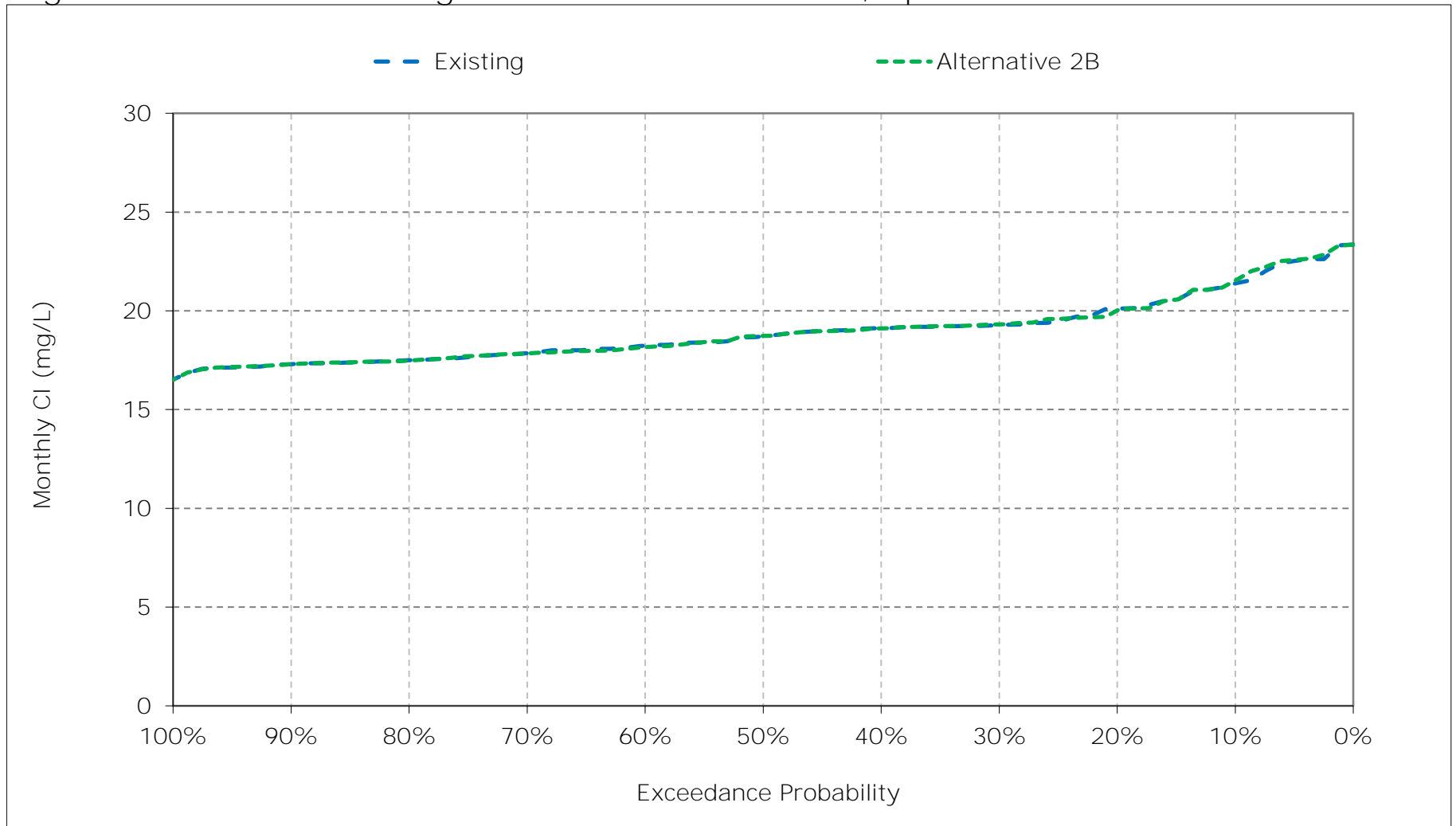


Figure 13-11. Barker Slough at NBA Intake Chloride, May CI

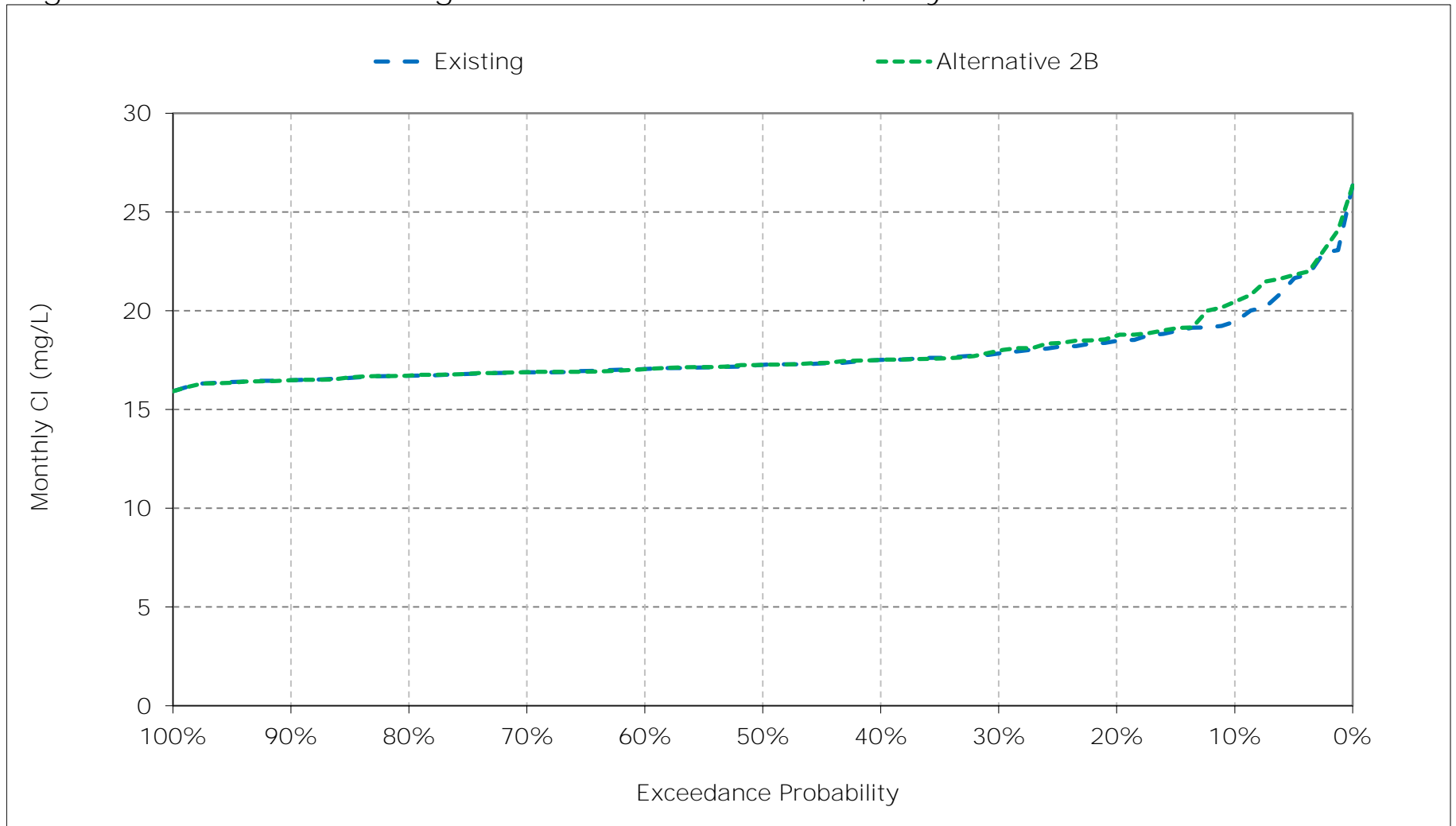


Figure 13-12. Barker Slough at NBA Intake Chloride, June CI

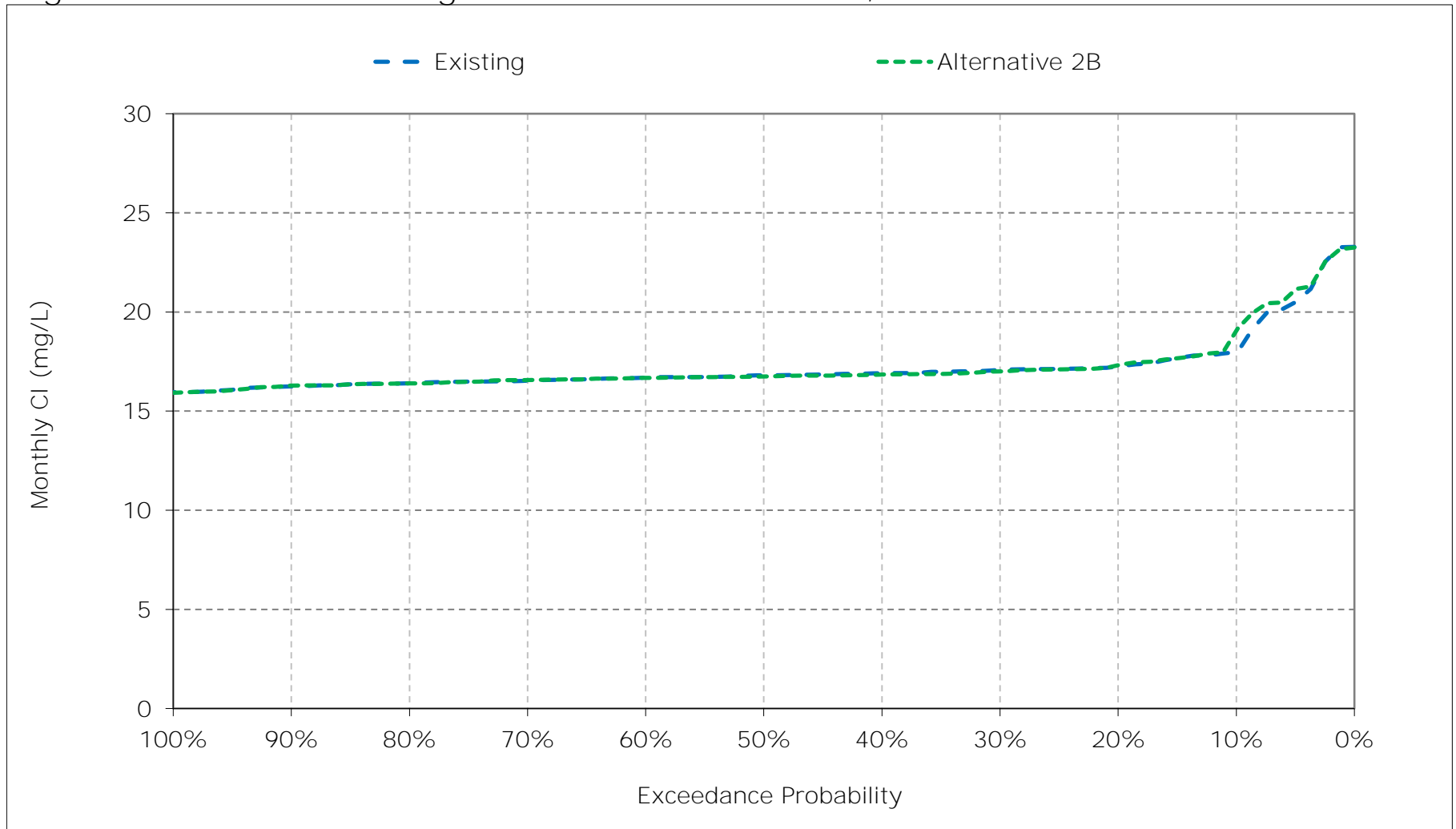


Figure 13-13. Barker Slough at NBA Intake Chloride, July CI

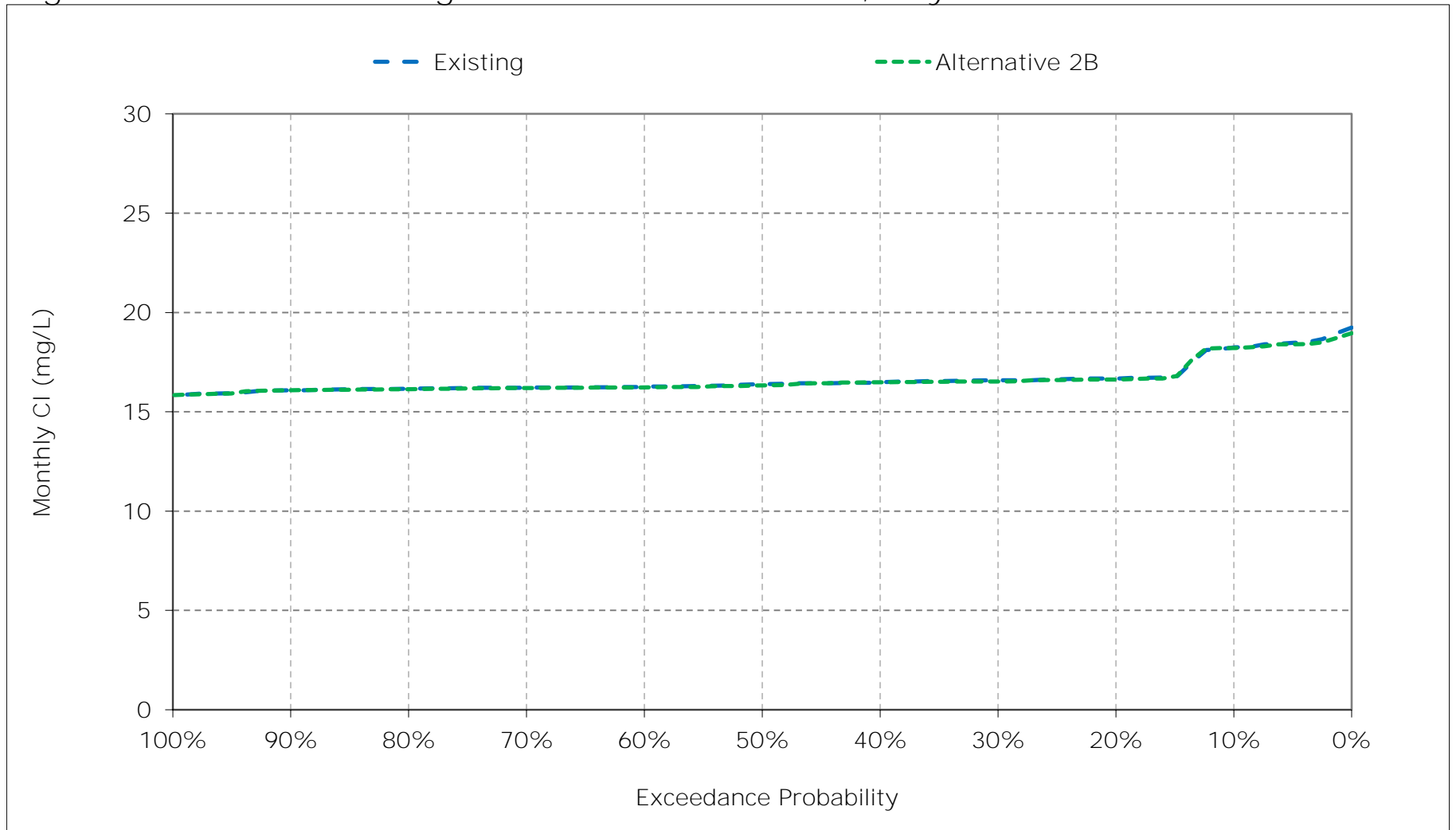




Figure 13-14. Barker Slough at NBA Intake Chloride, August CI

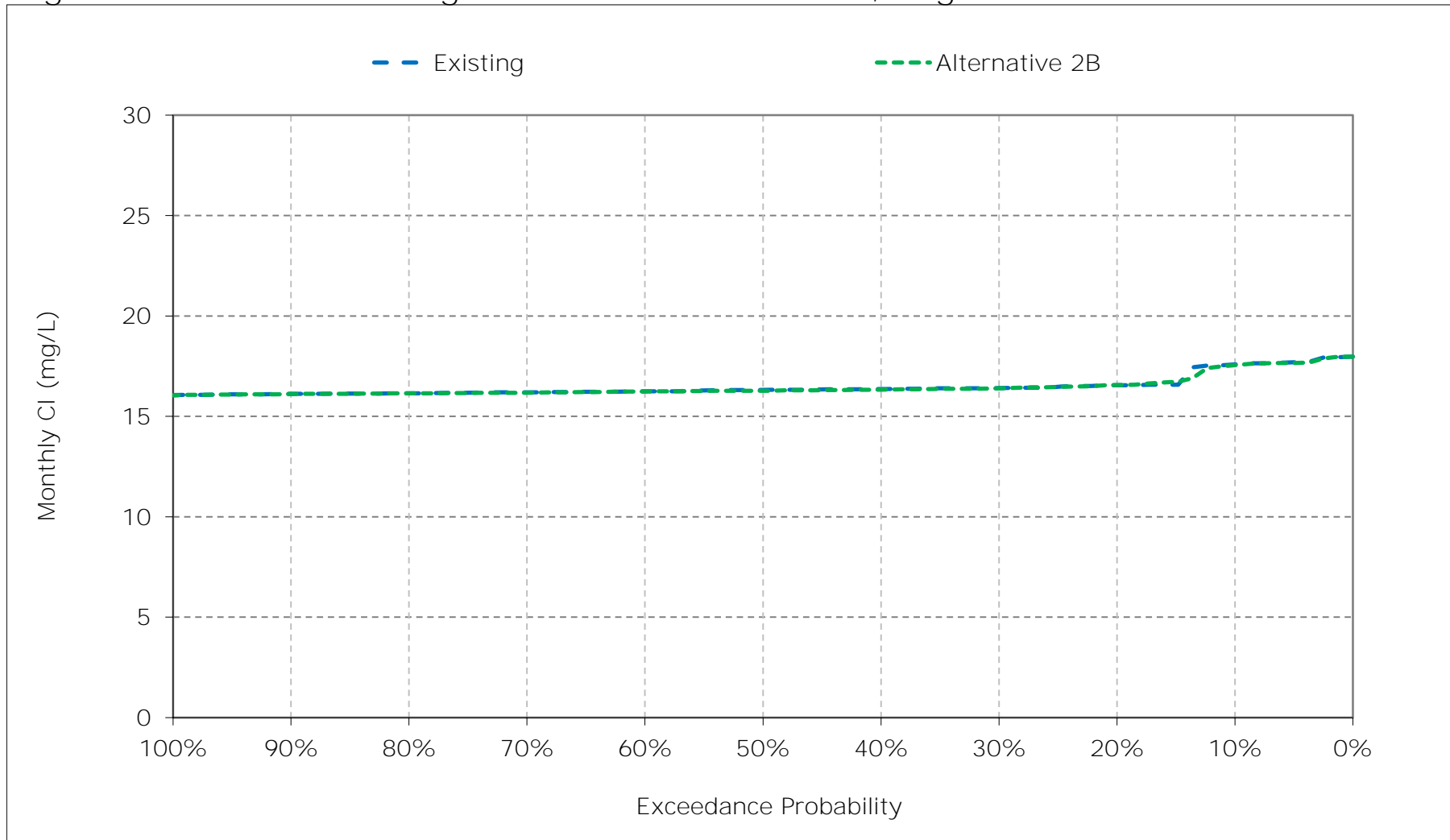


Figure 13-15. Barker Slough at NBA Intake Chloride, September CI

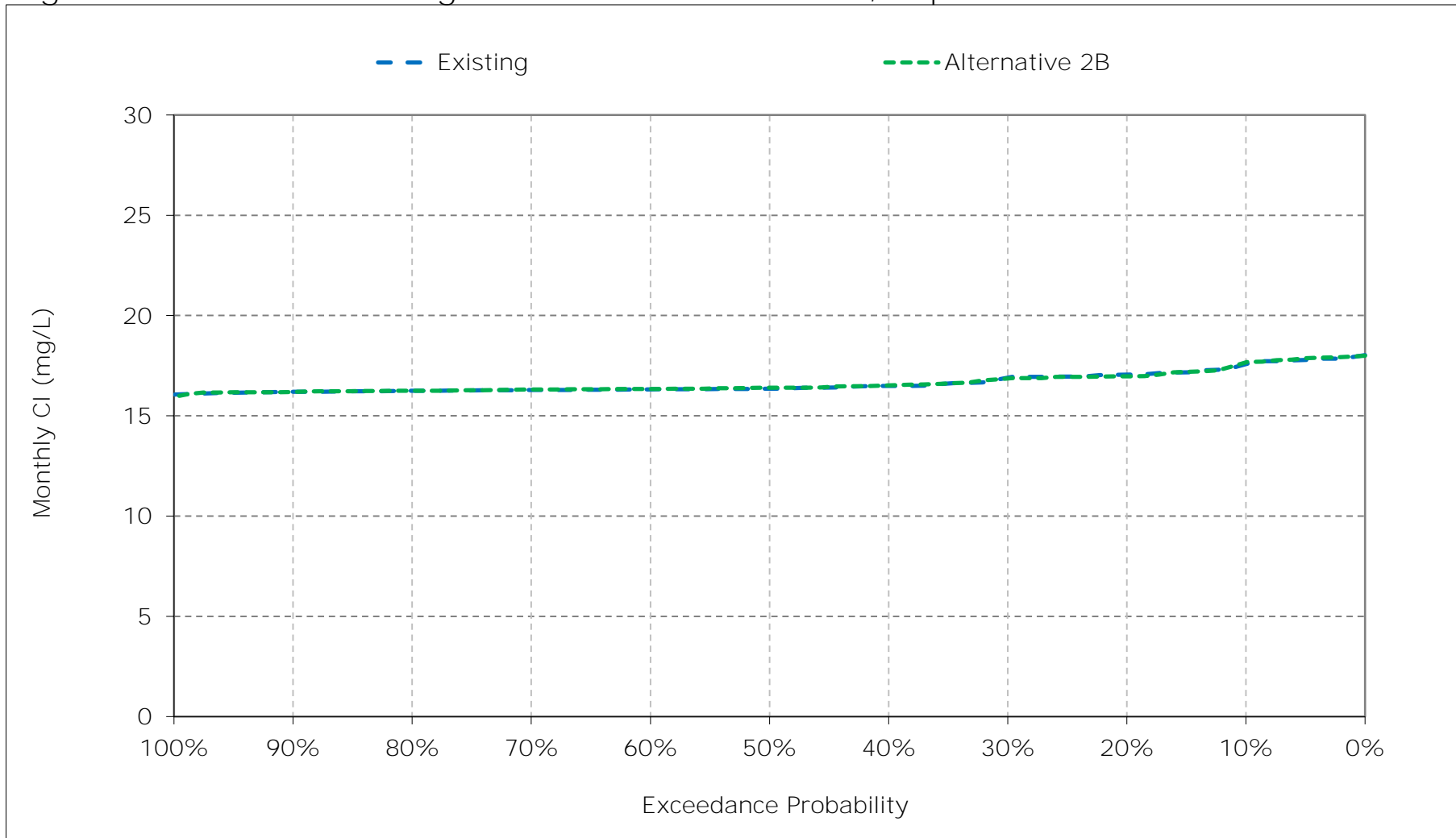


Figure 13-16. Barker Slough at NBA Intake Chloride, October CI

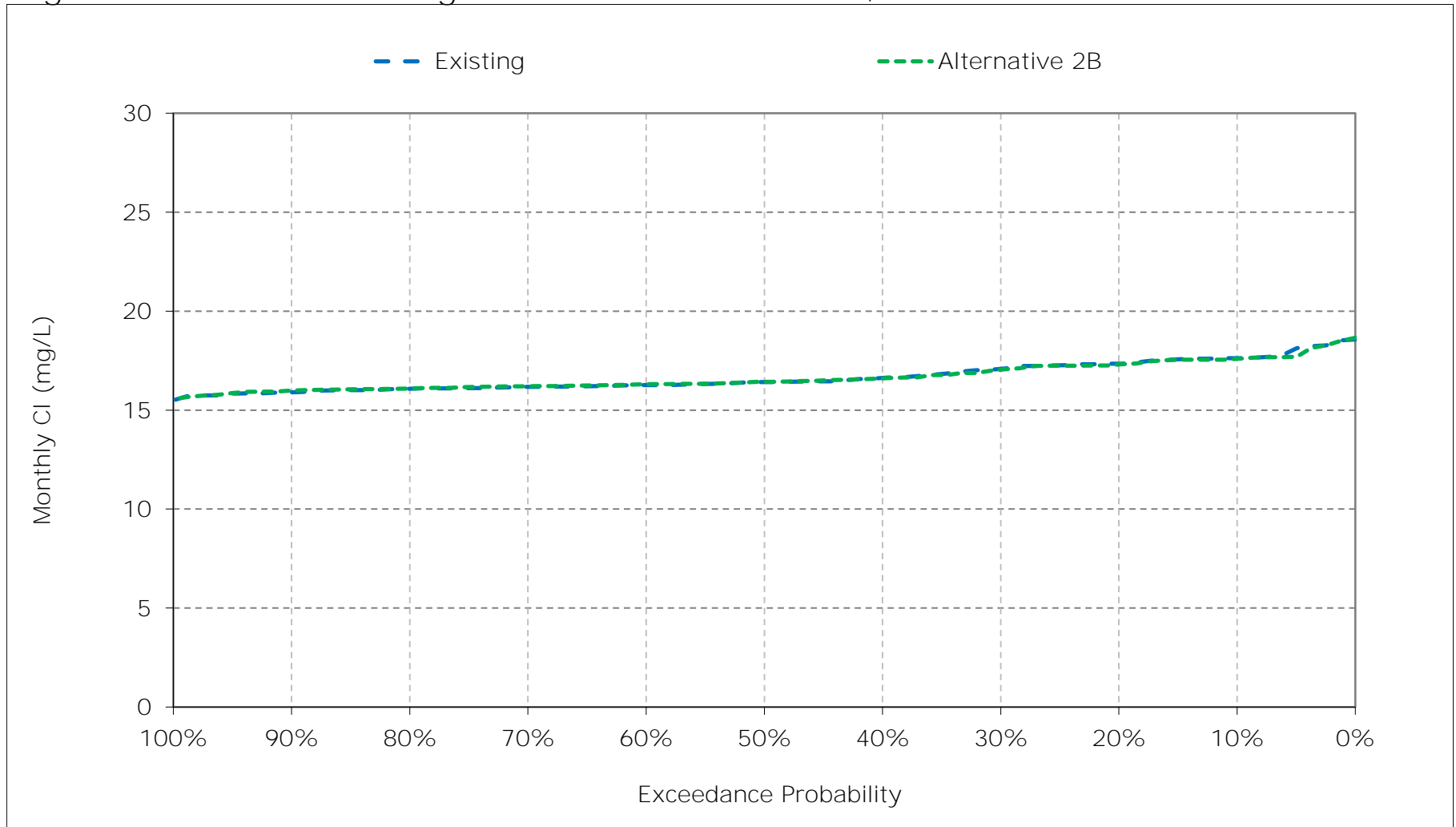


Figure 13-17. Barker Slough at NBA Intake Chloride, November CI

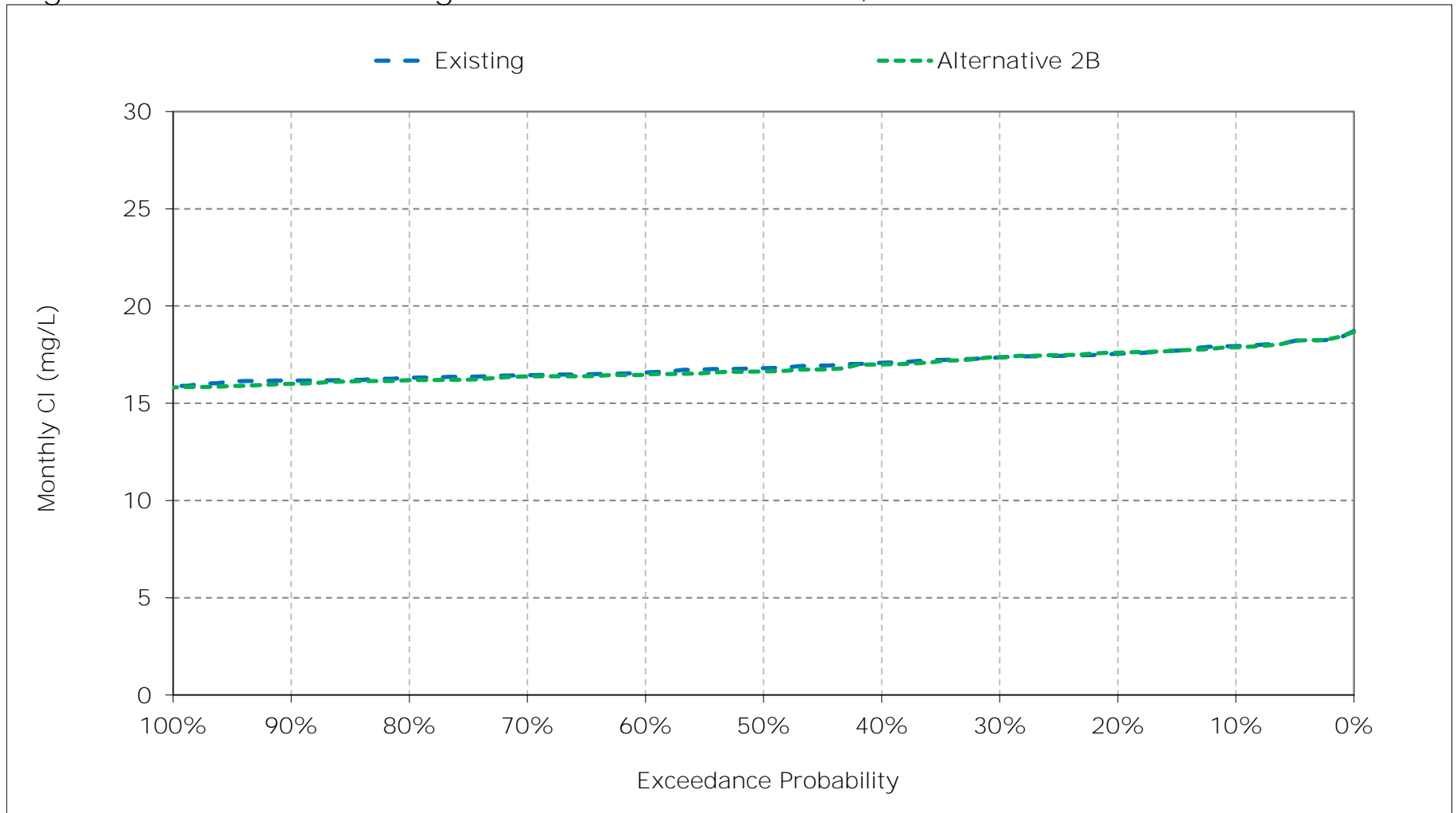
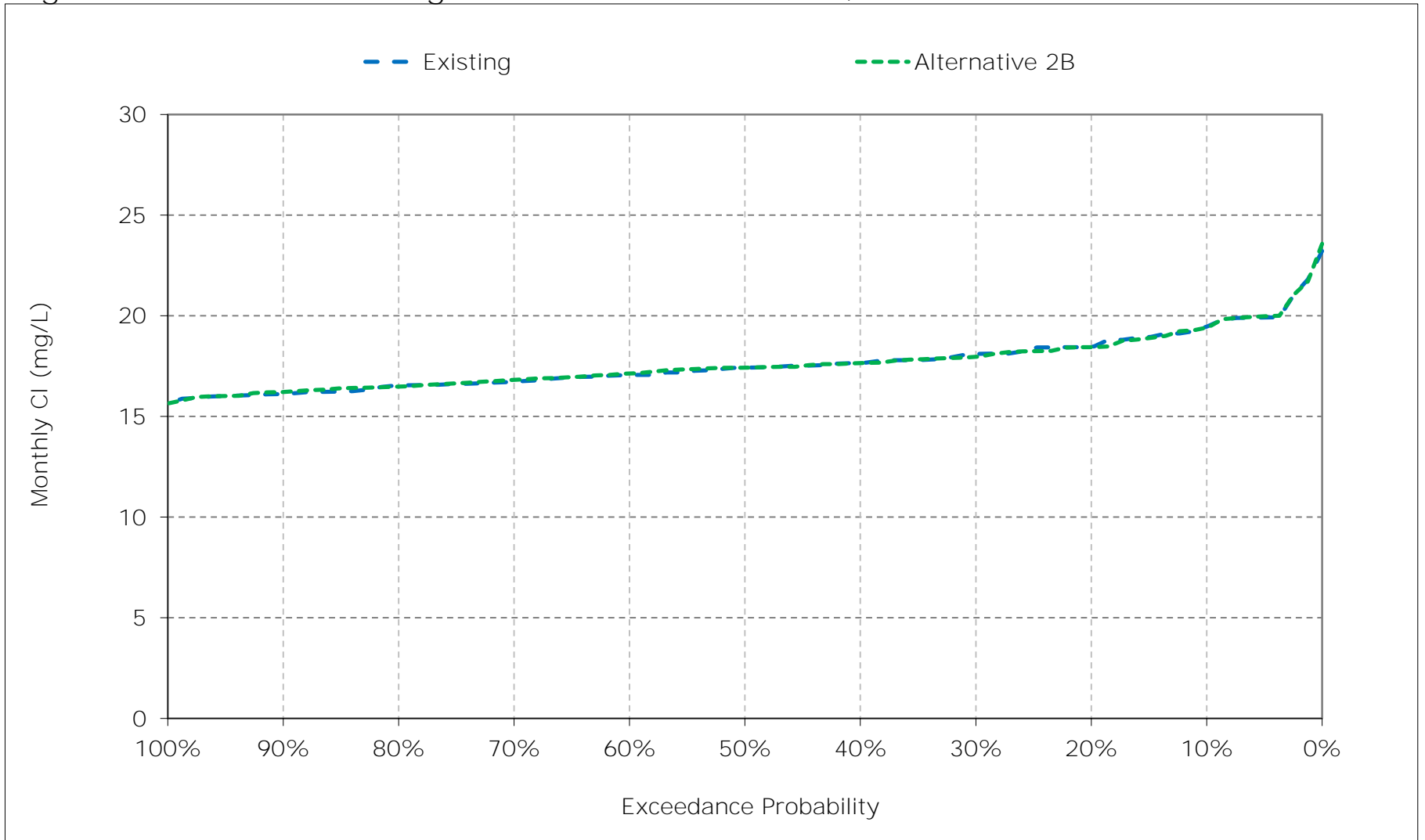


Figure 13-18. Barker Slough at NBA Intake Chloride, December CI



## Appendix C – Modeling

### Attachment 3-9 – D1641 Compliance Results (DSM2-QUAL)

***NOTE: Attachment 3-9 is a new attachment that has been added to the DEIR since initial publication, as part of the FEIR process. The additional attachment is not shown in underline for ease of reading.***

The following results of the DSM2-QUAL model are included for Delta compliance conditions for the following alternatives:

- Existing Conditions
- Refined Alternative 2b

<b>Title</b>	<b>Model Parameter</b>	<b>Table Numbers</b>	<b>Figure Numbers</b>
D1641 AG West Canal at mouth of Clifton Court Forebay	CHWST000	NA	1-1
D1641 AG South Fork Mokelumne River at Terminus	RSMKL008	NA	2-1
D1641 AG Sacramento River at Emmaton	RSAC092	NA	3-1
D1641 AG San Joaquin River at Jersey Point	RSAN018	NA	4-1
D1641 AG San Joaquin River at San Andreas Landing	RSAN032	NA	5-1
D1641 AG Delta-Mendota Canal at Tracy Pumping Plant	CHDMC004	NA	6-1
D1641 FWS Chadbourne Slough at Sunrise Duck Club	SLCBN002	NA	7-1
D1641 FWS Montezuma Slough near Beldon Landing	SLMZU011	NA	8-1
D1641 FWS Montezuma Slough at National Steel	SLMZU025	NA	9-1
D1641 FWS Sacramento River at Collinsville	RSAC081	NA	10-1
D1641 FWS San Joaquin River at Jersey Point	RSAN018	NA	11-1
D1641 FWS San Joaquin River at Prisoners Point	RSAN037	NA	12-1
D1641 FWS Suisun Slough 300 ft south of Volanti Slough	SLSUS012	NA	13-1
D1641 MI Cache Slough at City of Vallejo Intake	SLCCH016	NA	14-1
D1641 MI West Canal at mouth of Clifton Court Forebay	CHWST000	NA	15-1
D1641 MI Contra Costa Canal at Pumping Plant #1	ROLD024	NA	16-1
D1641 MI Delta-Mendota Canal at Tracy Pumping Plant	CHDMC004	NA	17-1
D1641 MI Barker Slough at North Bay Aqueduct Intake	SLBAR002	NA	18-1

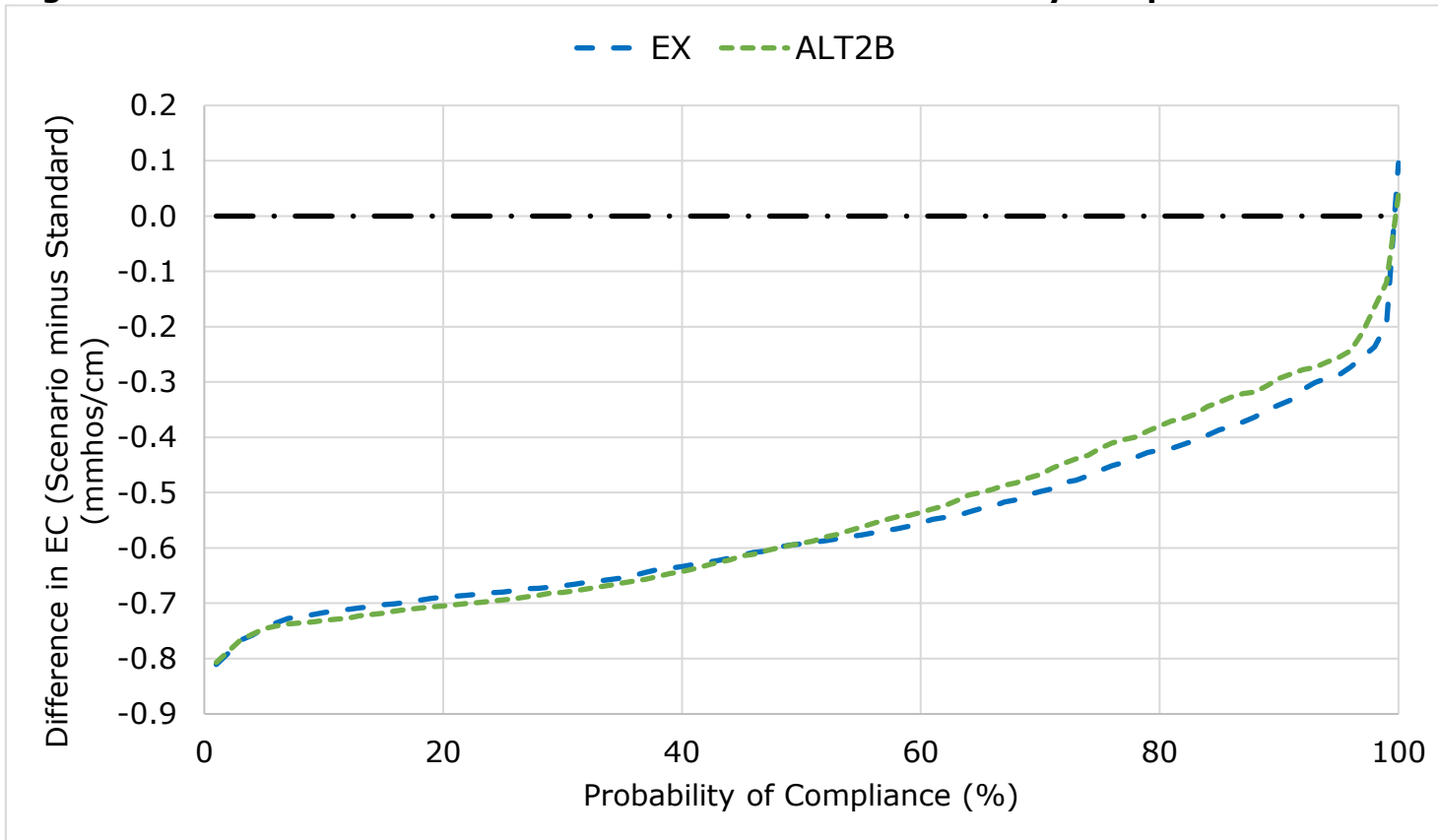
D1641 AG Old River at Tracy Road Bridge	ROLD059	NA	19-1
D1641 AG Old River near Middle River	OLDR	NA	20-1
D1641 AG San Joaquin River at Airport Way Bridge Vernalis	RSAN112	NA	21-1
D1641 AG San Joaquin River at Brandt Bridge Site	RSAN072	NA	22-1
D1641 MI Contra Costa Canal at Pumping Plant #1	ROLD024	NA	23-1
D1641 MI San Joaquin River at Antioch Water Works	RSAN007	NA	24-1

Report formats

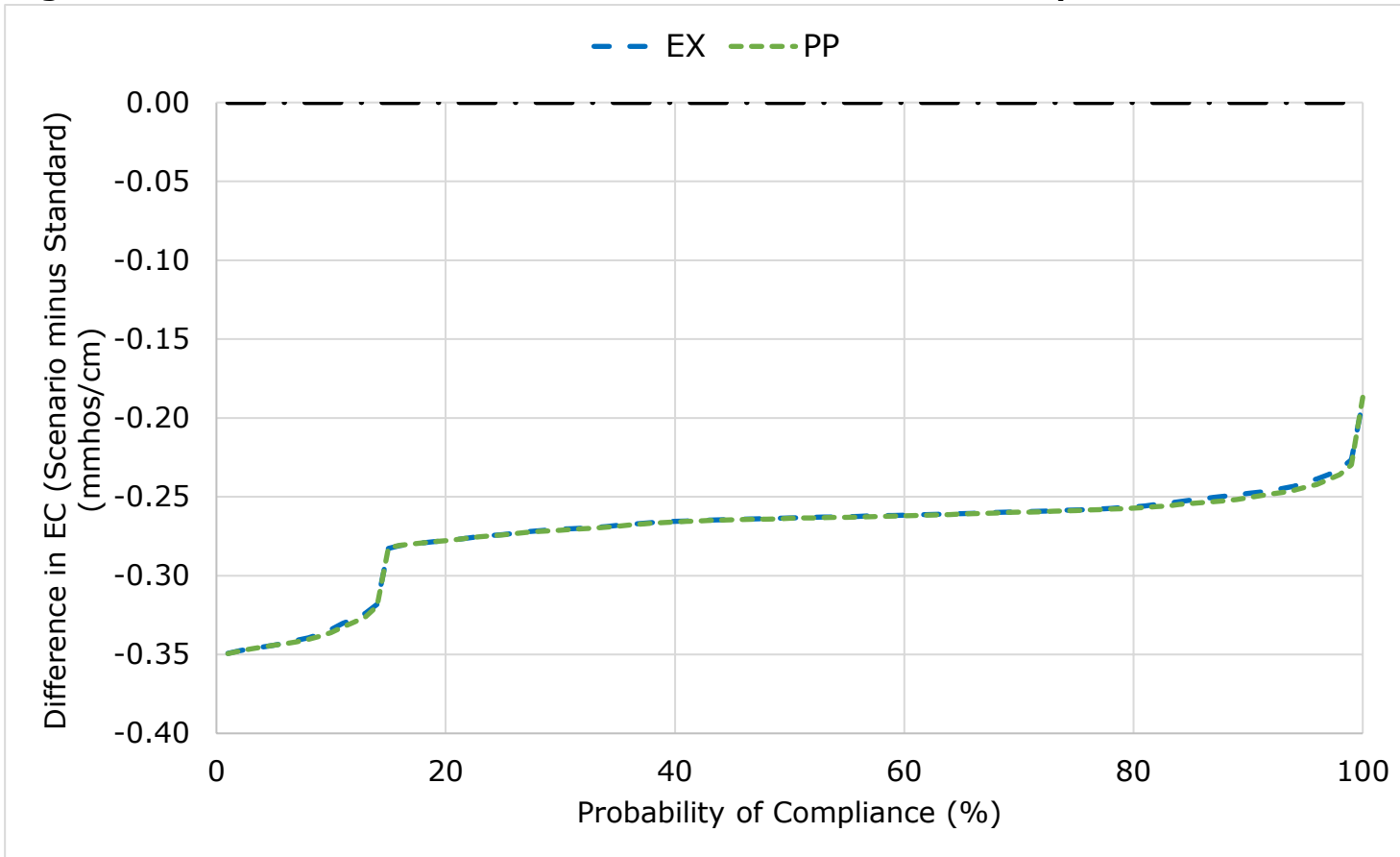
- Compliance exceedance charts including all scenarios



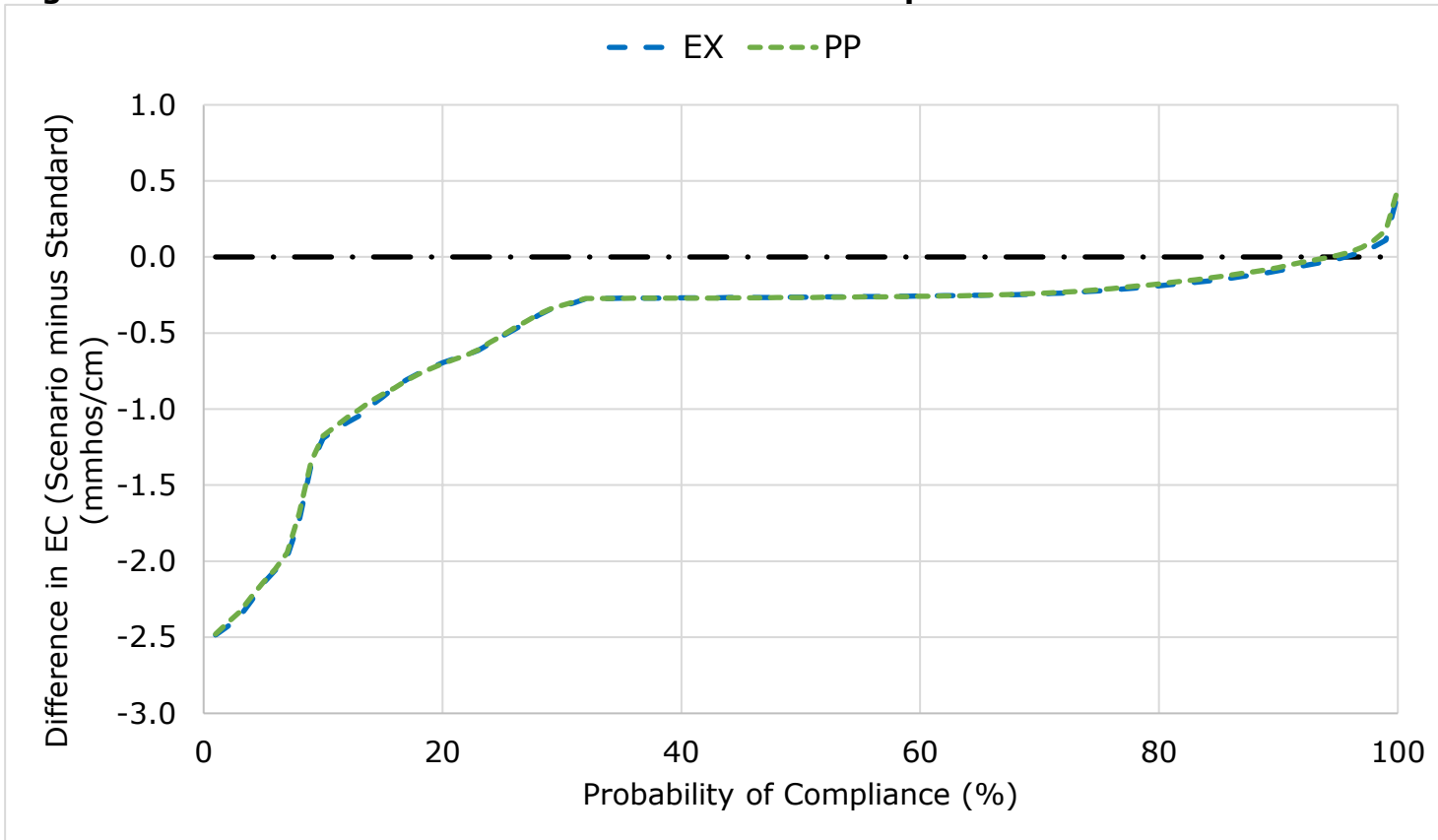
**Figure 1 D1641 AG West Canal at mouth of Clifton Court Forebay Compliance Exceedance Plot**



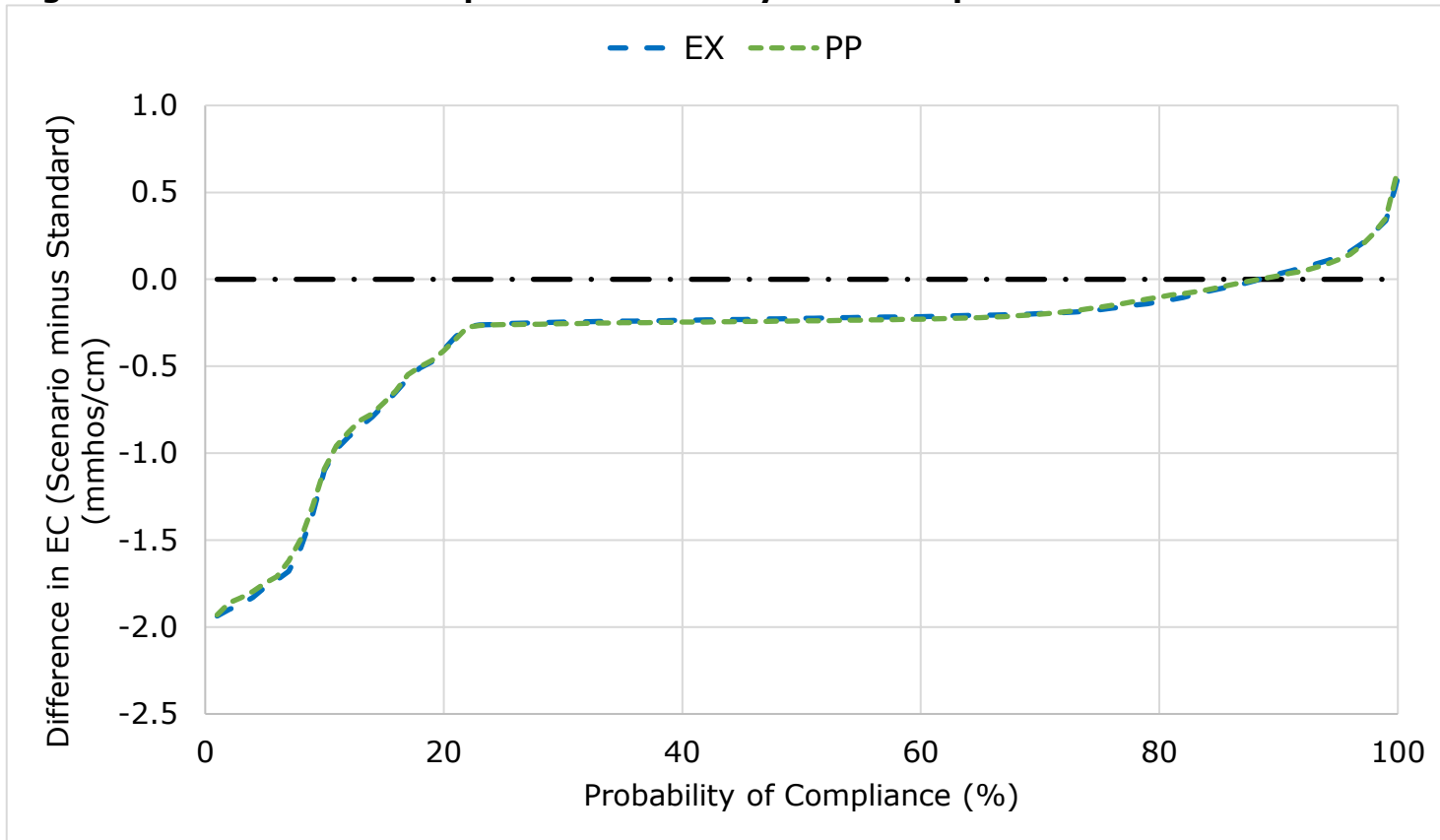
**Figure 2 D1641 AG South Fork Mokelumne River at Terminus Compliance Exceedance Plot**



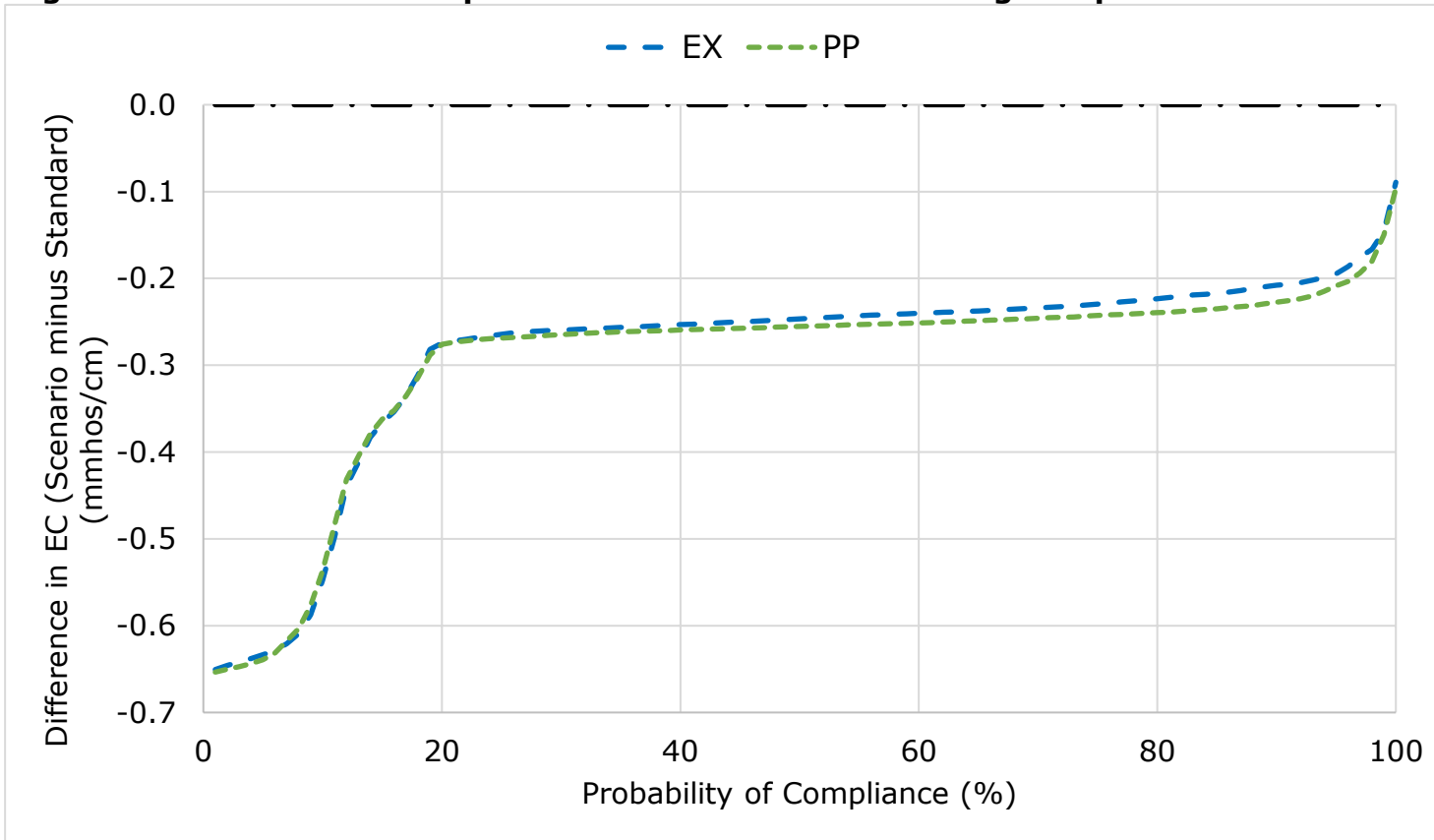
**Figure 3 D1641 AG Sacramento River at Emmaton Compliance Exceedance Plot**



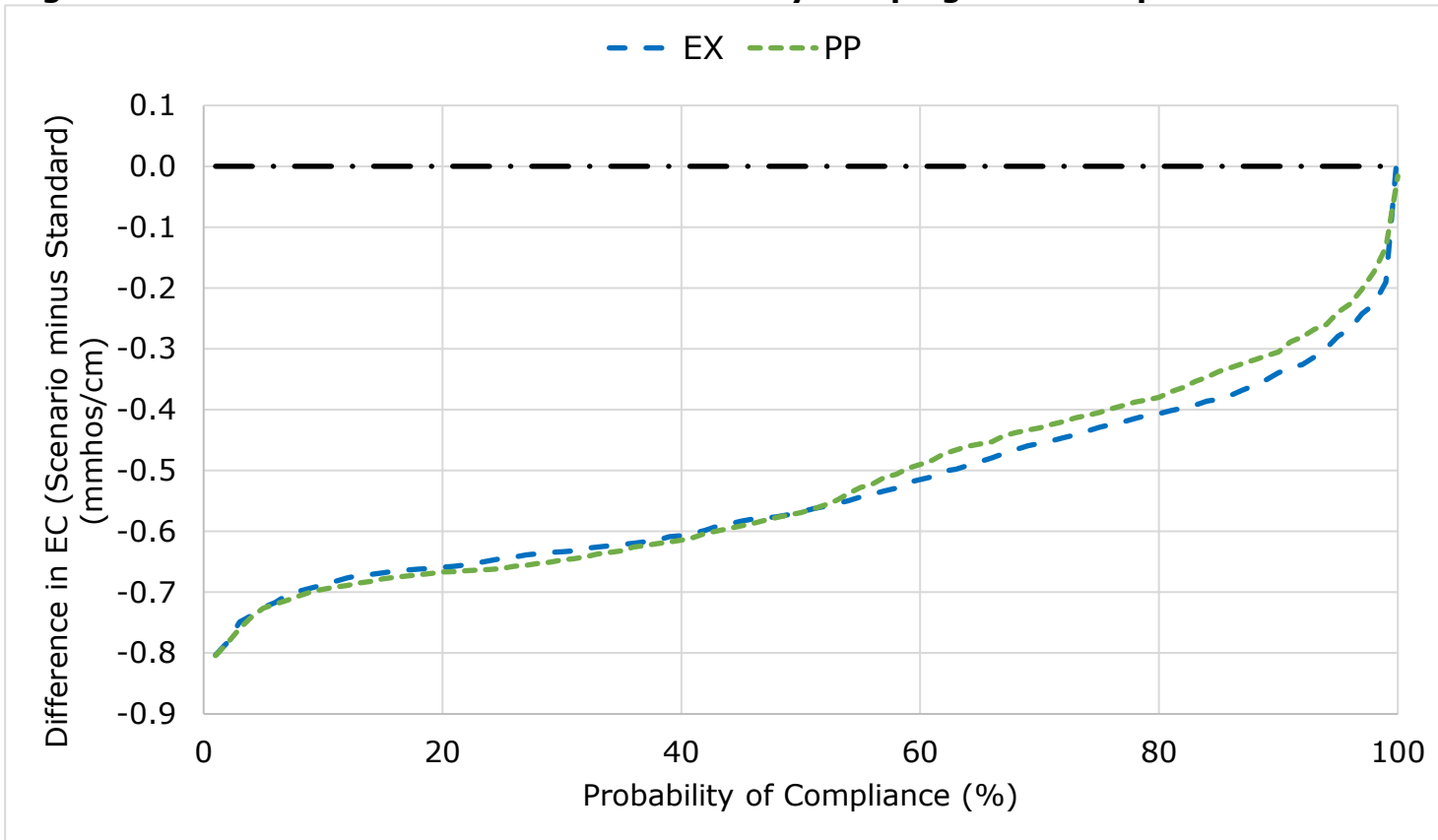
**Figure 4 D1641 AG San Joaquin River at Jersey Point Compliance Exceedance Plot**



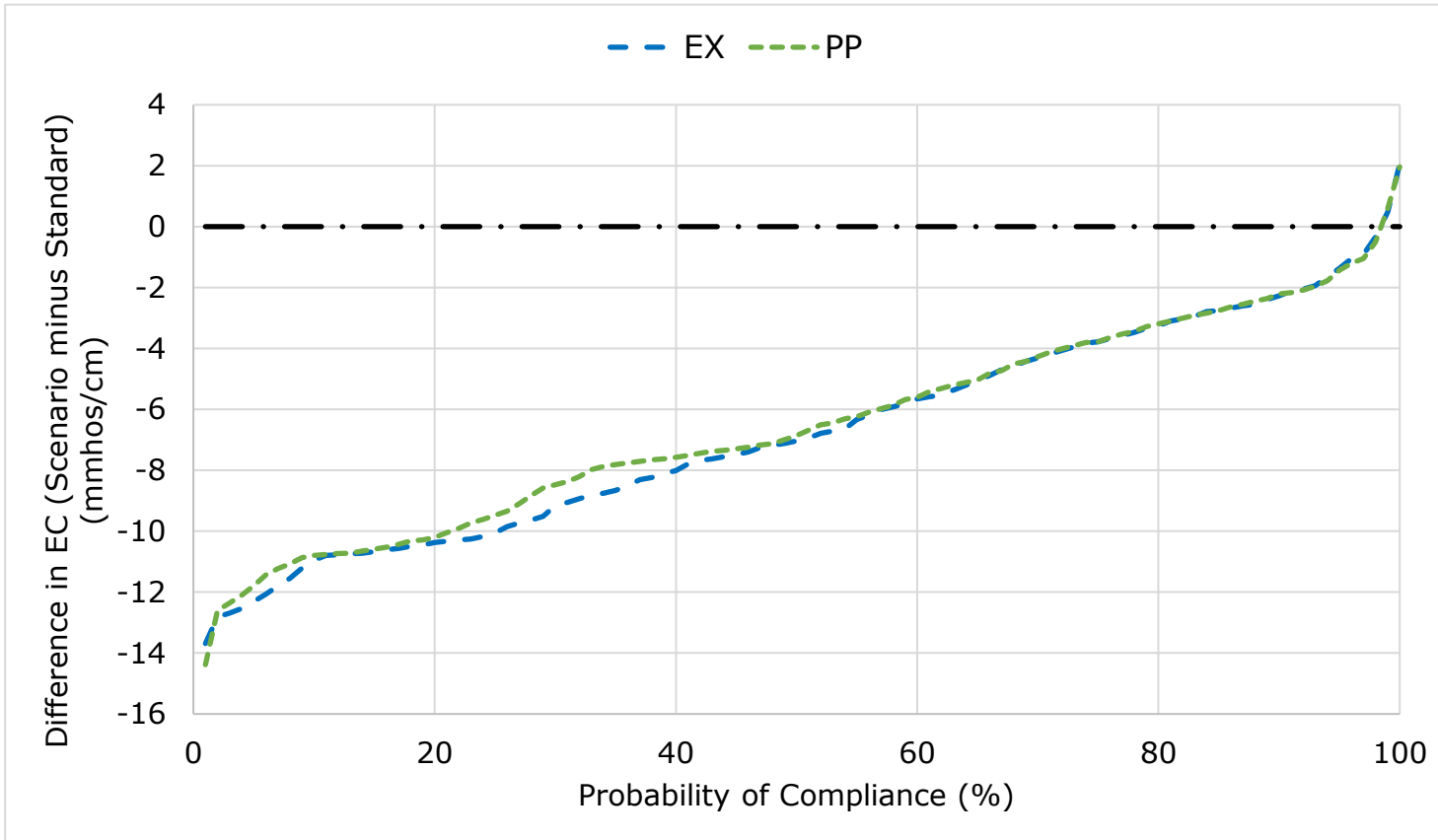
**Figure 5 D1641 AG San Joaquin River at San Andreas Landing Compliance Exceedance Plot**



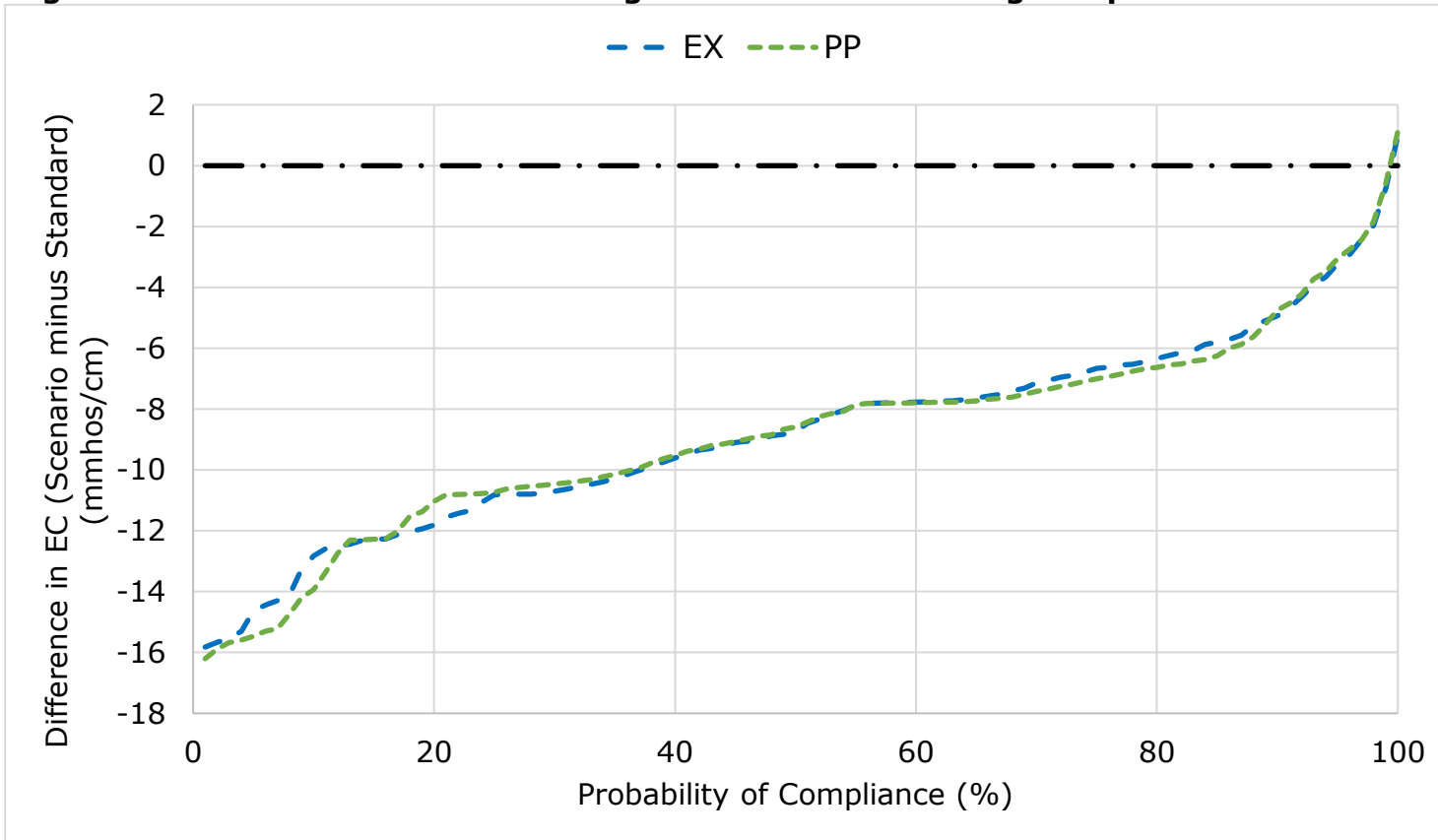
**Figure 6 D1641 AG Delta-Mendota Canal at Tracy Pumping Plant Compliance Exceedance Plot**



**Figure 7 D1641 FWS Chadbourne Slough at Sunrise Duck Club Compliance Exceedance Plot**

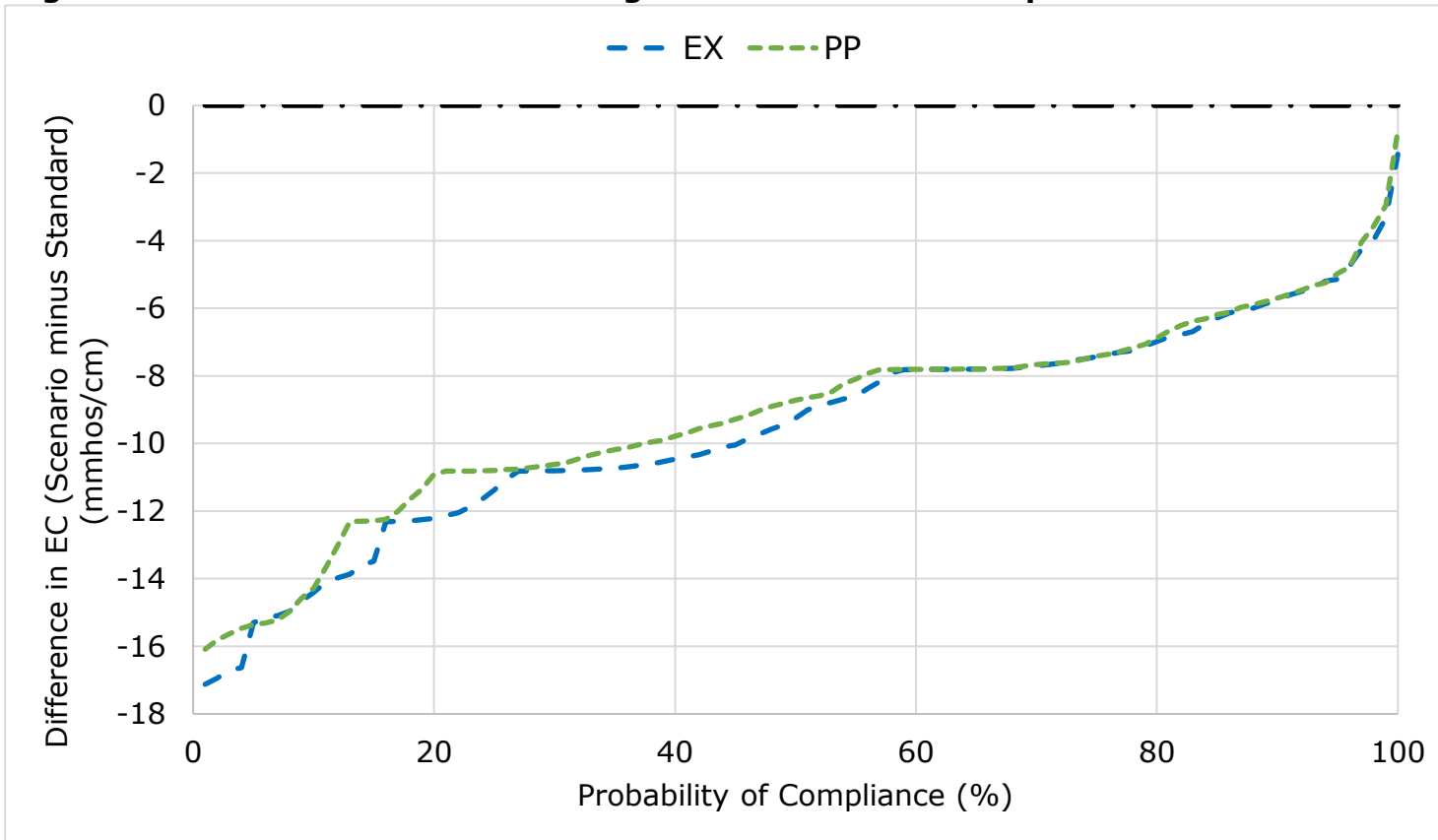


**Figure 8 D1641 FWS Montezuma Slough near Beldons Landing Compliance Exceedance Plot**

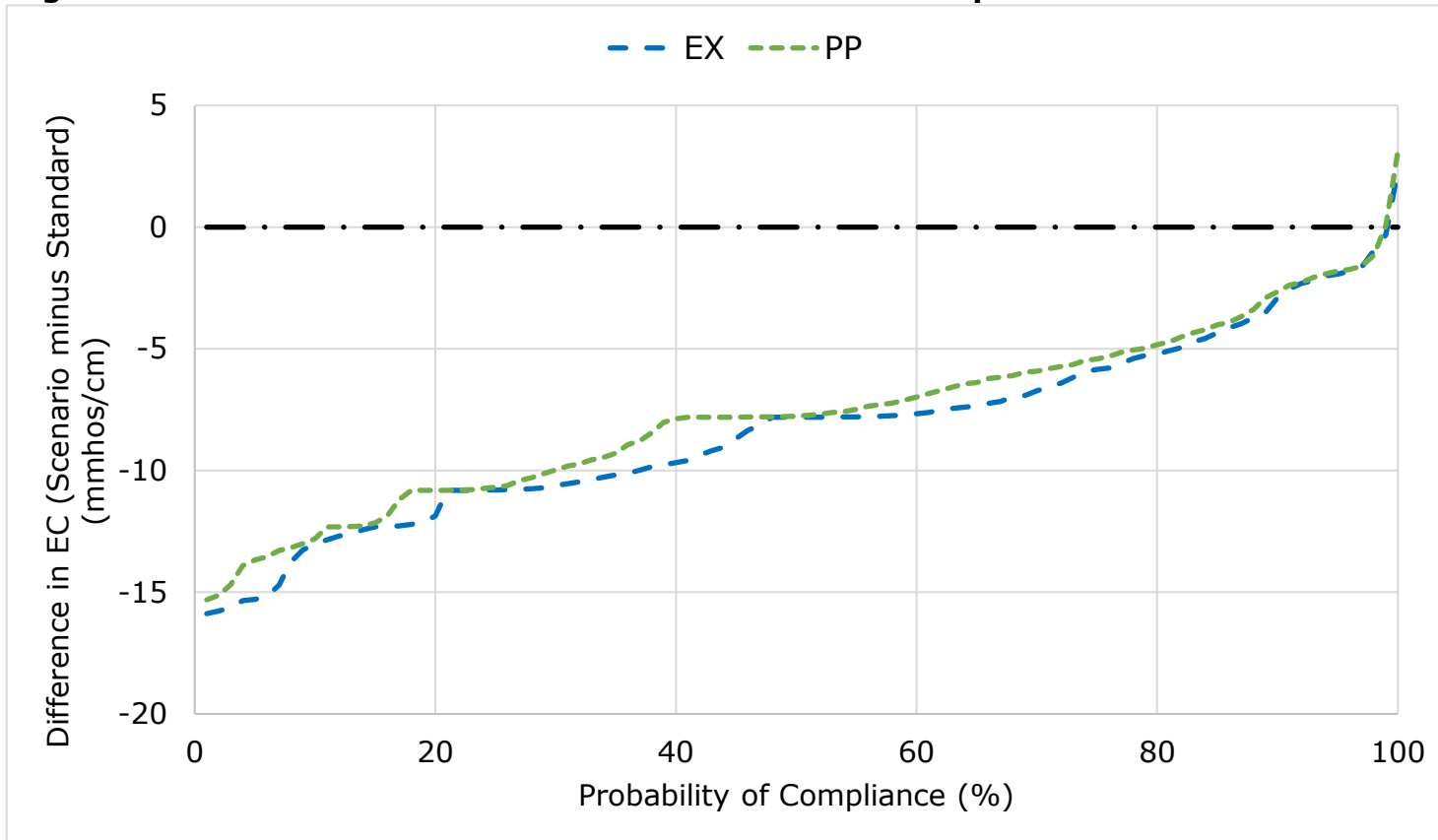




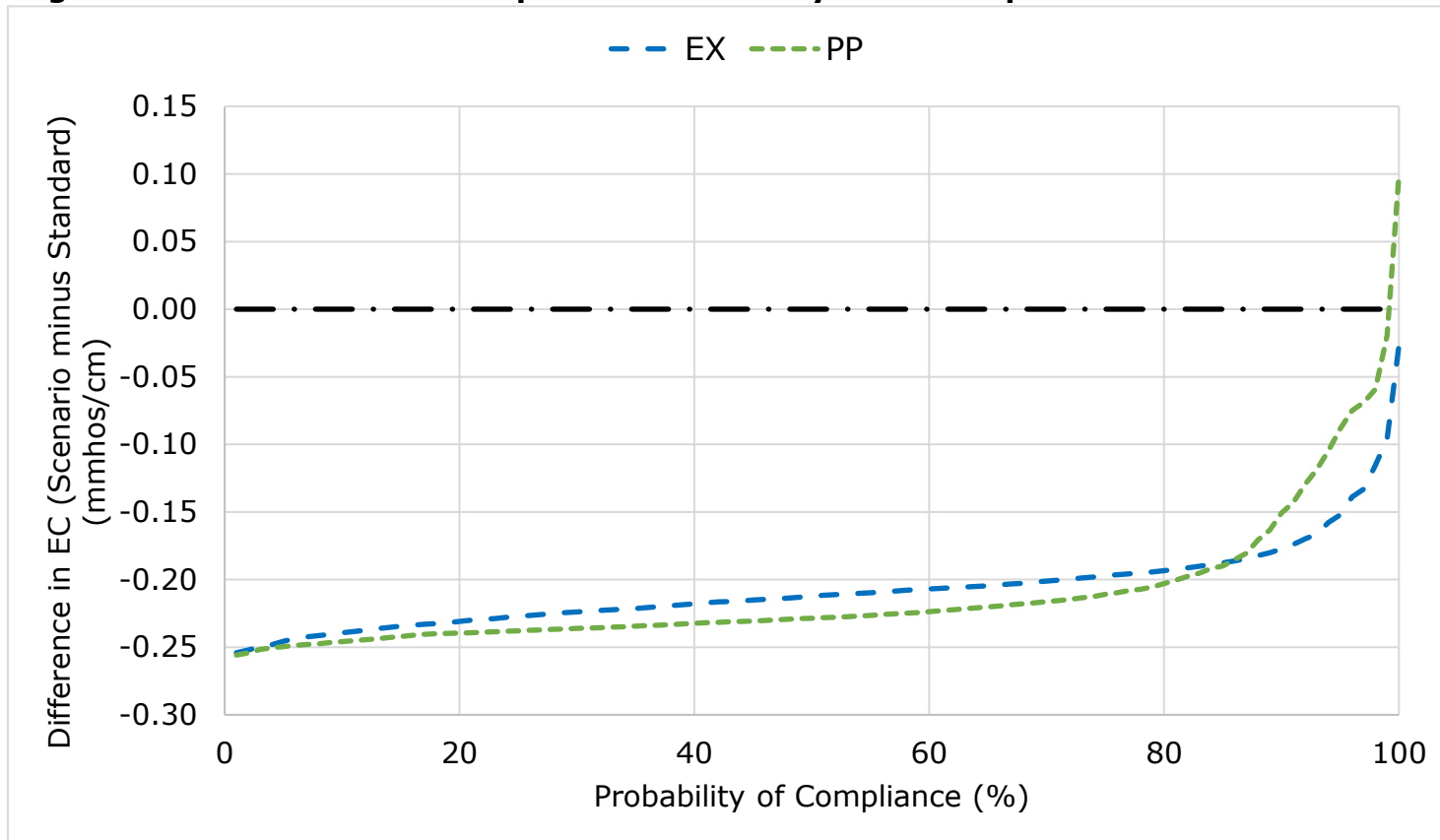
**Figure 9 D1641 FWS Montezuma Slough at National Steel Compliance Exceedance Plot**



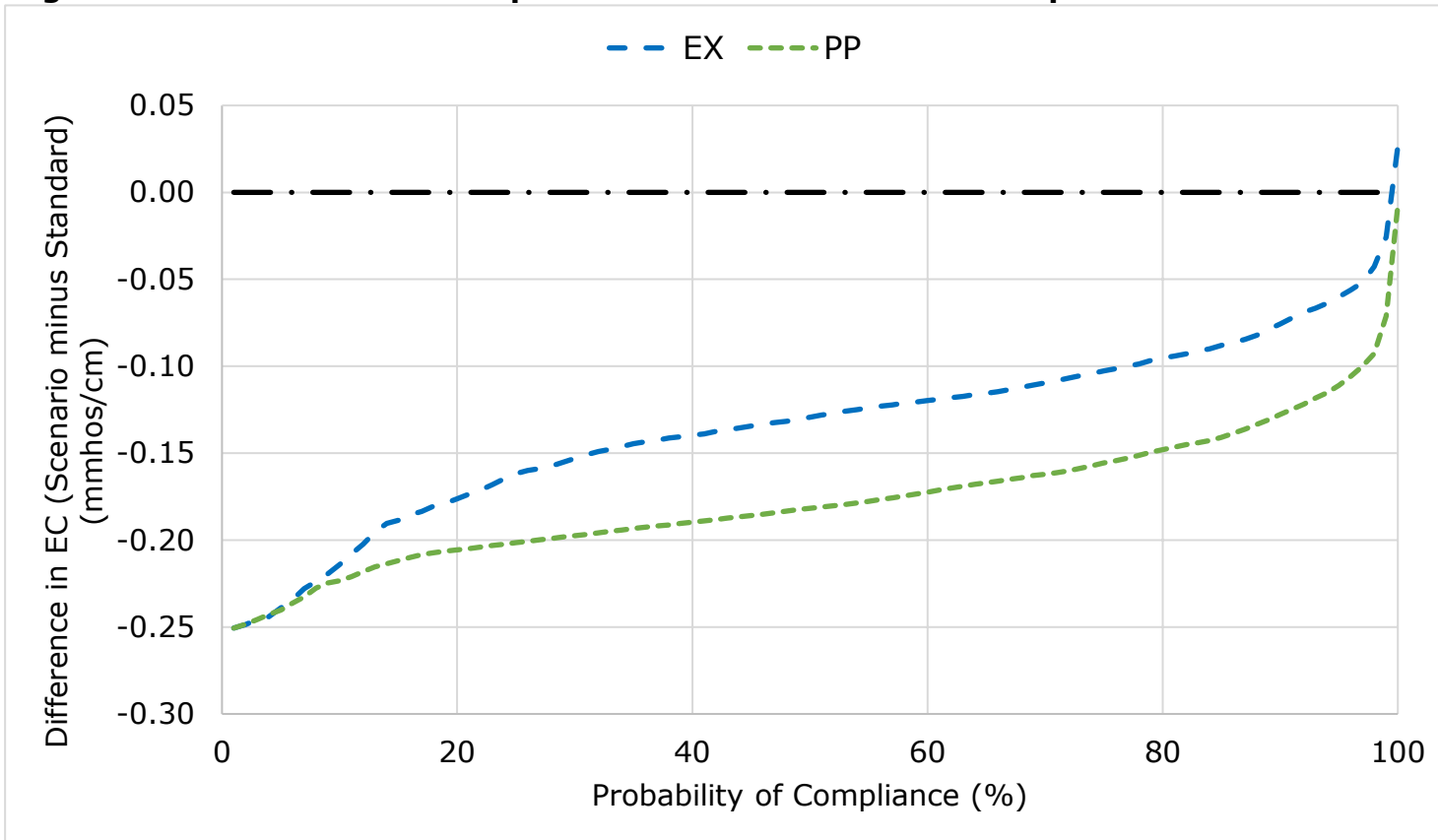
**Figure 10 D1641 FWS Sacramento River at Collinsville Compliance Exceedance Plot**



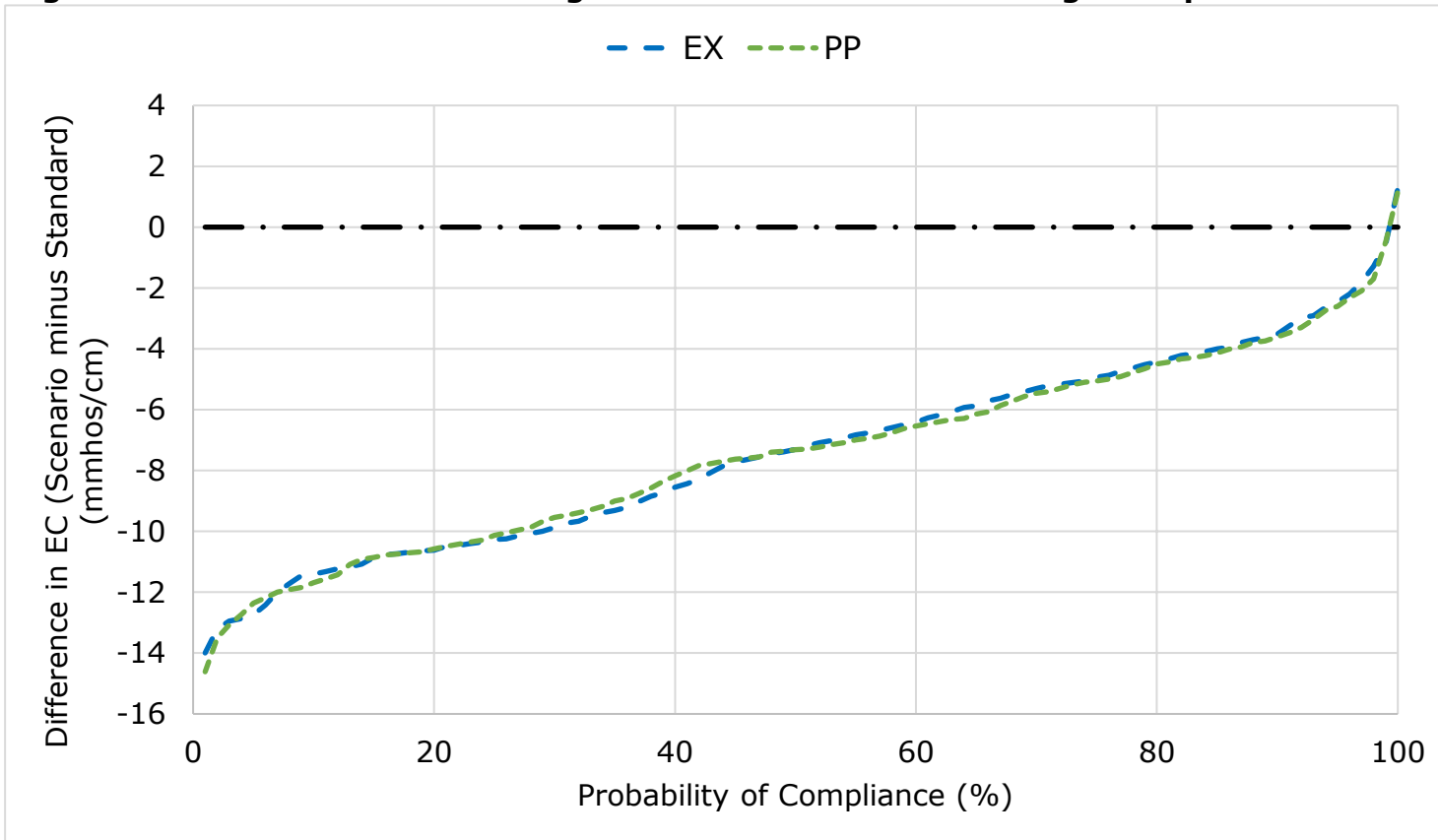
**Figure 11 D1641 FWS San Joaquin River at Jersey Point Compliance Exceedance Plot**



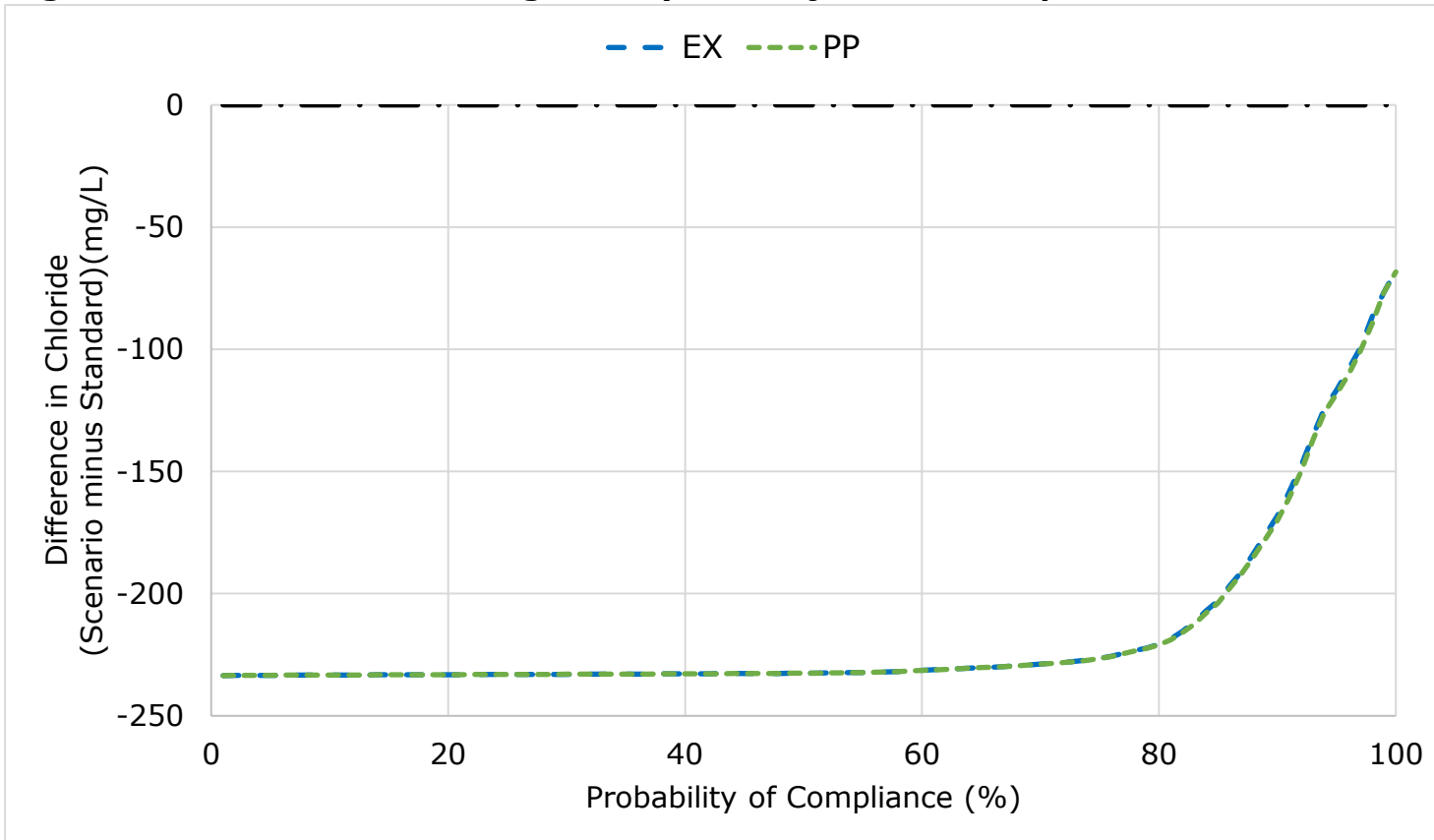
**Figure 12 D1641 FWS San Joaquin River at Prisoners Point Compliance Exceedance Plot**



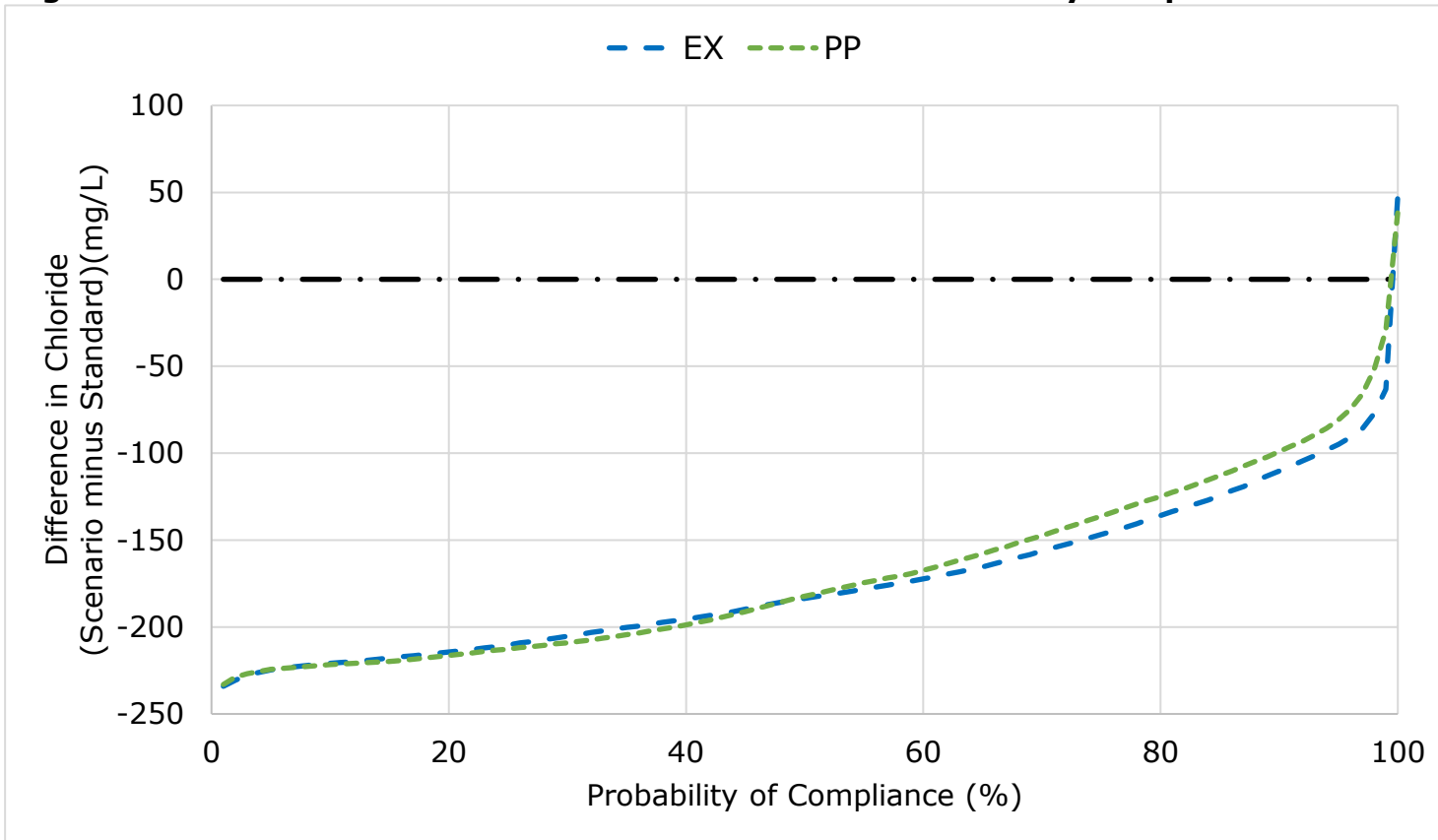
**Figure 13 D1641 FWS Suisun Slough 300 ft south of Volanti Slough Compliance Exceedance Plot**



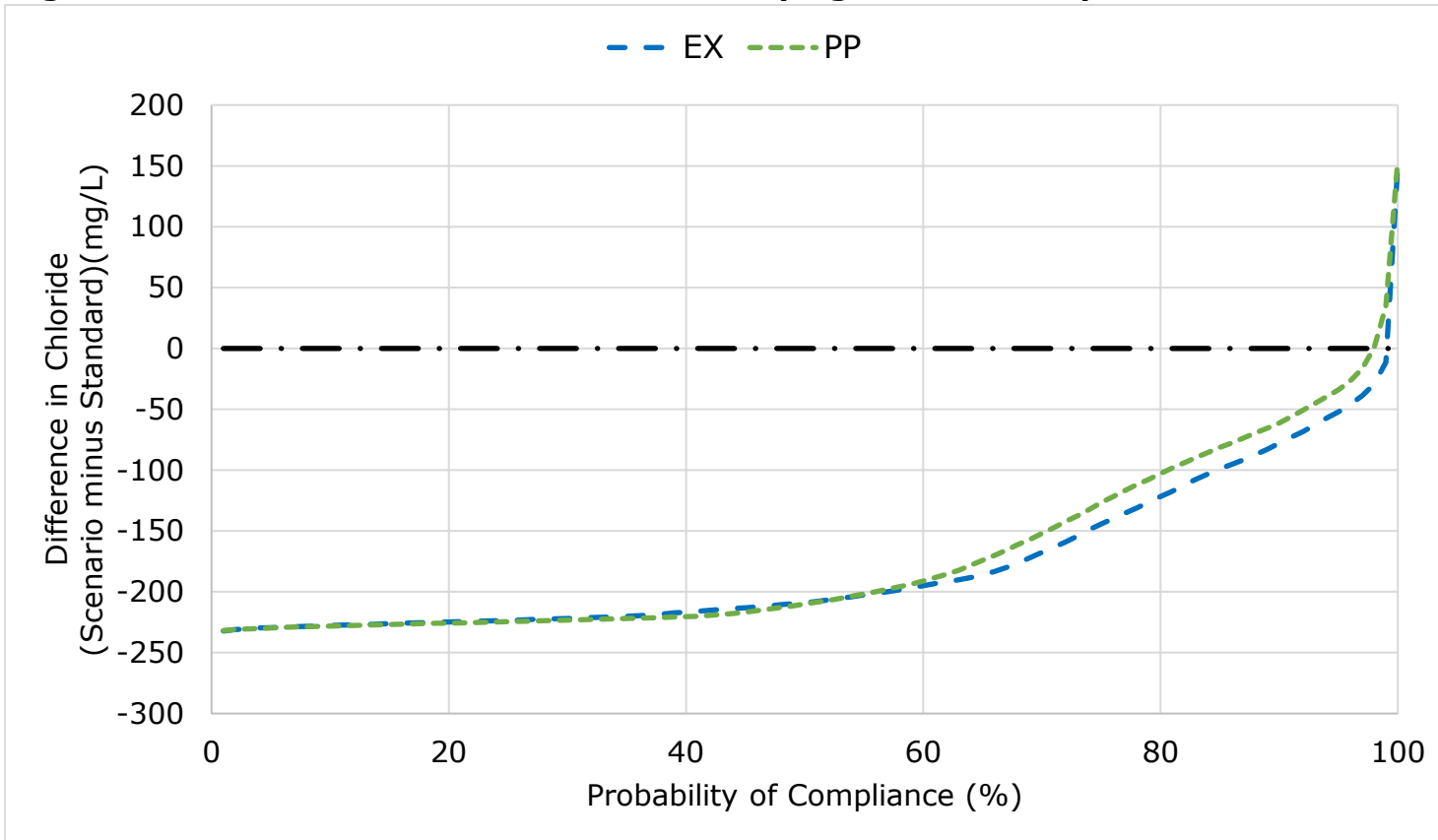
**Figure 14 D1641 MI Cache Slough at City of Vallejo Intake Compliance Exceedance Plot**



**Figure 15 D1641 MI West Canal at mouth of Clifton Court Forebay Compliance Exceedance Plot**

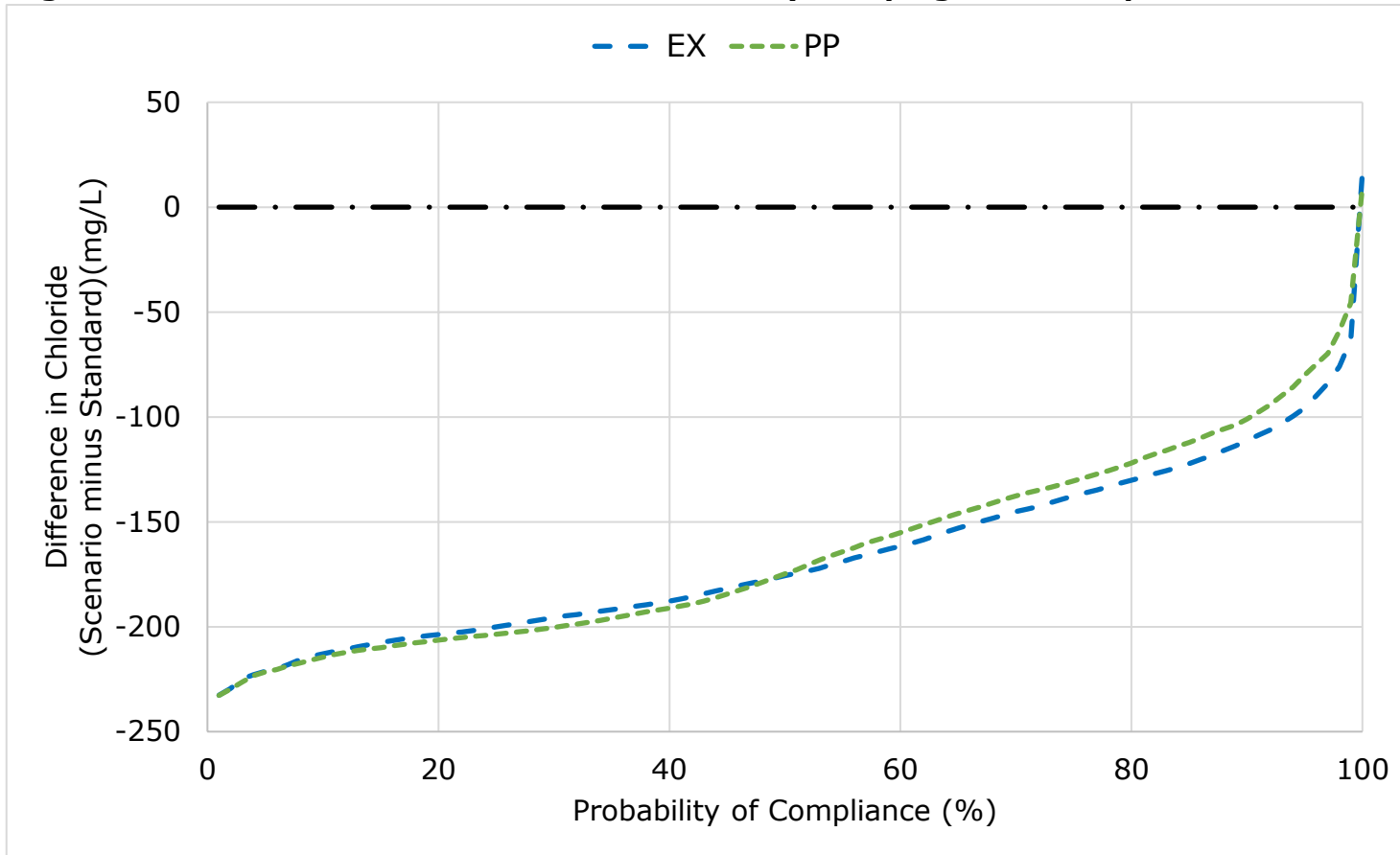


**Figure 16 D1641 MI Contra Costa Canal at Pumping Plant #1 Compliance Exceedance Plot**

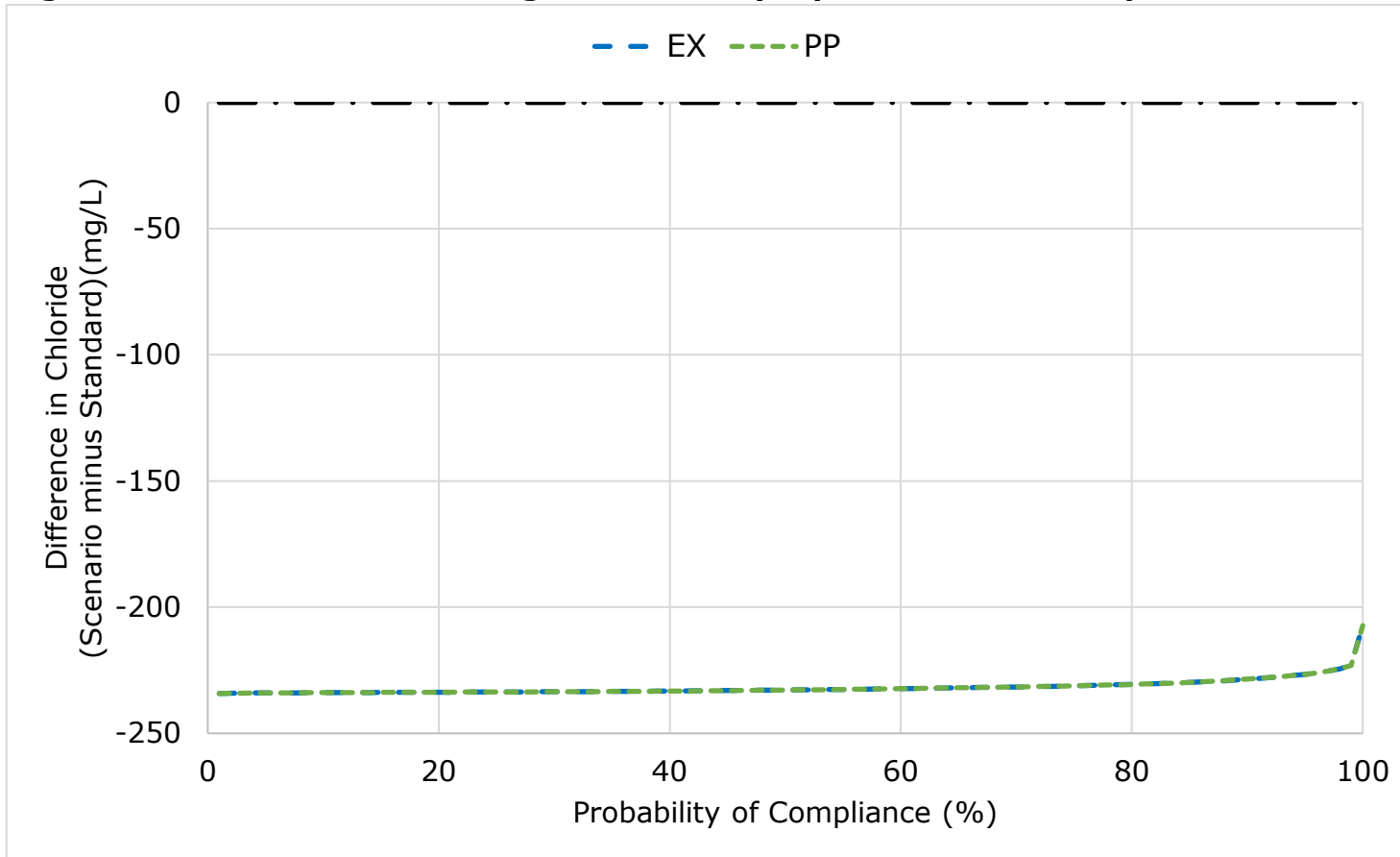




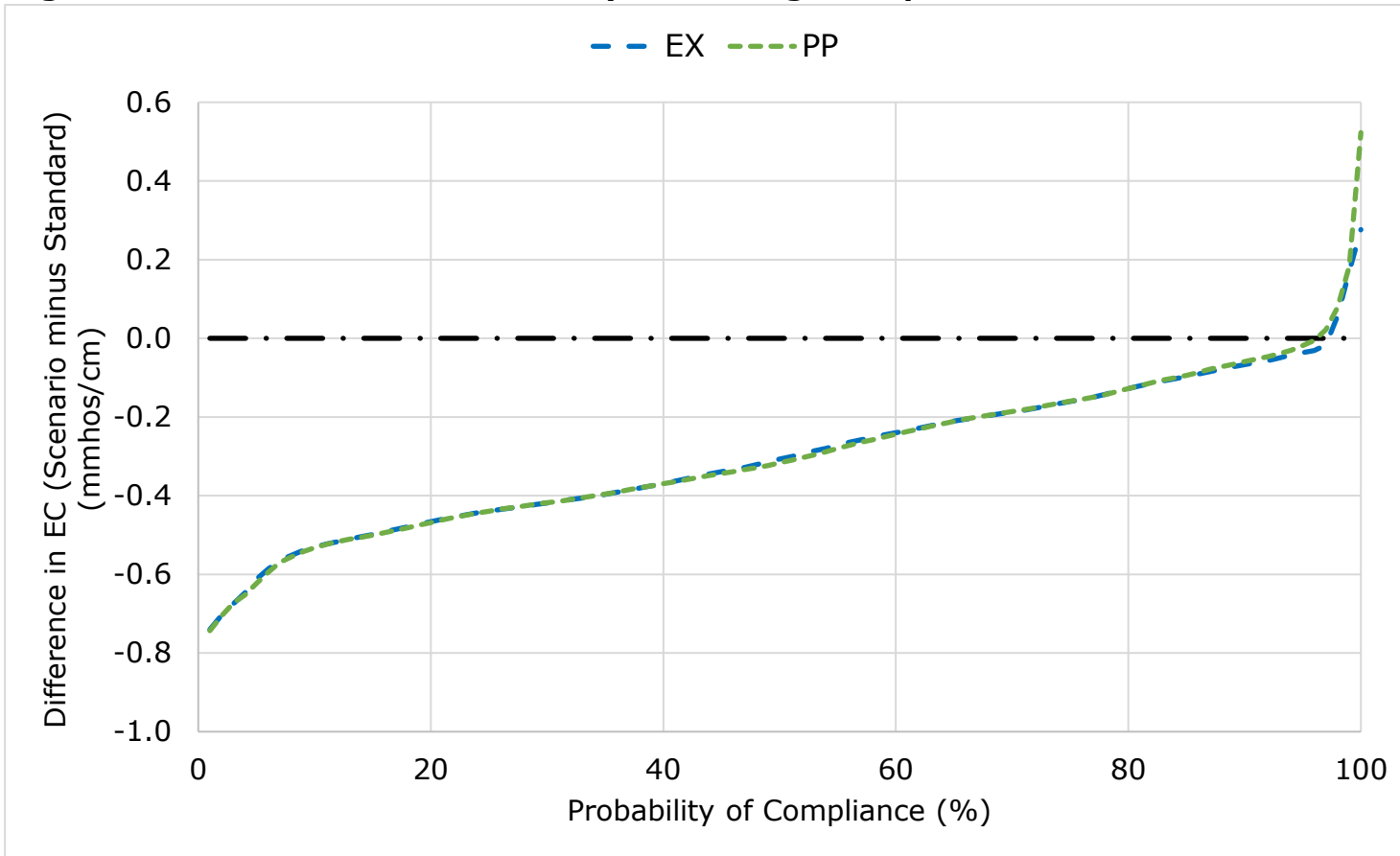
**Figure 17 D1641 MI Delta-Mendota Canal at Tracy Pumping Plant Compliance Exceedance Plot**



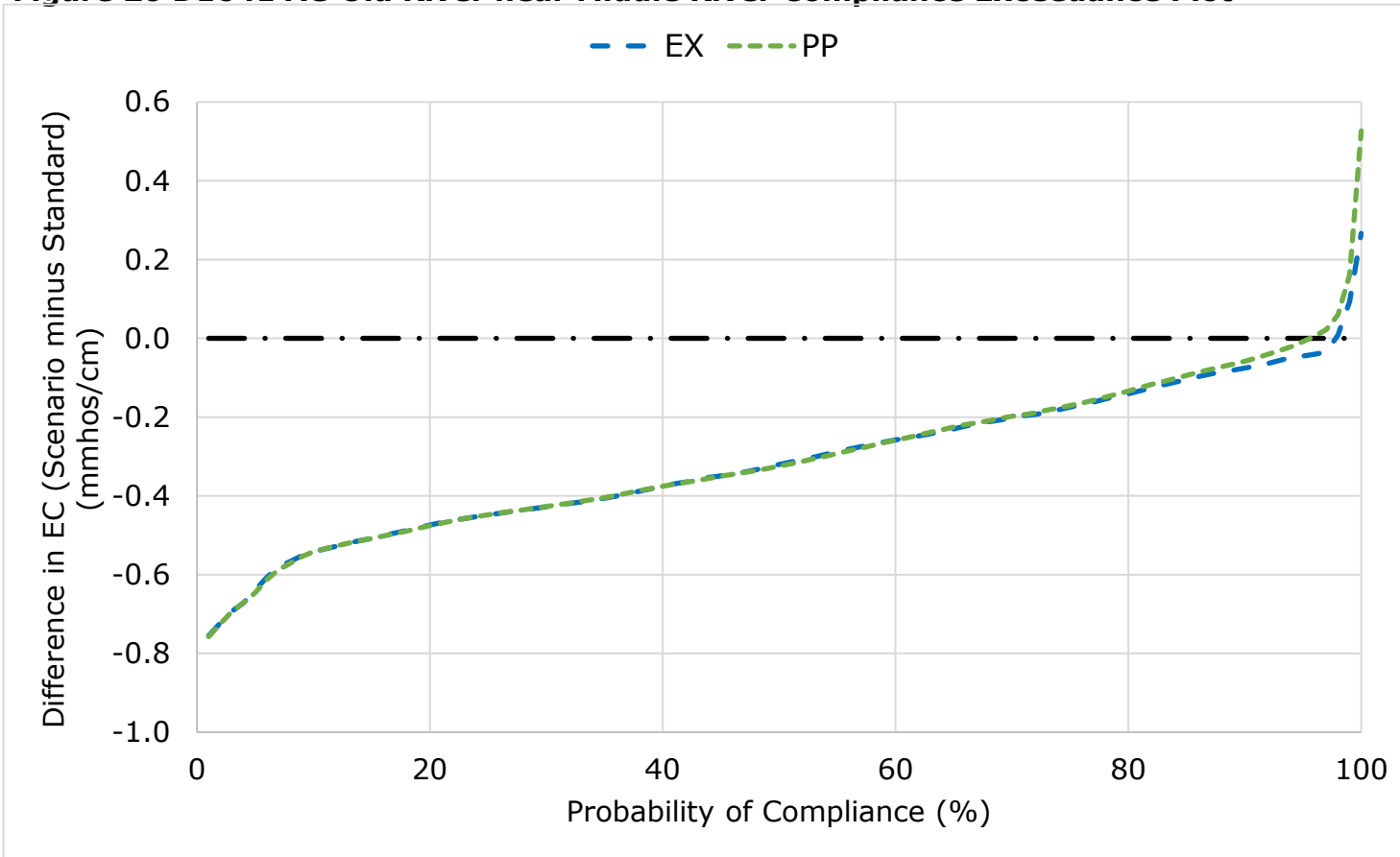
**Figure 18 D1641 MI Barker Slough at North Bay Aqueduct Intake Compliance Exceedance Plot**



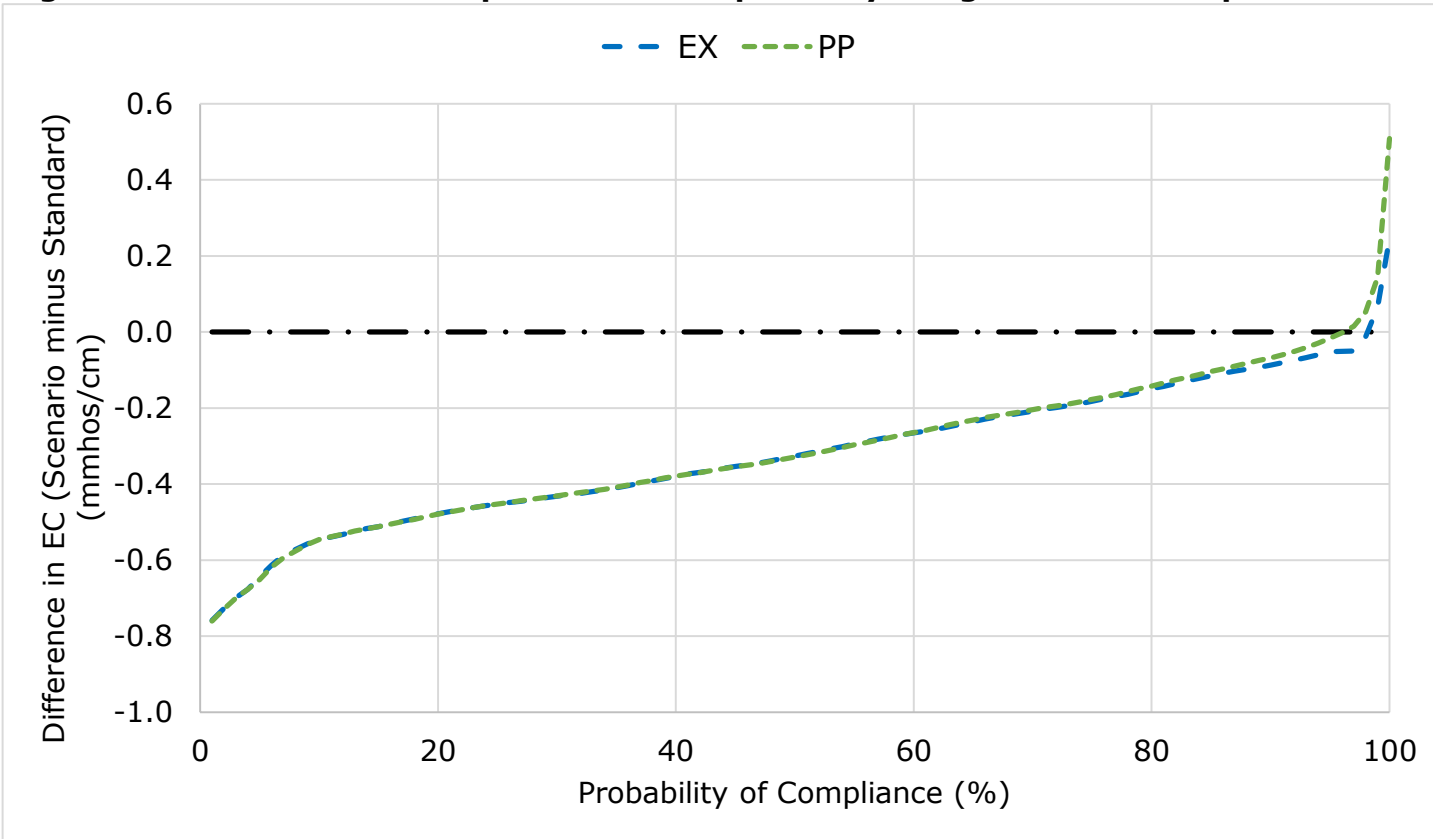
**Figure 19 D1641 AG Old River at Tracy Road Bridge Compliance Exceedance Plot**



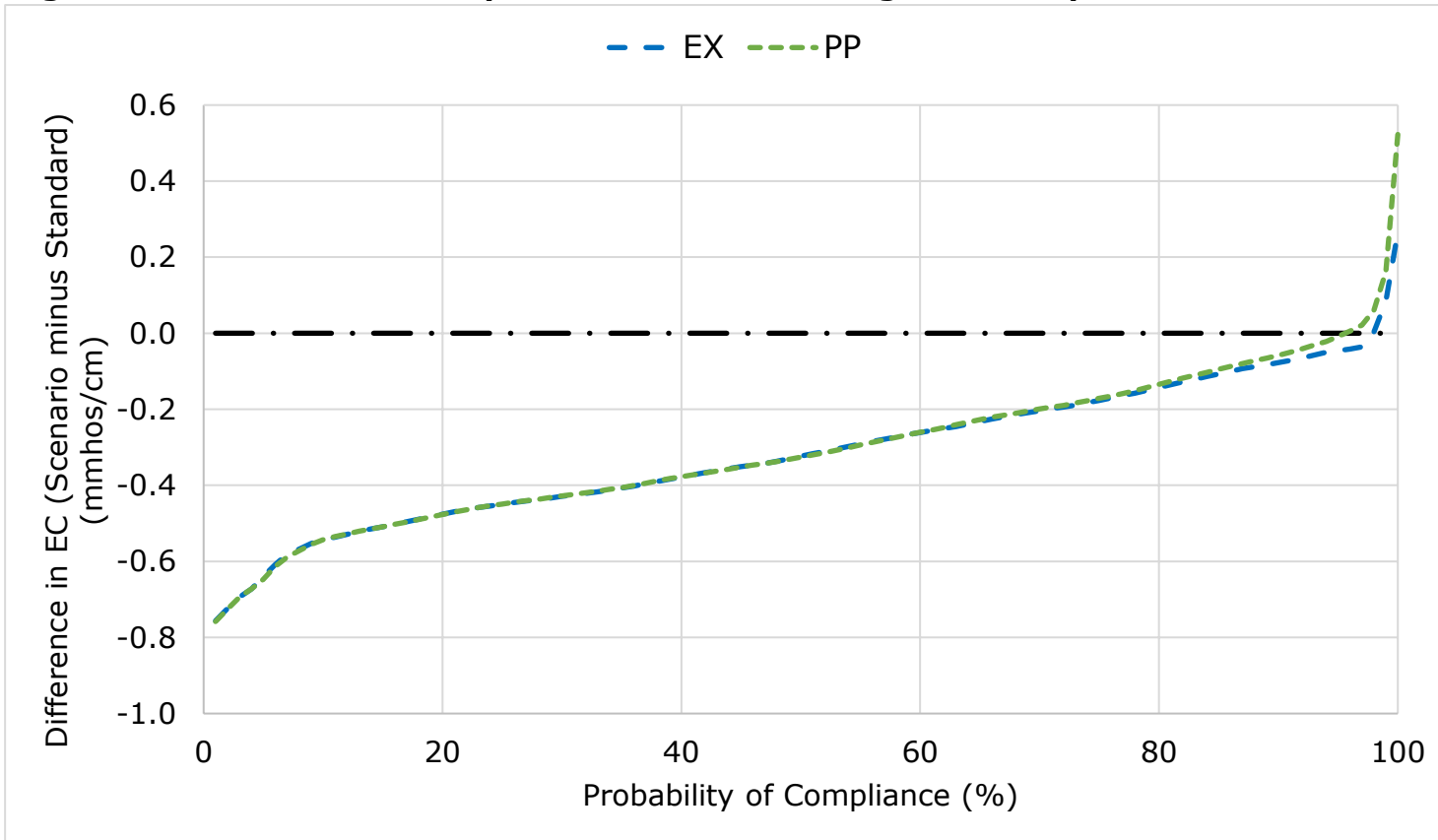
**Figure 20 D1641 AG Old River near Middle River Compliance Exceedance Plot**



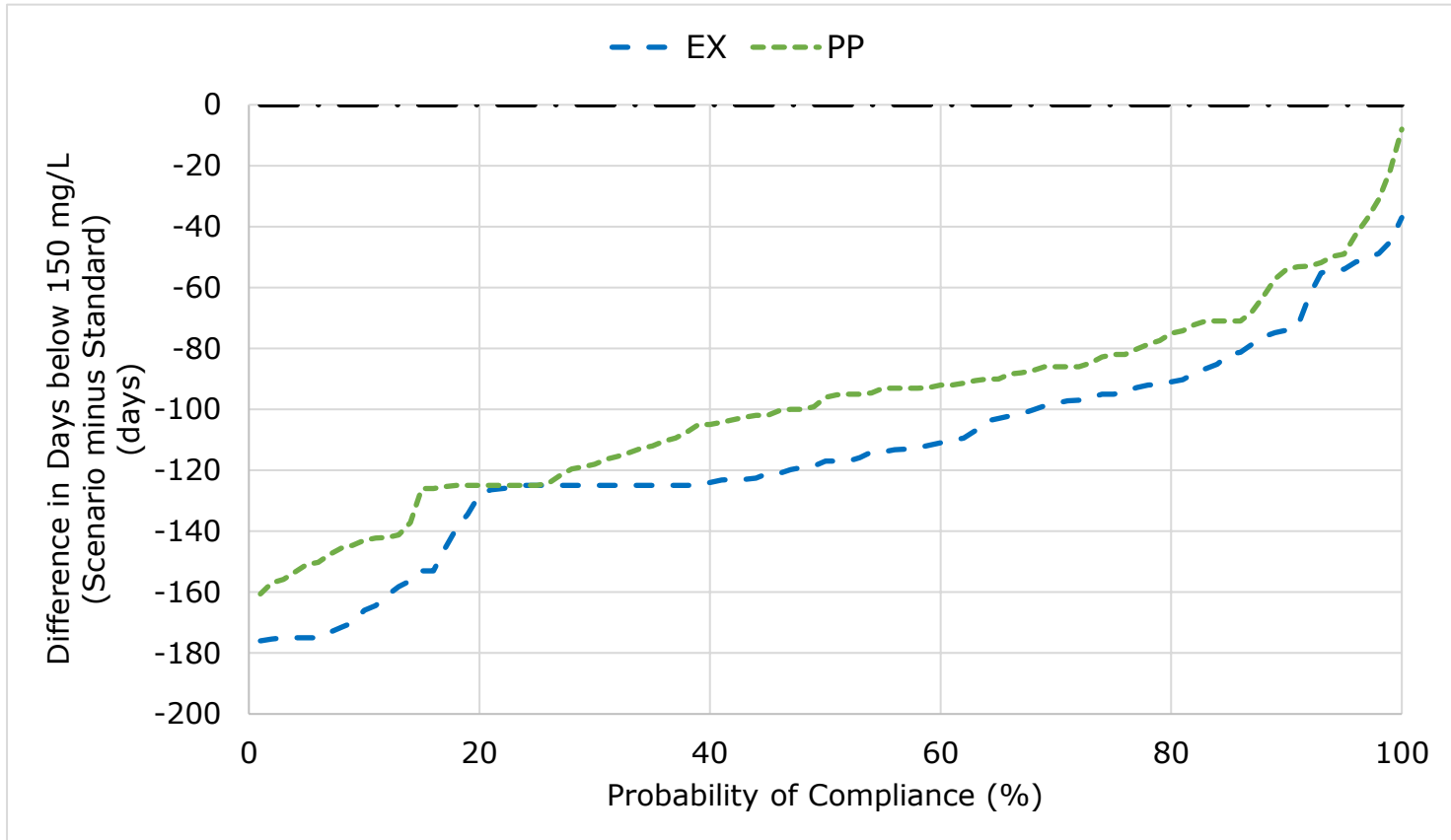
**Figure 21 D1641 AG San Joaquin River at Airport Way Bridge Vernalis Compliance Exceedance Plot**



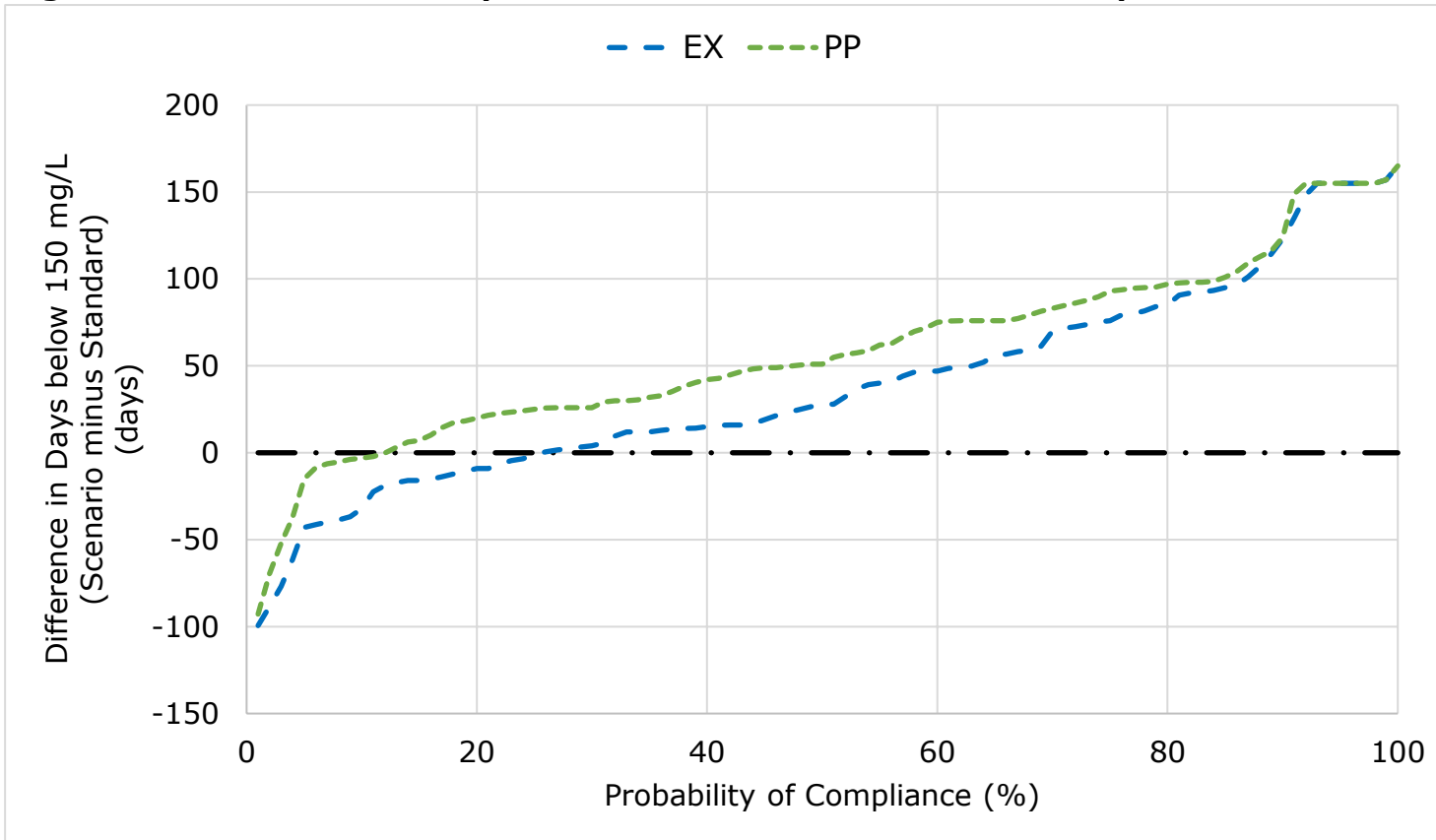
**Figure 22 D1641 AG San Joaquin River at Brandt Bridge site Compliance Exceedance Plot**



**Figure 23 D1641 MI Contra Costa Canal at Pumping Plant #1 Compliance Exceedance Plot**



**Figure 24 D1641 MI San Joaquin River at Antioch Water Works Compliance Exceedance Plot**





## Appendix C – Modeling

### Attachment 3-10 – D1641 Compliance Results (CalSim II)

***NOTE: Attachment 3-8 is a new attachment that has been added to the DEIR since initial publication, as part of the FEIR process. The additional attachment is not shown in underline for ease of reading.***

The following results of the CalSim II model are included for Delta compliance conditions for the following alternatives:

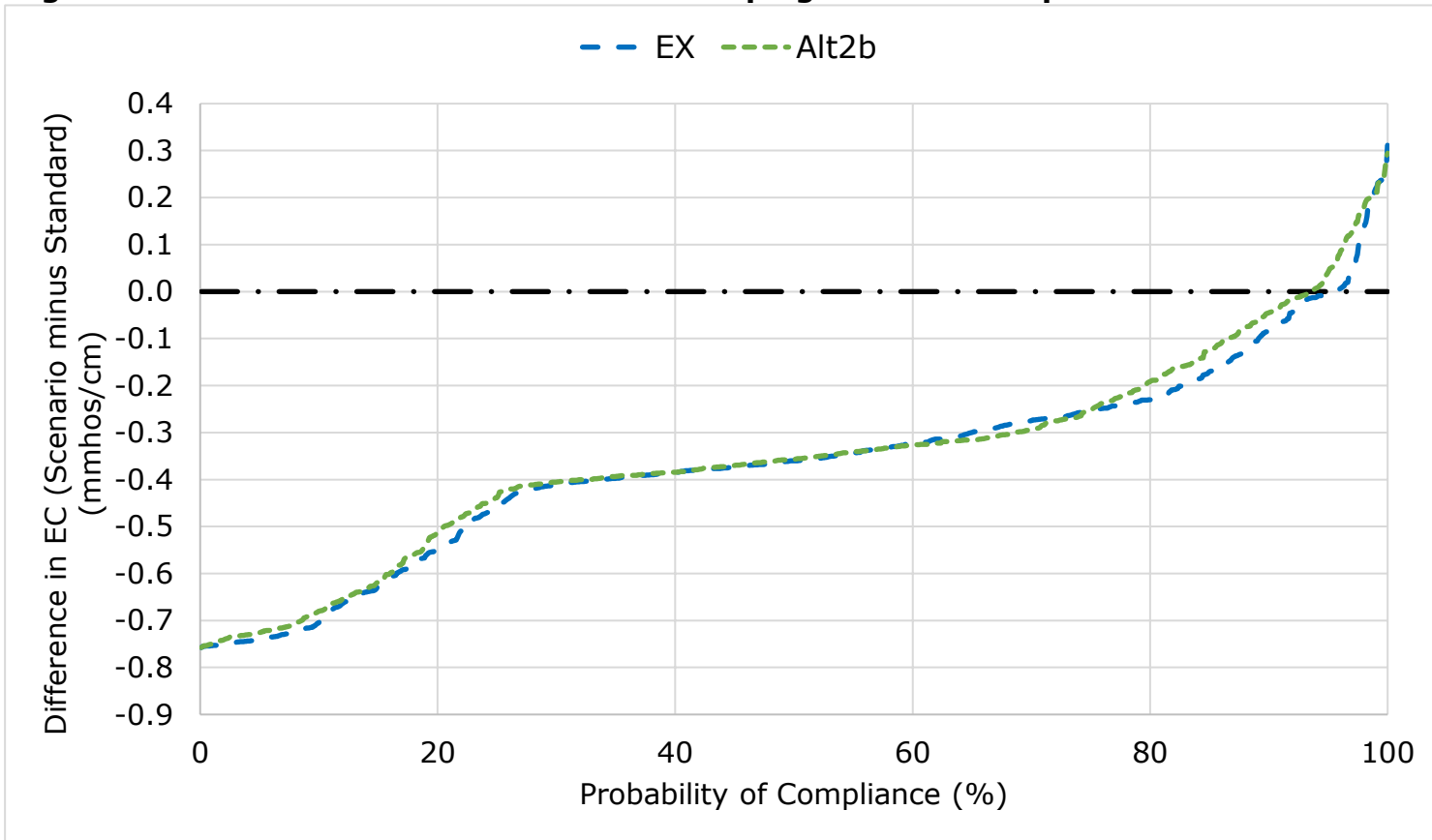
- Existing Conditions
- Refined Alternative 2b

<b>Title</b>	<b>Model Parameter</b>	<b>Table Numbers</b>	<b>Figure Numbers</b>
D1641 MI Contra Costa Canal at Pumping Plant #1	NA	NA	1
D1641 AG San Joaquin River at Jersey Point	NA	NA	2
D1641 AG Sacramento River at Emmaton	NA	NA	3
D1641 FWS Spring X2	NA	NA	4

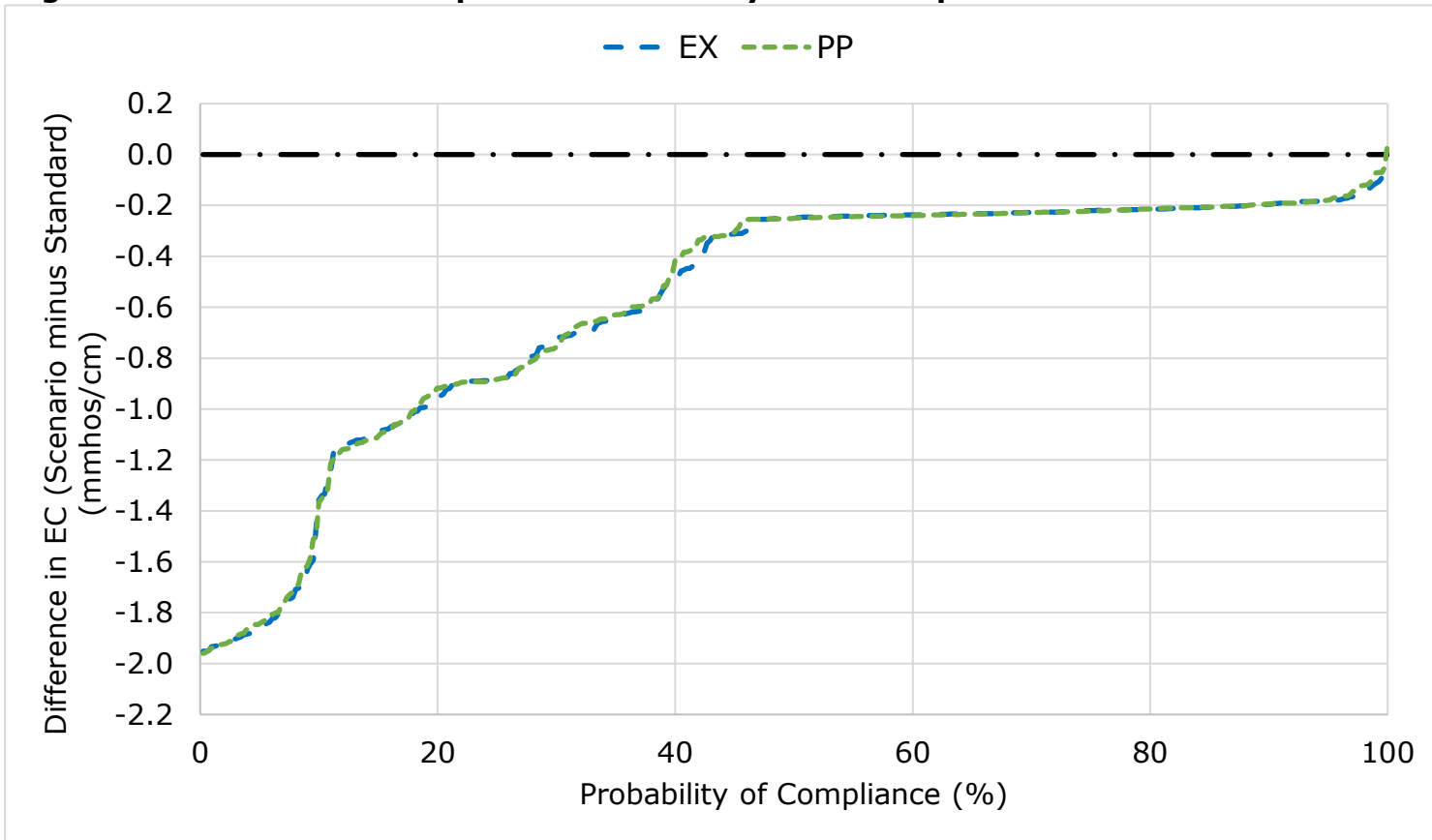
Report formats

- Compliance exceedance charts including all scenarios

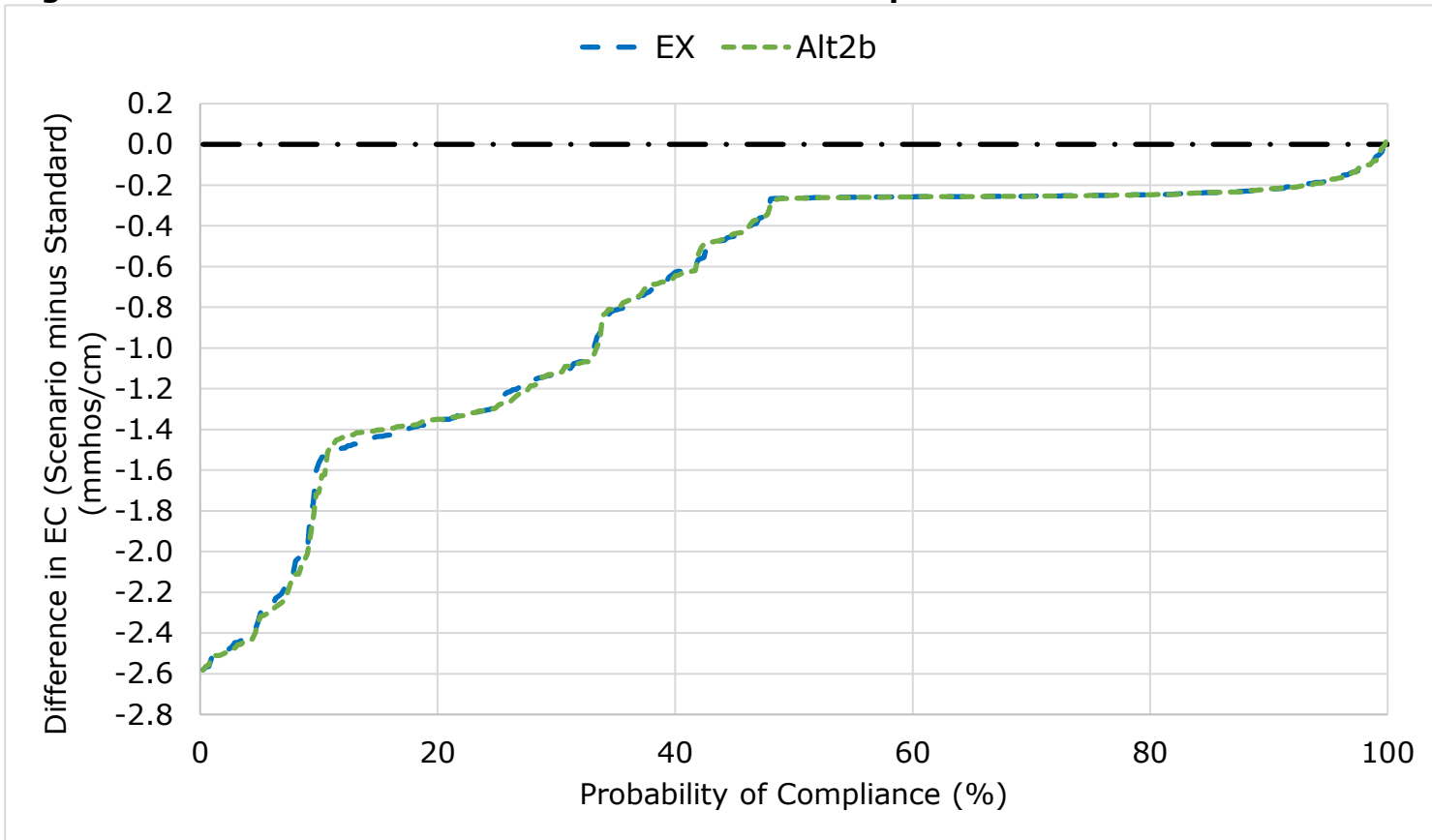
**Figure 1 D1641 MI Contra Costa Canal at Pumping Plant #1 Compliance Exceedance Plot**



**Figure 2 D1641 AG San Joaquin River at Jersey Point Compliance Exceedance Plot**



**Figure 3 D1641 AG Sacramento River at Emmaton Compliance Exceedance Plot**



**Figure 4 D1641 FWS Spring X2 Compliance Exceedance Plot**

